

STATISTICAL ANALYSIS PLAN

EMPOWaR

<u>Efficacy of Metformin in Pregnant Obese Women,</u> <u>a R</u>andomised Controlled Trial

MREC No.	10/MRE00/12
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Signed:	Signed: Prof Norman, Cl Prof Murrey, Aufhor and Statistician

Document Version History

Version Number	Reason for Update	Updated By:	Date
0.0	Creation of new statistical analysis plan	Gordon Murray	20 Nov 2012
1	Additional clarification text	Jane Norman	8 Oct 2014

EMPOWaR: Efficacy of Metformin in Pregnant Obese Women, a Randomised Controlled Trial Funding reference number: 08/246/09 (NIHR Efficacy and Mechanism Evaluation Programme) EudraCT number 2009-017134-47

Statistical Report

Population = Intention to treat (ITT) - AllocatedTreatment used for analysis Report number: 02

Confidential

Data set analysed as it was on: 29 April 2015

Section 1. Disposition / data checks 1.1 Patient disposition before randomisation - All Centres

		Overall
Parameter(s)	Categories	Count (n(%)
All patients in DB (n(%))	Yes	4867 (100)
Declined reason (n(%))	Subject participate has declined	2861 (58.8)
	Other Reason	57 (1.2)
	Failed Exclusion	100 (2.1)
	Failed Inclusion	626 (12.9)
	Failed both Exclu and Inclu	4 (0.1)
	Did not decline and pass IN_EX but not rand *	10 (0.2)
	Did not attend appointment	8 (0.2)
	Unable to contact	752 (15.5)
	Did not decline and pass IN_EX and rand	449 (9.2)

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 By: Ary

 n = number of observations
 *These patients (13045 13053 13084 13102 13117 13121 13122 13123 13168 13189) were screened as eligible, but then they subsequently declined or were no longer contactable
 NOTE: These patients (11562 11892 13047 13065) were randomised but also have a reason to decline

Section 1. Disposition / data checks 1.2.1.1 Patient disposition after randomisation - All Centres Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Consented/randomised (n(%))	Yes	223 (100)	226 (100)	449 (100)
Disposition in database (n(%))	Active	196 (87.9)	191 (84.5)	387 (86.2)
	Declined	2(0.9)	2 (0.9)	4 (0.9)
	Withdrawn by clinician	0	1 (0.4)	1 (0.2)
	Lost to follow up	9(4.0)	7 (3.1)	16 (3.6)
	Participant withdrawn	15 (6.7)	24 (10.6)	39 (8.7)
	Serious Adverse Event	1 (0.4)	1 (0.4)	2(0.4)
Outcome (z score) available* (n(%))	Yes - Live Birth	218 (97.8)	213 (94.2)	431 (96.0)
	Yes - Live Birth-followed by neonatal death	2 (0.9)	1 (0.4)	3 (0.7)
	Yes - Stillbirth	0	2 (0.9)	2(0.4)
	No - Miscarriage	0	4 (1.8)	4 (0.9)
	No - Termination of Pregnancy	2 (0.9)	1 (0.4)	3 (0.7)
	No - Not available	1 (0.4)	5 (2.2)	6 (1.3)
Outcome (Glucose test) avalilable# (n(%))	Yes	148 (66.4)	142 (62.8)	290 (64.6)
	No	75 (33.6)	84 (37.2)	159 (35.4)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: A N = number of patients randomised, n = number of observations *Available at visit 8 (Delivery) - the latest date of delivery (DOD) was 14JUL2014, for Patient 13508 outcome was miscarriage and for Patient 12074 outcome was alive birth, these labels were assigned post database lock #Available at visit 6 (36 Weeks) - checks: test date, base value and two hr value must be present

Section 1. Disposition / data checks

1.2.1.2 Patient disposition after randomisation - All Centres - Consort figures Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Treatment distributed(n(%))	Data available	222 (99.6)	225 (99.6)	447 (99.6)
	Withdrawn pre treatment	1 (0.4)	1 (0.4)	2(0.4)
Outcome (z score) available* (n(%))	Data available	220 (98.7)	214 (94.7)	434 (96.7)
	Stillbirth	0	2(0.9)	2 (0.4)
	Miscarriage (<24 weeks)	0	4 (1.8)	4 (0.9)
	Withdrawn pre treatment	1 (0.4)	1 (0.4)	2(0.4)
	Withdrawn post treatment	0	3 (1.3)	3 (0.7)
	Lost to follow up	0	1 (0.4)	1 (0.2)
	Termination of Pregnancy	2(0.9)	1 (0.4)	3 (0.7)

 EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26
 By:

 N = number of patients randomised, n = number of observations
 *Available at visit 8 (Delivery)

 IMPORTANT NOTES on manual identification:
 Patients 12046 and 12047 withdrawn pre treatment

 Patients 17063, 27317 and 18113 withdrawn post treatment
 Patients 12041, 12086 and 21119 were identified as miscarriage but they were termination of pregnacies TOP

Section 1. Disposition / data checks

1.2.1.2 Patient disposition after randomisation - All Centres - Consort figures (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Follow up Visit 9 data available* (n(%))	Data available	128 (57.4)	132 (58.4)	260 (57.9)
	Miscarriage (<24 weeks)	0	4 (1.8)	4 (0.9)
	Did not attend the visit	65 (29.1)	54 (23.9)	119 (26.5)
	Decline to further participate	16 (7.2)	20 (8.8)	36 (8.0)
	Lost to follow up	9(4.0)	7 (3.1)	16 (3.6)
	Withdrawn pre treatment	1 (0.4)	1 (0.4)	2(0.4)
	Withdrawn post treatment	0	3 (1.3)	3 (0.7)
	Withdrawn by clinician	0	1 (0.4)	1 (0.2)
	Stillbirth	0	2 (0.9)	2(0.4)
	Termination of Pregnancy	2 (0.9)	1 (0.4)	3 (0.7)
	Live Birth followed by neonatal death	2 (0.9)	1 (0.4)	3 (0.7)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Available at visit 9 (3 months postnatal) IMPORTANT NOTES on manual identification: Patients 15028, 12053 and 14145 were alive births but died after delivery (from SAE forms)

Section 1. Disposition / data checks 1.2.2 Study Populations - All Centres

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Randomised - ITT population (n(%))*	Yes	223 (100)	226 (100)	449 (100)
IMP at least once (n(%))#	Missing	46	59	105
	No	8 (4.5)	9 (5.4)	17 (4.9)
	Yes	169 (95.5)	158 (94.6)	327 (95.1)
Compliant - PP population (n(%))\$	Missing	46	59	105
	No	59 (33.3)	58 (34.7)	117 (34.0)
	Yes	118 (66.7)	109 (65.3)	227 (66.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *The intention to treat (ITT) population will comprise all randomised subjects #Members of the ITT population who took IMP at least once \$The per-protocol (PP) population will comprise those members of the ITT population who completed the study without a major protocol violation and who complied adequately with the randomised treatment, further details of treatment compliance are in table 3.2.2 of this report

Section 1. Disposition / data checks

1.3 Patient disposition - Minimisation variables Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Centres (n(%))	Royal Infirmary of Edinburgh	60 (26.9)	59 (26.1)	119 (26.5)
	Coventry	49 (22.0)	49 (21.7)	98 (21.8)
	Liverpool Womens Hospital	38 (17.0)	39 (17.3)	77 (17.1)
	Sheffield	24 (10.8)	24 (10.6)	48 (10.7)
	Notts City	7 (3.1)	6 (2.7)	13 (2.9)
	Notts QMC	8 (3.6)	6 (2.7)	14 (3.1)
	Bradford	4 (1.8)	4 (1.8)	8 (1.8)
	St Helens	1 (0.4)	3 (1.3)	4 (0.9)
	Chelsea and Westminster	0	1 (0.4)	1 (0.2)
	Preston	18 (8.1)	18 (8.0)	36 (8.0)
	Arrow Park Wirral	3 (1.3)	4 (1.8)	7 (1.6)
	Chesterfield	11 (4.9)	12 (5.3)	23 (5.1)
	Blackburn	0	1 (0.4)	1 (0.2)
BMI band at randomisation*(n(%))	30-39 Kg/m^2	152 (68.2)	152 (67.3)	304 (67.7)
	>40 Kg/m^2	71 (31.8)	74 (32.7)	145 (32.3)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *For patients 11693 and 17059, BMI was calculated at randomisation using the height in m instead of cm, as a consequence the results were respectively 375390 and 352955 kg/m^2 and these patients landed in the >40 kg/m² BMI band, their calculated BMI were 37.5 and 35.50 kg/m²

Section 1. Disposition / data checks 1.4 Data Completeness by time point Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated Regimen				
Patients CRF Completeness	METFO	METFORMIN		EBO	
by CRF SECTIONS	Visit atte	ndod		Visit attended	
	VISIL ALL	enueu	allen	ueu	
	Yes	No	Yes	No	
VISIT 1 (SCREENING)	226	0	223	0	
VISIT 2 (BASELINE)	226	0	223	0	
VISIT 3 (RANDOMISATION)	226	0	223	0	
VISIT 4 (18 TO 20 WEEKS)	194	32	188	35	
VISIT 5 (28 WEEKS)	175	51	183	40	
VISIT 6 (36 WEEKS)	145	81	158	65	
VISIT 7 (TERM)	73	153	76	147	
VISIT 8 (DELIVERY)	201	25	206	17	
VISIT 9 (FINAL)	132	94	128	95	

Section 1. Disposition / data checks 1.4 Data Completeness by time point Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	/	Allocated Regimen		
Patients CRF Completeness by CRF SECTIONS	OVEF	OVERALL		
	Vis atten			
	Yes	No		
VISIT 1 (SCREENING)	449	0		
VISIT 2 (BASELINE)	449	0		
VISIT 3 (RANDOMISATION)	449	0		
VISIT 4 (18 TO 20 WEEKS)	382	67		
VISIT 5 (28 WEEKS)	358	91		
VISIT 6 (36 WEEKS)	303	146		
VISIT 7 (TERM)	149	300		
VISIT 8 (DELIVERY)	407	42		
VISIT 9 (FINAL)	260	189		

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.1 Maternal Age Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Maternal Age at consent (years)	Mean	28.9	28.7	28.8
	Median	29.0	28.0	29.0
	SD	5.1	5.8	5.5
	MIN,MAX	17,43	18,43	17,43
	Q1,Q3	25,33	24,33	24,33
	n	223	226	449
	Nmiss	0	0	0

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.2 Maternal Life Style Status Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Smoking Status (n(%))	ACTIVE	31 (13.9)	40 (17.7)	71 (15.8)
	PREVIOUSLY	13 (5.8)	15 (6.6)	28 (6.2)
	NOT SMOKING	179 (80.3)	171 (75.7)	350 (78.0)
Alcohol During Pregnancy (n(%))	Yes	9 (4.0)	3 (1.3)	12 (2.7)
	No	214 (96.0)	223 (98.7)	437 (97.3)
Illicit Drug Status (n(%))	USING	1 (0.4)	0	1 (0.2)
	NOT USING	222 (99.6)	226 (100)	448 (99.8)

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.3 Maternal Education Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Educational Qualifications (n(%))	No formal qualifications	17 (7.6)	8 (3.5)	25 (5.6)
	Entry level certification/foundation diploma	7 (3.1)	12 (5.3)	19 (4.2)
	GCSE, Standard grade, "O" grades	55 (24.7)	55 (24.3)	110 (24.5)
	A level, A/S level, Highers or BTEC Dip/Cert.	49 (22.0)	37 (16.4)	86 (19.2)
	Cert. higher Education, City & Guilds	15 (6.7)	14 (6.2)	29 (6.5)
	Diploma HE/FE or HND/HNC	30 (13.5)	30 (13.3)	60 (13.4)
	Graduate certificate or Diploma	4 (1.8)	9 (4.0)	13 (2.9)
	Degree	32 (14.3)	47 (20.8)	79 (17.6)
	Professional Qualification	3 (1.3)	4 (1.8)	7 (1.6)
	PGCE/Postgraduate certificate or Diploma, Masters. Doctorate	11 (4.9)	10 (4.4)	21 (4.7)
Educational Qualifications coded (n(%))	None	17 (7.6)	8 (3.5)	25 (5.6)
	School up to 16 years	62 (27.8)	67 (29.6)	129 (28.7)
	School 16 to 18 years	64 (28.7)	51 (22.6)	115 (25.6)
	College or Uni degree or Higher	80 (35.9)	100 (44.2)	180 (40.1)

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Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.1 Previous pregnacy status* PARITY 1 Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
PARITY1 (n(%))	0	84 (37.7)	100 (44.2)	184 (41.0)	
	=>1	139 (62.3)	126 (55.8)	265 (59.0)	

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Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.2 Previous pregnacy status* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Number of Previous Pregnancies (n(%))	Missing	3	0	3
	0	59 (26.8)	79 (35.0)	138 (30.9)
	1	66 (30.0)	61 (27.0)	127 (28.5)
	2	46 (20.9)	47 (20.8)	93 (20.9)
	3	20 (9.1)	21 (9.3)	41 (9.2)
	4	12 (5.5)	9 (4.0)	21 (4.7)
	5	11 (5.0)	2 (0.9)	13 (2.9)
	6	3 (1.4)	3 (1.3)	6 (1.3)
	7	2 (0.9)	3 (1.3)	5 (1.1)
	8	0	1 (0.4)	1 (0.2)
	9	1 (0.5)	0	1 (0.2)
At least one Prev Preg* (n(%))	Missing	3	0	3
	Yes	161 (73.2)	147 (65.0)	308 (69.1)
	No	59 (26.8)	79 (35.0)	138 (30.9)

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*Only pregnacies lasting at least 12 weeks or more were considered regardless of outcome and if a patient had more than one previous pregnancy, only her latest pregnancy was counted

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.3 Previous Pregnancy details* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Multiple Pregnancy#(%)	Missing	3	0	3
	Yes	4 (2.5)	6 (4.1)	10 (3.2)
	No	157 (97.5)	141 (95.9)	298 (96.8)
Gestation of Pregnancy#(weeks)(n(%))	Missing	3	0	3
	<12	40 (24.8)	38 (25.9)	78 (25.3)
	12<22	2 (1.2)	5 (3.4)	7 (2.3)
	>22	119 (73.9)	104 (70.7)	223 (72.4)
Last Pregnancy Outcome#(%)	Missing	3	0	3
	Miscarriage	31 (19.3)	32 (21.8)	63 (20.5)
	Ectopic	1 (0.6)	1 (0.7)	2 (0.6)
	Termination of Pregnancy	9 (5.6)	10 (6.8)	19 (6.2)
	Live Birth	120 (74.5)	103 (70.1)	223 (72.4)
	Live Birth followed by neonatal death	0	1 (0.7)	1 (0.3)
Pre term Birth#(n(%))	Missing	26	27	53
	Yes	8 (5.8)	6 (5.0)	14 (5.4)
	No	130 (94.2)	114 (95.0)	244 (94.6)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Only pregnacies lasting at least 12 weeks or more were considered regardless of outcome and if a patient had more than one previous pregnancy, only her latest pregnancy was counted #Only summarised for patiens who has a previous pregnancy in the previous table

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.5 Maternal Blood Pressure at baseline

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Maternal Systolic BP (mmHg)	Mean	119.4	117.6	118.5
	Median	120.0	118.0	120.0
	SD	10.4	10.8	10.6
	MIN,MAX	90,142	91,148	90,148
	Q1,Q3	111,127	110,126	110,126
	n	223	226	449
	Nmiss	0	0	0
Maternal Diastolic BP (mmHg)	Mean	68.9	68.0	68.5
	Median	69.0	69.0	69.0
	SD	7.3	7.8	7.6
	MIN,MAX	50,90	49,86	49,90
	Q1,Q3	64,74	60,74	62,74
	n	223	226	449
	Nmiss	0	0	0

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Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.6 Current pregnancy details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Ultrasound Confirmation (n(%))	Yes	219 (98.2)	224 (99.1)	443 (98.7)
	No	4 (1.8)	2 (0.9)	6 (1.3)
Gestation at baseline* (days)	Mean	98.9	99.1	99.0
	Median	100.0	99.0	100.0
	SD	8.7	8.1	8.4
	MIN,MAX	71,112	70,112	70,112
	Q1,Q3	92,106	94,106	93,106
	n	223	226	449
	Nmiss	0	0	0

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.1 Putative father Age Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Paternal age (years)	Mean	31.5	31.3	31.4	
	Median	31.0	31.0	31.0	
	SD	6.3	6.7	6.5	
	MIN,MAX	15,50	20,60	15,60	
	Q1,Q3	27,35	26,36	26,36	
	n	221	221	442	
	Nmiss	2	5	7	

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.2 Putative father Height and Weight Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Paternal height (cm)	Mean	178.5	177.1	177.8	
	Median	178.0	178.0	178.0	
	SD	8.3	13.7	11.3	
	MIN,MAX	156,207	63,196	63,207	
	Q1,Q3	173,185	173,185	173,185	
	n	204	202	406	
	Nmiss	19	24	43	
Paternal weight (Kg)	Mean	92.3	93.5	92.9	
	Median	89.3	89.0	89.0	
	SD	22.5	25.8	24.2	
	MIN,MAX	57,154	57,205	57,205	
	Q1,Q3	74,105	76,105	76,105	
	n	187	188	375	
	Nmiss	36	38	74	

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.3 Putative father Ethnicity Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Ethnic Origin (n(%))	Missing	0	2	2
	White	214 (96.0)	210 (93.8)	424 (94.9)
	Non-White	9(4.0)	14 (6.3)	23 (5.1)
Ethnic Origin-More detail (n(%))	Missing	0	2	2
	White	214 (96.0)	210 (93.8)	424 (94.9)
	Mixed	4 (1.8)	4 (1.8)	8 (1.8)
	Asian	0	3 (1.3)	3 (0.7)
	Black	4 (1.8)	6 (2.7)	10 (2.2)
	Othe Ethnic group	1 (0.4)	1 (0.4)	2(0.4)

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Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.1 Preeclampsia or Hypertension / Hypertension Requiring Treatment Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Preeclampsia or Hypertension (n(%))	Yes	7 (3.1)	10 (4.4)	17 (3.8)
	No	216 (96.9)	216 (95.6)	432 (96.2)
Currently taking Medication (n)	Yes	0	1	1
	No	7	9	16
Hypertension Require Treatment (n(%))	Yes	2(0.9)	1 (0.4)	3 (0.7)
	No	221 (99.1)	225 (99.6)	446 (99.3)
Currently taking Medication (n)	No	2	1	3

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.2 Polycystic Ovarian Syndrome / Depression Requiring Treatment Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Polycystic Ovarian Syndrome (n(%))	Yes	21 (9.4)	28 (12.4)	49 (10.9)
	No	201 (90.1)	196 (86.7)	397 (88.4)
	Unk	1 (0.4)	2 (0.9)	3 (0.7)
Currently taking Medication (n)	No	21	28	49
Depression Require Treatment (n(%))	Yes	71 (31.8)	48 (21.2)	119 (26.5)
	No	152 (68.2)	178 (78.8)	330 (73.5)
Currently taking Medication (n)	Yes	9	11	20
	No	62	37	99

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.3 Anxiety Requiring Treatment / Use of Steriods Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Anxiety Require Treatment (n(%))	Yes	20 (9.0)	15 (6.6)	35 (7.8)
	No	203 (91.0)	211 (93.4)	414 (92.2)
Currently taking Medication (n)	Yes	5	4	9
	No	15	11	26
Use of Steriods (n(%))	Yes	22 (9.9)	13 (5.8)	35 (7.8)
	No	201 (90.1)	213 (94.2)	414 (92.2)
Currently taking Medication (n)	Yes	18	11	29
	No	4	2	6

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Family history 2.4 Any family history for the following conditions Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any Medical History* (n(%))	Yes	142 (63.7)	157 (69.5)	299 (66.6)
	No	78 (35.0)	67 (29.6)	145 (32.3)
	Unk	3 (1.3)	2 (0.9)	5 (1.1)
Cardiovascular disease (n(%))	Yes	69 (30.9)	71 (31.4)	140 (31.2)
	No	150 (67.3)	152 (67.3)	302 (67.3)
	Unk	4 (1.8)	3 (1.3)	7 (1.6)
Diabetes(n(%))	Yes	101 (45.3)	99 (43.8)	200 (44.5)
	No	120 (53.8)	124 (54.9)	244 (54.3)
	Unk	2 (0.9)	3 (1.3)	5(1.1)
Preeclampsia(n(%))	Yes	22 (9.9)	19 (8.4)	41 (9.1)
	No	198 (88.8)	200 (88.5)	398 (88.6)
	Unk	3 (1.3)	7 (3.1)	10 (2.2)
Any other medical history(n(%))	Yes	96 (43.0)	109 (48.2)	205 (45.7)
	No	127 (57.0)	117 (51.8)	244 (54.3)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By N = number of patients randomised, n = number of observations *In order to be yes, at least one condition below must be present, for no all conditions below must be also no

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.1 Mother Anthropometry / Height and Weight* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Maternal Height (cm)	Mean	165.1	165.5	165.3	
	Median	165.0	165.0	165.0	
	SD	5.9	5.9	5.9	
	MIN,MAX	149,184	152,182	149,184	
	Q1,Q3	161,170	162,170	161,170	
	n	223	226	449	
	Nmiss	0	0	0	
Maternal Weight (kg)	Mean	102.94	103.60	103.27	
	Median	99.20	101.35	100.20	
	SD	17.00	15.50	16.25	
	MIN,MAX	72.0,170.4	74.0,154.8	72.0,170.4	
	Q1,Q3	90.1,111.9	93.0,113.5	92.0,112.1	
	n	223	226	449	
	Nmiss	0	0	0	

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.2 Mother Anthropometry / BMI_c and Waist* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Maternal BMI Calculated (kg/m^2)	Mean	37.699	37.751	37.725	
	Median	36.659	36.882	36.787	
	SD	5.598	4.935	5.269	
	MIN,MAX	30.12,61.27	30.03,57.23	30.03,61.27	
	Q1,Q3	33.14,40.88	34.17,41.10	33.61,41.01	
	n	223	226	449	
	Nmiss	0	0	0	
Maternal Waist (cm)	Mean	108.69	110.09	109.39	
	Median	106.00	109.00	108.00	
	SD	13.50	11.86	12.71	
	MIN,MAX	64.0,152.0	84.0,145.0	64.0,152.0	
	Q1,Q3	99.0,117.0	102.0,117.0	100.0,117.0	
	n	222	225	447	
	Nmiss	1	1	2	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.3 Mother Anthropometry / Hip and MidArm* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Maternal Hip (cm)	Mean	126.38	127.39	126.89
	Median	125.00	126.00	125.00
	SD	12.12	11.78	11.95
	MIN,MAX	95.0,159.0	100.0,160.5	95.0,160.5
	Q1,Q3	117.0,133.5	119.0,135.0	118.0,134.0
	n	222	225	447
	Nmiss	1	1	2
Maternal Mid Arm (cm)	Mean	36.29	36.74	36.51
	Median	36.00	36.00	36.00
	SD	5.01	4.65	4.83
	MIN,MAX	20.0,54.0	27.5,52.0	20.0,54.0
	Q1,Q3	33.0,39.0	34.0,39.4	33.5,39.0
	n	220	221	441
	Nmiss	3	5	8

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.4 Mother Anthropometry / Mid Thigh and Tricep Skinfold* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Maternal Mid Thigh (cm)	Mean	64.15	64.24	64.20
	Median	64.00	63.00	64.00
	SD	7.67	6.91	7.29
	MIN,MAX	25.0,84.0	50.0,89.0	25.0,89.0
	Q1,Q3	60.0,69.0	60.0,68.0	60.0,68.5
	n	219	222	441
	Nmiss	4	4	8
Maternal Tricep Skinfold (mm)	Mean	31.176	31.936	31.556
	Median	30.550	31.000	30.800
	SD	9.666	10.793	10.241
	MIN,MAX	5.00,62.00	8.00,66.00	5.00,66.00
	Q1,Q3	25.00,37.80	24.00,39.00	24.50,38.00
	n	222	222	444
	Nmiss	1	4	5

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.5 Mother Anthropometry / Bicep Skinfold and Subscapular Skinfold* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Maternal Bicep Skinfold (mm)	Mean	25.707	27.432	26.570
	Median	24.200	25.800	25.000
	SD	9.998	10.890	10.478
	MIN,MAX	1.00,60.00	9.00,61.00	1.00,61.00
	Q1,Q3	20.00,31.00	20.00,34.00	20.00,32.00
	n	222	222	444
	Nmiss	1	4	5
Maternal Subscapular Skinfold (mm)	Mean	31.997	32.555	32.275
	Median	32.700	31.300	32.000
	SD	12.205	11.805	11.998
	MIN,MAX	3.00,67.80	8.00,71.00	3.00,71.00
	Q1,Q3	24.00,40.00	24.50,39.00	24.00,39.00
	n	222	220	442
	Nmiss	1	6	7

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Compliance

3.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated* Gestation - Visit 1 (days)	Mean	86.1	86.0	86.1
	Median	87.0	88.0	88.0
	SD	14.0	13.6	13.8
	MIN,MAX	47,112	51,112	47,112
	Q1,Q3	79,97	77,95	79,96
	n	223	226	449
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	98.9	99.1	99.0
	Median	100.0	99.0	100.0
	SD	8.7	8.1	8.4
	MIN,MAX	71,112	70,112	70,112
	Q1,Q3	92,106	94,106	93,106
	n	223	226	449
	Nmiss	0	0	0

Section 3. Compliance

3.1 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) (Cont.) Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated* Gestation - Visit 3 (days)	Mean	101.1	100.8	101.0
	Median	102.0	101.0	102.0
	SD	8.1	7.4	7.7
	MIN,MAX	84,118	84,113	84,118
	Q1,Q3	95,108	96,108	95,108
	n	223	226	449
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	142.0	143.7	142.9
	Median	141.0	141.0	141.0
	SD	13.9	29.1	22.9
	MIN,MAX	102,252	114,498	102,498
	Q1,Q3	135,145	134,145	135,145
	n	197	202	399
	Nmiss	26	24	50

Section 3. Compliance 3.1 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

egories N an 1 lian 1	acebo / =223 97.6 97.0 9.0	Metformin N=226 197.6 197.0 6.0	Overall N=449 197.6 197.0
lian 1	97.0	197.0	
			197.0
	9.0	6.0	
		0.0	7.7
,MAX 15	5,275	167,226	155,275
Q3 19	5,200	195,200	195,200
	192	184	376
ss	31	42	73
an 2	52.9	251.4	252.2
lian 2	53.0	253.0	253.0
	8.7	24.4	18.0
,MAX 15	5,264	-43,268	-43,268
Q3 25	1,256	251,256	251,256
	165	154	319
SS	58	72	130
i	iss an 2 Jian 2 I,MAX 15 Q3 25	192 iss 31 an 252.9 dian 253.0 8.7 I,MAX 155,264 Q3 251,256 165	192 184 iss 31 42 an 252.9 251.4 dian 253.0 253.0 8.7 24.4 I,MAX 155,264 -43,268 Q3 251,256 251,256 165 154

Section 3. Compliance 3.1 Gestation by timepoint - Visit 7 Term (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated* Gestation - Visit 7 (days)	Mean	284.3	278.8	281.5
	Median	278.0	279.0	278.0
	SD	72.8	18.6	52.4
	MIN,MAX	155,1011	250,419	155,1011
	Q1,Q3	273,281	274,280	274,280
	n	109	115	224
	Nmiss	114	111	225
Calculated* Gestation - Visit 8 (days)	Mean	278.9	278.3	278.6
	Median	281.0	280.0	280.0
	SD	26.1	30.5	28.4
	MIN,MAX	132,459	99,527	99,527
	Q1,Q3	272,288	271,287	271,287
	n	218	218	436
	Nmiss	5	8	13

Section 3. Compliance 3.1 Gestation by timepoint - Visit 8 Delivery (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Recorded* Gestation - Visit 8 (days)	Mean	274.7	275.0	274.9
	Median	277.5	278.0	278.0
	SD	20.4	18.3	19.3
	MIN,MAX	130,298	126,297	126,298
	Q1,Q3	271,286	271,285	271,286
	n	222	218	440
	Nmiss	1	8	9
Coded R_gestation - Visit 8 (n(%))	Missing	1	8	9
	<= 24 WEEKS	2(0.9)	2 (0.9)	4 (0.9)
	>24 and <=37 WEEKS	14 (6.3)	19 (8.7)	33 (7.5)
	>37 WEEKS	206 (92.8)	197 (90.4)	403 (91.6)

Section 3. Compliance 3.2.1 Treatment compliance / Tablets returned by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Tablets Returned Visit 5 (28 Weeks) (n(%))	Missing	66	80	146
	Yes	13 (8.3)	9 (6.2)	22 (7.3)
	No	144 (91.7)	137 (93.8)	281 (92.7)
Tablets Returned Visit 8 (Delivery) (n(%))	Missing	42	37	79
	Yes	69 (38.1)	79 (41.8)	148 (40.0)
	No	112 (61.9)	110 (58.2)	222 (60.0)

Section 3. Compliance

3.2.2 Treatment compliance Calculated using the patient diary (as per SAP) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Calculated Compliance* (n(%))	Missing	46	59	105		
	No	59 (33.3)	58 (34.7)	117 (34.0)		
	Yes	118 (66.7)	109 (65.3)	227 (66.0)		

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N = number of patients randomised, n = number of observations

*The number of weeks that a patient was pregnant within the study period was calculated using the gestation at baseline and the gestation at delivery, this value was then halved and compared to the number of weeks recorded in the diary, if a patient has less week diary entries than the halved total weeks then she is non-compliant straight away. If a patient had equal or more week diary entries than halved total weeks then it was required that she taken at least one pill for 4 days in order to declare a compliant week. Finally for being treatment compliant the patient should have equal or more than 50% of compliant weeks out of all available weeks

Section 3. Compliance

3.2.3.1 Cross Check* of Treatment compliance Calculated# vs tablets returned - Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Compliance	Allo	cated R	egimen	gimen		
by tablets retuned at	METFORMIN		PLAC	EBO		
visit 5	Tablets returned		Tabl returi	0.0		
	Yes No		Yes	No		
Compliance						
No	3	30	3	38		
Yes	6	92	9	89		

Compliance by tablets retuned at visit 5	Alloca Regir		
	OVERALL		
visit 5	Tabl returi	010	
	Yes	No	
Compliance			
No	6	68	
Yes	15	181	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report

Section 3. Compliance

3.2.3.2 Cross Check* of Treatment compliance Calculated# vs tablets returned - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Compliance	Allo	cated Re	egimen	nen		
by tablets retuned at	METFORMIN Tablets returned		PLAC	EBO		
visit 8			Tabl retun	010		
	Yes	No	Yes	No		
Compliance						
No	15	34	11	37		
Yes	57	43	53	46		

Compliance	Alloca Regii			
by tablets retuned at	OVERALL			
visit 8	Tablets returned			
	Yes	No		
Compliance				
No	26	71		
Yes	110	89		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report

Section 3. Compliance 3.3 Treatment compliance / Metformin level in blood samples at Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Metformin level (ng/mL)	Mean	2.3	61.5	31.2
	Median	0.0	7.0	0.0
	SD	16.2	172.5	124.5
	MIN,MAX	0,154	0,1611	0,1611
	Q1,Q3	0,0	0,48	0,10
	n	137	131	268
	Nmiss	86	95	181
Any Metformin level coded (n(%))	Missing	86	95	181
	Yes	12 (8.8)	80 (61.1)	92 (34.3)
	No	125 (91.2)	51 (38.9)	176 (65.7)

Section 3. Compliance

3.4 Cross Check* of Treatment compliance Calculated# vs Metformin level in blood samples at Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Compliance by	Allocated Regimen				
metformin level at visit	METFO	RMIN	PLACEBO		
6	Any Metformin		Any Metformin		
	Yes	No	Yes	No	
Compliance					
No	13	20	3	28	
Yes	63	20	7	86	

Compliance by metformin level at visit 6	Allocated Regimen OVERALL Any Metformin	
	Yes	No
Compliance		
No	16	48
Yes	70	106

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report and in the SAP

Section 4. Secondary Outcome - All Patients 4.1.1.1.1 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Delivery Method (n(%))	Missing	1	7	8
	Spontaneous vaginal delivery	126 (56.8)	133 (60.7)	259 (58.7)
	LSCS in labour	34 (15.3)	25 (11.4)	59 (13.4)
	LSCS pre labour	42 (18.9)	40 (18.3)	82 (18.6)
	Forceps/ventouse	18 (8.1)	21 (9.6)	39 (8.8)
	Vaginal breech	2 (0.9)	0	2 (0.5)
C-SECTION index pregnancy (n(%))	Missing	1	7	8
	Yes	76 (34.2)	65 (29.7)	141 (32.0)
	No	146 (65.8)	154 (70.3)	300 (68.0)
Primary C-SECTION in index pregancy (n(%))	Missing	1	7	8
	Yes	46 (20.7)	42 (19.2)	88 (20.0)
	No	176 (79.3)	177 (80.8)	353 (80.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

c section itt AllocatedTreatment METFORMIN vs PLACEBO

Section 4. Secondary Outcome - All Patients 4.1.1.1.2 Birth Outcome - C-SECTION current pregnancy - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of C	SECTIONYN by Allo					
	CSECTIONYN(C-sec	AllocatedTreatment(Allocated Treatment)					
	coded (Y/N))	METFORMIN	PLACEBO	Total			
	Missing	7	1				
	Yes	65	76	141			
	No	154	146	300			
	Total	219	222	441			
		Frequency Missing	= 8				
		Studied	Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Parameter(s)		effects	Estimate	Ratio	Ratio	P-value#	P-value#

0.811

0.543

1.211

0.3056

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is csec='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_4_1_1_1_c_section.lst'

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0.3095

Section 4. Secondary Outcome - All Patients 4.1.1.1.3 Birth Outcome - First ever C-SECTION - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of first	Table of first_c_section by AllocatedTreatment						
	first_c_section(First ever c-section in current pregnancy (Y/N))		Treatment(Allo Treatment) PLACEBO	ocated Tota	al			
	Missing	7	1					
	Yes	42	46	8	8			
	No	177	176	35	3			
	Total	219	222	44	1			
	/	Frequency Missir	ng = 8					
Parameter(s)		Studied effects		Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
first_csec_itt	AllocatedTreatment	METFORMIN vs	PLACEBO	0.908	0.569	1.449	0.6853	0.7216

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is first csec='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 1 1 1 c section.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.2.1 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Delivery Blood Loss (mL)	Mean	494.9	486.7	490.8		
	Median	400.0	400.0	400.0		
	SD	405.5	453.7	429.5		
	MIN,MAX	100,2500	50,5000	50,5000		
	Q1,Q3	250,600	300,580	250,600		
	n	216	212	428		
	Nmiss	7	14	21		
Hemorrhage* (n(%))	Missing	7	14	21		
	Yes	21 (9.7)	20 (9.4)	41 (9.6)		
	No	195 (90.3)	192 (90.6)	387 (90.4)		
SAE recorded due to Hemorrhage# (n(%))	Missing	1	1	2		
	Yes	10	8	18		
	No	10	11	21		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Hemorrhage defined as a blood loss greater than 1000ml #Only summarised for patients with hemorrhage=yes in the item right above

Section 4. Secondary Outcome - All Patients 4.1.1.1.2.2 Birth Outcome - Hemorrhage - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of HEN						
	HEMORRHAGE(Heamorr	7	reatment(Allocate reatment)	d			
	(Y/N))	METFORMIN	PLACEBO	Total			
	Missing	14	7				
	Yes	20	21	41			
	No	192	195	387			
	Total	212	216	428			
	F	requency Missing = 21					
				Lower 95% Confidence	Upper 95% Confidence		
		.	Odds	Limit	Limit		Fisher
Paramete	er(s)	Studied effects	Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
HEMORRHA	AGE_itt AllocatedTreatment	METFORMIN vs PLACI	EBO 0.967	0.508	1.842	0.9193	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Hemorr='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 1 1 1 postpartum hemorrhage analysis.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.3 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Labour Type (n(%))	Missing	2	6	8
	Spontaneous	89 (40.3)	97 (44.1)	186 (42.2)
	Induced	98 (44.3)	82 (37.3)	180 (40.8)
	C-section	34 (15.4)	41 (18.6)	75 (17.0)
Non Spontaneous Reason* (n(%))	Missing	3	8	11
	Post dates	24 (18.3)	16 (13.2)	40 (15.9)
	Pre-eclampsia	3 (2.3)	6 (5.0)	9 (3.6)
	Abruption	0	1 (0.8)	1 (0.4)
	Other maternal condition	45 (34.4)	48 (39.7)	93 (36.9)
	Previous C-section	20 (15.3)	16 (13.2)	36 (14.3)
	Previous obstetric history (other)	4 (3.1)	2 (1.7)	6 (2.4)
	Maternal request	10 (7.6)	5(4.1)	15 (6.0)
	Suspected fetal compromise	13 (9.9)	13 (10.7)	26 (10.3)
	Malpresentation	5 (3.8)	8 (6.6)	13 (5.2)
	Suspected IUGR	3 (2.3)	2 (1.7)	5 (2.0)
	Suspected Macrosomia	4 (3.1)	4 (3.3)	8 (3.2)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Only recorded for induced and c-section above

Section 4. Secondary Outcome - All Patients 4.1.1.4 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Gesta_coded by method* (n(%))	Missing	1	6	7
	Sponta_vaginal_delivery_<=37 WEEKS	3 (1.4)	8 (3.6)	11 (2.5)
	Sponta_vaginal_delivery_>37 WEEKS	121 (54.5)	119 (54.1)	240 (54.3)
	LSCS in labour_<=37 WEEKS	2 (0.9)	1 (0.5)	3 (0.7)
	LSCS in labour_>37 WEEKS	32 (14.4)	24 (10.9)	56 (12.7)
	LSCS pre labour_<=37 WEEKS	7 (3.2)	8 (3.6)	15 (3.4)
	LSCS pre labour_>37 WEEKS	35 (15.8)	32 (14.5)	67 (15.2)
	Forceps/ventouse_<=37 WEEKS	1 (0.5)	1 (0.5)	2 (0.5)
	Forceps/ventouse_>37 WEEKS	17 (7.7)	20 (9.1)	37 (8.4)
	Vaginal breech_<=37 WEEKS	1 (0.5)	0	1 (0.2)
	Vaginal breech_>37 WEEKS	1 (0.5)	0	1 (0.2)
	TOP_Stillbirth_Miscarriage	2 (0.9)	7 (3.2)	9 (2.0)

Section 4. Secondary Outcome - All Patients 4.1.1.5 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Gesta_coded by labour* (n(%))	Missing	2	5	7	
	Spontaneous_<=37 WEEKS	4 (1.8)	3 (1.4)	7 (1.6)	
	Spontaneous_>37 WEEKS	85 (38.5)	92 (41.6)	177 (40.0)	
	Induced_<=37 WEEKS	4 (1.8)	7 (3.2)	11 (2.5)	
	Induced_>37 WEEKS	92 (41.6)	71 (32.1)	163 (36.9)	
	C-section_<=37 WEEKS	6 (2.7)	8 (3.6)	14 (3.2)	
	C-section_>37 WEEKS	28 (12.7)	33 (14.9)	61 (13.8)	
	TOP_Stillbirth_Miscarriage	2 (0.9)	7 (3.2)	9 (2.0)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.6 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* <=37 Weeks (n(%))	Spontaneous_vaginal_deliv	2 (12.5)	3 (14.3)	5 (13.5)
	Spontaneous_LSCS in labour	1 (6.3)	0	1 (2.7)
	Spontaneous_Vaginal breech	1 (6.3)	0	1 (2.7)
	Induced_vaginal_deliv	1 (6.3)	5 (23.8)	6 (16.2)
	Induced_LSCS in labour	1 (6.3)	1 (4.8)	2 (5.4)
	Induced_LSCS pre labour	1 (6.3)	0	1 (2.7)
	Induced_Forceps/ventouse	1 (6.3)	1 (4.8)	2 (5.4)
	C-section_LSCS pre labour	6 (37.5)	8 (38.1)	14 (37.8)
	TOP_Stillbirth_Miscarriage	2 (12.5)	3 (14.3)	5 (13.5)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 B N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.7 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* >37 Weeks (n(%))	Missing	1	1	2
	Spontaneous_vaginal_deliv	64 (31.2)	70 (35.7)	134 (33.4)
	Spontaneous_LSCS in labour	11 (5.4)	9(4.6)	20 (5.0)
	Spontaneous_Forceps/ventouse	9 (4.4)	13 (6.6)	22 (5.5)
	Spontaneous_Vaginal breech	1 (0.5)	0	1 (0.2)
	Induced_vaginal_deliv	57 (27.8)	49 (25.0)	106 (26.4)
	Induced_LSCS in labour	21 (10.2)	15 (7.7)	36 (9.0)
	Induced_LSCS pre labour	6 (2.9)	0	6 (1.5)
	Induced_Forceps/ventouse	8 (3.9)	7 (3.6)	15 (3.7)
	C-section_LSCS pre labour	28 (13.7)	32 (16.3)	60 (15.0)
	TOP_Stillbirth_Miscarriage	0	1 (0.5)	1 (0.2)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.1 Delivery Outcome Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Gestational age (Days)*	Mean	274.7	275.0	274.9	
	Median	277.5	278.0	278.0	
	SD	20.4	18.3	19.3	
	MIN,MAX	130,298	126,297	126,298	
	Q1,Q3	271,286	271,285	271,286	
	n	222	218	440	
	Nmiss	1	8	9	
Baby Gestational age coded (n(%))*	Missing	1	8	9	
	<= 24 WEEKS	2 (0.9)	2 (0.9)	4 (0.9)	
	>24 and <=37 WEEKS	14 (6.3)	19 (8.7)	33 (7.5)	
	>37 WEEKS	206 (92.8)	197 (90.4)	403 (91.6)	

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.1 Delivery Outcome (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Gender (n(%))	NA	2	9	11
	Male	110 (49.8)	109 (50.2)	219 (50.0)
	Female	111 (50.2)	107 (49.3)	218 (49.8)
	Indeterminate	0	1 (0.5)	1 (0.2)
Birth Outcome (n(%))	NA	1	5	6
	Live Birth	218 (98.2)	213 (96.4)	431 (97.3)
	Stillbirth (intrauterine death)	0	2 (0.9)	2 (0.5)
	Miscarriage (<24 weeks)	0	4 (1.8)	4 (0.9)
	Termination of Pregnancy	2 (0.9)	1 (0.5)	3 (0.7)
	Live Birth-followed by neonatal death	2 (0.9)	1 (0.5)	3 (0.7)

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.2 Birth Outcome - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Birth_Out_Ana by AllocatedTreatment						
	Birth_Out_Ana(Birth Outcome categorised for		AllocatedTreatment(Allocated Treatment)				
	analysis)	METFORMIN	PLACEBO	Total			
	NA	5	1				
	Live Birth	214	220	434			
	TOP_Stillbirth_Miscarriage	7	2	9			
	Total	221	222	443			
	Freq	uency Missing =	= 6				
				Lower	U		

			Lower	Upper		
			95%	95%		
			Confidence	Confidence		
		Odds	Limit	Limit		Fisher
	Studied	Ratio	for Odds	for Odds		exact
Parameter(s)	effects	Estimate	Ratio	Ratio	P-value#	P-value#
BirthOut_itt	AllocatedTreatment METFORMIN vs PLACEBO	3.597	0.739	17.504	0.1129	0.1054

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician *Analised using logistic regression (binary logit), probability modeled is Birth_Out_Ana='TOP_Stillbirth_Miscarriage' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 1 1 2 1 birth outcome analysis.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.1 Delivery Outcome - birth weight Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Birth weight (g)	Mean	3449.3	3441.3	3445.4		
	Median	3500.0	3500.0	3500.0		
	SD	689.6	592.6	642.6		
	MIN,MAX	400,4940	120,4900	120,4940		
	Q1,Q3	3120,3850	3080,3780	3090,3836		
	n	221	217	438		
	Nmiss	2	9	11		

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.2 Delivery Outcome - birth weight split by gender Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight Males (g)	Mean	3530.3	3503.8	3517.1
	Median	3575.0	3500.0	3520.0
	SD	687.8	560.1	626.2
	MIN,MAX	400,4940	2230,4900	400,4940
	Q1,Q3	3240,3910	3170,3870	3180,3900
	n	110	109	219
	Nmiss	0	0	0
Birth weight Females(g)	Mean	3369.1	3408.8	3388.6
	Median	3460.0	3510.0	3465.0
	SD	685.1	535.5	615.1
	MIN,MAX	690,4550	1620,4650	690,4650
	Q1,Q3	3020,3740	3050,3700	3048,3730
	n	111	107	218
	Nmiss	0	0	0

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.3 Delivery Outcome - birth weight split by gestation Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight <=24 WEEKS (g)	Mean	400.0	120.0	260.0
	Median	400.0	120.0	260.0
	SD			198.0
	MIN,MAX	400,400	120,120	120,400
	Q1,Q3	400,400	120,120	120,400
	n	1	1	2
	Nmiss	1	1	2
Birth weight >24 and <=37 WEEKS (g)	Mean	2102.4	2776.1	2490.2
	Median	2145.0	2730.0	2600.0
	SD	1126.5	569.2	901.2
	MIN,MAX	690,4800	1620,3740	690,4800
	Q1,Q3	1230,2750	2490,3180	2030,3110
	n	14	19	33
	Nmiss	0	0	0

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.3 Delivery Outcome - birth weight split by gestation (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Birth weight >37 WEEKS (g)	Mean	3555.7	3522.4	3539.4	
	Median	3562.5	3530.0	3550.0	
	SD	499.3	501.4	500.0	
	MIN,MAX	2350,4940	2110,4900	2110,4940	
	Q1,Q3	3235,3860	3160,3840	3190,3860	
	n	206	197	403	
	Nmiss	0	0	0	

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.4 Delivery Outcome - birth weight split by parity Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight parity=0 (g)	Mean	3364.9	3382.7	3374.3
	Median	3374.0	3390.0	3380.0
	SD	630.4	585.2	605.3
	MIN,MAX	690,4718	1620,4900	690,4900
	Q1,Q3	2993,3740	3000,3770	2995,3750
	n	84	94	178
	Nmiss	0	6	6
Birth weight parity=>1 (g)	Mean	3501.1	3486.1	3494.0
	Median	3610.0	3550.0	3575.0
	SD	720.9	596.6	663.8
	MIN,MAX	400,4940	120,4790	120,4940
	Q1,Q3	3240,3900	3180,3800	3190,3860
	n	137	123	260
	Nmiss	2	3	5

Section 4. Secondary Outcome - All Patients 4.1.1.3 Delivery Outcome - Low birth weights Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Birth weight corrected from kg to g (g)	Baby gender	Baby death date	Birth Outcome categorised as per CRF	LabourType	Delivery date	Gestation (days) at delivery	Allocated Treatment	Subject Number
120	NA		Miscarriage (<24 weeks)	Induced	30NOV2013	143	METFORMIN	11880
400	Male	10JAN2014	Termination of Pregnancy	Induced	10JAN2014	152	PLACEBO	21119
690	Female		Live Birth	C-section	12JAN2013	191	PLACEBO	14264
832	Female		Live Birth	C-section	07MAR2013	181	PLACEBO	14270
1120	Male		Live Birth	Spontaneous	04NOV2013	211	PLACEBO	11786
1230	Male	17JUN2013	Live Birth-followed by neonatal death	Spontaneous	13JUN2013	200	PLACEBO	15028
1250	Female		Live Birth	C-section	19FEB2014	218	PLACEBO	12109
1490	Female		Live Birth	C-section	28JUN2013	234	PLACEBO	12059
1620	Female		Live Birth	C-section	03AUG2012	222	METFORMIN	11420
1800	Female		Live Birth	C-section	04JAN2014	219	METFORMIN	11881

Section 4. Secondary Outcome - All Patients 4.1.1.4 Delivery Outcome - births before 24 weeks Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Gestation (days) at delivery	Delivery date	LabourType	Birth Outcome categorised as per CRF	Baby death date	Baby gender
12041	METFORMIN	126	09NOV2012	Induced	Termination of Pregnancy		NA
14186	METFORMIN		31AUG2012	Spontaneous	Miscarriage (<24 weeks)		NA
14302	METFORMIN		08MAR2013	Induced	Miscarriage (<24 weeks)	08MAR2013	Indeterminate
12086	PLACEBO	130	08SEP2013	Induced	Termination of Pregnancy		NA
11880	METFORMIN	143	30NOV2013	Induced	Miscarriage (<24 weeks)		NA
21119	PLACEBO	152	10JAN2014	Induced	Termination of Pregnancy	10JAN2014	Male

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.1 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Method(n(%))	Missing	0	1	1
	Spontaneous vaginal delivery	124 (56.4)	127 (59.6)	251 (58.0)
	LSCS in labour	34 (15.5)	25 (11.7)	59 (13.6)
	LSCS pre labour	42 (19.1)	40 (18.8)	82 (18.9)
	Forceps/ventouse	18 (8.2)	21 (9.9)	39 (9.0)
	Vaginal breech	2 (0.9)	0	2 (0.5)
C-SECTION index pregnancy(n(%))	Missing	0	1	1
	Yes	76 (34.5)	65 (30.5)	141 (32.6)
	No	144 (65.5)	148 (69.5)	292 (67.4)
Primary C-SECTION in index pregancy(n(%))	Missing	0	1	1
	Yes	46 (20.9)	42 (19.7)	88 (20.3)
	No	174 (79.1)	171 (80.3)	345 (79.7)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This is a combination between any c-section on previous pregnancies and current pregnancy c-section

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.2 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Blood Loss (mL)	Mean	496.7	488.5	492.7
	Median	400.0	400.0	400.0
	SD	405.5	455.4	430.4
	MIN,MAX	100,2500	50,5000	50,5000
	Q1,Q3	250,600	300,600	250,600
	n	215	210	425
	Nmiss	5	4	9
Hemorrhage* (n(%))	Missing	5	4	9
	Yes	21 (9.8)	20 (9.5)	41 (9.6)
	No	194 (90.2)	190 (90.5)	384 (90.4)
SAE recorded due to Hemorrhage# (n(%))	Missing	1	1	2
	Yes	10	8	18
	No	10	11	21

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Hemorrhage defined as a blood loss greater than 1000ml #Only summarised for patients with hemorrhage=yes in the item right above

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.3 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Labour Type (n(%))	Missing	1	0	1	
	Spontaneous	89 (40.6)	95 (44.4)	184 (42.5)	
	Induced	96 (43.8)	78 (36.4)	174 (40.2)	
	C-section	34 (15.5)	41 (19.2)	75 (17.3)	
Non Spontaneous Reason* (n(%))	Missing	1	0	1	
	Post dates	24 (18.5)	16 (13.4)	40 (16.1)	
	Pre-eclampsia	3 (2.3)	6 (5.0)	9 (3.6)	
	Abruption	0	1 (0.8)	1 (0.4)	
	Other maternal condition	45 (34.6)	46 (38.7)	91 (36.5)	
	Previous C-section	20 (15.4)	16 (13.4)	36 (14.5)	
	Previous obstetric history (other)	4 (3.1)	2 (1.7)	6 (2.4)	
	Maternal request	10 (7.7)	5 (4.2)	15 (6.0)	
	Suspected fetal compromise	12 (9.2)	13 (10.9)	25 (10.0)	
	Malpresentation	5 (3.8)	8 (6.7)	13 (5.2)	
	Suspected IUGR	3 (2.3)	2(1.7)	5 (2.0)	
	Suspected Macrosomia	4 (3.1)	4 (3.4)	8 (3.2)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *Only recorded for induced and c-section above

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.1 Delivery Details Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Gesta_coded by method* (n(%))	Missing	0	1	1
	Sponta_vaginal_delivery_<=37 WEEKS	3 (1.4)	8 (3.8)	11 (2.5)
	Sponta_vaginal_delivery_>37 WEEKS	121 (55.0)	119 (55.9)	240 (55.4)
	LSCS in labour_<=37 WEEKS	2 (0.9)	1 (0.5)	3 (0.7)
	LSCS in labour_>37 WEEKS	32 (14.5)	24 (11.3)	56 (12.9)
	LSCS pre labour_<=37 WEEKS	7 (3.2)	8 (3.8)	15 (3.5)
	LSCS pre labour_>37 WEEKS	35 (15.9)	32 (15.0)	67 (15.5)
	Forceps/ventouse_<=37 WEEKS	1 (0.5)	1 (0.5)	2 (0.5)
	Forceps/ventouse_>37 WEEKS	17 (7.7)	20 (9.4)	37 (8.5)
	Vaginal breech_<=37 WEEKS	1 (0.5)	0	1 (0.2)
	Vaginal breech_>37 WEEKS	1 (0.5)	0	1 (0.2)
Gesta_coded by labour# (n(%))	Missing	1	0	1
	Spontaneous_<=37 WEEKS	4 (1.8)	3 (1.4)	7 (1.6)
	Spontaneous_>37 WEEKS	85 (38.8)	92 (43.0)	177 (40.9)
	Induced_<=37 WEEKS	4 (1.8)	7 (3.3)	11 (2.5)
	Induced_>37 WEEKS	92 (42.0)	71 (33.2)	163 (37.6)
	C-section_<=37 WEEKS	6 (2.7)	8 (3.7)	14 (3.2)
	C-section_>37 WEEKS	28 (12.8)	33 (15.4)	61 (14.1)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *This variable is a cross between 'Delivery Method' and 'Baby Gestational age coded' #This variable is a cross between 'Labour Type' and 'Baby Gestational age coded'

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.2 Delivery Details (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* <=37 Weeks (n(%))	Spontaneous_vaginal_deliv	2 (14.3)	3 (16.7)	5 (15.6)
	Spontaneous_LSCS in labour	1 (7.1)	0	1 (3.1)
	Spontaneous_Vaginal breech	1 (7.1)	0	1 (3.1)
	Induced_vaginal_deliv	1 (7.1)	5 (27.8)	6 (18.8)
	Induced_LSCS in labour	1 (7.1)	1 (5.6)	2 (6.3)
	Induced_LSCS pre labour	1 (7.1)	0	1 (3.1)
	Induced_Forceps/ventouse	1 (7.1)	1 (5.6)	2 (6.3)
	C-section_LSCS pre labour	6 (42.9)	8 (44.4)	14 (43.8)
Labour by method* >37 Weeks (n(%))	Missing	1	1	2
	Spontaneous_vaginal_deliv	64 (31.2)	70 (35.9)	134 (33.5)
	Spontaneous_LSCS in labour	11 (5.4)	9 (4.6)	20 (5.0)
	Spontaneous_Forceps/ventouse	9(4.4)	13 (6.7)	22 (5.5)
	Spontaneous_Vaginal breech	1 (0.5)	0	1 (0.3)
	Induced_vaginal_deliv	57 (27.8)	49 (25.1)	106 (26.5)
	Induced_LSCS in labour	21 (10.2)	15 (7.7)	36 (9.0)
	Induced_LSCS pre labour	6 (2.9)	0	6 (1.5)
	Induced_Forceps/ventouse	8 (3.9)	7 (3.6)	15 (3.8)
	C-section_LSCS pre labour	28 (13.7)	32 (16.4)	60 (15.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 B N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.3 Delivery Details - Preterm Birth - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of GESTA	_2CODE by Alloc	catedTreatment				
	GESTA 2CODE(Gestation		Treatment(Allocat Treatment)	ted			
	Code 2)	METFORMIN	PLACEBO	Total			
	>24 and <=37 WEEKS	18	14	32			
	>37 WEEKS	196	206	402			
	Total	214	220	434			
Parameter(s,) Studie) effect		Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
PRETERM_i	tt AllocatedTreatment METF	ORMIN vs PLACE	EBO 1.345	0.651	2.777	0.4235	0.4658

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.1.1 Delivery Outcome Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth Outcome (n(%))	Live Birth	218 (99.1)	213 (99.5)	431 (99.3)
	Live Birth-followed by neonatal death	2 (0.9)	1 (0.5)	3 (0.7)
Baby Gender (n(%))	Male	109 (49.5)	109 (50.9)	218 (50.2)
	Female	111 (50.5)	105 (49.1)	216 (49.8)

Section 4. Secondary Outcome - Only Alive Births

4.1.2.2.1.2 Delivery Outcome - Birth Outcome-Neonatal Death after delivery - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of BirthOutcome by AllocatedTreatment					
	AllocatedTreatment(Allocated Treatment)			1		
	BirthOutcome(Birth Outcome categorised as per CRF)	METFO	ORMIN PL	ACEBO	Total	
	Live Birth		213	218	431	
	Live Birth-followed by neonatal death		1	2	3	
	Total		214	220	434	
			Lower 95% Confidence	Upper 95% Confidence		
		Odds	Limit	Limit		Fisher
Parameter	(s) Studied	Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
NEO_DEAT	H_itt AllocatedTreatment METFORMIN vs PLACEBO	0.512	0.046	5.686	0.5855	1.0000

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Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.1.3 Delivery Outcome(Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Baby Gestational age (Days)*	Mean	275.9	276.6	276.3
	Median	278.0	278.0	278.0
	SD	15.9	11.7	14.0
	MIN,MAX	181,298	219,297	181,298
	Q1,Q3	271,286	271,285	271,286
	n	220	214	434
	Nmiss	0	0	0
Baby Gestational age coded (n(%))*	>24 and <=37 WEEKS	14 (6.4)	18 (8.4)	32 (7.4)
	>37 WEEKS	206 (93.6)	196 (91.6)	402 (92.6)

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Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.1 Delivery Outcome - birth weight Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall	
Birth weight (g)	Mean	3463.2	3461.8	3462.5	
	Median	3505.0	3510.0	3510.0	
	SD	659.6	548.1	606.5	
	MIN,MAX	690,4940	1620,4900	690,4940	
	Q1,Q3	3130,3855	3090,3800	3110,3840	
	n	220	214	434	
	Nmiss	0	0	0	

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.2 Delivery Outcome - birth weight split by gender Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight Males (g)	Mean	3559.0	3503.8	3531.4
	Median	3580.0	3500.0	3525.0
	SD	621.2	560.1	590.7
	MIN,MAX	1120,4940	2230,4900	1120,4940
	Q1,Q3	3260,3910	3170,3870	3190,3900
	n	109	109	218
	Nmiss	0	0	0
Birth weight Females(g)	Mean	3369.1	3418.3	3393.0
	Median	3460.0	3520.0	3470.0
	SD	685.1	534.5	615.6
	MIN,MAX	690,4550	1620,4650	690,4650
	Q1,Q3	3020,3740	3080,3700	3049,3730
	n	111	105	216
	Nmiss	0	0	0

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.3 Delivery Outcome - birth weight split by gestation Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight >24 and <=37 WEEKS (g)	Mean	2102.4	2751.9	2467.8
	Median	2145.0	2685.0	2590.0
	SD	1126.5	575.7	906.1
	MIN,MAX	690,4800	1620,3740	690,4800
	Q1,Q3	1230,2750	2490,3170	1915,3053
	n	14	18	32
	Nmiss	0	0	0
Birth weight >37 WEEKS (g)	Mean	3555.7	3527.0	3541.7
	Median	3562.5	3535.0	3550.0
	SD	499.3	498.4	498.4
	MIN,MAX	2350,4940	2110,4900	2110,4940
	Q1,Q3	3235,3860	3170,3845	3200,3860
	n	206	196	402
	Nmiss	0	0	0

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.4 Delivery Outcome - birth weight split by parity Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Birth weight parity=0 (g)	Mean	3364.9	3391.0	3378.6		
	Median	3374.0	3400.0	3380.0		
	SD	630.4	582.8	604.2		
	MIN,MAX	690,4718	1620,4900	690,4900		
	Q1,Q3	2993,3740	3000,3770	3000,3750		
	n	84	93	177		
	Nmiss	0	0	0		
Birth weight parity=>1 (g)	Mean	3523.9	3516.2	3520.3		
	Median	3615.0	3560.0	3580.0		
	SD	672.1	515.7	602.4		
	MIN,MAX	832,4940	2110,4790	832,4940		
	Q1,Q3	3240,3903	3180,3800	3200,3860		
	n	136	121	257		
	Nmiss	0	0	0		

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Section 4. Secondary Outcome - Only Alive Births 4.1.2.3 Delivery Outcome - Low birth weights Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Birth weight corrected from kg to g (g)	Baby gender	Baby death date	Birth Outcome categorised as per CRF	LabourType	Delivery date	Gestation (days) at delivery	Allocated Treatment	Subject Number
690	Female		Live Birth	C-section	12JAN2013	191	PLACEBO	14264
832	Female		Live Birth	C-section	07MAR2013	181	PLACEBO	14270
1120	Male		Live Birth	Spontaneous	04NOV2013	211	PLACEBO	11786
1230	Male	17JUN2013	Live Birth-followed by neonatal death	Spontaneous	13JUN2013	200	PLACEBO	15028
1250	Female		Live Birth	C-section	19FEB2014	218	PLACEBO	12109
1490	Female		Live Birth	C-section	28JUN2013	234	PLACEBO	12059
1620	Female		Live Birth	C-section	03AUG2012	222	METFORMIN	11420
1800	Female		Live Birth	C-section	04JAN2014	219	METFORMIN	11881

Section 4. Outcomes - Only Alive Births 4.2.1.1 PRIMARY EFFICACY: Birth weight centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo	Metformin	Overall				
Birth weight centile	Mean	57.271	56.870	57.073				
	Median	57.659	62.943	58.986				
	SD	27.862	28.587	28.190				
	MIN,MAX	0.11,99.95	0.03,99.83	0.03,99.95				
	Q1,Q3	35.35,80.17	33.41,81.96	34.53,81.86				
	n	220	214	434				
	Nmiss	0	0	0				

Section 4. Outcomes - Only Alive Births 4.2.1.2 PRIMARY EFFICACY: Birth weight centile split by gender Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile Males	Mean	57.219	55.116	56.168
	Median	58.710	56.130	57.613
	SD	28.993	29.452	29.175
	MIN,MAX	1.27,99.95	1.94,99.76	1.27,99.95
	Q1,Q3	34.15,81.92	33.26,82.48	33.26,82.48
	n	109	109	218
	Nmiss	0	0	0
Birth weight centile Females	Mean	57.323	58.690	57.987
	Median	56.465	64.308	60.840
	SD	26.837	27.684	27.197
	MIN,MAX	0.11,99.34	0.03,99.83	0.03,99.83
	Q1,Q3	35.35,79.87	38.37,81.86	36.11,81.06
	n	111	105	216
	Nmiss	0	0	0

Section 4. Outcomes - Only Alive Births 4.2.1.3 PRIMARY EFFICACY: Birth weight centile split by gestation Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile >24 and <=37 WEEKS	Mean	45.277	61.655	54.490
	Median	47.213	65.106	59.095
	SD	28.994	27.900	29.113
	MIN,MAX	11.51,99.95	20.03,97.59	11.51,99.95
	Q1,Q3	14.96,67.66	33.26,86.71	27.60,78.90
	n	14	18	32
	Nmiss	0	0	0
Birth weight centile >37 WEEKS (g)	Mean	58.086	56.430	57.279
	Median	57.932	62.943	58.986
	SD	27.668	28.679	28.142
	MIN,MAX	0.11,99.89	0.03,99.83	0.03,99.89
	Q1,Q3	35.73,82.48	33.53,81.91	35.24,81.96
	n	206	196	402
	Nmiss	0	0	0

Section 4. Outcomes - Only Alive Births 4.2.1.4 PRIMARY EFFICACY: Birth weight centile split by parity Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Birth weight centile parity=0 (g)	Mean	54.271	54.718	54.506		
	Median	50.234	54.451	50.563		
	SD	28.134	29.603	28.834		
	MIN,MAX	1.27,98.99	3.91,99.83	1.27,99.83		
	Q1,Q3	32.12,79.21	30.99,81.26	31.64,80.87		
	n	84	93	177		
	Nmiss	0	0	0		
Birth weight centile parity=>1 (g)	Mean	59.124	58.524	58.841		
	Median	60.547	64.228	62.996		
	SD	27.634	27.791	27.655		
	MIN,MAX	0.11,99.95	0.03,99.70	0.03,99.95		
	Q1,Q3	38.88,81.20	38.37,82.77	38.44,81.96		
	n	136	121	257		
	Nmiss	0	0	0		

Section 4. Outcomes - Only Alive Births 4.2.2.1.1 PRIMARY EFFICACY: Birth weight centile categorised Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile (n(%))	<=3rd	3 (1.4)	3 (1.4)	6 (1.4)
	>3rd and <=5th	4 (1.8)	3 (1.4)	7 (1.6)
	>5th and <=10th	4 (1.8)	8 (3.7)	12 (2.8)
	>10th and <=90th	171 (77.7)	169 (79.0)	340 (78.3)
	>90th and <=95th	16 (7.3)	14 (6.5)	30 (6.9)
	>95th and <=97th	7 (3.2)	5 (2.3)	12 (2.8)
	>97th	15 (6.8)	12 (5.6)	27 (6.2)

Section 4. Secondary Outcome - Only Alive Births 4.2.2.1.2 PRIMARY EFFICACY: Birth weight centile categorised - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of	f centile_03b by	AllocatedTre	atment					
			reatment(Allo Treatment)	ocated					
	centile_03b	METFORMIN	PLACEBO	Tota	1				
	No	211	217	428	3				
	Yes	3	3	(6				
	Total	214	220	434	1				
Parameter(s,)	Studie			Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
centile_03b_i	tt AllocatedT	reatment METF	ORMIN vs PL	ACEBO	1.028	0.205	5.152	0.9728	1.0000

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Section 4. Secondary Outcome - Only Alive Births 4.2.2.1.3 PRIMARY EFFICACY: Birth weight centile categorised - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of	centile_10b by	AllocatedTre	eatment	_				
			reatment(Allo Freatment)	ocated					
	centile_10b	METFORMIN	PLACEBO	Total					
	No	200	209	409					
	Yes	14	11	25					
	Total	214	220	434	_				
Parameter(s,)	Studie effect			Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
centile_10b_i	itt AllocatedT	reatment METF	ORMIN vs PL	ACEBO	1.330	0.590	2.999	0.4918	0.5408

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is centile_10b='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 2 2 1 weight centile.lst' By: Aryelly Rodriguez - ECTU Statistician

Section 4. Outcomes - Only Alive Births 4.2.2.2 PRIMARY EFFICACY: Birth weight centile categorised split by gender Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile Males(n(%))	<=3rd	2 (1.8)	2 (1.8)	4 (1.8)
	>3rd and <=5th	2 (1.8)	3 (2.8)	5 (2.3)
	>5th and <=10th	3 (2.8)	4 (3.7)	7 (3.2)
	>10th and <=90th	81 (74.3)	86 (78.9)	167 (76.6)
	>90th and <=95th	8 (7.3)	6 (5.5)	14 (6.4)
	>95th and <=97th	5 (4.6)	4 (3.7)	9(4.1)
	>97th	8 (7.3)	4 (3.7)	12 (5.5)
Split Birth weight Centile Females(n(%))	<=3rd	1 (0.9)	1 (1.0)	2 (0.9)
	>3rd and <=5th	2 (1.8)	0	2(0.9)
	>5th and <=10th	1 (0.9)	4 (3.8)	5 (2.3)
	>10th and <=90th	90 (81.1)	83 (79.0)	173 (80.1)
	>90th and <=95th	8 (7.2)	8 (7.6)	16 (7.4)
	>95th and <=97th	2 (1.8)	1 (1.0)	3 (1.4)
	>97th	7 (6.3)	8 (7.6)	15 (6.9)

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Section 4. Outcomes - Only Alive Births 4.2.2.3 PRIMARY EFFICACY: Birth weight centile categorised split by gestation Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile >24 and <=37 WEEKS(n(%))	>10th and <=90th	13 (92.9)	14 (77.8)	27 (84.4)
	>90th and <=95th	0	1 (5.6)	1 (3.1)
	>95th and <=97th	0	1 (5.6)	1 (3.1)
	>97th	1 (7.1)	2 (11.1)	3 (9.4)
Split Birth weight Centile >37 WEEKS(n(%))	<=3rd	3 (1.5)	3 (1.5)	6 (1.5)
	>3rd and <=5th	4 (1.9)	3 (1.5)	7 (1.7)
	>5th and <=10th	4 (1.9)	8(4.1)	12 (3.0)
	>10th and <=90th	158 (76.7)	155 (79.1)	313 (77.9)
	>90th and <=95th	16 (7.8)	13 (6.6)	29 (7.2)
	>95th and <=97th	7 (3.4)	4 (2.0)	11 (2.7)
	>97th	14 (6.8)	10 (5.1)	24 (6.0)

Section 4. Outcomes - Only Alive Births 4.2.2.4 PRIMARY EFFICACY: Birth weight centile categorised split by parity Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile parity=0 (n(%))	<=3rd	1 (1.2)	0	1 (0.6)
	>3rd and <=5th	2 (2.4)	3 (3.2)	5 (2.8)
	>5th and <=10th	1 (1.2)	5 (5.4)	6(3.4)
	>10th and <=90th	67 (79.8)	72 (77.4)	139 (78.5)
	>90th and <=95th	5 (6.0)	7 (7.5)	12 (6.8)
	>95th and <=97th	4 (4.8)	1 (1.1)	5 (2.8)
	>97th	4 (4.8)	5 (5.4)	9 (5.1)
Split Birth weight Centile parity=>1 (n(%))	<=3rd	2 (1.5)	3 (2.5)	5 (1.9)
	>3rd and <=5th	2 (1.5)	0	2 (0.8)
	>5th and <=10th	3 (2.2)	3 (2.5)	6 (2.3)
	>10th and <=90th	104 (76.5)	97 (80.2)	201 (78.2)
	>90th and <=95th	11 (8.1)	7 (5.8)	18 (7.0)
	>95th and <=97th	3 (2.2)	4 (3.3)	7 (2.7)
	>97th	11 (8.1)	7 (5.8)	18 (7.0)

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Section 4. Outcomes - Only Alive Births 4.3.1 PRIMARY EFFICACY: Calculated Z score Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Z-score for birth weight centile	Mean	0.2680	0.2464	0.2573				
	Median	0.1932	0.3304	0.2272				
	SD	1.0055	1.0179	1.0105				
	MIN,MAX	-3.071,3.299	-3.428,2.929	-3.428,3.299				
	Q1,Q3	-0.376,0.848	-0.429,0.914	-0.398,0.910				
	n	220	214	434				
	Nmiss	0	0	0				

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Section 4. Outcomes - Only Alive Births 4.3.2 PRIMARY EFFICACY: Calculated Z score - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	icebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
z-score - itt	0.358	0.1267	220	0.329	0.1231	214	-0.029	-0.217	0.158	0.094	0.7597

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 4.3.1 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means for the z score by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_4_3_2_primary_outcome_z_analysis.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.1 Fasted Glucose - Visit 3 Randomisation (12-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
GTT - V3 - base (mmol/L)	Mean	4.39	4.41	4.40
	Median	4.40	4.40	4.40
	SD	0.34	0.40	0.37
	MIN,MAX	3.5,5.6	3.1,5.6	3.1,5.6
	Q1,Q3	4.2,4.6	4.1,4.7	4.1,4.6
	n	223	226	449
	Nmiss	0	0	0
GTT - V3 - 2 hr (mmol/L)	Mean	5.50	5.20	5.35
	Median	5.40	5.20	5.30
	SD	1.09	1.08	1.10
	MIN,MAX	2.4,7.8	1.7,7.7	1.7,7.8
	Q1,Q3	4.8,6.3	4.6,6.0	4.7,6.1
	n	223	226	449
	Nmiss	0	0	0

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By: Aryelly Rodriguez - ECTU Statistician

*If baseline (fasting) sample >5.5 mmol/L or 2 hr sample >7.8 mmol then the subject is not eligible to continue in the study

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.2 Fasted Glucose - Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
GTT - V5 - base (mmol/L)	Mean	4.49	4.38	4.44			
	Median	4.40	4.40	4.40			
	SD	0.47	0.41	0.44			
	MIN,MAX	2.9,5.6	3.4,6.0	2.9,6.0			
	Q1,Q3	4.2,4.8	4.1,4.7	4.1,4.7			
	n	184	175	359			
	Nmiss	39	51	90			
GTT - V5 - 2 hr (mmol/L)	Mean	5.85	5.58	5.72			
	Median	5.80	5.50	5.60			
	SD	1.20	1.32	1.27			
	MIN,MAX	2.4,8.9	3.0,12.3	2.4,12.3			
	Q1,Q3	5.0,6.7	4.8,6.0	4.9,6.4			
	n	184	174	358			
	Nmiss	39	52	91			

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Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.3 Fasted Glucose - Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
GTT - V6 - base (mmol/L)	Mean	4.42	4.35	4.39			
	Median	4.30	4.30	4.30			
	SD	0.48	0.45	0.47			
	MIN,MAX	2.7,5.8	3.4,5.9	2.7,5.9			
	Q1,Q3	4.0,4.7	4.0,4.6	4.0,4.7			
	n	151	143	294			
	Nmiss	72	83	155			
GTT - V6 - 2 hr (mmol/L)	Mean	5.96	5.70	5.83			
	Median	5.70	5.70	5.70			
	SD	1.46	1.32	1.40			
	MIN,MAX	3.0,10.3	2.7,9.1	2.7,10.3			
	Q1,Q3	4.9,6.9	4.8,6.4	4.9,6.7			
	n	148	142	290			
	Nmiss	75	84	159			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.4.1 Fasted Glucose - Visit 6 (36 Weeks) - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	icebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower Cl*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Glucose_V6_Baseline - itt	4.420	0.0660	151	4.360	0.0624	143	-0.060	-0.163	0.043	1.330	0.2498
Glucose_V6_Two_Hour - itt	6.083	0.2001	148	5.832	0.1890	142	-0.251	-0.565	0.062	2.487	0.1159

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Ar Summary statistics are presented in table 5.1.3 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means for the glucose in blood by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_1_4_glucose_outcome_analysis.lst' Parameters shown normal or pear-normal behavior

By: Aryelly Rodriguez - ECTU Statistician

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.4.2 Fasted Glucose - Visit 5 (28 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Placebo			Metformin							
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Glucose_V5_Baseline - itt	4.468	0.0599	184	4.363	0.0570	175	-0.105	-0.193	-0.016	5.383	0.0209
Glucose_V5_Two_Hour - itt	5.787	0.1716	184	5.537	0.1633	174	-0.250	-0.504	0.005	3.724	0.0545

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Arye Summary statistics are presented in table 5.1.2 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means for the glucose in blood by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_1_4_glucose_outcome_analysis_v5.lst' Parameters shown normal or near-normal behavior

By: Aryelly Rodriguez - ECTU Statistician

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
Yes C-section - GTT - V5 - base (mmol/L)	Mean	4.56	4.46	4.51			
	Median	4.55	4.40	4.50			
	SD	0.51	0.44	0.48			
	MIN,MAX	3.6,5.6	3.5,6.0	3.5,6.0			
	Q1,Q3	4.2,5.0	4.2,4.8	4.2,4.8			
	n	64	52	116			
	Nmiss	6	9	15			
Yes C-section - GTT - V5 - 2 hr (mmol/L)	Mean	6.10	5.86	5.99			
	Median	6.00	5.60	5.85			
	SD	1.44	1.41	1.42			
	MIN,MAX	2.4,8.9	4.2,12.3	2.4,12.3			
	Q1,Q3	5.2,7.4	5.1,6.3	5.1,7.0			
	n	64	52	116			
	Nmiss	6	9	15			

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.1 Fasted Glucose - Visit 5 (28 Weeks) split by C-section Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
No C-section - GTT - V5 - base (mmol/L)	Mean	4.45	4.35	4.40
	Median	4.40	4.30	4.40
	SD	0.44	0.40	0.42
	MIN,MAX	2.9,5.6	3.4,5.6	2.9,5.6
	Q1,Q3	4.2,4.7	4.1,4.6	4.1,4.7
	n	120	122	242
	Nmiss	21	21	42
No C-section - GTT - V5 - 2 hr (mmol/L)	Mean	5.71	5.47	5.59
	Median	5.70	5.50	5.60
	SD	1.03	1.27	1.16
	MIN,MAX	3.0,8.7	3.0,10.0	3.0,10.0
	Q1,Q3	4.9,6.4	4.6,6.0	4.9,6.3
	n	120	121	241
	Nmiss	21	22	43

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

	-	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall				
Yes C-section - GTT - V6 - base (mmol/L)	Mean	4.43	4.39	4.41				
	Median	4.50	4.30	4.30				
	SD	0.50	0.47	0.49				
	MIN,MAX	2.7,5.6	3.6,5.5	2.7,5.6				
	Q1,Q3	4.1,4.8	4.0,4.7	4.0,4.7				
	n	52	43	95				
	Nmiss	17	16	33				
Yes C-section - GTT - V6 - 2 hr (mmol/L	Mean	6.18	5.79	6.00				
	Median	6.10	5.80	6.00				
	SD	1.58	1.20	1.43				
	MIN,MAX	3.0,10.3	2.7,8.5	2.7,10.3				
	Q1,Q3	4.9,7.4	5.0,6.6	5.0,6.9				
	n	52	43	95				
	Nmiss	17	16	33				

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.2 Fasted Glucose - Visit 6 (36 Weeks) split by C-section Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
No C-section - GTT - V6 - base (mmol/L)	Mean	4.41	4.34	4.37
	Median	4.30	4.30	4.30
	SD	0.47	0.45	0.46
	MIN,MAX	3.4,5.8	3.4,5.9	3.4,5.9
	Q1,Q3	4.0,4.7	4.0,4.6	4.0,4.6
	n	99	100	199
	Nmiss	40	40	80
No C-section - GTT - V6 - 2 hr (mmol/L)	Mean	5.84	5.65	5.75
	Median	5.55	5.40	5.50
	SD	1.38	1.38	1.38
	MIN,MAX	3.5,9.8	3.2,9.1	3.2,9.8
	Q1,Q3	4.9,6.8	4.7,6.3	4.8,6.5
	n	96	99	195
	Nmiss	43	41	84

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_GTT_V5_base (mmol/L)	Mean	4.03	4.13	4.08
	Median	4.00	4.20	4.10
	SD	0.25	0.12	0.18
	MIN,MAX	3.8,4.3	4.0,4.2	3.8,4.3
	Q1,Q3	3.8,4.3	4.0,4.2	4.0,4.2
	n	3	3	6
	Nmiss	0	0	0
3%<=_GTT_V5_2 hr (mmol/L)	Mean	4.60	6.13	5.37
	Median	4.80	5.70	4.95
	SD	0.35	1.31	1.20
	MIN,MAX	4.2,4.8	5.1,7.6	4.2,7.6
	Q1,Q3	4.2,4.8	5.1,7.6	4.8,5.7
	n	3	3	6
	Nmiss	0	0	0

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
5%<=_GTT_V5_base (mmol/L)	Mean	4.04	4.08	4.06
	Median	4.00	4.15	4.10
	SD	0.18	0.27	0.22
	MIN,MAX	3.8,4.3	3.6,4.4	3.6,4.4
	Q1,Q3	4.0,4.1	4.0,4.2	4.0,4.2
	n	5	6	11
	Nmiss	1	0	1
5%<=_GTT_V5_2 hr (mmol/L)	Mean	4.24	5.18	4.75
	Median	4.80	5.40	4.80
	SD	1.07	1.63	1.43
	MIN,MAX	2.4,5.0	3.0,7.6	2.4,7.6
	Q1,Q3	4.2,4.8	3.8,5.9	3.8,5.7
	n	5	6	11
	Nmiss	1	0	1

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_GTT_V5_base (mmol/L)	Mean	4.30	4.22	4.25
	Median	4.20	4.20	4.20
	SD	0.42	0.30	0.34
	MIN,MAX	3.8,5.0	3.6,4.7	3.6,5.0
	Q1,Q3	4.0,4.6	4.0,4.4	4.0,4.4
	n	8	11	19
	Nmiss	2	2	4
10%<=_GTT_V5_2 hr (mmol/L)	Mean	4.60	4.91	4.78
	Median	4.80	5.10	4.80
	SD	1.09	1.37	1.23
	MIN,MAX	2.4,6.2	3.0,7.6	2.4,7.6
	Q1,Q3	4.2,5.1	3.7,5.9	3.8,5.7
	n	8	11	19
	Nmiss	2	2	4

-	Allocated_lr	ntervention	
Categories	Placebo	Metformin	Overall
Mean	4.47	4.37	4.42
Median	4.40	4.35	4.40
SD	0.46	0.41	0.44
MIN,MAX	2.9,5.5	3.4,6.0	2.9,6.0
Q1,Q3	4.2,4.8	4.1,4.6	4.2,4.7
n	142	134	276
Nmiss	21	25	46
Mean	5.85	5.61	5.73
Median	5.85	5.50	5.70
SD	1.20	1.30	1.25
MIN,MAX	3.0,8.9	3.1,12.3	3.0,12.3
Q1,Q3	4.9,6.7	4.9,6.1	4.9,6.5
n	142	133	275
Nmiss	21	26	47
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 4.47 Median 4.40 SD 0.46 MIN,MAX 2.9,5.5 Q1,Q3 4.2,4.8 n 142 Nmiss 21 Mean 5.85 Median 5.85 SD 1.20 MIN,MAX 3.0,8.9 Q1,Q3 4.9,6.7 n 142	Categories Placebo Metformin Mean 4.47 4.37 Median 4.40 4.35 SD 0.46 0.41 MIN,MAX 2.9,5.5 3.4,6.0 Q1,Q3 4.2,4.8 4.1,4.6 n 142 134 Nmiss 21 25 Mean 5.85 5.61 Median 5.85 5.50 SD 1.20 1.30 MIN,MAX 3.0,8.9 3.1,12.3 Q1,Q3 4.9,6.7 4.9,6.1 n 142 133

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_GTT_V5_base (mmol/L)	Mean	4.60	4.51	4.56
	Median	4.60	4.40	4.60
	SD	0.50	0.43	0.47
	MIN,MAX	3.7,5.6	3.7,5.6	3.7,5.6
	Q1,Q3	4.3,4.9	4.3,4.7	4.3,4.8
	n	34	29	63
	Nmiss	2	2	4
90%>_GTT_V5_2 hr (mmol/L)	Mean	6.14	5.75	5.96
	Median	5.90	5.40	5.70
	SD	1.08	1.36	1.22
	MIN,MAX	4.4,8.3	3.6,9.8	3.6,9.8
	Q1,Q3	5.3,7.1	5.0,6.0	5.1,6.5
	n	34	29	63
	Nmiss	2	2	4

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
95%>_GTT_V5_base (mmol/L)	Mean	4.71	4.50	4.61
	Median	4.60	4.45	4.60
	SD	0.51	0.37	0.45
	MIN,MAX	4.0,5.6	4.0,5.5	4.0,5.6
	Q1,Q3	4.3,5.2	4.3,4.7	4.3,4.8
	n	19	16	35
	Nmiss	1	2	3
95%>_GTT_V5_2 hr (mmol/L)	Mean	6.11	5.75	5.95
	Median	5.90	5.35	5.90
	SD	1.03	1.51	1.27
	MIN,MAX	4.4,8.3	3.6,9.8	3.6,9.8
	Q1,Q3	5.3,7.0	5.0,6.1	5.2,6.4
	n	19	16	35
	Nmiss	1	2	3

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_GTT_V5_base (mmol/L)	Mean	4.78	4.49	4.64
	Median	4.70	4.30	4.60
	SD	0.45	0.43	0.46
	MIN,MAX	4.1,5.6	4.0,5.5	4.0,5.6
	Q1,Q3	4.5,5.2	4.2,4.7	4.3,4.9
	n	12	11	23
	Nmiss	1	2	3
97%>_GTT_V5_2 hr (mmol/L)	Mean	5.88	5.78	5.83
	Median	5.80	5.90	5.90
	SD	0.82	1.58	1.21
	MIN,MAX	4.8,7.5	3.6,9.8	3.6,9.8
	Q1,Q3	5.3,6.4	5.0,6.1	5.2,6.3
	n	12	11	23
	Nmiss	1	2	3

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_GTT_V6_base (mmol/L)	Mean	3.90	•	3.90
	Median	3.50		3.50
	SD	0.78		0.78
	MIN,MAX	3.4,4.8	-,-	3.4,4.8
	Q1,Q3	3.4,4.8	-,-	3.4,4.8
	n	3	0	3
	Nmiss	0	3	3
3%<=_GTT_V6_2 hr (mmol/L)	Mean	5.17		5.17
	Median	4.50		4.50
	SD	1.99		1.99
	MIN,MAX	3.6,7.4	-,-	3.6,7.4
	Q1,Q3	3.6,7.4	-,-	3.6,7.4
	n	3	0	3
	Nmiss	0	3	3

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
5%<=_GTT_V6_base (mmol/L)	Mean	3.90	3.90	3.90
	Median	3.90	3.90	3.90
	SD	0.55	0.30	0.45
	MIN,MAX	3.4,4.8	3.6,4.2	3.4,4.8
	Q1,Q3	3.5,3.9	3.6,4.2	3.6,4.1
	n	5	3	8
	Nmiss	1	3	4
5%<=_GTT_V6_2 hr (mmol/L)	Mean	4.80	4.90	4.84
	Median	4.50	4.60	4.55
	SD	1.73	1.18	1.45
	MIN,MAX	3.0,7.4	3.9,6.2	3.0,7.4
	Q1,Q3	3.6,5.5	3.9,6.2	3.8,5.9
	n	5	3	8
	Nmiss	1	3	4

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.4 Fasted Glucose - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_GTT_V6_base (mmol/L)	Mean	4.14	4.41	4.28
	Median	4.10	4.50	4.35
	SD	0.54	0.49	0.52
	MIN,MAX	3.4,4.8	3.6,5.1	3.4,5.1
	Q1,Q3	3.7,4.7	4.1,4.8	3.9,4.7
	n	8	8	16
	Nmiss	2	5	7
10%<=_GTT_V6_2 hr (mmol/L)	Mean	5.45	5.26	5.36
	Median	5.65	5.55	5.65
	SD	1.71	1.48	1.55
	MIN,MAX	3.0,7.9	2.7,7.3	2.7,7.9
	Q1,Q3	4.1,6.7	4.3,6.3	4.2,6.3
	n	8	8	16
	Nmiss	2	5	7

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		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%> AND 90%<=_GTT_V6_base (mmol/L)	Mean	4.39	4.33	4.36
	Median	4.30	4.20	4.30
	SD	0.46	0.45	0.46
	MIN,MAX	2.7,5.8	3.4,5.9	2.7,5.9
	Q1,Q3	4.0,4.7	4.0,4.6	4.0,4.6
	n	116	111	227
	Nmiss	44	45	89
10%> AND 90%<=_GTT_V6_2 hr (mmol/L)	Mean	5.83	5.73	5.78
	Median	5.70	5.70	5.70
	SD	1.38	1.38	1.38
	MIN,MAX	3.2,9.5	3.2,9.1	3.2,9.5
	Q1,Q3	4.7,6.8	4.7,6.5	4.7,6.6
	n	113	111	224
	Nmiss	47	45	92

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.4 Fasted Glucose - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_GTT_V6_base (mmol/L)	Mean	4.63	4.45	4.55
	Median	4.60	4.35	4.40
	SD	0.49	0.46	0.48
	MIN,MAX	3.8,5.6	3.9,5.5	3.8,5.6
	Q1,Q3	4.3,5.0	4.1,4.6	4.2,4.8
	n	27	24	51
	Nmiss	9	5	14
90%>_GTT_V6_2 hr (mmol/L)	Mean	6.67	5.70	6.22
	Median	6.50	5.70	5.90
	SD	1.55	0.98	1.39
	MIN,MAX	3.9,10.3	3.6,8.3	3.6,10.3
	Q1,Q3	5.5,7.5	5.0,6.2	5.2,7.2
	n	27	23	50
	Nmiss	9	6	15

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.4 Fasted Glucose - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
95%>_GTT_V6_base (mmol/L)	Mean	4.79	4.28	4.54
	Median	4.70	4.30	4.40
	SD	0.49	0.31	0.48
	MIN,MAX	4.0,5.6	3.9,5.1	3.9,5.6
	Q1,Q3	4.4,5.1	4.0,4.4	4.2,4.8
	n	14	13	27
	Nmiss	6	3	9
95%>_GTT_V6_2 hr (mmol/L)	Mean	6.52	5.63	6.11
	Median	6.30	5.55	5.85
	SD	1.52	0.82	1.30
	MIN,MAX	3.9,9.8	4.5,7.2	3.9,9.8
	Q1,Q3	5.5,7.5	5.0,6.0	5.1,7.2
	n	14	12	26
	Nmiss	6	4	10

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.4 Fasted Glucose - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_GTT_V6_base (mmol/L)	Mean	4.93	4.28	4.58
	Median	4.85	4.30	4.40
	SD	0.40	0.35	0.49
	MIN,MAX	4.4,5.6	3.9,5.1	3.9,5.6
	Q1,Q3	4.7,5.2	4.0,4.3	4.3,5.0
	n	8	9	17
	Nmiss	5	2	7
97%>_GTT_V6_2 hr (mmol/L)	Mean	6.90	5.60	6.25
	Median	6.65	5.15	5.70
	SD	1.63	0.98	1.46
	MIN,MAX	5.2,9.8	4.5,7.2	4.5,9.8
	Q1,Q3	5.6,7.9	5.0,6.4	5.1,7.4
	n	8	8	16
	Nmiss	5	3	8

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.1 Gestational diabetes mellitus (GDM) - OGTT Test* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
GDM WHO CRITERIA*# (n(%))	Missing	73	83	156
	No	124 (82.7)	124 (86.7)	248 (84.6)
	Yes	26 (17.3)	19 (13.3)	45 (15.4)
GDM WHO CRITERIA CODED# (n(%))	Missing	73	83	156
	GDM first at visit 5 (28 weeks)	12 (8.0)	10 (7.0)	22 (7.5)
	GDM first at visit 6 (36 weeks)	14 (9.3)	9 (6.3)	23 (7.8)
	NO GDM	124 (82.7)	124 (86.7)	248 (84.6)
GDM IADPSG CRITERIA*\$ (n(%))	Missing	70	84	154
	No	117 (76.5)	116 (81.7)	233 (79.0)
	Yes	36 (23.5)	26 (18.3)	62 (21.0)
GDM IADPSG CRITERIA CODED\$ (n(%))	Missing	70	84	154
	GDM first at visit 5 (28 weeks)	26 (17.0)	11 (7.7)	37 (12.5)
	GDM first at visit 6 (36 weeks)	10 (6.5)	15 (10.6)	25 (8.5)
	NO GDM	117 (76.5)	116 (81.7)	233 (79.0)

By: Aryelly Rodriguez - ECTU Statistician

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Once GDM is present in visit 5 then it will stay present in visit 6 #WHO criteria: Fasting glucose >= 7.0 mmol/l or 2hr glucose >=7.8 mmol/l

\$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Frequency

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.2 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

GDM_IAD(GDM calculated using IADPSG criteria		reatment(Alloca Treatment)	ated
(Y/N))	METFORMIN	PLACEBO	Tota
Missing	84	70	
No	116	117	233
Yes	26	36	62
Total	142	153	295

Table of GDM_IAD by AllocatedTreatment

Parameter(s)	Studied effects	Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
GDMIAD_itt	AllocatedTreatment METFORMIN vs PLACEBO	0.728	0.414	1.283	0.2726	0.3174

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.1.6.1 of this report *Analised using logistic regression (binary logit), probability modeled GDM_IAD='Yes' #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.3 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of GDM_CODE_IAD by AllocatedTreatment											
	GDM CODE IAD(GDM calculated	AllocatedTreatn	nent(Allocated Tre	eatment)								
	using IADPSG criteria by visit)	METFORMIN	PLACEBO	Total								
	Missing	84	70									
	GDM first at visit 5 (28 weeks)	11	26	37								
	GDM first at visit 6 (36 weeks)	15	10	25								
	NO GDM	116	117	233								
	Total	142	153	295								
	Frequenc	cy Missing = 154										

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.1.6.1 of this report *Analised using The Mantel-Haenszel chi-square statistic tests #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.3 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Statistics for Table of GDM_CODE_IAD by AllocatedTreatment

Statistic	DF	Value	Prob
Chi-Square	2	6.6845	0.0354
Likelihood Ratio Chi-Square	2	6.8605	0.0324
Mantel-Haenszel Chi-Square	1	3.2419	0.0718
Phi Coefficient		0.1505	
Contingency Coefficient		0.1489	
Cramer's V		0.1505	

Effective Sample Size = 295 Frequency Missing = 154

WARNING: 34 % of the data are missing.

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.1.6.1 of this report *Analised using The Mantel-Haenszel chi-square statistic tests #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.1 Insulin - Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Insulin - Visit 2 (mIU/mI)	Mean	22.077	21.953	22.015				
	Median	19.457	19.765	19.679				
	SD	10.201	12.264	11.262				
	MIN,MAX	3.73,71.22	2.00,106.02	2.00,106.02				
	Q1,Q3	15.51,26.41	14.93,26.72	15.26,26.60				
	n	189	188	377				
	Nmiss	34	38	72				
Insulin - Visit 5 (mIU/mI)	Mean	27.487	26.313	26.920				
	Median	25.015	23.158	24.014				
	SD	14.282	19.053	16.740				
	MIN,MAX	6.86,121.29	6.82,196.84	6.82,196.84				
	Q1,Q3	19.46,31.33	17.18,30.29	17.99,30.73				
	n	154	144	298				
	Nmiss	69	82	151				

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.1 Insulin - Visit 6 (36 Weeks) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Insulin - Visit 6 (mIU/mI)	Mean	30.086	32.794	31.419			
	Median	27.342	27.088	27.222			
	SD	13.123	24.547	19.605			
	MIN,MAX	6.46,91.87	9.78,204.26	6.46,204.26			
	Q1,Q3	20.91,35.86	20.36,36.61	20.73,35.86			
	n	131	127	258			
	Nmiss	92	99	191			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.2.1 Fasted Insulin - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	acebo		Met	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
T drameter(e)	moun	02		moun	02		Billorolloo	01	01	(1 1001)	praido
Insulin_log_visit_6 - itt	3.438	0.0759	131	3.442	0.0724	127	0.005	-0.104	0.113	0.007	0.9342

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rod Summary statistics are presented in table 5.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed insulin in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed mean and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_2_2_INSULIN_RES_outcome_analysis.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.2.2 Fasted Insulin - Visit 5 (28 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

	Pla	ncebo		Met	formin						
	Estimated			Estimated			Estimated Mean	Estimated Mean Difference Lower	Estimated Mean Difference Upper	Statistic	
Parameter(s)	Mean	SE	n	Mean	SE	n	Difference*	CI*	CI*	(t-test)	p-value
Insulin_log_visit_5 - itt	3.305	0.0694	154	3.214	0.0656	144	-0.091	-0.189	0.007	3.374	0.0673

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed insulin in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed mean and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_2_2_INSULIN_RES_outcome_analysis_v5'.Ist Parameter shown normal or near-normal behavior

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.1 HOMA-IR - Visit 2 Consent/Baseline (10-16 Weeks) and Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
HOMA - visit 2 - base	Mean	4.360	4.363	4.362				
	Median	3.855	3.903	3.857				
	SD	2.157	2.755	2.470				
	MIN,MAX	0.71,14.24	0.34,24.02	0.34,24.02				
	Q1,Q3	2.94,5.16	2.74,5.16	2.88,5.16				
	n	189	188	377				
	Nmiss	34	38	72				
HOMA - visit 5 - base	Mean	5.563	5.234	5.404				
	Median	4.862	4.651	4.735				
	SD	3.298	4.173	3.745				
	MIN,MAX	1.10,28.57	1.23,41.12	1.10,41.12				
	Q1,Q3	3.72,6.46	3.21,6.13	3.31,6.28				
	n	153	144	297				
	Nmiss	70	82	152				

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.2 HOMA-IR - Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
HOMA - visit 6 - base	Mean	5.978	6.298	6.133			
	Median	5.345	5.056	5.175			
	SD	2.888	4.777	3.914			
	MIN,MAX	1.15,16.74	1.73,34.50	1.15,34.50			
	Q1,Q3	4.04,7.18	3.72,7.26	3.87,7.18			
	n	131	123	254			
	Nmiss	92	103	195			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.3.1 HOMA_IR - VISIT 6 (36 WEEKS) - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Met	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
HOMA-IR_log_visit_6 - itt	1.808	0.0825	131	1.782	0.0787	123	-0.026	-0.145	0.093	0.187	0.6656

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.3.2 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed HOMA-IR in blood by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_3_4_glucose_outcome_analysis.Ist' Parameter shown normal or near-normal behavior

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.3.2 HOMA_IR - VISIT 5 (28 WEEKS) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	ncebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
HOMA-IR_log_visit_5 - itt	1.673	0.0774	153	1.563	0.0731	144	-0.111	-0.220	-0.002	3.984	0.0469

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 5.3.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed HOMA-IR in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_3_4_glucose_outcome_analysis_5v.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.1 HOMA-IR - Visit 5 (28 Weeks) split by C-section Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - HOMA_IR - V5 - base	Mean	6.22	6.03	6.13
	Median	5.38	5.31	5.33
	SD	4.07	4.04	4.04
	MIN,MAX	1.6,28.6	1.8,23.1	1.6,28.6
	Q1,Q3	3.8,7.3	3.5,6.8	3.8,7.0
	n	50	46	96
	Nmiss	20	15	35
No C-section - HOMA_IR - V5 - base	Mean	5.25	4.86	5.06
	Median	4.69	4.25	4.51
	SD	2.82	4.22	3.56
	MIN,MAX	1.1,19.0	1.2,41.1	1.1,41.1
	Q1,Q3	3.4,6.1	3.1,5.7	3.2,5.8
	n	103	97	200
	Nmiss	38	46	84

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.2 HOMA-IR - Visit 6 (36 Weeks) split by C-section Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - HOMA_IR - V6 - base	Mean	6.52	5.74	6.17
	Median	5.88	5.20	5.46
	SD	3.06	2.79	2.95
	MIN,MAX	1.1,13.8	1.7,16.2	1.1,16.2
	Q1,Q3	4.4,7.8	3.9,7.2	4.2,7.2
	n	46	38	84
	Nmiss	23	21	44
No C-section - HOMA_IR - V6 - base	Mean	5.68	6.55	6.11
	Median	5.15	4.99	5.07
	SD	2.76	5.43	4.32
	MIN,MAX	1.6,16.7	1.7,34.5	1.6,34.5
	Q1,Q3	3.7,6.6	3.7,7.4	3.7,7.0
	n	85	85	170
	Nmiss	54	55	109

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_HOMA_IR_V5_base	Mean	3.55	4.30	3.85
	Median	4.04	4.30	4.04
	SD	1.73	2.77	1.90
	MIN,MAX	1.6,5.0	2.3,6.3	1.6,6.3
	Q1,Q3	1.6,5.0	2.3,6.3	2.3,5.0
	n	3	2	5
	Nmiss	0	1	1
5%<=_HOMA_IR_V5_base	Mean	3.63	3.41	3.52
	Median	4.04	2.83	3.14
	SD	1.39	1.68	1.46
	MIN,MAX	1.6,5.0	2.1,6.3	1.6,6.3
	Q1,Q3	2.8,4.7	2.3,3.5	2.3,4.7
	n	5	5	10
	Nmiss	1	1	2

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_HOMA_IR_V5_base	Mean	4.37	8.21	6.40
	Median	4.81	3.46	4.69
	SD	1.52	12.46	9.08
	MIN,MAX	1.6,6.5	2.1,41.1	1.6,41.1
	Q1,Q3	3.4,5.2	2.8,6.3	2.8,5.5
	n	8	9	17
	Nmiss	2	4	6
10%> AND 90%<=_HOMA_IR_V5_base	Mean	5.30	4.96	5.13
	Median	4.59	4.64	4.63
	SD	2.73	2.82	2.78
	MIN,MAX	1.1,19.0	1.2,23.1	1.1,23.1
	Q1,Q3	3.5,6.4	3.2,5.7	3.3,6.2
	n	117	109	226
	Nmiss	46	50	96

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_HOMA_IR_V5_base	Mean	7.00	5.39	6.24
	Median	5.74	4.75	5.51
	SD	5.06	3.54	4.44
	MIN,MAX	2.7,28.6	1.5,19.4	1.5,28.6
	Q1,Q3	4.6,7.1	2.9,6.9	4.3,6.9
	n	28	25	53
	Nmiss	8	6	14
95%>_HOMA_IR_V5_base	Mean	7.10	5.34	6.16
	Median	5.79	4.50	5.53
	SD	6.34	4.18	5.28
	MIN,MAX	2.7,28.6	1.5,19.4	1.5,28.6
	Q1,Q3	4.5,6.6	2.6,6.6	3.3,6.6
	n	14	16	30
	Nmiss	6	2	8

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_HOMA_IR_V5_base	Mean	8.32	5.61	6.83
	Median	5.95	4.48	5.73
	SD	7.71	4.93	6.30
	MIN,MAX	3.1,28.6	1.5,19.4	1.5,28.6
	Q1,Q3	5.7,6.6	2.5,6.9	3.7,6.7
	n	9	11	20
	Nmiss	4	2	6

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_HOMA_IR_V6_base	Mean	2.99		2.99
	Median	2.23		2.23
	SD	1.39		1.39
	MIN,MAX	2.1,4.6	-,-	2.1,4.6
	Q1,Q3	2.1,4.6	-,-	2.1,4.6
	n	3	0	3
	Nmiss	0	3	3
5%<=_HOMA_IR_V6_base	Mean	3.21	3.86	3.45
	Median	3.51	4.29	3.54
	SD	1.03	0.76	0.94
	MIN,MAX	2.1,4.6	3.0,4.3	2.1,4.6
	Q1,Q3	2.2,3.6	3.0,4.3	2.6,4.3
	n	5	3	8
	Nmiss	1	3	4

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_HOMA_IR_V6_base	Mean	4.90	5.27	5.09
	Median	3.57	4.31	4.30
	SD	3.19	2.25	2.66
	MIN,MAX	2.1,11.0	3.0,9.4	2.1,11.0
	Q1,Q3	2.2,7.3	3.7,7.3	3.5,7.3
	n	7	7	14
	Nmiss	3	6	9
10%> AND 90%<=_HOMA_IR_V6_base	Mean	5.74	6.50	6.10
	Median	5.34	5.06	5.20
	SD	2.54	5.24	4.08
	MIN,MAX	1.1,14.0	1.7,34.5	1.1,34.5
	Q1,Q3	4.1,6.7	3.8,7.3	3.9,7.0
	n	103	96	199
	Nmiss	57	60	117

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_HOMA_IR_V6_base	Mean	7.52	5.69	6.63
	Median	5.99	6.05	6.05
	SD	3.89	2.54	3.39
	MIN,MAX	3.2,16.7	1.7,10.0	1.7,16.7
	Q1,Q3	4.8,10.7	3.9,7.3	4.1,8.2
	n	21	20	41
	Nmiss	15	9	24
95%>_HOMA_IR_V6_base	Mean	7.01	4.96	5.84
	Median	5.99	5.20	5.99
	SD	3.29	2.43	2.94
	MIN,MAX	3.6,12.7	1.7,10.0	1.7,12.7
	Q1,Q3	4.8,7.8	2.9,6.4	4.0,6.7
	n	9	12	21
	Nmiss	11	4	15

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
97%>_HOMA_IR_V6_base	Mean	6.73	5.16	5.69			
	Median	5.51	5.20	5.51			
	SD	3.52	2.65	2.90			
	MIN,MAX	4.0,11.9	1.7,10.0	1.7,11.9			
	Q1,Q3	4.5,8.9	3.2,6.4	4.1,6.4			
	n	4	8	12			
	Nmiss	9	3	12			

Section 5. Laboratory results (Secondary Outcome) 5.4.1 NEFA by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
NEFA - visit 2* (mmol/L)	Mean	0.519	0.481	0.500		
	Median	0.500	0.460	0.480		
	SD	0.200	0.177	0.190		
	MIN,MAX	0.05,1.35	0.05,1.26	0.05,1.35		
	Q1,Q3	0.38,0.65	0.36,0.59	0.37,0.61		
	n	189	188	377		
	Nmiss	34	38	72		
NEFA - visit 5* (mmol/L)	Mean	0.420	0.427	0.423		
	Median	0.420	0.410	0.410		
	SD	0.139	0.161	0.150		
	MIN,MAX	0.08,0.78	0.11,0.89	0.08,0.89		
	Q1,Q3	0.31,0.52	0.30,0.53	0.31,0.52		
	n	154	144	298		
	Nmiss	69	82	151		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.1 NEFA by study visit (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
NEFA - visit 6* (mmol/L)	Mean	0.465	0.455	0.460		
	Median	0.450	0.430	0.440		
	SD	0.181	0.194	0.187		
	MIN,MAX	0.13,0.97	0.10,1.00	0.10,1.00		
	Q1,Q3	0.33,0.60	0.31,0.56	0.32,0.57		
	n	131	127	258		
	Nmiss	92	99	191		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.2 IL_6 by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
IL_6 - visit 2* (pg/ml)	Mean	2.770	2.632	2.701		
	Median	2.038	1.970	2.010		
	SD	5.503	4.371	4.965		
	MIN,MAX	0.73,75.20	0.62,58.25	0.62,75.20		
	Q1,Q3	1.50,2.91	1.51,2.58	1.50,2.81		
	n	189	188	377		
	Nmiss	34	38	72		
IL_6 - visit 5* (pg/ml)	Mean	2.733	2.379	2.562		
	Median	2.243	2.142	2.199		
	SD	2.158	1.186	1.763		
	MIN,MAX	0.80,23.79	0.77,8.76	0.77,23.79		
	Q1,Q3	1.68,3.36	1.62,2.76	1.64,2.96		
	n	154	144	298		
	Nmiss	69	82	151		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.2 IL_6 by study visit (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
IL_6 - visit 6* (pg/ml)	Mean	3.856	2.926	3.399			
	Median	2.904	2.499	2.709			
	SD	4.101	1.374	3.106			
	MIN,MAX	1.07,30.77	1.10,9.37	1.07,30.77			
	Q1,Q3	2.28,4.05	1.99,3.75	2.09,3.83			
	n	131	127	258			
	Nmiss	92	99	191			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.3 Leptin by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Leptin - visit 2* (ng/ml)	Mean	93.610	98.499	96.048		
	Median	87.734	89.443	88.352		
	SD	42.077	40.296	41.217		
	MIN,MAX	24.19,305.25	21.93,338.66	21.93,338.66		
	Q1,Q3	65.00,111.76	73.26,115.63	69.36,113.41		
	n	189	188	377		
	Nmiss	34	38	72		
Leptin - visit 5* (ng/ml)	Mean	104.417	102.250	103.369		
	Median	96.360	94.544	94.892		
	SD	46.427	50.533	48.384		
	MIN,MAX	25.94,376.10	18.04,453.51	18.04,453.51		
	Q1,Q3	76.14,125.11	71.87,125.33	71.99,125.11		
	n	154	144	298		
	Nmiss	69	82	151		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.3 Leptin by study visit (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Leptin - visit 6* (ng/ml)	Mean	104.983	106.554	105.756		
	Median	95.456	96.614	96.114		
	SD	52.428	58.820	55.563		
	MIN,MAX	21.49,397.20	31.85,505.21	21.49,505.21		
	Q1,Q3	70.44,131.08	67.52,131.35	69.01,131.08		
	n	131	127	258		
	Nmiss	92	99	191		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.4 Cortisol by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Cortisol - visit 2* (nmol/l)	Mean	396.404	430.955	413.634			
	Median	370.115	382.095	375.366			
	SD	143.545	178.760	162.771			
	MIN,MAX	154.11,869.93	145.01,1197.1	145.01,1197.1			
	Q1,Q3	288.03,494.32	303.09,530.81	294.85,514.59			
	n	189	188	377			
	Nmiss	34	38	72			
Cortisol - visit 5* (nmol/l)	Mean	716.481	777.227	745.835			
	Median	673.822	738.567	720.696			
	SD	230.814	252.761	243.167			
	MIN,MAX	339.23,1922.5	234.30,1826.3	234.30,1922.5			
	Q1,Q3	556.75,809.18	607.19,903.30	575.05,863.57			
	n	154	144	298			
	Nmiss	69	82	151			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.4 Cortisol by study visit (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Cortisol - visit 6* (nmol/l)	Mean	821.701	867.039	844.018		
	Median	781.602	831.024	800.864		
	SD	232.879	225.416	229.914		
	MIN,MAX	432.38,1903.3	432.71,1859.6	432.38,1903.3		
	Q1,Q3	664.85,904.55	692.19,1003.0	680.38,967.38		
	n	131	127	258		
	Nmiss	92	99	191		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.5 PAI1/PAI2 ratio by study visit Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
PAI_ratio - visit 2*	Mean	1.476	1.771	1.622		
	Median	1.053	0.977	0.997		
	SD	1.393	5.222	3.798		
	MIN,MAX	0.28,11.89	0.33,57.63	0.28,57.63		
	Q1,Q3	0.76,1.70	0.71,1.43	0.73,1.54		
	n	131	128	259		
	Nmiss	92	98	190		
PAI_ratio - visit 6*	Mean	3.203	2.965	3.085		
	Median	2.246	1.828	2.040		
	SD	2.611	2.791	2.699		
	MIN,MAX	0.61,13.98	0.56,16.41	0.56,16.41		
	Q1,Q3	1.27,4.43	1.18,3.77	1.24,4.04		
	n	131	128	259		
	Nmiss	92	98	190		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.6 NEFA, IL-6, Leptin, Cortisol, PAI1/PAI2 ratio Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper Cl*	Statistic (t-test)	p-value
IL_6_log_Visit6 - itt	1.116	0.0819	131	0.950	0.0781	127	-0.166	-0.283	-0.049	7.778	0.0057
Leptin_log_Visit6 - itt	4.565	0.0757	131	4.570	0.0721	127	0.005	-0.103	0.113	0.008	0.9268
Cortisol_nmol_l_log_Visit6 - itt	6.673	0.0424	131	6.734	0.0404	127	0.060	-0.001	0.121	3.815	0.0519
NEFA_log_Visit6 - itt	-0.732	0.0684	131	-0.787	0.0652	127	-0.055	-0.152	0.043	1.206	0.2731
PAI_ratio_log_Visit6 - itt	1.000	0.1243	131	0.910	0.1153	128	-0.091	-0.259	0.078	1.119	0.2911

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in tables 5.4.1 to 5.4.5 of this report By: Aryelly Rodriguez - ECTU Statistician

Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05

Estimated mean represents the adjusted means of the log transformed variable by allocated treatment,

SE represents standard error of the estimated log transformed means and N represents number of observations

*Represents the difference between estimated log transformed means and CI Represents the 95% confidence interval

Calculations and detailed analysis are presented in study file 'Empowar_5_4_other_labs_analysis_v6.lst'

All parameters shown normal or near-normal behavior

Section 5. Laboratory results (Secondary Outcome) 5.5.1 B12# - Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
B12 (ng/l) - visit 2	Mean	260.2	266.3	263.2		
	Median	249.0	251.0	249.0		
	SD	101.3	92.4	96.8		
	MIN,MAX	55,760	80,745	55,760		
	Q1,Q3	195,325	214,315	205,317		
	n	132	131	263		
	Nmiss	91	95	186		
B12 below 95th - visit 2 (n(%))*	Missing	91	95	186		
	Yes	121 (91.7)	121 (92.4)	242 (92.0)		
	No	11 (8.3)	10 (7.6)	21 (8.0)		
B12 below 5th - visit 2 (n(%))*	Missing	91	95	186		
	Yes	8 (6.1)	5 (3.8)	13 (4.9)		
	No	124 (93.9)	126 (96.2)	250 (95.1)		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 117 ng/l and 95th centile was set at 389 ng/l #Reference range 200-940 ng/l

Section 5. Laboratory results (Secondary Outcome) 5.5.1 B12# - Visit 6 (36 Weeks)(Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
B12 (ng/l) - visit 6	Mean	223.7	215.0	219.3
	Median	221.0	207.5	214.0
	SD	69.6	73.2	71.5
	MIN,MAX	60,482	38,564	38,564
	Q1,Q3	178,269	174,251	175,255
	n	130	132	262
	Nmiss	93	94	187
B12 below 95th - visit 6 (n(%))*	Missing	93	94	187
	Yes	127 (97.7)	129 (97.7)	256 (97.7)
	No	3 (2.3)	3 (2.3)	6 (2.3)
B12 below 5th - visit 6 (n(%))*	Missing	93	94	187
	Yes	6 (4.6)	7 (5.3)	13 (5.0)
	No	124 (95.4)	125 (94.7)	249 (95.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 117 ng/l and 95th centile was set at 389 ng/l #Reference range 200-940 ng/l

Section 5. Laboratory results (Secondary Outcome) 5.5.2 Serum folate# - Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Serum Folate (ug/l) - visit 2	Mean	13.84	13.77	13.81
	Median	16.45	16.40	16.40
	SD	4.57	4.83	4.69
	MIN,MAX	2.6,17.5	1.7,21.0	1.7,21.0
	Q1,Q3	10.7,17.5	10.4,17.5	10.5,17.5
	n	132	131	263
	Nmiss	91	95	186
Serum Folate below 95th - visit 2 (n(%))*	Missing	91	95	186
	Yes	71 (53.8)	75 (57.3)	146 (55.5)
	No	61 (46.2)	56 (42.7)	117 (44.5)
Serum Folate below 5th - visit 2 (n(%))*	Missing	91	95	186
	Yes	0	2 (1.5)	2 (0.8)
	No	132 (100)	129 (98.5)	261 (99.2)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 2.6 ug/l and 95th centile was set at 17.5 ug/l #Peferear range 3 1.17 5 ug/l then the value

#Reference range 3.1-17.5 ug/l, if Serum folate value was reported as greater than 17.5 ug/l, then the value was imputed at 17.5 ug/l for summarisation

Section 5. Laboratory results (Secondary Outcome) 5.5.2 Serum folate# - Visit 6 (36 Weeks) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Allocated_Intervention							
Categories	Placebo N=223	Metformin N=226	Overall N=449				
Mean	8.29	8.54	8.42				
Median	5.60	6.60	5.95				
SD	5.61	5.64	5.61				
MIN,MAX	1.3,17.5	1.2,21.0	1.2,21.0				
Q1,Q3	3.8,14.2	3.9,14.0	3.9,14.2				
n	132	132	264				
Nmiss	91	94	185				
Missing	91	94	185				
Yes	110 (83.3)	110 (83.3)	220 (83.3)				
No	22 (16.7)	22 (16.7)	44 (16.7)				
Missing	91	94	185				
Yes	10 (7.6)	11 (8.3)	21 (8.0)				
No	122 (92.4)	121 (91.7)	243 (92.0)				
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Missing Yes No Missing Yes	Placebo Categories Placebo Mean 8.29 Median 5.60 SD 5.61 MIN,MAX 1.3,17.5 Q1,Q3 3.8,14.2 n 132 Nmiss 91 Yes 110 (83.3) No 22 (16.7) Missing 91 Yes 10 (7.6)	Placebo N=223 Metformin N=226 Mean 8.29 8.54 Median 5.60 6.60 SD 5.61 5.64 MIN,MAX 1.3,17.5 1.2,21.0 Q1,Q3 3.8,14.2 3.9,14.0 n 132 132 Nmiss 91 94 Yes 110 (83.3) 110 (83.3) No 22 (16.7) 22 (16.7) Missing 91 94 Yes 10 (7.6) 11 (8.3)				

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 2.6 ug/l and 95th centile was set at 17.5 ug/l #Reference range 3.1-17.5 ug/l, if Serum folate value was reported as greater than 17.5 ug/l, then the value was imputed at 17.5 ug/l for summarisation

Section 5. Laboratory results (Secondary Outcome) 5.5.3 B12 and Serum Folate Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Placebo			Metformin							
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
B12_log_99_Visit6 - itt	5.397	0.0588	130	5.348	0.0545	132	-0.049	-0.129	0.031	1.451	0.2296
SFOLATE_log_99_Visit6 - itt	1.898	0.1264	132	1.947	0.1174	132	0.049	-0.122	0.221	0.317	0.5737

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in tables 5.5.2 and 5.6.2 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_5_B12_folate_continuo_analysis_v6.lst' All parameters shown normal or near-normal behavior

Section 5. Laboratory results (Secondary Outcome) 5.5.4.1 B12* - Patients below 5th centile - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	B12_N5TH(Patients with B12 below 5th		Treatment(Allo Treatment)	cated				
	centile (Y/N))	METFORMIN	PLACEBO	Total				
-	Missing	94	93		_			
	Yes	7	6	13				
	No	125	124	249				
	Total	132	130	262				
-	Fre	quency Missing	= 187		_			
				Odds	Lower 95% Confidence Limit	Upper 95% Confidence Limit		Fisher
		Studied		Ratio	for Odds	for Odds		exact
Parameter(s)		effects		Estimate	Ratio	Ratio	P-value#	P-value#
b12_n5th_itt	AllocatedTreatment	METFORMIN vs	PLACEBO	1.157	0.378	3.541	0.7979	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is B12_N5THb='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 5 5 B12 folate discre analysis v6.lst' By: Aryelly Rodriguez - ECTU Statistician

Section 5. Laboratory results (Secondary Outcome) 5.5.4.2 Serum Folate* - Patients below 5th centile - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of SFO	L_N5TH by Allo						
	SFOL_N5TH(Patients with Serum Folate below 5th centile		Treatment(All Treatment)	located				
	(Y/N))	METFORMIN	PLACEBO	Т	otal			
	Missing	94	91					
	Yes	11	10		21			
	No	121	122		243			
	Total	132	132		264			
	Free	quency Missing	= 185					
					Lower	Upper		
					95%	95%		
	ç	tudied		Odds Ratio	Confidence Limit for Odds	Confidence Limit for Odds		Fisher exact
Parameter(s)		effects		Estimate		Ratio	P-value#	P-value#
sfol_n5th_itt	AllocatedTreatment M	ETFORMIN vs F	PLACEBO	1.109	0.454	2.708	0.8201	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is SFOL_N5THb='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_5_5_B12_folate_discre_analysis_v6.lst' By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.1.1 Maternal Height at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Height (cm) at Visit 2	Mean	165.1	165.5	165.3				
	Median	165.0	165.0	165.0				
	SD	5.9	5.9	5.9				
	MIN,MAX	149,184	152,182	149,184				
	Q1,Q3	161,170	162,170	161,170				
	n	223	226	449				
	Nmiss	0	0	0				

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.1.2 Maternal Height at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Height (cm) at Visit 6	Mean	166.0	166.3	166.1			
	Median	166.0	166.0	166.0			
	SD	6.0	5.6	5.8			
	MIN,MAX	149,184	155,183	149,184			
	Q1,Q3	162,170	163,171	162,170			
	n	153	142	295			
	Nmiss	70	84	154			
Height (cm) change V6 baseline	Mean	0.1	0.2	0.2			
	Median	0.0	0.0	0.0			
	SD	0.8	0.8	0.8			
	MIN,MAX	-2,3	-3,3	-3,3			
	Q1,Q3	0,0	0,0	0,0			
	n	153	142	295			
	Nmiss	70	84	154			

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Section 6. Mother Anthropometry 6.1.3 Maternal Height at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Allocated_Intervention						
Categories	Placebo N=223	Metformin N=226	Overall N=449			
Mean	165.3	166.1	165.7			
Median	165.5	166.0	166.0			
SD	5.9	5.8	5.8			
MIN,MAX	149,184	154,180	149,184			
Q1,Q3	163,169	162,171	162,170			
n	125	127	252			
Nmiss	98	99	197			
Mean	-0.2	-0.2	-0.2			
Median	0.0	0.0	0.0			
SD	0.8	0.8	0.8			
MIN,MAX	-3,2	-3,3	-3,3			
Q1,Q3	0,0	0,0	0,0			
n	125	127	252			
Nmiss	98	99	197			
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Placebo N=223 Mean 165.3 Median 165.5 SD 5.9 MIN,MAX 149,184 Q1,Q3 163,169 n 125 Nmiss 98 Median -0.2 Median 0.0 SD 0.8 MIN,MAX -3,2 Q1,Q3 0,0 n 125	Placebo Metformin Categories N=223 Metformin Mean 165.3 166.1 Median 165.5 166.0 SD 5.9 5.8 MIN,MAX 149,184 154,180 Q1,Q3 163,169 162,171 n 125 127 Nmiss 98 99 U U U Mean -0.2 -0.2 Mean 0.0 0.0 SD 0.8 0.8 MIN,MAX -3,2 -3,3 Q1,Q3 0,0 0,0			

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Section 6. Mother Anthropometry 6.2.1 Maternal Weight at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention							
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449					
Weight (kg) at Visit 2	Mean	102.94	103.60	103.27					
	Median	99.20	101.35	100.20					
	SD	17.00	15.50	16.25					
	MIN,MAX	72.0,170.4	74.0,154.8	72.0,170.4					
	Q1,Q3	90.1,111.9	93.0,113.5	92.0,112.1					
	n	223	226	449					
	Nmiss	0	0	0					

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.2.2.1 Maternal Weight at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Weight (kg) at Visit 6	Mean	111.67	112.52	112.08				
	Median	107.30	111.00	109.90				
	SD	17.33	16.02	16.69				
	MIN,MAX	79.8,166.4	79.1,165.7	79.1,166.4				
	Q1,Q3	99.7,121.4	102.4,121.5	100.6,121.5				
	n	156	143	299				
	Nmiss	67	83	150				
Weight (kg) change V6 baseline	Mean	7.23	6.70	6.97				
	Median	6.93	6.50	6.80				
	SD	4.91	6.00	5.45				
	MIN,MAX	-5.1,19.0	-5.7,35.7	-5.7,35.7				
	Q1,Q3	4.2,9.6	2.6,10.0	3.3,10.0				
	n	156	143	299				
	Nmiss	67	83	150				

Section 6. Mother Anthropometry

6.2.2.2 Maternal Weight at Visit 6 (36 Weeks) change from baseline - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	acebo		Met	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Faranneter(S)	Iviean	3E		Mean	3E	П	Dillerence	01	01	(i-iesi)	p-value
Weight-DIFF-Visit_6 - itt	7.342	0.7601	156	6.661	0.7209	143	-0.680	-1.863	0.503	1.282	0.2585

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodrig Summary statistics are presented in table 6.2.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the means for the Weight Difference by allocated treatment, SE represents standard error of the estimated means and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_6_2_2_Mother Anthropometry_weight_gain_v6.lst' Parameter shown normal or near-normal behavior

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.2.3 Maternal Weight at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Weight (kg) at Visit 9	Mean	102.14	105.91	104.02				
	Median	98.70	105.00	102.32				
	SD	15.29	18.41	16.99				
	MIN,MAX	72.7,145.8	72.9,193.0	72.7,193.0				
	Q1,Q3	92.0,111.0	94.6,115.2	92.4,112.3				
	n	124	124	248				
	Nmiss	99	102	201				
Weight (kg) change V9 baseline	Mean	-0.13	0.07	-0.03				
	Median	-0.35	-0.50	-0.50				
	SD	6.22	9.82	8.20				
	MIN,MAX	-15.5,18.2	-19.2,79.5	-19.2,79.5				
	Q1,Q3	-3.6,3.2	-4.9,2.5	-4.0,2.8				
	n	124	124	248				
	Nmiss	99	102	201				

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Section 6. Mother Anthropometry 6.3.1 Maternal Waist at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Waist (cm) at Visit 2	Mean	108.7	110.1	109.4
	Median	106.0	109.0	108.0
	SD	13.5	11.9	12.7
	MIN,MAX	64,152	84,145	64,152
	Q1,Q3	99,117	102,117	100,117
	n	222	225	447
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.3.2 Maternal Waist at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Waist (cm) at Visit 6	Mean	120.0	119.0	119.5
	Median	120.0	119.0	119.0
	SD	13.2	11.1	12.2
	MIN,MAX	95,168	88,148	88,168
	Q1,Q3	109,128	111,126	110,127
	n	155	142	297
	Nmiss	68	84	152
Waist (cm) change V6 baseline	Mean	10.4	8.3	9.4
	Median	10.0	8.3	9.0
	SD	10.4	8.9	9.8
	MIN,MAX	-20,78	-22,29	-22,78
	Q1,Q3	5,16	4,14	4,14
	n	155	142	297
	Nmiss	68	84	152

Section 6. Mother Anthropometry 6.3.3 Maternal Waist at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Waist (cm) at Visit 9	Mean	109.2	109.9	109.5
	Median	107.0	109.0	107.5
	SD	12.8	13.9	13.3
	MIN,MAX	80,142	79,147	79,147
	Q1,Q3	100,117	101,117	100,117
	n	124	125	249
	Nmiss	99	101	200
Waist (cm) change V9 baseline	Mean	1.5	-0.2	0.6
	Median	0.5	0.0	0.0
	SD	9.5	9.6	9.6
	MIN,MAX	-21,55	-29,34	-29,55
	Q1,Q3	-4,6	-6,4	-5,5
	n	124	125	249
	Nmiss	99	101	200

Section 6. Mother Anthropometry 6.4.1 Maternal Hip at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Hip (cm) at Visit 2	Mean	126.4	127.4	126.9	
	Median	125.0	126.0	125.0	
	SD	12.1	11.8	11.9	
	MIN,MAX	95,159	100,161	95,161	
	Q1,Q3	117,134	119,135	118,134	
	n	222	225	447	
	Nmiss	1	1	2	

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Section 6. Mother Anthropometry 6.4.2 Maternal Hip at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Hip (cm) at Visit 6	Mean	130.1	131.3	130.7
	Median	128.0	130.0	129.5
	SD	12.3	11.8	12.1
	MIN,MAX	108,169	107,174	107,174
	Q1,Q3	122,139	123,140	122,139
	n	155	142	297
	Nmiss	68	84	152
Hip (cm) change V6 baseline	Mean	2.9	2.7	2.8
	Median	3.0	2.0	2.5
	SD	6.0	6.8	6.4
	MIN,MAX	-14,18	-12,21	-14,21
	Q1,Q3	-1,6	-2,7	-1,7
	n	155	142	297
	Nmiss	68	84	152

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.4.3 Maternal Hip at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Hip (cm) at Visit 9	Mean	127.3	128.6	128.0
	Median	126.0	128.0	127.0
	SD	12.2	13.4	12.8
	MIN,MAX	99,166	79,167	79,167
	Q1,Q3	120,135	121,137	120,136
	n	124	125	249
	Nmiss	99	101	200
Hip (cm) change V9 baseline	Mean	1.1	-0.0	0.5
	Median	1.3	0.0	1.0
	SD	6.8	7.8	7.3
	MIN,MAX	-19,17	-41,23	-41,23
	Q1,Q3	-3,6	-4,5	-4,5
	n	124	125	249
	Nmiss	99	101	200

Section 6. Mother Anthropometry 6.5.1 Maternal Mid Arm at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Mid Arm (cm) at Visit 2	Mean	36.3	36.7	36.5
	Median	36.0	36.0	36.0
	SD	5.0	4.7	4.8
	MIN,MAX	20,54	28,52	20,54
	Q1,Q3	33,39	34,39	34,39
	n	220	221	441
	Nmiss	3	5	8

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Section 6. Mother Anthropometry 6.5.2 Maternal Mid Arm at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Mid Arm (cm) at Visit 6	Mean	36.5	36.5	36.5
	Median	36.0	36.0	36.0
	SD	4.9	4.4	4.7
	MIN,MAX	22,56	22,52	22,56
	Q1,Q3	33,39	34,39	34,39
	n	154	142	296
	Nmiss	69	84	153
Mid Arm (cm) change V6 baseline	Mean	-0.1	-0.8	-0.4
	Median	0.0	-0.5	-0.4
	SD	3.8	4.0	3.9
	MIN,MAX	-10,12	-20,9	-20,12
	Q1,Q3	-2,2	-2,1	-2,1
	n	153	140	293
	Nmiss	70	86	156

Section 6. Mother Anthropometry 6.5.3 Maternal Mid Arm at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Mid Arm (cm) at Visit 9	Mean	37.1	37.4	37.2
	Median	36.5	37.0	37.0
	SD	4.7	4.4	4.5
	MIN,MAX	28,53	28,54	28,54
	Q1,Q3	34,39	34,40	34,40
	n	123	125	248
	Nmiss	100	101	201
Mid Arm (cm) change V9 baseline	Mean	0.7	0.0	0.3
	Median	0.3	0.0	0.0
	SD	4.4	3.8	4.1
	MIN,MAX	-7,25	-9,13	-9,25
	Q1,Q3	-2,3	-2,2	-2,3
	n	122	123	245
	Nmiss	101	103	204

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.6.1 Maternal Mid Thigh at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Mid Thigh (cm) at Visit 2	Mean	64.2	64.2	64.2	
	Median	64.0	63.0	64.0	
	SD	7.7	6.9	7.3	
	MIN,MAX	25,84	50,89	25,89	
	Q1,Q3	60,69	60,68	60,69	
	n	219	222	441	
	Nmiss	4	4	8	

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Section 6. Mother Anthropometry 6.6.2 Maternal Mid Thigh at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Ir	ntervention	
Categories	Placebo N=223	Metformin N=226	Overall N=449
Mean	65.3	65.2	65.3
Median	65.0	65.0	65.0
SD	7.4	6.8	7.1
MIN,MAX	29,85	45,83	29,85
Q1,Q3	60,70	60,69	60,70
n	154	139	293
Nmiss	69	87	156
Mean	0.8	0.1	0.5
Median	0.0	1.0	0.6
SD	5.7	6.1	5.9
MIN,MAX	-12,28	-30,14	-30,28
Q1,Q3	-3,4	-4,4	-3,4
n	152	137	289
Nmiss	71	89	160
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Placebo N=223 Mean 65.3 Median 65.0 SD 7.4 MIN,MAX 29,85 Q1,Q3 60,70 n 154 Nmiss 69 Median 0.0 SD 5.7 MIN,MAX -12,28 Q1,Q3 -3,4 n 152	Categories N=223 N=226 Mean 65.3 65.2 Median 65.0 65.0 SD 7.4 6.8 MIN,MAX 29,85 45,83 Q1,Q3 60,70 60,69 n 154 139 Nmiss 69 87 Mean 0.8 OL 1.0 SD 5.7 6.1 MIN,MAX -12,28 -30,14 Q1,Q3 -3,4 -4,4 n 152 137

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Section 6. Mother Anthropometry 6.6.3 Maternal Mid Thigh at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Mid Thigh (cm) at Visit 9	Mean	64.3	65.8	65.1
	Median	64.3	65.0	64.8
	SD	6.7	6.8	6.8
	MIN,MAX	51,84	52,84	51,84
	Q1,Q3	59,68	61,70	60,70
	n	122	124	246
	Nmiss	101	102	203
Mid Thigh (cm) change V9 baseline	Mean	0.7	0.7	0.7
	Median	0.0	1.0	0.5
	SD	6.8	5.7	6.3
	MIN,MAX	-10,47	-19,21	-19,47
	Q1,Q3	-4,4	-3,4	-4,4
	n	120	122	242
	Nmiss	103	104	207

Section 6. Mother Anthropometry 6.7.1 Maternal Tricep Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Tricep Skinfold (mm) at Visit 2	Mean	31.2	31.9	31.6
	Median	30.6	31.0	30.8
	SD	9.7	10.8	10.2
	MIN,MAX	5,62	8,66	5,66
	Q1,Q3	25,38	24,39	25,38
	n	222	222	444
	Nmiss	1	4	5

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.7.2 Maternal Tricep Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Tricep Skinfold (mm) at Visit 6	Mean	30.4	31.3	30.9
	Median	30.5	30.0	30.0
	SD	10.3	12.0	11.1
	MIN,MAX	9,65	9,80	9,80
	Q1,Q3	23,36	24,36	23,36
	n	155	143	298
	Nmiss	68	83	151
Tricep Skinfold (mm) change V6 baseline	Mean	-1.0	-0.3	-0.7
	Median	-1.2	0.4	-0.3
	SD	10.3	12.2	11.2
	MIN,MAX	-31,32	-44,34	-44,34
	Q1,Q3	-7,5	-6,6	-6,5
	n	154	141	295
	Nmiss	69	85	154

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.7.3 Maternal Tricep Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Tricep Skinfold (mm) at Visit 9	Mean	32.2	33.4	32.8
	Median	32.0	32.0	32.0
	SD	10.8	11.4	11.1
	MIN,MAX	8,77	13,110	8,110
	Q1,Q3	25,38	27,39	26,39
	n	123	125	248
	Nmiss	100	101	201
Tricep Skinfold (mm) change V9 baseline	Mean	1.0	1.3	1.2
	Median	0.0	0.0	0.0
	SD	10.5	11.5	11.0
	MIN,MAX	-32,37	-26,64	-32,64
	Q1,Q3	-6,6	-6,7	-6,6
	n	122	124	246
	Nmiss	101	102	203

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.8.1 Maternal Bicep Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Bicep Skinfold (mm) at Visit 2	Mean	25.7	27.4	26.6
	Median	24.2	25.8	25.0
	SD	10.0	10.9	10.5
	MIN,MAX	1,60	9,61	1,61
	Q1,Q3	20,31	20,34	20,32
	n	222	222	444
	Nmiss	1	4	5

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.8.2 Maternal Bicep Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Bicep Skinfold (mm) at Visit 6	Mean	26.0	26.9	26.5
	Median	25.0	25.0	25.0
	SD	10.5	11.6	11.0
	MIN,MAX	8,66	7,71	7,71
	Q1,Q3	19,33	19,31	19,33
	n	155	143	298
	Nmiss	68	83	151
Bicep Skinfold (mm) change V6 baseline	Mean	-0.2	-0.5	-0.3
	Median	-0.1	-1.0	-0.6
	SD	11.1	10.7	10.9
	MIN,MAX	-42,35	-26,35	-42,35
	Q1,Q3	-7,7	-6,4	-7,5
	n	154	141	295
	Nmiss	69	85	154

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.8.3 Maternal Bicep Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Bicep Skinfold (mm) at Visit 9	Mean	27.2	29.7	28.5
	Median	25.0	27.0	25.8
	SD	12.1	15.1	13.7
	MIN,MAX	9,70	8,120	8,120
	Q1,Q3	20,31	21,35	20,34
	n	123	125	248
	Nmiss	100	101	201
Bicep Skinfold (mm) change V9 baseline	Mean	0.6	2.4	1.5
	Median	-0.9	2.0	0.5
	SD	11.8	12.6	12.2
	MIN,MAX	-35,39	-20,76	-35,76
	Q1,Q3	-7,8	-4,7	-6,7
	n	122	124	246
	Nmiss	101	102	203

Section 6. Mother Anthropometry 6.9.1 Maternal Subscapular Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Subscapular Skinfold (mm) at Visit 2	Mean	32.0	32.6	32.3
	Median	32.7	31.3	32.0
	SD	12.2	11.8	12.0
	MIN,MAX	3,68	8,71	3,71
	Q1,Q3	24,40	25,39	24,39
	n	222	220	442
	Nmiss	1	6	7

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.9.2 Maternal Subscapular Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Subscapular Skinfold (mm) at Visit 6	Mean	32.7	34.5	33.5
	Median	31.4	34.0	32.0
	SD	13.5	13.9	13.7
	MIN,MAX	3,71	5,77	3,77
	Q1,Q3	24,40	25,41	25,41
	n	154	141	295
	Nmiss	69	85	154
Subscapular Skinfold (mm) change V6 base	Mean	-0.2	1.3	0.5
	Median	-1.5	1.0	0.0
	SD	12.0	10.7	11.4
	MIN,MAX	-32,39	-23,38	-32,39
	Q1,Q3	-7,6	-5,7	-6,7
	n	153	137	290
	Nmiss	70	89	159

Section 6. Mother Anthropometry 6.9.3 Maternal Subscapular Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Subscapular Skinfold (mm) at Visit 9	Mean	33.2	35.9	34.6
	Median	31.0	34.0	33.0
	SD	13.1	13.2	13.2
	MIN,MAX	6,83	9,81	6,83
	Q1,Q3	24,40	28,44	26,42
	n	123	124	247
	Nmiss	100	102	202
Subscapular Skinfold (mm) change V9 base	Mean	1.2	1.7	1.4
	Median	-0.2	2.6	1.0
	SD	11.6	12.6	12.1
	MIN,MAX	-28,47	-31,56	-31,56
	Q1,Q3	-6,7	-7,9	-6,9
	n	122	122	244
	Nmiss	101	104	205

Section 6. Mother Anthropometry 6.10.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated BMI (kg/m^2) at Visit 2	Mean	37.7	37.8	37.7
	Median	36.7	36.9	36.8
	SD	5.6	4.9	5.3
	MIN,MAX	30,61	30,57	30,61
	Q1,Q3	33,41	34,41	34,41
	n	223	226	449
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.10.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated BMI (kg/m^2) at Visit 6	Mean	40.4	40.6	40.5
	Median	39.6	39.8	39.7
	SD	5.4	4.9	5.2
	MIN,MAX	31,56	32,55	31,56
	Q1,Q3	36,44	37,44	37,44
	n	153	141	294
	Nmiss	70	85	155
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.5	2.4	2.5
	Median	2.4	2.5	2.4
	SD	1.8	2.1	2.0
	MIN,MAX	-3,7	-2,12	-3,12
	Q1,Q3	2,4	1,3	1,4
	n	153	141	294
	Nmiss	70	85	155
				100

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.10.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Calculated BMI (kg/m^2) at Visit 9	Mean	37.4	38.3	37.8
	Median	37.3	37.9	37.5
	SD	5.2	5.6	5.4
	MIN,MAX	28,61	29,61	28,61
	Q1,Q3	34,40	34,42	34,41
	n	124	124	248
	Nmiss	99	102	201
Calculated BMI (kg/m^2) change V9 baseli	Mean	0.0	0.1	0.0
	Median	-0.0	-0.2	-0.1
	SD	2.2	3.3	2.8
	MIN,MAX	-5,5	-7,25	-7,25
	Q1,Q3	-1,1	-2,1	-1,1
	n	124	124	248
	Nmiss	99	102	201

Section 6. Mother Anthropometry 6.11 Maternal body percentage fat (Edinburgh)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Fat (%) Visit 1	Mean	46.82	48.19	47.54
	Median	46.85	48.00	47.50
	SD	5.62	5.18	5.41
	MIN,MAX	33.9,59.0	34.3,58.7	33.9,59.0
	Q1,Q3	42.6,50.4	45.3,51.7	44.8,51.1
	n	48	53	101
	Nmiss	12	7	19
Fat (%) Visit 6	Mean	46.30	47.48	46.88
	Median	47.10	47.65	47.30
	SD	4.84	4.63	4.74
	MIN,MAX	34.3,53.9	39.1,56.3	34.3,56.3
	Q1,Q3	43.9,48.8	43.9,51.2	43.9,50.2
	n	31	30	61
	Nmiss	29	30	59

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26

By: Aryelly Rodriguez - ECTU Statistician

N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*This summary is only applicable to Edinburgh patients

#Data have been checked, innacuracies happened at time and point

of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.11 Maternal body percentage fat (Edinburgh) (Cont.)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Fat (%) Visit 9	Mean	47.45	48.35	47.91		
	Median	48.10	47.30	48.00		
	SD	4.97	5.31	5.12		
	MIN,MAX	36.6,54.6	37.9,58.6	36.6,58.6		
	Q1,Q3	43.6,51.9	44.6,53.1	44.4,52.0		
	n	29	30	59		
	Nmiss	31	30	61		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.12 Maternal Body fat mass (Edinburgh)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
FatMass (kg) Visit 1	Mean	47.927	50.325	49.185
	Median	45.854	49.384	47.509
	SD	12.054	11.787	11.916
	MIN,MAX	29.91,96.83	26.82,76.17	26.82,96.83
	Q1,Q3	38.65,54.37	42.17,59.48	41.17,55.54
	n	48	53	101
	Nmiss	12	7	19
FatMass (kg) Visit 6	Mean	50.827	54.372	52.570
	Median	50.278	54.583	50.690
	SD	10.944	12.172	11.606
	MIN,MAX	27.38,89.22	30.52,76.38	27.38,89.22
	Q1,Q3	46.87,55.44	46.75,65.08	46.86,57.92
	n	31	30	61
	Nmiss	29	30	59

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients

By: Aryelly Rodriguez - ECTU Statistician

#Data have been checked, innacuracies happened at time and point

of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.12 Maternal Body fat mass (Edinburgh) (Cont.)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
FatMass (kg) Visit 9	Mean	49.063	50.086	49.583		
	Median	51.265	48.549	50.263		
	SD	9.011	13.726	11.562		
	MIN,MAX	26.64,63.25	13.56,75.76	13.56,75.76		
	Q1,Q3	46.31,55.43	45.10,59.07	45.10,56.26		
	n	29	30	59		
	Nmiss	31	30	61		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.13 Maternal Body mass (Edinburgh)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
BodyMass (kg) Visit 1	Mean	101.388	103.322	102.413
	Median	97.810	104.018	100.077
	SD	16.190	15.961	16.017
	MIN,MAX	74.97,170.25	73.54,140.37	73.54,170.25
	Q1,Q3	89.72,111.83	92.19,112.90	90.53,112.40
	n	47	53	100
	Nmiss	13	7	20
BodyMass (kg) Visit 6	Mean	108.794	113.366	111.043
	Median	105.046	111.525	108.272
	SD	14.871	16.740	15.853
	MIN,MAX	79.82,165.47	78.11,147.87	78.11,165.47
	Q1,Q3	100.32,117.60	104.43,124.68	102.65,118.64
	n	31	30	61
	Nmiss	29	30	59

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients

#Data have been checked, innacuracies happened at time and point

of recording and there are not other sources for further checks

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.13 Maternal Body mass (Edinburgh) (Cont.)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
BodyMass (kg) Visit 9	Mean	102.821	106.471	104.677		
	Median	102.540	105.399	104.190		
	SD	12.759	16.507	14.772		
	MIN,MAX	72.74,126.73	73.76,146.86	72.74,146.86		
	Q1,Q3	96.36,112.37	98.50,115.30	96.80,114.25		
	n	29	30	59		
	Nmiss	31	30	61		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry

6.2.2.2.extra Maternal Weight at Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Pla	acebo		Met	formin						
		Estimated			Estimated				Mean Difference	Mean Difference	Statistic	
	Parameter(s)	Mean	SE	n	Mean	SE	п	Difference*	CI*	CI*	(t-test)	p-value
· _	Weight-Visit_6 - itt	112.473	0.7582	156	111.836	0.7209	143	-0.637	-1.819	0.544	1.127	0.2893

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 6.2.2.1 of this report Outcome analysed using a linear regression model, ajusted by weight_V2, BMI band and centre. Significance level set at p<0.05. Estimated mean represents the means for the Weight by allocated treatment, SE represents standard error of the estimated means and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_6_2_2_Mother_Anthropometry_weight_v6.lst'

Section 7. Baby Anthropometry - All Patients 7.1.1.1 Baby Age and Weight at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Neonatal Age (days)-V8	Mean	1.04	0.95	1.00
	Median	1.00	0.00	0.00
	SD	2.44	2.42	2.43
	MIN,MAX	0.0,26.0	0.0,23.0	0.0,26.0
	Q1,Q3	0.0,1.0	0.0,1.0	0.0,1.0
	n	157	147	304
	Nmiss	66	79	145
Baby Weight* (g)-V8	Mean	3687.72	3447.81	3574.28
	Median	3510.00	3432.50	3460.00
	SD	2689.82	546.15	1989.47
	MIN,MAX	400.0,37141	2110.0,4900.0	400.0,37141
	Q1,Q3	3110.0,3860.0	3077.5,3810.0	3090.0,3850.0
	n	165	148	313
	Nmiss	58	78	136

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.2 Baby Lenght and Ponderal Index at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Length (cm)-V8	Mean	50.23	49.64	49.94
	Median	51.50	50.00	51.00
	SD	8.16	7.98	8.06
	MIN,MAX	0.0,63.5	0.0,61.0	0.0,63.5
	Q1,Q3	49.5,53.0	48.0,53.0	49.0,53.0
	n	153	143	296
	Nmiss	70	83	153
Baby ponderal index* -V8	Mean	3.01	2.67	2.85
	Median	2.54	2.61	2.57
	SD	3.68	0.50	2.69
	MIN,MAX	1.7,40.6	1.5,5.0	1.5,40.6
	Q1,Q3	2.3,2.8	2.4,2.9	2.3,2.9
	n	145	131	276
	Nmiss	78	95	173

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.3 Baby Head Circumference and Skinfold Triceps at Visit 8 (Delivery)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Head Circumfe (cm)-V8	Mean	34.71	34.78	34.74
	Median	35.00	35.00	35.00
	SD	4.20	3.55	3.89
	MIN,MAX	0.0,41.5	0.0,53.0	0.0,53.0
	Q1,Q3	34.0,36.0	34.0,36.0	34.0,36.0
	n	164	153	317
	Nmiss	59	73	132
Baby Skinfold Triceps (mm)-V8	Mean	14.34	16.42	15.32
	Median	7.00	6.50	6.75
	SD	20.63	27.87	24.28
	MIN,MAX	0.0,90.0	0.0,162.0	0.0,162.0
	Q1,Q3	5.0,9.5	5.0,10.0	5.0,9.5
	n	111	99	210
	Nmiss	112	127	239

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.4 Baby Skinfold Subscapular and fat at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Skinfold Subscapular (mm)- V8	Mean	13.46	15.69	14.49
	Median	6.00	6.15	6.00
	SD	20.44	27.96	24.19
	MIN,MAX	0.0,100.0	0.0,158.0	0.0,158.0
	Q1,Q3	5.0,9.5	5.0,9.0	5.0,9.5
	n	113	98	211
	Nmiss	110	128	238
BABY_FAT* (%)-V8	Mean	12.08	12.86	12.46
	Median	10.95	12.30	12.30
	SD	5.74	4.47	5.11
	MIN,MAX	1.0,24.3	5.7,20.6	1.0,24.3
	Q1,Q3	8.1,17.1	10.0,16.2	8.1,16.5
	n	22	21	43
	Nmiss	201	205	406

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.5 Baby Fat Mass and Body mass at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
BABY_FatMass* (kg)-V8	Mean	0.43259	0.44833	0.44028
	Median	0.39545	0.44260	0.43290
	SD	0.24801	0.19505	0.22121
	MIN,MAX	0.0247,0.9767	0.1421,0.7902	0.0247,0.9767
	Q1,Q3	0.2703,0.6053	0.2933,0.5896	0.2703,0.6053
	n	22	21	43
	Nmiss	201	205	406
BABY_BodyMass* (kg)-V8	Mean	3.39626	3.37760	3.38715
	Median	3.38680	3.42610	3.41780
	SD	0.50097	0.41133	0.45403
	MIN,MAX	2.4244,4.4472	2.5026,3.9902	2.4244,4.4472
	Q1,Q3	3.0944,3.6853	3.1039,3.7412	3.0944,3.7141
	n	22	21	43
	Nmiss	201	205	406

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.1 Baby Age and Weight at Visit 9 (Final 3 months postnatal)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Neonatal Age (days)-V9	Mean	99.59	97.72	98.65			
	Median	96.00	94.00	95.00			
	SD	13.12	14.01	13.58			
	MIN,MAX	59.0,143.0	53.0,172.0	53.0,172.0			
	Q1,Q3	92.0,105.5	91.0,103.0	91.0,104.0			
	n	128	129	257			
	Nmiss	95	97	192			
Baby Weight (g)-V9	Mean	6085.04	5971.97	6027.64			
	Median	6205.50	6075.00	6156.60			
	SD	1276.59	1724.20	1518.54			
	MIN,MAX	666.0,8883.0	90.2,12500	90.2,12500			
	Q1,Q3	5598.0,6845.0	5556.4,6735.0	5580.0,6795.0			
	n	128	132	260			
	Nmiss	95	94	189			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly R N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

By: Aryelly Rodriguez - ECTU Statistician

Section 7. Baby Anthropometry - All Patients 7.1.2.2 Baby Lenght and Ponderal Index at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Length (cm)-V9	Mean	66.47	61.69	64.08	
	Median	62.00	62.00	62.00	
	SD	48.75	6.33	34.77	
	MIN,MAX	41.0,605.0	5.7,74.0	5.7,605.0	
	Q1,Q3	60.0,64.5	60.0,64.0	60.0,64.3	
	n	125	125	250	
	Nmiss	98	101	199	
Baby ponderal index* -V9	Mean	2.58	28.76	15.72	
	Median	2.53	2.54	2.54	
	SD	0.82	293.42	207.90	
	MIN,MAX	0.0,8.9	0.0,3283.1	0.0,3283.1	
	Q1,Q3	2.4,2.8	2.3,2.8	2.3,2.8	
	n	124	125	249	
	Nmiss	99	101	200	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.3 Baby Head Circumference and Skinfold Triceps at Visit 9 (Final 3 months postnatal)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Head Circumfe (cm)-V9	Mean	41.30	41.02	41.16	
	Median	41.00	41.00	41.00	
	SD	2.87	4.42	3.72	
	MIN,MAX	34.8,62.0	4.0,62.0	4.0,62.0	
	Q1,Q3	40.0,42.6	39.8,42.5	40.0,42.5	
	n	124	122	246	
	Nmiss	99	104	203	
BabySkinfoldTriceps (mm)-V9	Mean	22.05	24.61	23.32	
	Median	10.40	11.00	11.00	
	SD	33.17	34.59	33.82	
	MIN,MAX	0.7,160.2	0.8,170.2	0.7,170.2	
	Q1,Q3	8.0,15.0	9.0,15.0	9.0,15.0	
	n	106	104	210	
	Nmiss	117	122	239	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.4 Baby Skinfold Subscapular and fat at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
BabySkinfoldSubscapular (mm)-V9	Mean	17.00	23.11	20.05	
	Median	8.65	10.00	9.00	
	SD	23.95	31.33	27.99	
	MIN,MAX	0.5,106.0	0.7,162.0	0.5,162.0	
	Q1,Q3	7.0,11.0	7.4,14.9	7.0,13.0	
	n	104	104	208	
	Nmiss	119	122	241	
BABY_FAT* (%)-V9	Mean	25.88	23.19	24.58	
	Median	24.10	23.50	23.55	
	SD	6.13	5.91	6.13	
	MIN,MAX	15.1,41.6	12.0,32.3	12.0,41.6	
	Q1,Q3	21.5,29.7	19.6,27.8	21.2,28.8	
	n	31	29	60	
	Nmiss	192	197	389	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.5 Baby Fat Mass and Body mass at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
BABY_FatMass* (kg)-V9	Mean	3.00671	1.41993	2.23977		
	Median	1.53930	1.42560	1.49110		
	SD	8.04716	0.50009	5.80390		
	MIN,MAX	0.8625,46.309	0.5693,2.4550	0.5693,46.309		
	Q1,Q3	1.1952,1.9387	1.0391,1.7338	1.1552,1.8330		
	n	31	29	60		
	Nmiss	192	197	389		
BABY_BodyMass* (kg)-V9	Mean	9.68262	6.01111	7.91017		
	Median	6.22815	6.10320	6.16140		
	SD	19.4087	0.92006	13.9814		
	MIN,MAX	4.8014,112.37	4.4105,8.0110	4.4105,112.37		
	Q1,Q3	5.6061,6.5379	5.2742,6.5058	5.4949,6.5379		
	n	30	28	58		
	Nmiss	193	198	391		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.1 Baby Age and Weight at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Neonatal Age (days)-V8	Mean	1.04	0.97	1.00		
	Median	1.00	0.00	0.00		
	SD	2.44	2.44	2.44		
	MIN,MAX	0.0,26.0	0.0,23.0	0.0,26.0		
	Q1,Q3	0.0,1.0	0.0,1.0	0.0,1.0		
	n	157	145	302		
	Nmiss	63	69	132		
Baby Weight* (g)-V8	Mean	3707.76	3455.18	3588.80		
	Median	3515.00	3437.50	3460.00		
	SD	2685.66	545.08	1990.02		
	MIN,MAX	1490.0,37141	2110.0,4900.0	1490.0,37141		
	Q1,Q3	3115.0,3865.0	3080.0,3820.0	3090.0,3860.0		
	n	164	146	310		
	Nmiss	56	68	124		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.2.1 Baby Lenght and Ponderal Index at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Length (cm)-V8	Mean	50.23	49.66	49.95	
	Median	51.50	50.00	51.00	
	SD	8.16	8.00	8.07	
	MIN,MAX	0.0,63.5	0.0,61.0	0.0,63.5	
	Q1,Q3	49.5,53.0	48.0,53.0	49.0,53.0	
	n	153	142	295	
	Nmiss	67	72	139	
Baby ponderal index* -V8	Mean	3.01	2.67	2.85	
	Median	2.54	2.61	2.57	
	SD	3.68	0.50	2.69	
	MIN,MAX	1.7,40.6	1.5,5.0	1.5,40.6	
	Q1,Q3	2.3,2.8	2.4,2.9	2.3,2.9	
	n	145	130	275	
	Nmiss	75	84	159	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.2.2 Ponderal index #,\$ - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

	Pla	acebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
baby_ponderal_alive_log - itt	0.954	0.0241	143	0.986	0.0244	130	0.031	-0.004	0.066	3.007	0.0841

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 7.2.1.2.1 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05. Estimated mean represents the mean of the log transformed variable by allocated treatment, Parameter shown normal or near-normal behavior SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_7_2_2_Baby_Ponderal_delivery.lst' #Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3), \$Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.3 Baby Head Circumference and Skinfold Triceps at Visit 8 (Delivery)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Head Circumfe (cm)-V8	Mean	34.71	34.80	34.75	
	Median	35.00	35.00	35.00	
	SD	4.20	3.55	3.90	
	MIN,MAX	0.0,41.5	0.0,53.0	0.0,53.0	
	Q1,Q3	34.0,36.0	34.0,36.0	34.0,36.0	
	n	164	152	316	
	Nmiss	56	62	118	
Baby Skinfold Triceps (mm)-V8	Mean	14.34	16.42	15.32	
	Median	7.00	6.50	6.75	
	SD	20.63	27.87	24.28	
	MIN,MAX	0.0,90.0	0.0,162.0	0.0,162.0	
	Q1,Q3	5.0,9.5	5.0,10.0	5.0,9.5	
	n	111	99	210	
	Nmiss	109	115	224	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.4 Baby Skinfold Subscapular and fat at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Skinfold Subscapular (mm)- V8	Mean	13.46	15.69	14.49
	Median	6.00	6.15	6.00
	SD	20.44	27.96	24.19
	MIN,MAX	0.0,100.0	0.0,158.0	0.0,158.0
	Q1,Q3	5.0,9.5	5.0,9.0	5.0,9.5
	n	113	98	211
	Nmiss	107	116	223
BABY_FAT* (%)-V8	Mean	12.08	12.86	12.46
	Median	10.95	12.30	12.30
	SD	5.74	4.47	5.11
	MIN,MAX	1.0,24.3	5.7,20.6	1.0,24.3
	Q1,Q3	8.1,17.1	10.0,16.2	8.1,16.5
	n	22	21	43
	Nmiss	198	193	391

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.5 Baby Fat Mass and Body mass at Visit 8 (Delivery)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
BABY_FatMass* (kg)-V8	Mean	0.43259	0.44833	0.44028		
	Median	0.39545	0.44260	0.43290		
	SD	0.24801	0.19505	0.22121		
	MIN,MAX	0.0247,0.9767	0.1421,0.7902	0.0247,0.9767		
	Q1,Q3	0.2703,0.6053	0.2933,0.5896	0.2703,0.6053		
	n	22	21	43		
	Nmiss	198	193	391		
BABY_BodyMass* (kg)-V8	Mean	3.39626	3.37760	3.38715		
	Median	3.38680	3.42610	3.41780		
	SD	0.50097	0.41133	0.45403		
	MIN,MAX	2.4244,4.4472	2.5026,3.9902	2.4244,4.4472		
	Q1,Q3	3.0944,3.6853	3.1039,3.7412	3.0944,3.7141		
	n	22	21	43		
	Nmiss	198	193	391		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.1 Baby Age and Weight at Visit 9 (Final 3 months postnatal)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Neonatal Age (days)-V9	Mean	99.59	97.72	98.65		
	Median	96.00	94.00	95.00		
	SD	13.12	14.01	13.58		
	MIN,MAX	59.0,143.0	53.0,172.0	53.0,172.0		
	Q1,Q3	92.0,105.5	91.0,103.0	91.0,104.0		
	n	128	129	257		
	Nmiss	92	85	177		
Baby Weight (g)-V9	Mean	6085.04	5971.97	6027.64		
	Median	6205.50	6075.00	6156.60		
	SD	1276.59	1724.20	1518.54		
	MIN,MAX	666.0,8883.0	90.2,12500	90.2,12500		
	Q1,Q3	5598.0,6845.0	5556.4,6735.0	5580.0,6795.0		
	n	128	132	260		
	Nmiss	87	77	164		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.2 Baby Lenght and Ponderal Index at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Length (cm)-V9	Mean	66.47	61.69	64.08
	Median	62.00	62.00	62.00
	SD	48.75	6.33	34.77
	MIN,MAX	41.0,605.0	5.7,74.0	5.7,605.0
	Q1,Q3	60.0,64.5	60.0,64.0	60.0,64.3
	n	125	125	250
	Nmiss	90	84	174
Baby ponderal index* -V9	Mean	2.58	28.76	15.72
	Median	2.53	2.54	2.54
	SD	0.82	293.42	207.90
	MIN,MAX	0.0,8.9	0.0,3283.1	0.0,3283.1
	Q1,Q3	2.4,2.8	2.3,2.8	2.3,2.8
	n	124	125	249
	Nmiss	91	84	175

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.3 Baby Head Circumference and Skinfold Triceps at Visit 9 (Final 3 months postnatal)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby Head Circumfe (cm)-V9	Mean	41.30	41.02	41.16
	Median	41.00	41.00	41.00
	SD	2.87	4.42	3.72
	MIN,MAX	34.8,62.0	4.0,62.0	4.0,62.0
	Q1,Q3	40.0,42.6	39.8,42.5	40.0,42.5
	n	124	122	246
	Nmiss	91	87	178
BabySkinfoldTriceps (mm)-V9	Mean	22.05	24.61	23.32
	Median	10.40	11.00	11.00
	SD	33.17	34.59	33.82
	MIN,MAX	0.7,160.2	0.8,170.2	0.7,170.2
	Q1,Q3	8.0,15.0	9.0,15.0	9.0,15.0
	n	106	104	210
	Nmiss	109	105	214

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.4 Baby Skinfold Subscapular and fat at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
BabySkinfoldSubscapular (mm)-V9	Mean	17.00	23.11	20.05
	Median	8.65	10.00	9.00
	SD	23.95	31.33	27.99
	MIN,MAX	0.5,106.0	0.7,162.0	0.5,162.0
	Q1,Q3	7.0,11.0	7.4,14.9	7.0,13.0
	n	104	104	208
	Nmiss	111	105	216
BABY_FAT* (%)-V9	Mean	25.88	23.19	24.58
	Median	24.10	23.50	23.55
	SD	6.13	5.91	6.13
	MIN,MAX	15.1,41.6	12.0,32.3	12.0,41.6
	Q1,Q3	21.5,29.7	19.6,27.8	21.2,28.8
	n	31	29	60
	Nmiss	184	180	364

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.5 Baby Fat Mass and Body mass at Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
BABY_FatMass* (kg)-V9	Mean	3.00671	1.41993	2.23977
	Median	1.53930	1.42560	1.49110
	SD	8.04716	0.50009	5.80390
	MIN,MAX	0.8625,46.309	0.5693,2.4550	0.5693,46.309
	Q1,Q3	1.1952,1.9387	1.0391,1.7338	1.1552,1.8330
	n	31	29	60
	Nmiss	184	180	364
BABY_BodyMass* (kg)-V9	Mean	9.68262	6.01111	7.91017
	Median	6.22815	6.10320	6.16140
	SD	19.4087	0.92006	13.9814
	MIN,MAX	4.8014,112.37	4.4105,8.0110	4.4105,112.37
	Q1,Q3	5.6061,6.5379	5.2742,6.5058	5.4949,6.5379
	n	30	28	58
	Nmiss	185	181	366

Section 7. Baby Anthropometry - Only Alive Births 7.2.3 Baby Ponderal Index at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal) # Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Baby ponderal index* -V8	Mean	2.60	2.67	2.63
	Median	2.53	2.61	2.56
	SD	0.41	0.50	0.46
	MIN,MAX	1.7,3.9	1.5,5.0	1.5,5.0
	Q1,Q3	2.3,2.8	2.4,2.9	2.3,2.9
	n	143	130	273
	Nmiss	77	84	161
Baby ponderal index* -V9	Mean	2.58	2.52	2.55
	Median	2.53	2.54	2.53
	SD	0.82	1.00	0.92
	MIN,MAX	0.0,8.9	0.0,9.8	0.0,9.8
	Q1,Q3	2.4,2.8	2.3,2.8	2.3,2.8
	n	124	124	248
	Nmiss	91	85	176

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 7. Baby Anthropometry - Only Alive Births 7.2.4 Baby Weight at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal)# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Weight* (g)-V8	Mean	3502.65	3455.18	3480.22	
	Median	3510.00	3437.50	3460.00	
	SD	561.32	545.08	553.32	
	MIN,MAX	1490.0,5060.0	2110.0,4900.0	1490.0,5060.0	
	Q1,Q3	3110.0,3860.0	3080.0,3820.0	3090.0,3850.0	
	n	163	146	309	
	Nmiss	57	68	125	
Baby Weight (g)-V9	Mean	6085.04	5971.97	6027.64	
	Median	6205.50	6075.00	6156.60	
	SD	1276.59	1724.20	1518.54	
	MIN,MAX	666.0,8883.0	90.2,12500	90.2,12500	
	Q1,Q3	5598.0,6845.0	5556.4,6735.0	5580.0,6795.0	
	n	128	132	260	
	Nmiss	87	77	164	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 7. Baby Anthropometry - Only Alive Births 7.2.5 Baby Lenght at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
Baby Length (cm)-V8	Mean	51.24	50.73	50.99	
	Median	51.90	50.50	51.00	
	SD	4.01	3.26	3.67	
	MIN,MAX	20.5,63.5	43.0,61.0	20.5,63.5	
	Q1,Q3	49.5,53.0	48.0,53.0	49.0,53.0	
	n	150	139	289	
	Nmiss	70	75	145	
Baby Length (cm)-V9	Mean	62.13	61.69	61.91	
	Median	62.00	62.00	62.00	
	SD	4.38	6.33	5.44	
	MIN,MAX	41.0,73.0	5.7,74.0	5.7,74.0	
	Q1,Q3	60.0,64.4	60.0,64.0	60.0,64.2	
	n	124	125	249	
	Nmiss	91	84	175	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.1 CRP - Visit 3 Randomisation (10-16 Weeks) and Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
CRP - V3 (mg/L)	Mean	11.11	10.70	10.90
	Median	9.00	9.00	9.00
	SD	7.39	6.85	7.12
	MIN,MAX	1.0,49.0	0.0,45.0	0.0,49.0
	Q1,Q3	6.0,15.0	5.0,14.0	5.5,15.0
	n	221	223	444
	Nmiss	2	3	5
CRP - V5 (mg/L)	Mean	10.65	9.78	10.23
	Median	9.00	8.00	8.00
	SD	7.41	6.54	7.01
	MIN,MAX	1.0,43.0	1.0,41.0	1.0,43.0
	Q1,Q3	5.0,14.0	5.0,13.0	5.0,13.1
	n	176	164	340
	Nmiss	47	62	109

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.1 CRP - Visit 6 (36 Weeks) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449	
CRP - V6 (mg/L)	Mean	9.20	7.47	8.36	
	Median	7.00	6.00	6.30	
	SD	7.10	4.62	6.08	
	MIN,MAX	1.0,51.3	1.0,29.0	1.0,51.3	
	Q1,Q3	5.0,12.0	4.3,10.0	5.0,11.0	
	n	150	140	290	
	Nmiss	73	86	159	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.1 Total Cholesterol - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Total Cholesterol - V3 (mmol/L)	Mean	4.87	4.88	4.87
	Median	5.00	4.90	4.95
	SD	1.15	1.09	1.12
	MIN,MAX	2.0,8.3	1.8,8.2	1.8,8.3
	Q1,Q3	4.2,5.7	4.1,5.5	4.1,5.6
	n	216	214	430
	Nmiss	7	12	19
Total Cholesterol - V6 (mmol/L)	Mean	6.32	6.33	6.32
	Median	6.40	6.40	6.40
	SD	1.44	1.74	1.59
	MIN,MAX	2.5,10.5	2.6,12.7	2.5,12.7
	Q1,Q3	5.5,7.3	5.5,7.3	5.5,7.3
	n	144	139	283
	Nmiss	79	87	166

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.2 HDL - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
HDL - V3 (mmol/L)	Mean	1.67	1.64	1.66
	Median	1.60	1.60	1.60
	SD	0.39	0.38	0.38
	MIN,MAX	0.9,3.6	0.0,3.2	0.0,3.6
	Q1,Q3	1.4,1.9	1.4,1.9	1.4,1.9
	n	215	214	429
	Nmiss	8	12	20
HDL - V6 (mmol/L)	Mean	1.70	1.76	1.73
	Median	1.70	1.71	1.70
	SD	0.38	0.43	0.41
	MIN,MAX	0.0,2.9	0.8,3.7	0.0,3.7
	Q1,Q3	1.4,1.9	1.5,2.0	1.4,2.0
	n	145	138	283
	Nmiss	78	88	166

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.3 LDL - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Int	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
LDL - V3 (mmol/L)	Mean	2.91	2.89	2.90
	Median	2.84	2.81	2.81
	SD	0.78	0.86	0.82
	MIN,MAX	1.1,5.1	0.0,6.0	0.0,6.0
	Q1,Q3	2.3,3.5	2.3,3.4	2.3,3.4
	n	194	191	385
	Nmiss	29	35	64
LDL - V6 (mmol/L)	Mean	3.57	3.77	3.67
	Median	3.50	3.60	3.60
	SD	1.13	1.25	1.19
	MIN,MAX	0.0,6.8	1.8,9.2	0.0,9.2
	Q1,Q3	2.8,4.3	2.9,4.4	2.8,4.4
	n	126	118	244
	Nmiss	97	108	205

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.4 Triglycerides - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Triglycerides - V3 (mmol/L)	Mean	1.51	1.43	1.47
	Median	1.40	1.30	1.40
	SD	0.53	0.56	0.55
	MIN,MAX	0.5,4.0	0.5,3.7	0.5,4.0
	Q1,Q3	1.1,1.8	1.0,1.6	1.1,1.8
	n	216	214	430
	Nmiss	7	12	19
Triglycerides - V6 (mmol/L)	Mean	2.79	2.76	2.77
	Median	2.70	2.69	2.70
	SD	0.84	0.88	0.86
	MIN,MAX	0.9,5.8	1.3,6.7	0.9,6.7
	Q1,Q3	2.1,3.3	2.1,3.2	2.1,3.2
	n	146	140	286
	Nmiss	77	86	163

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.3 CRP, Cholesterol, HDL, LDL and Triglycerides - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
CRP_log_Visit6 - itt	2.023	0.0931	150	1.872	0.0879	140	-0.151	-0.297	-0.005	4.118	0.0434
Cholesterol_log_Visit6 - itt	1.780	0.0321	144	1.784	0.0302	139	0.004	-0.047	0.055	0.025	0.8751
HDL_Visit6# - itt	1.770	0.0576	145	1.821	0.0544	138	0.051	-0.040	0.142	1.206	0.2730
LDL_log_Visit6\$ - itt	1.160	0.0548	125	1.221	0.0508	118	0.062	-0.018	0.141	2.346	0.1270
Triglycerides_log_Visit6 - itt	0.968	0.0439	146	0.960	0.0413	140	-0.007	-0.077	0.062	0.045	0.8327

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26

By: Aryelly Rodriguez - ECTU Statistician

Summary statistics are presented in tables 8.1 to 8.2 of this report

Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05

Estimated mean represents the adjusted mean of the non-transformed or log transformed variable by allocated treatment,

SE represents standard error of the estimated means or log transformed means and N represents number of observations

*Represents the difference between the estimated means or log transformed means and CI Represents the 95% confidence interval

Calculations and detailed analysis are presented in study file 'Empowar_5_4_other_labs_analysis_v6.lst'

#NOTE:HDL was not log transformed for the analysis

\$NOTE:LDL has a value of 0 for patient 16052, this values was set to missing in the log transformation of the parameter

All parameters shown normal or near-normal behavior

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.1 Glucose and Insuling in the umbilical cord - Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Glucose Cord - V8 (mmol/L)	Mean	3.89	4.06	3.97
	Median	3.70	3.80	3.80
	SD	1.24	1.08	1.16
	MIN,MAX	1.4,7.6	1.6,7.0	1.4,7.6
	Q1,Q3	3.0,4.6	3.2,4.9	3.1,4.8
	n	79	74	153
	Nmiss	144	152	296
Insulin Cord - V8 (mIU/mI)	Mean	10.95	11.41	11.20
	Median	9.89	9.26	9.45
	SD	7.49	8.80	8.20
	MIN,MAX	2.0,32.7	2.0,42.9	2.0,42.9
	Q1,Q3	5.6,14.4	5.2,16.3	5.3,15.2
	n	47	57	104
	Nmiss	176	169	345

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.2 HOMA-IR AND CRP in the umbilical cord - Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
HOMA-IR Cord - V8 (mIU/mI)	Mean	1.92	1.91	1.91
	Median	1.81	1.48	1.59
	SD	1.39	2.00	1.72
	MIN,MAX	0.3,6.7	0.2,12.0	0.2,12.0
	Q1,Q3	0.9,2.3	0.7,2.6	0.7,2.5
	n	38	41	79
	Nmiss	185	185	370
CRP - V8 (mmol/L)	Mean	4.32	2.36	3.37
	Median	1.00	1.00	1.00
	SD	19.55	2.29	14.13
	MIN,MAX	0.1,173.8	0.2,11.0	0.1,173.8
	Q1,Q3	1.0,5.0	1.0,5.0	1.0,5.0
	n	78	73	151
	Nmiss	145	153	298

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.3 Glucose, Insuling and HOMA-IR in the umbilical cord - Visit 8 (Delivery) - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Metf	ormin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Glucose_cord_log_Visit_8* - itt	1.243	0.0550	79	1.308	0.0513	74	0.065	-0.027	0.157	1.961	0.1637
Insulin_cord_log_Visit_8* - itt	1.992	0.1884	47	2.050	0.1654	57	0.058	-0.265	0.381	0.127	0.7220
HOMA_cord_log_Visit_8* - itt	0.141	0.2009	38	0.154	0.1756	41	0.012	-0.355	0.380	0.004	0.9473

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in tables 9.1 to 9.2 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_9_1_Neonatal_cord_blood.lst' All parameters shown normal or near-normal behavior

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.4 CRP in the umbilical cord - Visit 8 (Delivery)* - Statistical Analysis - POST-HOC Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Parameter(s)	Studied effects	P-value Wilcoxon Test (Two-sided)	P-value Wilcoxon t Approx (Two-sided)	P-value Kruskal-Wallis Test
CRP_CORD_VISIT_8_itt	Non_parametric_test_metformin_vs_placebo*	0.7411	0.7416	0.7411

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 Summary statistics are presented in table 9.2 of this report *This variable was non-normal and the lack of normality could not be corrected. Therefore Non-parametric testing results are presented. Significance level set at p<0.05 Calculations and detailed analysis are presented in study file 'Empowar_9_1_Neonatal_cord_blood.lst'

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any SAE (n)#	Missing	1	4	5
	Yes	45 (20.3)	45 (20.3)	90 (20.3)
	No	177 (79.7)	177 (79.7)	354 (79.7)
Any Hypertension (n)	Missing	1	5	6
	Yes	14 (6.3)	21 (9.5)	35 (7.9)
	No	208 (93.7)	200 (90.5)	408 (92.1)
Any Preeclampsia (n)	Missing	1	5	6
	Yes	3 (1.4)	7 (3.2)	10 (2.3)
	No	219 (98.6)	214 (96.8)	433 (97.7)
Any Eclampsia (n)	Missing	1	5	6
	Yes	1 (0.5)	1 (0.5)	2 (0.5)
	No	221 (99.5)	220 (99.5)	441 (99.5)
Any MembraneRupture (n)	Missing	1	5	6
	Yes	6 (2.7)	5 (2.3)	11 (2.5)
	No	216 (97.3)	216 (97.7)	432 (97.5)

 EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26
 By: Aryelly Rodriguez - ECTU Statistician

 N = number of patients randomised, n = number of observations
 #This value comes from the 'CRF - Complications' and it is different from the value presented in 13.1.1.1 that comes from 'SAE form'

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Allocated_I			ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any PretermLabour (n)#	Missing	1	5	6
	Yes	6 (2.7)	13 (5.9)	19 (4.3)
	No	216 (97.3)	208 (94.1)	424 (95.7)
Any Haemorrhage (n)	Missing	1	5	6
	Yes	12 (5.4)	8 (3.6)	20 (4.5)
	No	210 (94.6)	213 (96.4)	423 (95.5)
Any DVT (n)	Missing	1	5	6
	Yes	3 (1.4)	2(0.9)	5 (1.1)
	No	219 (98.6)	219 (99.1)	438 (98.9)
Any Gestational Diabetes (n)	Missing	1	5	6
	Yes	29 (13.1)	22 (10.0)	51 (11.5)
	No	193 (86.9)	199 (90.0)	392 (88.5)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations #This value comes from the 'CRF - Complications' and it is different from the value presented in 4.1.1.1 that comes from 'CRF - delivery'

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any Other Mother Complication (n)	Missing	1	4	5
	Yes	62 (27.9)	65 (29.3)	127 (28.6)
	No	160 (72.1)	157 (70.7)	317 (71.4)
Any Other Mother Complication cat* (n)	Missing	0	1	1
	Infection	20	15	35
	Mood disturbance	4	6	10
	Musculoskeletal	12	16	28
	PV bleed <24 weeks gestation	5	5	10
	Obstetric cholestasis	9	5	14
	Miscellaneous	22	23	45
	Data captured elsewhere	43	38	81

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication The complications were categorised by the study team

Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject	Allocated	Other Maternal Complications		
Number	Treatment	(Y/N)	TimepointID	Other Maternal Complications Details
11136	METFORMIN	Yes	VISIT 8 (DELIVERY)	placental abruption
11315	METFORMIN	Yes	VISIT 8 (DELIVERY)	3rd degree tear
11317	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	cerebral venous sinus thrombosis
11317	METFORMIN	Yes	VISIT 8 (DELIVERY)	cerebral sinus thombosis
11325	METFORMIN	Yes	VISIT 5 (28 WEEKS)	antenatal depression
11501	METFORMIN	Yes	VISIT 6 (36 WEEKS)	hospital admission with RUQ pain and deranged LFT, resolved spontaneously
11551	METFORMIN	Yes	VISIT 5 (28 WEEKS)	exacerbation of asthma requiring oral stanoids
11657	METFORMIN	Yes	VISIT 5 (28 WEEKS)	UTI early pregnancy. Also just completed antibiotics and staroids for chest infection
11657	METFORMIN	Yes	VISIT 8 (DELIVERY)	Increased liquor volume
11686	METFORMIN	Yes	VISIT 8 (DELIVERY)	Breast cancer
11716	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Mild SPD
11748	METFORMIN	Yes	VISIT 6 (36 WEEKS)	UTI
11748	METFORMIN	Yes	VISIT 7 (TERM)	Sepsis secondary to masilia
11748	METFORMIN	Yes	VISIT 8 (DELIVERY)	UTI SAE forms previously sent
11797	METFORMIN	Yes	VISIT 6 (36 WEEKS)	excessive vontiling in late pregnancy
11842	METFORMIN	Yes	VISIT 8 (DELIVERY)	Raised ALT
11881	METFORMIN	Yes	VISIT 8 (DELIVERY)	severe urosepsis
11916	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	contacted Lucy who reported she has been in hospital with kidney inflection and was on abx. No note in electronic medical record.
12001	METFORMIN	Yes	VISIT 7 (TERM)	Sweling of hands and feet
12001	METFORMIN	Yes	VISIT 8 (DELIVERY)	oedema
12008	METFORMIN	Yes	VISIT 8 (DELIVERY)	Post Partum haemorrhage, 2000ml
12018	METFORMIN	Yes	VISIT 8 (DELIVERY)	EBL 600 mls
12099	METFORMIN	Yes	VISIT 8 (DELIVERY)	3rd degree tear,
13016	METFORMIN	Yes	VISIT 7 (TERM)	Seen in assessment room last week with headache and visual disturbances. Migrane diagnosed. Discharged home with paracetamol and codine.
13047	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	After a week of medication, reports severe vomitting and diarrheea, lasting a week. Has been off work for a week, doesn't wish to reccomence drugs.
13047	METFORMIN	Yes	VISIT 8 (DELIVERY)	IOL FOR FACTOR 5 LEIDENS
13082	METFORMIN	Yes	VISIT 8 (DELIVERY)	PYREXIA IN LABOUR
13111	METFORMIN	Yes	VISIT 8 (DELIVERY)	IOL FOR CHOLESTASIS ALSO HAD GESTATIONAL DIABETES, COMMENCED ON METFORMIN BY DIABETES TEAM AT 30WEEKS. TOOK METFORMIN 1,000MG BD UNTILL DELIVERY. ALSO COMMENCED ON INSULIN FROM 31WKS.
13147	METFORMIN	Yes	VISIT 6 (36 WEEKS)	cervical bleeds frequently throughout pregnancy. no addmissions.
13209	METFORMIN	Yes	VISIT 6 (36 WEEKS)	HAD VIRAL INFECTION 2 WEEKS AGO LASTING A FORTNIGHT. RESULTED IN PRODUCTIVE COUGH, FOLLOWED MODERATE VOMITTING AND DIARROHEA.
13248	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	ADMITTED TO WARD VIA EMERGENCY ROOM FOR ABDO PAIN, DISCHARGED AFTER 2DAYS, DIAGNOSIS - IBS.
13305	METFORMIN	Yes	VISIT 6 (36 WEEKS)	SPD PAIN. ON COCODAMOL
13378	METFORMIN	Yes	VISIT 5 (28 WEEKS)	UTI CAUSED SEVERE HEADACHES. CLEARED AFTER COURSE OF ANTIBIOTICS.
13378	METFORMIN	Yes	VISIT 8 (DELIVERY)	Fatty deposits noted on placenta, samples taken for histology by delivery midwife, but enable to process as incorrectly sampled and stored
13493	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Attended A+E for feeling dizzy, palpitations, breathiess and tight chest. Reports ECG and all investigations found to be normal. No treatment or follow up required. Discussed with Dr Weeks and advised doesn't meet criteria of SAE, hospitalisation was for <12 hours

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations

Section 10. Adverse Outcome

10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject	Allocated	Other Matemal Complications		
Number	Treatment	(Y/N)	TimepointID	Other Matemal Complications Details
13551	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH of 5000ml followed by total hysterectomy
13780	METFORMIN	Yes	VISIT 8 (DELIVERY)	UNDIAGNOSED LOW LYING PLACENTA AT CS. BLOOD LOSS 1400MLS. NEEDED BLOOD TRANSFUSION AFTER CS.
14035	METFORMIN	Yes	VISIT 6 (36 WEEKS)	ALT result from today 95IU/LNo symptoms of PET/HELPP or Obstetric Cholestasis
14035	METFORMIN	Yes	VISIT 8 (DELIVERY)	Induced due to upper right abdominal and increased LFT's ? cause
14039	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Has had x1 episode of PV bleeding and mild abdominal pain @ 30+4. Admitted overnight, no further PV Loss. Also had viral illness 1 week ago, no treatment.
14039	METFORMIN	Yes	VISIT 7 (TERM)	B/P Slighty elevated. One episode of PV spotting
14039	METFORMIN	Yes	VISIT 8 (DELIVERY)	Pregnancy Induced Hypertension
14161	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH 1500ml
14303	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH 1200mls
14305	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Matemal UTI
14417	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Feeling faint on occasions when working
15012	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	has had small pv bleed as history of cervical polyps all well
15027	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Itching All blood tests NAD
16029	METFORMIN	Yes	VISIT 6 (36 WEEKS)	abdo pain ?SPD (admission) plus triage assessment for reduced fetal movements
16029	METFORMIN	Yes	VISIT 7 (TERM)	Abdo pain admission on 03.09.2012 (SAE) plus Raised ALT on 3 occasions ?obstetric choleostatsis asymptomatic
16029	METFORMIN	Yes	VISIT 8 (DELIVERY)	Abdo pain (SAE) plus raised ALT, IOL for Obstetric Choleostasis
16054	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Abdo pain and pinkish pv loss
16121	METFORMIN	Yes	VISIT 6 (36 WEEKS)	pyelonsphritis
17138	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Palpitations, seen in hospital assessment unit but discharged home without admission. Normal ECG and Normal CTG.
21015	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Attended Day Unit 4/9/13 33+4 with brown pv discharge post collal.
21015	METFORMIN	Yes	VISIT 7 (TERM)	Questions asked in retrospect once delivered as unable to contact. Unsure when stopped tablets.
21015	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH following birth.Hb 63glf.Had 2 units of blood.Hb 63glf post transfusion.Didnt cause prolonged hospitalisation.
21034	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Indigestion since 22 weeks resolved with use of gaviscon
21034	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Acupuncture for back/hip pain. Broke coccyx 5 years ago
21037	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Sweating
21037	METFORMIN	Yes	VISIT 7 (TERM)	Green vaginal discharge today High vaginal swab obtained.
21039	METFORMIN	Yes	VISIT 8 (DELIVERY)	Matemal tachycardia post delivery. IV fluids & antibiotics given. Ragged membranes.
21042	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Hearburn. Using gaviscon. Awaiting preciption of ranitidine
21042	METFORMIN	Yes	VISIT 5 (28 WEEKS)	07/09/2013 self referral to maty ward feeling dizzy. 21/09/2013 7SROM HVS showed Group B Strep. On last day of Amoxycillin treatment loday. Gestational diabetes loday. Attending for glucometer tomorrow
21042	METFORMIN	Yes	VISIT 7 (TERM)	Group B Step diagnosed in pregnancy.
21042	METFORMIN	Yes	VISIT 8 (DELIVERY)	Induction of labour for gestational diabetes. Group B Strep identified in pregnancy.
21064	METFORMIN	Yes	VISIT 5 (28 WEEKS)	UTI 21/10/13 cephatexin tds for 5 days taken.
21064	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Right sided abdo pain on 2 occasions 15 & 22/11/13 been fine since.
21064	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD
21070	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Lower backache has appt with physic on 8/10/13

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Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

0.1/1.1	All A I	Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Matemat Complications Details
21070	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Symphisis Publis Disfunction-physio input
21070	METFORMIN	Yes	VISIT 6 (36 WEEKS)	SPD
21070	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD-S/B Physio & had acupuncture.
21074	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Backache 16+ weeks saw GP & resolved a few days later
21074	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Wort on finger.
21074	METFORMIN	Yes	VISIT 6 (36 WEEKS)	liching on legs, had same prior to pregnancy. Wort on finger.
21074	METFORMIN	Yes	VISIT 7 (TERM)	03/02/14 headache for 24 hours.Stated on antibiotics as ?UTI. Normal MSSU so stopped taking. Only took 1 tablet.
21074	METFORMIN	Yes	VISIT 8 (DELIVERY)	26/2/14 perineal infection fluckycillin commenced orally at home.
21081	METFORMIN	Yes	VISIT 7 (TERM)	Taking fluxetine for depression.
21081	METFORMIN	Yes	VISIT 8 (DELIVERY)	On fuozetine.
21082	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	20/10/13 attended primary care/gynae feeling unwell ?bod poisoning/papatations normal investigations. Some low mood/depression.
21082	METFORMIN	Yes	VISIT 6 (36 WEEKS)	3/1/14 29+4 episode of raised BP setted. 30/1/14 33+3 antibiotics for UTL
21082	METFORMIN	Yes	VISIT 7 (TERM)	Some hypertension-settled now.
21082	METFORMIN	Yes	VISIT 8 (DELIVERY)	Pyrexial in labour/matemat tachycardia. IV paracetamol required.
21089	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Several symptoms feels were associated with tablet use, therefore stopped taking. Last dose taken 25/10/13.
21089	METFORMIN	Yes	VISIT 7 (TERM)	Admission to matemity Ward with hypermesis for over 12 hours.
21089	METFORMIN	Yes	VISIT 8 (DELIVERY)	Anaemic post delivery. Taking ferrous sulphate tablets.
21095	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Started citalopram for depression on 04/11/13.
21095	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Lower back discomfort sees physio.
21095	METFORMIN	Yes	VISIT 8 (DELIVERY)	On eltalogram for depression
21099	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Tooth abcess so had to reduce tablets one day.
21099	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Eleveated BP today for close monitoring. Occasionally takes Co-dydramol for backache. Physiolacupuncture unsucessful.
21099	METFORMIN	Yes	VISIT 8 (DELIVERY)	Raised blood pressure
21111	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Small pv bleed 08/12/13 19+ weeks. Investigations NAD. Not admitted to Gynae.
21111	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Upper abdominal disconfort for 4-5 weeks on and off.
21111	METFORMIN	Yes	VISIT 7 (TERM)	Amoxycillin 500mgs TDS for suspected chest infection.
21125	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Occasional light headedness. Normal Hb.
21127	METFORMIN	Yes	VISIT 5 (28 WEEKS)	SPD on crutches seeing physio.
21127	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Seeing physio & having acupuncture for hip pain.
21127	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD/Hip pain. Has seen physiothad crutches/acupuncture.
21128	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Backache & sciatica
21128	METFORMIN	Yes	VISIT 8 (DELIVERY)	Poslpartum haemonhage.
25180	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Two separate overnight admissions mid June first time with ?pyelonephritis and second time with pain ?due to gall-stones found at time on ultrasound scan
25264	METFORMIN	Yes	VISIT 5 (28 WEEKS)	obstetic cholestasis
25382	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	danhoea

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Section 10. Adverse Outcome

10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
25459	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Right Adrexal ovarian cyst
25459	METFORMIN	Yes	VISIT 8 (DELIVERY)	Induction of labour due to pain from known ovarian cyst
27317	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	stornach cramps & backache.
53059	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Had contact with nephew with chicken pox and does not have immunity. Therefore had to attend for immunoglobulin
11081	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	on going hyperemesis requiring antiematic (predates trial)
11262	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Borderline raised ALT
11262	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Raised ALT, probable obstetric cholestasis but advised to stop treatment for 2 weeks and then we will repeat ALT
11262	PLACEBO	Yes	VISIT 6 (36 WEEKS)	obstetric cholestasis
11262	PLACEBO	Yes	VISIT 8 (DELIVERY)	obstetic cholestasis
11263	PLACEBO	Yes	VISIT 6 (36 WEEKS)	APH-admitted for 24 hours at 34 weaks gestation following minimal PVB. No cause found
11263	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH
11323	PLACEBO	Yes	VISIT 8 (DELIVERY)	3rd degree Isar (3a)
11397	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	occasional mild palpitations, experienced this in previous pregnancy
11411	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	aware of palpitations
11443	PLACEBO	Yes	VISIT 6 (36 WEEKS)	ilch-possible obstetric cholestasis
11643	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Hospitalised for abdominal pain at 25 weeks, found to have c. diff. Treated for this and then experienced very painful haemorthoids. Stepped taking study medication, but happy to continue with GTT and other data collection.
11693	PLACEBO	Yes	VISIT 8 (DELIVERY)	Obstetric cholestasis
11725	PLACEBO	Yes	VISIT 7 (TERM)	SPD
11940	PLACEBO	Yes	VISIT 6 (36 WEEKS)	currently on prednisolone for chest infection
11940	PLACEBO	Yes	VISIT 8 (DELIVERY)	Hospitalised due to chest infection.
12019	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Thrush
12020	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Earlinfection/vertigo
12020	PLACEBO	Yes	VISIT 5 (28 WEEKS)	verigo
12020	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH 1500 - 2500 mls
12021	PLACEBO	Yes	VISIT 5 (28 WEEKS)	2504/2012 In triage for UTI. Sent home with trimetheprim.
12065	PLACEBO	Yes	VISIT 8 (DELIVERY)	Diet controlled GDM
12074	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted with pv bleed
12092	PLACEBO	Yes	VISIT 8 (DELIVERY)	Pyrexia. Treated with iv antibiotics.
13007	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Was weepy when increased does to 4 tablets at week 4. Therefore has decreased to 2 tablets daily. Not having weepiness any longer, suggested trying to increase to TDS, - will try, but not willing to increase does further. 4/3/1
13015	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	has had hyperemisis since randomisation untill now and not commenced on study medication.
13015	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Hyperemesis from 12-22wks. No hospital addmission. Unable to take study drugs due to sickness.
13058	PLACEBO	Yes	VISIT 6 (36 WEEKS)	vomling and feeling very unwell migraines increasingly worse
13144	PLACEBO	Yes	VISIT 5 (28 WEEKS)	SYMPHISIS PUBIS DISORDER
13144	PLACEBO	Yes	VISIT 7 (TERM)	Has had fainting episodes for past 6 weeks. Now has IOL booked for 38wks due to this. Reports has had several addmissions with raised blood pressure and protein urea.
13144	PLACEBO	Yes	VISIT 8 (DELIVERY)	Reported frequent fainting episodes. not investigated, occassional episodes of raised BP, BP profile NAD. IOL on request in view of repeaded fainting.

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Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

0.4/	All	Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
13217	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Hip pain due to looseness in joint. Under physio. Not on medication.
13217	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH, HAD 0X/TOCIC DRUGS
13301	PLACEBO	Yes	VISIT 5 (28 WEEKS)	HAD COLLAPSE WHEN OUT SHOPPING, ADVISED TO STOP MEDICATION AS GLUCOSE LEVEL WAS REPORTED TO BE LOW WHEN CHECKED AT GP.
13301	PLACEBO	Yes	VISIT 8 (DELIVERY)	Intrapartum heemmorhage and postnatal heemorrhage total = 2000ml
13380	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	14mgs cetalopram seeing pysc assessment. Had already been on this dose before preganancy, but may need to increase.
13504	PLACEBO	Yes	VISIT 8 (DELIVERY)	Prolonged rupture of membranes for 98 hours, sepsis
13591	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Fell on the bus when it stopped suddenly. Had small pv bleed, attended hospital for anti d, but was not admitted and not for any follow up. As reports fall was due to bus stopping suddenly and no episodes of dizziness or feeling faint not an SAE.
13667	PLACEBO	Yes	VISIT 8 (DELIVERY)	IOL FOR SPD PPH 1200ML
13712	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Obstetric Choleostasis
13712	PLACEBO	Yes	VISIT 8 (DELIVERY)	cholostais
14036	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	PV spotting diagnosed as thrush by GP
14036	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Seen in Triage 11/10/11. CiO Tightenings, Abdominal pain, moderate Symphysis Pubis disfunction. Diagnosed with UTI and given analgesics and antibiotics.
14036	PLACEBO	Yes	VISIT 8 (DELIVERY)	Matemal Post Parlum Haemonthage
14037	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Anaemia taking Ferrous Fumerate BD
14037	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Matemal Obstetric Cholestasis
14037	PLACEBO	Yes	VISIT 8 (DELIVERY)	Induced due to Matemal Obstetric Cholestasis
14061	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Vral liness
14061	PLACEBO	Yes	VISIT 8 (DELIVERY)	Matemal Intracrannial Hypertension
14089	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Attended Triage 26.04.12 - Abdo pain, D&V. Not admitted. ?Viral gastroentertils.
14145	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted to Leeds General Infirmary. Reported on 07/09/12
14205	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Double vision. Currently under investigation by eye clinic.
14270	PLACEBO	Yes	VISIT 8 (DELIVERY)	suspected Choricemnilits.
14272	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Severe headache requiring hospitalistation and investigation 18.04.13
14336	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Seen by SHO in Triage 13.09.13 re abdominal pain. Now resolved ?viral ententits
14336	PLACEBO	Yes	VISIT 8 (DELIVERY)	see SAE
14354	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Ovarian cyston right ovary diagnosed
14354	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted with small APH and tightenings for 5 days - SAE completed 22.12.13
14413	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Abdominal pain 03.10.13 Seen In Early Pregnancy Assessment Centre
15010	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	metallic taste
15010	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Has some liching bile acids nad
15028	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Admitted to assessment centre and for PPROM on 140413 admitted for less than 12hours Seen by Mr Simm consultant who advised Research Midwife. For conservative management at the moment. For further scans on Thursday 18th April. Admitted as inpatient on Thursday 18th April with confirmed prom and oligohydramnious.
15028	PLACEBO	Yes	VISIT 5 (28 WEEKS)	As stated earlier Prem rupture of Membranes
16052	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH 1800ml
17036	PLACEBO	Yes	VISIT 7 (TERM)	hospital admission as had flu
17036	PLACEBO	Yes	VISIT 8 (DELIVERY)	raised ALT liver scan

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Section 10. Adverse Outcome

10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complexitions Details
17137	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Costochondrijis
17137	PLACEBO	Yes	VISIT 8 (DELIVERY)	Costorhondhiis
21010	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Persistent glycosufia between 28+ and 35+ weeks gestation. Normal GTTs.
21018	PLACEBO	Yes	VISIT 5 (28 WEEKS)	pv bleed before 16 weeks gestation, prior to commencing tablets. Hospitalised for observation discharged within 12 hours.
21018	PLACEBO	Yes	VISIT 6 (36 WEEKS)	49/13 32+6 shortness of bread/spalplations. Investgations normal.
21018	PLACEBO	Yes	VISIT 7 (TERM)	Various episodes of reduced fetal movements see on MDCU had CTGs. His papatations normal investigations.
21018	PLACEBO	Yes	VISIT 8 (DELIVERY)	Diffcult caesarean section.
21038	PLACEBO	Yes	VISIT 8 (DELIVERY)	Readmitted via ambulance 29/12/13 pv bleedlabdo pain. Stayed in hospital for less than 12 hours. No SAE required.
21044	PLACEBO	Yes	VISIT 6 (36 WEEKS)	pyogenic granuloma on finger of left hand. Had x2 doses of fluctoxycillin.UTI cephalexin for 1 week.
21047	PLACEBO	Yes	VISIT 5 (28 WEEKS)	20+4 (3-4/9/13) brief episode in A&E pain from gall stones settled after morphine discharged home after few hours.
21069	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Antibiotics for 1 week for ear infection 05/09/13
21069	PLACEBO	Yes	VISIT 5 (28 WEEKS)	UTI treated with celalexin.
21069	PLACEBO	Yes	VISIT 8 (DELIVERY)	Sepsis in labour SAE form completed as prolonged hospitalisation.
21077	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Attended A&E with abdo pain 28/9/13
21077	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Headaches. Community Midwife advised to stop taking tablets on 23/8/13.
21077	PLACEBO	Yes	VISIT 6 (36 WEEKS)	5/12/13.29+2 GP referral c/o headache/oedema/episode of palpitations/?fainting episode. Investigations NAD.
21077	PLACEBO	Yes	VISIT 7 (TERM)	Feeling generally unwell.
21078	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Hb low for oral iron
21078	PLACEBO	Yes	VISIT 6 (36 WEEKS)	16/1/14 episode of reduced fetal movements. CTG NAD.
21078	PLACEBO	Yes	VISIT 7 (TERM)	On ferrous sulphate tablets as anaemic since last visit.
21093	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Small antepartum haemorthage. Overnight stay on matemity ward for over 12 hours.
21093	PLACEBO	Yes	VISIT 6 (36 WEEKS)	28/12/13 sight pv bleeding no admission. 24/1/14 Antibiotics for bacterial vaginosis & canestan for thrush. 3/2/14 brief isolated episode of raised BP settled on day unit no admission.
21093	PLACEBO	Yes	VISIT 8 (DELIVERY)	Raised BP in labour
21100	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	28/10/13 thrush detected.Prescription off GP.
21100	PLACEBO	Yes	VISIT 6 (36 WEEKS)	UTI on MSSU 17/01/14 treated with cefatexin.
21100	PLACEBO	Yes	VISIT 7 (TERM)	UTI-commenced Trimethroprim BD for 3 days on 31/2/14.
21100	PLACEBO	Yes	VISIT 8 (DELIVERY)	Antepartum haemorthage 1200mis. Manual removal of placenta & postpartum haemorthage of 800mis. Blood transfusion.
21109	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Heartburn. Day Unit Visit 16/12/13 abdo pain.
21109	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted over 12 hours with UTI. Oral antibiolics/steroids/ferrous sulphate.SAE form completed & faxed to Sponsors.
21109	PLACEBO	Yes	VISIT 7 (TERM)	Admitted for 2 nights on 03/4/14 with lower abdo discomfort, braxton hicks, red pv loss, unstable lie.
21109	PLACEBO	Yes	VISIT 8 (DELIVERY)	Admitted with lower abdo discomfort, red pv loss, Braxton Hicks,unstable lie 03/4/14
21122	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Prolonged nausea.
21122	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Prolonged nausea
21122	PLACEBO	Yes	VISIT 7 (TERM)	Musculoskeletal pain/SPD. Group B Strep positive.
21122	PLACEBO	Yes	VISIT 8 (DELIVERY)	SPD/musculoskeletal pain. Group B Strep positive.

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Section 10. Adverse Outcome

10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
21133	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Feels down.
21133	PLACEBO	Yes	VISIT 5 (28 WEEKS)	25/2/14 tonsilitis/viral infection treated with penecilin.
21133	PLACEBO	Yes	VISIT 6 (36 WEEKS)	11/4/14 & 23/5/14 admissions for likely costochondritis.
21133	PLACEBO	Yes	VISIT 7 (TERM)	Symphisis Pubis Dystunction. Taking Co-Codemol.
21133	PLACEBO	Yes	VISIT 8 (DELIVERY)	SPD. Hypertension in labour.
24035	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	In last 48 hours has suffered with nausea and vomiting; high level stomach pains that radiate down her sides and into her back - above her bra strap; and headache. These symptoms she has had only for last 48 hours??viral
25100	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	severe headaches on the medication that the P.I. has reported as an SAE, headaches stopped when medication was suspended. P.I has recommended stopping medication completly
25100	PLACEBO	Yes	VISIT 6 (36 WEEKS)	symphius publis dysfunction requiring a few days of bed rest in hospital
25100	PLACEBO	Yes	VISIT 7 (TERM)	depression, symphius public dysfunction
25165	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH 2.5L
25391	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	brownigneen pv loss on 2.11.13. pv spotling on 12.11.13. HVS group B streptococcus.
25391	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Abdominal pain ?cause
25391	PLACEBO	Yes	VISIT 7 (TERM)	depression and musculoskeletal pain
53014	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	has had pensistant cough since sept. Has seen own doctor (GP, had course of antibiotics. Also seen at general hospital advised re inhalers and improved with this (as is asthmatic)

Section 10. Adverse Outcome

10.1.3.1 Maternal Complications - Hypertension - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of A	ANY_HYPER by	AllocatedTre	eatment					
			Treatment(Allo Treatment)	ocated					
	ANY_HYPER	METFORMIN	PLACEBO	То	tal				
	Missing	5	1						
	No	200	208	4	08				
	Yes	21	14		35				
	Total	221	222	4	43				
		Frequency Mi	ssing = 6						
						Lower 95% Confidence	Upper 95% Confidence		
							Limit far Odda		Fisher
Parameter((s)	Studie effect			Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
ANY_HYPE	R_itt AllocatedT	reatment METF	ORMIN vs PL	ACEBO	1.560	0.772	3.152	0.2155	0.2232

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is ANY_hyper='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_10_1_1_Npatients_hypertension_analysis.lst'

Section 10. Adverse Outcome

10.1.3.2 Maternal Complications - Preeclampsia - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of J	ANY_Preecla by	AllocatedTrea	atment	_				
			Treatment(Allo Treatment)	cated					
	ANY_Preecla	METFORMIN	PLACEBO	Tota	1				
	Missing	5	1		_				
	No	214	219	433					
	Yes	7	3	10	I				
	Total	221	222	443					
		Frequency Mi	ssing = 6		_				
						Lower 95% Confidence	Upper 95% Confidence		
					Odds	Limit	Limit		Fisher
Parameter((s)	Studie effect		l	Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value
ANY_Preecla	a_itt Allocated1	reatment METF	ORMIN vs PLA	ACEBO	2.388	0.609	9.355	0.2116	0.2207

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is ANY_preecla='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 10 1 1 Npatients preeclamp analysis.lst'

Section 10. Adverse Outcome

10.2.1 Fetal Complications* - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any Fetal Complication (n)	Missing	1	5	6
	Yes	47 (21.2)	43 (19.5)	90 (20.3)
	No	175 (78.8)	178 (80.5)	353 (79.7)
Fetal AC (n)	Missing	221	226	447
	No	2	0	2
Fetal Liquor (n)	Missing	158	173	331
	Yes	6	3	9
	No	59	50	109
Fetal Doppler (n)	Missing	159	174	333
	Yes	0	1	1
	No	64	51	115
Fetal Absent EDF (n)	Missing	160	175	335
	Yes	2	0	2
	No	61	51	112

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication

Section 10. Adverse Outcome 10.2.1 Fetal Complications* - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery)(Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Categories	Placebo N=223	Metformin N=226	Overall N=449
Missing	160	175	335
No	63	51	114
Missing	157	175	332
Yes	14	11	25
No	52	40	92
Missing	152	159	311
Yes	32	35	67
No	39	32	71
Data captured elsewhere	19	22	41
Meconium stained liquor	4	5	9
Miscellanous	2	3	5
Polyhydramnios	3	3	6
Reduced fetal movements	7	10	17
Shoulder dystocia	2	0	2
	No Missing Yes No Missing Yes No Data captured elsewhere Meconium stained liquor Miscellanous Polyhydramnios Reduced fetal movements	No63No63Missing157Yes14No52Missing152Yes32No39Data captured elsewhere19Meconium stained liquor4Miscellanous2Polyhydramnios3Reduced fetal movements7	No 63 51 No 63 51 Missing 157 175 Yes 14 11 No 52 40 Missing 152 159 Yes 32 35 No 39 32 Data captured elsewhere 19 22 Meconium stained liquor 4 5 Miscellanous 2 3 Polyhydramnios 3 3 Reduced fetal movements 7 10

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication #The complications were categorised by the study team

Section 10. Adverse Outcome 10.2.2 Fetal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Fetal Complications Other (Y/N)	TimepointID	Fetal Complications Other Details
11078	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	abnormal anomaly scan - probable CCAM
11078	METFORMIN	Yes	VISIT 6 (36 WEEKS)	USS 26/10/11: large left sided CCAM with mediastinal shift.
11078	METFORMIN	Yes	VISIT 8 (DELIVERY)	baby known antenatally to have CCAM
11557	METFORMIN	Yes	VISIT 8 (DELIVERY)	reduced fetal movements and clinically felt to be small for dates although growth scan normal
11566	METFORMIN	Yes	VISIT 8 (DELIVERY)	Baby required resuscitation at delivery
11880	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	unknown cause of IUD detected at FAS
11880	METFORMIN	Yes	VISIT 8 (DELIVERY)	Fetal death diagnosed at 20 weeks
12001	METFORMIN	Yes	VISIT 8 (DELIVERY)	macrosomia
12006	METFORMIN	Yes	VISIT 8 (DELIVERY)	confirmed IUD on 10/02/2012
12018	METFORMIN	Yes	VISIT 6 (36 WEEKS)	scan at 36 weeks shows abdominal circumstance static, attending further scan in one week
12034	METFORMIN	Yes	VISIT 8 (DELIVERY)	Premature delivery.
12055	METFORMIN	Yes	VISIT 8 (DELIVERY)	IUGR
12056	METFORMIN	Yes	VISIT 8 (DELIVERY)	fetal abnormaility known fetal hydrops
13508	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	18/40 spontaneous misscarriage
13551	METFORMIN	Yes	VISIT 8 (DELIVERY)	Low Cord Ph's on FBS
14131	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Renal pelivis Left kidney dilated
14162	METFORMIN	Yes	VISIT 8 (DELIVERY)	Reduced fetal Movements
14203	METFORMIN	Yes	VISIT 8 (DELIVERY)	Raised doppler on 07.01.13
14303	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Polyhydramnios
15003	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Breech presentation
16029	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Mesenterial Cyst
16029	METFORMIN	Yes	VISIT 8 (DELIVERY)	Reduced fetal movements
16064	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Reduced fetal movements x 2 days
16121	METFORMIN	Yes	VISIT 7 (TERM)	Persistent reduced fetal movements
16121	METFORMIN	Yes	VISIT 8 (DELIVERY)	Persistent reduced fetal movements
16133	METFORMIN	Yes	VISIT 7 (TERM)	polyhydramnios
16133	METFORMIN	Yes	VISIT 8 (DELIVERY)	polyhydramnios
17047	METFORMIN	Yes	VISIT 8 (DELIVERY)	Meconium liquor
21042	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Episodes of reduced fetal movements.
21070	METFORMIN	Yes	VISIT 8 (DELIVERY)	Thick meconium liquor on SROM.
21074	METFORMIN	Yes	VISIT 6 (36 WEEKS)	x1 episode of no fetal movements 25/11/13 28+5. Normal CTG.
21074	METFORMIN	Yes	VISIT 7 (TERM)	Reduced fetal movements 03/02/14. Normal scan.
21081	METFORMIN	Yes	VISIT 7 (TERM)	Episiode of reduced fetal movements.
21082	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Growth below lower centile.
21082	METFORMIN	Yes	VISIT 8 (DELIVERY)	Thick meconium liquor. Fetal tachycardia in labour.
21095	METFORMIN	Yes	VISIT 8 (DELIVERY)	Meconium liquor

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations

Section 10. Adverse Outcome 10.2.2 Fetal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Fetal Complications Other (Y/N)	TimepointID	Fetal Complications Other Details
21125	METFORMIN	Yes	VISIT 8 (DELIVERY)	Lightly stained meconium liquor.
21127	METFORMIN	Yes	VISIT 8 (DELIVERY)	Growth on 10th centile.
21128	METFORMIN	Yes	VISIT 8 (DELIVERY)	IUGR. Growth on lower centile. Double knot in cord.
25180	METFORMIN	Yes	VISIT 8 (DELIVERY)	mildly dilated lateral ventricular horns on postnatal cephalic USS
25226	METFORMIN	Yes	VISIT 8 (DELIVERY)	Baby had IVABX as prev NND for Group B Strep and EColi.
25459	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Anomoly scan show right unilateral tallpes
53059	METFORMIN	Yes	VISIT 6 (36 WEEKS)	HAD 2X GROWTH USS FOR ?IUGR. SECOND USS SHOWED NORMAL GROWTH.
11295	PLACEBO	Yes	VISIT 8 (DELIVERY)	cardiac abnormality as previously reported
11386	PLACEBO	Yes	VISIT 8 (DELIVERY)	shoulder dystocia, relieved with McRoberts and suprapublic pressure, Apgars 8 and 9
11564	PLACEBO	Yes	VISIT 8 (DELIVERY)	baby required resuscitation at delivery
11632	PLACEBO	Yes	VISIT 8 (DELIVERY)	Suspected IUGR
12020	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Reduced fetal movements
12021	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Polyhydramnios
12021	PLACEBO	Yes	VISIT 6 (36 WEEKS)	poyhydramnios detected on scan at 28+4 weeks. Large for getational age detected at 34+2 weeks.
12030	PLACEBO	Yes	VISIT 5 (28 WEEKS)	amniotic band noted at 20/40 repeat scan done NAD
12038	PLACEBO	Yes	VISIT 6 (36 WEEKS)	? iugr on uss
13301	PLACEBO	Yes	VISIT 8 (DELIVERY)	Undiagnosed oblique breech lie, intrapartum haemorrhage
13473	PLACEBO	Yes	VISIT 8 (DELIVERY)	Baby admitted to NICU for low BM's for 24 hours. No IV fluids required, baby tube fed only. Lowest BM 1.7mmol. Now maintaining BM's and back on postnatal ward with mum
13504	PLACEBO	Yes	VISIT 8 (DELIVERY)	Baby born in poor condition at birth, intubated and respiratory effort not achieved until 8 minutes of age, admitted to NICU for sceptic screen
13591	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Raised growth on USS, at 32/40 and 35/40 measurments >95th centile. EFW at 35/40 3456g
13591	PLACEBO	Yes	VISIT 8 (DELIVERY)	Suspected fetal macrosomia
14061	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Reduced fetal movements. Growth scan performed AC on 5th centile shown. Repeat in 2 weeks. Scan 07/11/2011 Showed nomal growth and normal fetal movements.
14061	PLACEBO	Yes	VISIT 8 (DELIVERY)	Maternal reporting of reduced fetal mevements. FM's seen on USS
14145	PLACEBO	Yes	VISIT 5 (28 WEEKS)	On USS Fetus has transposition of the great arteries, a ventricular septal defect and ?coartation of the aorta.
14145	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Fetal Abdominal Circumference on 97th centile. AFI increased (19cm)
14264	PLACEBO	Yes	VISIT 8 (DELIVERY)	Intermittently absent EDF
15010	PLACEBO	Yes	VISIT 5 (28 WEEKS)	one episode of reduced fetal movements ctg monitoring normal
15028	PLACEBO	Yes	VISIT 5 (28 WEEKS)	oligohydramnious
16053	PLACEBO	Yes	VISIT 8 (DELIVERY)	shoulder dystocia
16126	PLACEBO	Yes	VISIT 8 (DELIVERY)	Reduced fetal movements x3 episodes
18114	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Measuring Large for Dates. Head circumference and abdominal circumference above 95th centile.
21018	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Polyhydramnious on uss 8/8/13 (29 weeks) & 21/8/13 (30+6 weeks) has since resolved. Reduced fetal movements had monitoring on x4 occasions & again today.
21038	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Growth on lower centile today. Normal doppler
21069	PLACEBO	Yes	VISIT 8 (DELIVERY)	Thick meconium stained liquor during labour.
21077	PLACEBO	Yes	VISIT 8 (DELIVERY)	Meconium liquor
21093	PLACEBO	Yes	VISIT 6 (36 WEEKS)	27/1/14 growth on lower centile. 03/2/14 mild polyhyrdamnious. 10/2/14 normal growth & liquor volume.

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Section 10. Adverse Outcome 10.2.2 Fetal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

21033PLACEB0YesVISIT 8 (DEL/VERY)Light, thin meconium liquor21109PLACEB0YesVISIT 6 (36 WEEKS)21/02/2014 uas normal growth. Liquor volume just above upper centile.21119PLACEB0YesVISIT 4 (18 TO 20 WEEKS)Fetal abnormality on anomaly ultrasound scan.25034PLACEB0YesVISIT 8 (DEL/VERY)meconium tained liquor25105PLACEB0YesVISIT 7 (TERM)one episode of reduced fetal movement25135PLACEB0YesVISIT 8 (DEL/VERY)PROM 66 hours25320PLACEB0YesVISIT 8 (DEL/VERY)baby is scan on the 30/1/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.25340PLACEB0YesVISIT 7 (TERM)Large for dates on scan	Subject Number	Allocated Treatment	Fetal Complications Other (Y/N)	TimepointID	Fetal Complications Other Details
21119 PLACEBO Yes VISIT 4 (18 TO 20 WEEKS) Felal abnormality on anomaly ultrasound scan. 25034 PLACEBO Yes VISIT 8 (DEL/VERY) meconium stained liquor 25100 PLACEBO Yes VISIT 7 (TERM) one episode of reduced felal movement 25165 PLACEBO Yes VISIT 8 (DEL/VERY) PROM 66 hours 25320 PLACEBO Yes VISIT 8 (DEL/VERY) baby's scan on the 301/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.	21093	PLACEBO	Yes	VISIT 8 (DELIVERY)	Light, thin meconium liquor
25034 PLACEBO Yes VISIT 8 (DELIVERY) meconium stained liquor 25100 PLACEBO Yes VISIT 7 (TERM) one episode of reduced fetal movement 25165 PLACEBO Yes VISIT 8 (DELIVERY) PROM 66 hours 25320 PLACEBO Yes VISIT 8 (DELIVERY) baby's scan on the 301/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.	21109	PLACEBO	Yes	VISIT 6 (36 WEEKS)	21/02/2014 uss normal growth. Liquor volume just above upper centile.
25100 PLACEBO Yes VISIT 7 (TERM) one episode of reduced fetal movement 25165 PLACEBO Yes VISIT 8 (DELIVERY) PROM 66 hours 25320 PLACEBO Yes VISIT 8 (DELIVERY) PROM 66 hours	21119	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Fetal abnormality on anomaly ultrasound scan.
25165 PLACEBO Yes VISIT 8 (DELIVERY) PROM 66 hours 25320 PLACEBO Yes VISIT 8 (DELIVERY) baby's scan on the 30/1/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.	25034	PLACEBO	Yes	VISIT 8 (DELIVERY)	meconium stained liquor
25320 PLACEBO Yes VISIT 8 (DELIVERY) baby's scan on the 30/1/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.	25100	PLACEBO	Yes	VISIT 7 (TERM)	one episode of reduced fetal movement
	25165	PLACEBO	Yes	VISIT 8 (DELIVERY)	PROM 66 hours
25364 PLACEBO Yes VISIT 7 (TERM) Large for dates on scan	25320	PLACEBO	Yes	VISIT 8 (DELIVERY)	baby's scan on the 30/1/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.
	25364	PLACEBO	Yes	VISIT 7 (TERM)	Large for dates on scan

Section 11. Neonatal Care - All Patients 11.1 Neonatal Care Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Care after delivery (n(%))	Missing	3	11	14
	Normal Care	185 (84.1)	196 (91.2)	381 (87.6)
	Special Care	14 (6.4)	7 (3.3)	21 (4.8)
	Level 2 intensive care (ie high dependency intensive care)	9(4.1)	6 (2.8)	15 (3.4)
	Level 1 intensive care (maximal intensive care)	6 (2.7)	1 (0.5)	7 (1.6)
	Other	6 (2.7)	5 (2.3)	11 (2.5)
Any Congenital Abnormality (n(%))	Missing	5	15	20
	Yes	9(4.1)	8 (3.8)	17 (4.0)
	No	209 (95.9)	203 (96.2)	412 (96.0)
Other Hospital Admission (n(%))	Missing	18	19	37
	Yes	3 (1.5)	2 (1.0)	5 (1.2)
	No	202 (98.5)	205 (99.0)	407 (98.8)

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Section 11. Neonatal Care - Only Alive Births 11.2.1 Neonatal Care Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention		
Parameter(s)	Categories	Placebo	Metformin	Overall	
Care after delivery (n(%))	Missing	1	1	2	
	Normal Care	185 (84.5)	196 (92.0)	381 (88.2)	
	Special Care	14 (6.4)	7 (3.3)	21 (4.9)	
	Level 2 intensive care (ie high dependency intensive care)	9(4.1)	6 (2.8)	15 (3.5)	
	Level 1 intensive care (maximal intensive care)	6 (2.7)	1 (0.5)	7 (1.6)	
	Other	5 (2.3)	3 (1.4)	8 (1.9)	
Any Congenital Abnormality (n(%))	Missing	3	5	8	
	Yes	8 (3.7)	7 (3.3)	15 (3.5)	
	No	209 (96.3)	202 (96.7)	411 (96.5)	
Other Hospital Admission (n(%))	Missing	16	9	25	
	Yes	3 (1.5)	2(1.0)	5 (1.2)	
	No	201 (98.5)	203 (99.0)	404 (98.8)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 11. Neonatal Care - Only Alive Births 11.2.2 Neonatal care after delivery - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table o	f Care_Deliv by	AllocatedTre	eatment					
			Freatment(Alle Treatment)	ocated					
	Care_Deliv	METFORMIN	PLACEBO	Tot	al				
	Missing	1	1						
	No	199	190	38	9				
	Yes	14	29	4	3				
	Total	213	219	43	2				
		Frequency M	lissing = 2						
						Lower 95% Confidence	Upper 95% Confidence		
					Odds	Limit	Limit		Fisher
Parameter(s))	Studie effect			Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
Care_Deliv_i	tt AllocatedT	reatment METF	ORMIN vs Pl	ACEBO	0.461	0.236	0.899	0.0231	0.0242

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Care_Deliv='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 11 2 Neonatal unit.lst'

Section 11. Neonatal Care - Only Alive Births 11.2.3 Any Congenital Abnormality - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table	of Abnormal by	AllocatedTre	eatment	_				
			reatment(Alle Freatment)	ocated					
	Abnormal	METFORMIN	PLACEBO	Tota	I				
	Missing	5	3						
	No	202	209	411					
	Yes	7	8	15	5				
	Total	209	217	426	3				
		Frequency N	lissing = 8		_				
						Lower 95% Confidence	Upper 95% Confidence		
		Studi	ad		Odds Ratio	Limit for Odds	Limit for Odds		Fisher exact
Parameter(s)		effec			Estimate	Ratio	Ratio	P-value#	P-value#
Abnormal_itt	Allocated	Freatment METF	ORMIN vs P	LACEBO	0.905	0.322	2.543	0.8503	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Abnormal='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_11_2_Neonatal_unit.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.1.1 Taste Disturbance - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Any Taste Disturbance (n(%))	Missing	25	27	52			
	Yes	32 (16.2)	25 (12.6)	57 (14.4)			
	No	166 (83.8)	174 (87.4)	340 (85.6)			
Taste Disturbance severity (n)	Mild	19	13	32			
	Moderate	12	7	19			
	Severe	1	5	6			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Parameter(s)

tastedis_itt

Section 12. Maternal symptoms up to 36 weeks gestation 12.1.2 Taste Disturbance - Statistical analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

effects

AllocatedTreatment METFORMIN vs PLACEBO

Table of Table Dia and by Allasets dTrastrong

Frequency	Table of Tas	teDis_ana by Al	locatedTreatm	ent		
	TasteDis_ana(Taste disturbance at least once from visit 4 to		Treatment(Allo Treatment)	cated		
	visit 7 (Y/N))	METFORMIN	PLACEBO	Total	_	
		27	25			
	Yes	25	32	57		
	No	174	166	340		
	Total	199	198	397		
	Fr	requency Missin	g = 52		_	
				Odds	Lower 95% Confidence Limit	Upper 95% Confidence Limit
		Studied		Ratio	for Odds	for Odds

Estimate

0.745

Ratio

0.424

Ratio

1.311

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is TasteDis_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst' By: Aryelly Rodriguez - ECTU Statistician

Fisher exact

P-value#

0.3200

P-value#

0.3077

Section 12. Maternal symptoms up to 36 weeks gestation 12.2.1 Skin Reaction - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Any Skin Reaction (n(%))	Missing	25	27	52				
	Yes	39 (19.7)	36 (18.1)	75 (18.9)				
	No	159 (80.3)	163 (81.9)	322 (81.1)				
Skin Reaction severity (n)	Mild	23	22	45				
	Moderate	14	11	25				
	Severe	2	3	5				

Section 12. Maternal symptoms up to 36 weeks gestation 12.2.2 Skin Reaction - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency Table of SkinReac_ana by AllocatedTreatment

SkinReac_ana(Skin Reaction at least once from visit 4 to		Treatment(Allo Treatment)	cated
visit 7 (Y/N))	METFORMIN	PLACEBO	Total
	27	25	
Yes	36	39	75
No	163	159	322
Total	199	198	397
F	requency Missin	g = 52	

Parameter(s)	Studied effects	Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
skinreac_itt	AllocatedTreatment METFORMIN vs PLACEBO	0.900	0.545	1.489	0.6827	0.7022

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is SkinReac_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.3.1 Abdominal Pain - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Any Abdominal Pain (n(%))	Missing	25	27	52		
	Yes	42 (21.2)	49 (24.6)	91 (22.9)		
	No	156 (78.8)	150 (75.4)	306 (77.1)		
Abdominal Pain severity (n)	Mild	25	28	53		
	Moderate	14	18	32		
	Severe	3	3	6		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.3.2 Abdominal Pain - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of AbdoP	ain_ana by Alloc	atedTreatment				
	AbdoPain_ana(Abdominal Pain at least once from	Treatment(Allocate Treatment)					
	visit 4 to visit 7 (Y/N))	METFORMIN	PLACEBO	Total			
		27	25				
	Yes	49	42	91			
	No	150	156	306			
	Total	199	198	397			
	Freq	52					
				Lower 95% Confidence	Upper 95% Confidence		
	C4. di	a d	Odds	Limit for Oddo	Limit for Oddo		Fisher
Parameter(s)	Studie		Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
abdopain_itt	AllocatedTreatment METF	ORMIN vs PLACI	EBO 1.213	0.759	1.940	0.4192	0.4740

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is AbdoPain_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.4.1 Flatulence - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449				
Any Flatulence (n(%))	Missing	25	27	52				
	Yes	44 (22.2)	51 (25.6)	95 (23.9)				
	No	154 (77.8)	148 (74.4)	302 (76.1)				
Flatulence severity (n)	Mild	27	19	46				
	Moderate	14	23	37				
	Severe	3	9	12				

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.4.2 Flatulence - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Flatu_ana by AllocatedTreatment							
	Flatu_ana(Flatulence at least once from visit 4 to visit 7	7	Freatment(Alle Treatment)					
	(Y/N))	METFORMIN	PLACEBO	Tota				
	Yes	27 51	25 44	9	5			
	No	148	154	302				
	Total	199	198	397	7			
	Fre	equency Missing	= 52		_			
					Lower 95% Confidence	Upper 95% Confidence		
Parameter(s)		Studied effects		Odds Ratio Estimate	Limit for Odds Ratio	Limit for Odds Ratio	P-value#	Fisher exact P-value
flatu itt	AllocatedTreatment N	ETFORMIN vs	PLACEBO	1.206	0.760	1.915	0.4268	0.4806

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Flatu_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.5.1 Constipation - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Any Constipation (n(%))	Missing	25	27	52
	Yes	57 (28.8)	57 (28.6)	114 (28.7)
	No	141 (71.2)	142 (71.4)	283 (71.3)
Constipation severity (n)	Mild	33	32	65
	Moderate	21	17	38
	Severe	3	8	11

Section 12. Maternal symptoms up to 36 weeks gestation 12.5.2 Constipation - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Cons	ti_ana by Alloca	tedTreatmen	t				
	Consti_ana(Constipation at least once from visit		reatment(All Freatment)	ocated				
	4 to visit 7 (Y/N))	METFORMIN	PLACEBO	T	otal			
		27	25					
	Yes	57	57		114			
	No	142	141		283			
	Total	199	198	;	397			
	Frequency Missing = 52							
					Lower 95% Confidence	Upper 95% Confidence		
		died		Odds Ratio	Limit for Odds	Limit for Odds		Fisher exact
Parameter(s)	effe	ects	Es	timate	Ratio	Ratio	P-value#	P-value#
consti_itt	AllocatedTreatment MET	FORMIN vs PLA	CEBO (.993	0.643	1.534	0.9746	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Consti_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.6.1 Diarrhoea - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Any Diarrhoea (n(%))	Missing	25	27	52			
	Yes	37 (18.7)	83 (41.7)	120 (30.2)			
	No	161 (81.3)	116 (58.3)	277 (69.8)			
Diarrhoea severity (n)	Mild	21	49	70			
	Moderate	14	24	38			
	Severe	2	10	12			

Section 12. Maternal symptoms up to 36 weeks gestation 12.6.2 Diarrhoea - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Dia	rrh_ana by Alloc	atedTreatme	ent				
	Diarrh_ana(Diarrhoea at least once from		Treatment(Al Treatment)	located				
	visit 4 to visit 7 (Y/N))	METFORMIN	PLACEBO	То	tal			
		27	25					
	Yes	83	37	1:	20			
	No	116	161	2	77			
	Total	199	198	3	97			
	Fre	quency Missing	= 52					
		Studied		Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Parameter(s)		effects		Estimate	Ratio	Ratio	P-value#	
diarrh_itt	AllocatedTreatment M	ETFORMIN vs P	PLACEBO	3.113	1.975	4.908	<.0001	0.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Diarrh_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.7.1 Nausea - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Any Nausea (n(%))	Missing	25	27	52			
	Yes	79 (39.9)	97 (48.7)	176 (44.3)			
	No	119 (60.1)	102 (51.3)	221 (55.7)			
Nausea severity (n)	Missing	1	0	1			
	Mild	48	50	98			
	Moderate	25	38	63			
	Severe	5	9	14			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.7.2 Nausea - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Nau	isea_ana by Allo	ocatedTreatm	ent	_			
	Nausea_ana(Nausea at least once from visit 4 to visit 7		Treatment(All Treatment)	ocated				
	(Y/N))	METFORMIN	PLACEBO	Tot	al			
		27	25					
	Yes	97	79	17	76			
	No	102	119	22	21			
	Total	199	198	39	97			
	Fr	equency Missing	= 52					
					Lower 95% Confidence	Upper 95% Confidence		
				Odds	Limit	Limit		Fisher
Parameter(s)		Studied effects		Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
nausea_itt	AllocatedTreatment N	IETFORMIN vs F	PLACEBO	1.432	0.962	2.132	0.0765	0.0861

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Nausea_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.8.1 Vomiting - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Any Vomiting (n(%))	Missing	25	27	52			
	Yes	43 (21.7)	63 (31.7)	106 (26.7)			
	No	155 (78.3)	136 (68.3)	291 (73.3)			
Vomiting severity (n)	Missing	1	0	1			
	Mild	25	31	56			
	Moderate	13	26	39			
	Severe	4	6	10			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.8.2 Vomiting - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of V	omit_ana by All	ocatedTreatme	nt				
	Vomit_ana(Vomit at least once from visit 4 to		Freatment(Alloc Treatment)	ated				
	visit 7 (Y/N))	METFORMIN	PLACEBO	Total				
		27	25					
	Yes	63	43	106				
	No	136	155	291				
	Total	199	198	397				
	F	requency Missi						
					Lower 95% Confidence	Upper 95% Confidence		
		o		Odds Ratio	Limit	Limit		Fisher
Parameter(s)		Studied effects			for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
vomit itt	nit itt AllocatedTreatment METFORMIN vs PLACEBO		1.670	1.064	2.621	0.0259	0.0309	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Vomit_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.9.1 Headache - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449			
Any Headache (n(%))	Missing	25	27	52			
	Yes	66 (33.3)	65 (32.7)	131 (33.0)			
	No	132 (66.7)	134 (67.3)	266 (67.0)			
Headache severity (n)	Mild	37	38	75			
	Moderate	19	19	38			
	Severe	10	8	18			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.9.2 Headache - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table of Heada						
	Headache_ana(Headache at least once from visit 4		Treatment(Allocate Treatment)	ed			
	to visit 7 (Y/N))	METFORMIN	PLACEBO	Total			
		27	25				
	Yes	65	66	131			
	No	134	132	266			
	Total	199	198	397			
	Freq	uency Missing =	52				
Parameter(s)	Studio		Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
headache_itt	AllocatedTreatment METF	ORMIN vs PLAC	EBO 0.970	0.638	1.474	0.8871	0.9152

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is Headache_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_12_1_Maternal symptoms_analysis.lst'

Section 13. Serious Adverse Events 13.1.1.1 Mothers with at least one SAE Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Number of Patient with a SAE (n)	OVERALL	41	37	78		

Section 13. Serious Adverse Events

13.1.1.2 Mothers with at least one SAE - Statistical Analysis - POST-HOC* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Frequency	Table c	of ANY_SAE by	AllocatedTre	eatment	_				
	AllocatedTreatment(Allocated Treatment)								
	ANY_SAE	METFORMIN	PLACEBO	Tota	I				
	Missing	1	1						
	No	188	181	369)				
	Yes	37	41	78	3				
	Total	225	222	447	,				
		Frequency N	lissing = 2		_				
						Lower 95% Confidence	Upper 95% Confidence		
Parameter(s)		Studie effect			Odds Ratio Estimate	Limit for Odds Ratio	Limit for Odds Ratio	P-value#	Fisher exact P-value#
pat_sae_itt	AllocatedT	reatment METF	ORMIN vs Pl	LACEBO	0.869	0.533	1.417	0.5731	0.6189

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 *Analised using logistic regression (binary logit), probability modeled is ANY_SAE='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_13_1_1_Npatients_SAE_analysis.lst'

Section 13. Serious Adverse Events 13.1.1.3 SAE related to the mothers Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449		
Number of SAE (n)	OVERALL	47	42	89		
Number of SAE by relationship (n)	Possibly	2	3	5		
	Unrelated	45	39	84		
Number of SAE by expectedness (n)	Yes	11	11	22		
	No	34	29	63		
	Unk	2	2	4		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations

Section 13. Serious Adverse Events

13.1.1.3 SAE related to the mothers (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of SAE by outcome (n)	Missing	1	0	1
	Completely recovered	43	33	76
	Condition improving	1	3	4
	Condition improving Completely recovered	1	0	1
	Condition improving Recovered with sequelae	0	1	1
	Condition still present and unchanged	0	1	1
	Recovered with sequelae	1	4	5

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11136	METFORMIN	19JAN2012	14JAN2012	Diagnosis: Placental abruption. Drescription: Patient presented at 35+2 weeks gestation with a minor antie-partum haemonrage. Clinical diagnosis of placential abruption was made. necessitating immediate delativery by caesareare asceton. Diagnosis was confirmed at delivery. Mother and baby are both well. Severity: Moderate	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	17JAN2012
11317	METFORMIN	05MAR2012	02MAR2012	Diagnosis: Venous sinus thrombosis Description: Developed headaches at 22 weeks gestation. NRI confirmed bilateral non-acclusive thrombin in the terminal transvense sinuses and the signoid sinus. Commended on treatment Middle daterpartin. Outpatient management only, dd not require admission to hospital. Diagnosis made on 02001? J. Poly became aware 050012. Follow-up 2002/14. Venous sinus thrombosis provided by pregnancy. Treated with 12 months of LMWH. Now completing reactive. Modarate	Life-threatening		Unrelated	No	Completely recovered	13MAR2013
11501	METFORMIN	14NOV2012	270CT2012	Diagnosis: Unknown Description: Admitted with severe renal pain and vomiting. Noted to have deranged LFTs. Recent course of amoxicillin from GP for chest infection. Symptoms and LFTs resolved spontaneously. Severity: Mild	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	310CT2012
11686	METFORMIN	02APR2013	02APR2013	Diagnosis: Breast Cancer. Description: Has been attending the breast clinic for past 10 days. biopsy of a breast lump. Will require chemotherapy, early induction of labour. followed by surger, radiotherapy and hufther chemotherapy. Follow-up 2002/14: Developed breast cancer in second trimester of pregnancy. Commenced chemotherapy during pregnancy. elective delivery at 35 weeks gestation.completion of chemotherapy tollowing delivery and then proceeded to mastectomy followed by postoparative radiotherapy. Continues to have oncology follow-up. Severetty: Severe.	Other significant medical events (as defined in protocol)[Life-threatening		Unrelated	No	Condition improving	
11748	METFORMIN	12DEC2013	11DEC2013	Diagnosis: Mastilia: Description: Sepsis secondary to Mastilia: Follow-up 2002/14: Admitted 10 days postnatal with mastilia: Treated with IV then oral antibiotics. Seventy: Moderate	Involved or prolonged inpatient hospitalisation	UTI. 25/09/2013 - 27/09/2013. medication required.	Unrelated	No	Completely recovered	14DEC2013
11748	METFORMIN	27SEP2013	25SEP2013	Diagnosis: Pain and Vomiting. Description: Self presented with upper abdominal pain and vomiting. ?UTI. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Depression from 2009 to 2010. Urinary Tract Infection. April 5th 2013 to 6.4.2013.	Unrelated	No	Recovered with sequelae	27SEP2013
11748	METFORMIN	07OCT2013	06OCT2013	Diagnosis: Abdominal Pain ? Preterm Labour Description: Self presented with abdo pain: ?Preterm labour complicated by urinary tract infections. Severity: Moderate Follow-up 2002/14: lognosis: UTI. Admitted at 32 weeks gestelon with abdominal pain. Urine culture +ve for e.coll. Threatened pre-term labour excluded. Treated with antibiotics and resolved. Severity: Mid.	Involved or prolonged inpatient hospitalisation	Urinary Tract Infection. 02/04/13 - 05/04/2013 and 25/09/2013 - 26/09/2013. medication required for both infections.	Unrelated	No	Completely recovered	09OCT2014
11797	METFORMIN	18NOV2013	14NOV2013	Diagnosis: Vomiting in late pregnancy. Description: Self presented with excessive vomiting. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Hyperemesis. 20/05/13. ongoing. medication required.	Possibly	Yes	Completely recovered	15NOV2013
11880	METFORMIN	28NOV2013	28NOV2013	Diagnosis: Intrauterine Death. Description: Patient attended for ultrasound scan for fetal anomaly at 20+1 weeks gestation. No fetal heartbeat seen. IUD performed. Follow-up 2002/14-1 Jagnosis: Midtimester fetal loss. Fetal death diagnosed on routine anomaly scan at 20+ weeks. Admitted for medical management of miscarriage on 30/11/2013. Home on 1/12/2013. Severity: Severe.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	01DEC2013
11881	METFORMIN	07JAN2014	30DEC2013	Diagnosis: Severe Sepsis. Description: Admitted at 30+4 weeks gestation with pyrexia, rigors and dysuma. Treated with multiple antibiotics for presumed urorsepsis. Clinical deterioration over the course of a week. Decision made to deliver baby in maternal interest at 31+2 weeks gestation. Patient transferred to ITU for venilation support post delivery. Continues to improve. back in normal ward at present. Pollow-up 14/01/14: Diagnosis: Probable urosepsis and atypical pneumonia necessitating preterm delivery in maternal interest. Description: Condition now resolved, patient recovered. Severity: Severe.	Life-threatening Involved or proionged inpatient hospitalisation		Unrelated	No	Completely recovered	13JAN2014

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11884	METFORMIN	03FEB2014	17DEC2013	Diagnosis: Probable preterm labour spontaneous rupture of membranes. Description: Initially presented at 21+ veeks gestation with vague history of possible SRM. Admited in topspitel for overright observation and then reviewed weekly at DAU at SI Johns Hospital Livingston. Diagnosis of SRM more probable at 22 weeks. Continues to be seen thrice weekly as an outpatient at SI Johns. Patient did not inform research team. Did not attend for scheduled study visit today, which is when this came to our attention. Had discontinued study medication around 20 weeks gestation due to side effects. Severity, Midd.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition still present and unchanged	
12008	METFORMIN	13FEB2012	09FEB2012	Atonic uterus resulting in massive obstetric haemorrage. 2 litre loss. Severity: Severe	Life-threatening	N/a	Unrelated	No	Completely recovered	12FEB2012
12008	METFORMIN	16AUG2012	14FEB2012	Diagnosis: Chest Pain Description: Chest pain following LSCS 5/7 days after delivery. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	16FEB2012
12041	METFORMIN	07NOV2012	07NOV2012	Diagnosis: Termination of pregnancy (TOP) Description: TOP due to confirmed Down's Syndrome by amniocentesis. Severity: severe	Involved or prolonged inpatient hospitalisation	No relevant medical history	Unrelated	No	Completely recovered	10NOV2012
12056	METFORMIN	16APR2013	30MAR2013	Diagnosis: Fetal Supraventrioular Tachycardia Description: Patient attended on LW with a history of reduced fmt. CTL detected FHR of 2000pm. USS diagnosis fetal supraventricular tachycardia: Patient achited and medicated with facalined 100mg TDS. Follow-up 30(5/13. Diagnosis: Admitted with reduced fmt. Description: Admitted to antentatal ward with deuced fetal movements. On USS baby found to have cardiac abnormalities - SVT and hydrops. Sevently: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Recovered with sequelae	05APR2013
12060	METFORMIN	16SEP2013	03SEP2013	Diagnosis: Postpartum Haemorrhage. Description: Kiwi delivery of male infant. PPH following delivery of 1.6 litres. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	05SEP2013
12076	METFORMIN	07NOV2013	04NOV2013	Diagnosis: ?Admitted DVT. Description: Ciiant olo groin and leg pain. ? DVT. Admitted to antenatal ward overnight. Doppiers normal. Follow-up 1911/2013: Diagnosis: ?Rigit sidel groin pain. Description: Compatined of right sided groin na pain and vulval swelling. Consultant review - admitted to ward for observation for ? peivis thromosis. XXX and anti-embotic teathment. Doppier of right leg 05/11/13 - no evidence of deep vein thrombosis. Discharged home 05/11/13.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	18NOV2013
12079	METFORMIN	20JAN2014	08DEC2013	Diagnosis: Suspected Urinary Tract Infection. Description: Self referred to labour ward triage with abdominal pain. back pain. diarrhoea (once only) and reduced fetal movements for one week. Antibiotics given for suspected urinary tract infection. Nkt admitted - discharged home after 21ms 10 minutes. Sevenity. Mild	Other significant medical events (as defined in protocol)		Unrelated	No	Completely recovered	23DEC2013
12093	METFORMIN	03APR2014	30MAR2014	Diagnosis: Postpartum Haemonhage. Description: Postpartum haemonhage of 1500mts following IOL_prolonged labour and vaginal delivery. Postpartum syntocinon commenced. catheterised. Hb 100g/d. Discharged home 01/04/2014. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	01APR2014
12096	METFORMIN	06MAR2014	13FEB2014	Diagnosis: ? Preterm labour/Reduced Fetal Movements. Description: Admitted to antenatal ward with tightenings - speculum os closed. Reduced fetal movements for 1 week. Admitted for overnight observation. Tightenings settled. Discharged home 14/21/4 with routine follow-up in antenatal clinic. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	14FEB2014
12099	METFORMIN	31DEC2013	30DEC2013	Diagnosis: Suspicion of pre-eclampsia. Description: Admitted with headaches. high blood pressure and proteinuria at 25+1. Remains an inpatient for observation. Not on any medication. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	03JAN2014
13082	METFORMIN	07FEB2012	04FEB2012	Admitted for labile BP at 39 weeks. Commenced on labetalol 100mgs BD and IOL booked. Inpatient on Mat ward since 94/02/12. Completion of data 09/05/13: Participant delivered on 08:2.12 and was discharged on 11.2.12. On review of medical notes. hypertension resolved postnatally; was not discharged on any anti-hypertensives. Severity: Mild	Involved or prolonged inpatient hospitalisation	Has history of hypertension. was on Irbesartan 75mgs daily in 2009. Not on treatment since	Unrelated	Yes	Completely recovered	11FEB2012
13147	METFORMIN	04MAY2012	28FEB2012	Diagnosis: Recurrant PV bleeds from cervical erosion Description: Has had recurrant PV bleeds of varying amounts throughout pregnancy. Diagnosed as cervical erosion. Not admitted at any stage. IOL booked at term due to this history. Severity: Moderate	Other significant medical events (as defined in protocol)		Unrelated	Yes	Completely recovered	15MAY2012
13209	METFORMIN	31AUG2012	24AUG2012	Diagnosis: Inpatient stay for over 24thrs for investigations. All negative. Description: Reported chest pain and calf pain at day 4 postnatal. Admitted to hospital for 2 days for chest x-ray and blood tests to rule out FE. Was commenced on Fragmin for 6152 and attended for log Doppler x 2. Seventy: Noterate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04SEP2012

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
13248	METFORMIN	24APR2012	22MAR2012	Diagnosis: Abdominal Pain due to IBS Description: Admitted to emergency room at 17/40 with abo pain 220/312. 7 Renal cholic. admitted to ward and investigated. Treaded with N artientexics as vomitting. USS normal. Discharged 24/03/12 with oral antientets. Discharge diagnosis IBS. Participant reported diahornea and adominal cramps for several days before attending hospital. whilst on study medication. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	24MAR2012
13528	METFORMIN	19MAR2013	12MAR2013	Diagnosis: 70VT. Description: Patient admitted to antenatal ward on 12.3.13 with shortness of breath and chest pain ?70VT. Had all appropriate investigations including chest xwy. leg Doppler and ECG. All investigations normal. Received fragmin 10.000u BD until diagnosis. Discharged home the following day lo normal care. for follow up in consultant clinic 22.3.1.5 sevenity. Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	Unk	Recovered with sequelae	19MAR2013
13551	METFORMIN	05MAR2013	02MAR2013	Diagnosis: Emcs for fetal distress, followed by 5000ml PPH and hysterectomy, Description: Background: NI has been having close moting in pregnancy for naised BP. Sha was commanced on labelatiol on 21.13. Had subsequent admission for mised BP 62.13 (hot an SAE according to protocol). Discharged hask to communicy care the following day. Admitted to antimatial ware dag and the second strate of the second strate of the second strategies of 20.30 at 38 weeks gestation. Baby: EMCS for fetal distress (CTG and FBS) under GA. Baby delivered 11913. aggest A 11 minute. Second Phis 7.18. 7.24. Baby was admitted to NICU overright due to N bieng transferred to Whiston. Re-united with many them returned to Liverpool WomerS. N. Fetalowing undertaken. NI: suffered from major haemorriage totalling 500ml. A hysterectomy was undertaken. NI: received a total discharges (clouding 500ml cells alsvaged blood) and 1 unit of FFP. She also had a dextrese infusion to correct transfusion-related hypo	Involved or prolonged inpatient hospitalisation Life-threatening	Raised BP. start 2.1.13. orgoing. medication required.	Unrelated	Yes	Condition improving Recovered with sequelae	07MAR2013
13553	METFORMIN	23JAN2013	21JAN2013	Diagnosis: Admitted for raised BP and proteinuria. Description: MR was admitted to the antenatal ward on 21/01/13 for raised BP and proteinuria at 28-340. She has been commenced on labelacid 200mg BD and its tasking in for bosenvation presently. Fixp 25/01/13.1Her BP dropped and the labelaid dose was reduced to 100mg BD.5Re was discharged home on 24.1.13 with an appointment at the day ward for a BP profile and CTG on Monday 28.1.13 with the plan to stop labetaid if BP normal. Sevently. Mild	Involved or prolonged inpatient hospitalisation	Pregnancy induced hypotension with significant copport of the significant equination prequired. Pregnancy induced hypotension. start 2010. not orgoing. medication required.	Unrelated	Yes	Completely recovered	24JAN2013
14035	METFORMIN	28NOV2011	26NOV2011	Had upper right quadrant pain since approx 28 weeks. Admitted to hospital on 26/11/2011 and discharged home on the 27/11/2011. No cause for this has been found. LFT's rates and pain now increasing admitted to hospital again today for urgent induction of labour planned. Her hospital consultant has recommended that the study drugs should be stoped.	Involved or prolonged inpatient hospitalisation	N/A	Unrelated	No	Recovered with sequelae	06DEC2011
14161	METFORMIN	24DEC2012	24DEC2012	Neville Barnes Forceps delivery on 24/12/2012 at 01.17am. Postpartum haemorrhage of 1500ml. thought to be in part due to a spuring blood vessel from episiotomy would and vaginal teams. Transferred to thigh dependency unit. Hb 7.7g/d1 at 07.16am. Patient offered blood transfusion; she is unsure at time of reporting SAE whether she withshe to accept this. Participant withdreet from the EMPOWAR study on 11/11/2012 at her request. She was taking one study tablet per day up unit that data.	Involved or prolonged inpatient hospitalisation	N/A	Unrelated	No	Completely recovered	25DEC2012
14162	METFORMIN	12DEC2012	11DEC2012	Emergency L.S.C.S for failure to progress in labour. Post Partum Haemorrhage of 1200mls	Involved or prolonged inpatient hospitalisation	N/A	Unrelated	No	Completely recovered	14DEC2012
14303	METFORMIN	08AUG2013	08AUG2013	Post Partum Haemorrhage 1200mls.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	08AUG2013
16029	METFORMIN	09MAY2013	03SEP2012	Abdo pain and reduced fetal movements. Description: Abdo pain - intermittent - and reduced fetal movements. Admitted for observation. Contraction type pains 1:20 mins. Settled. Discharged 05/09/2012. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	05SEP2012
16121	METFORMIN	24JUN2013	30MAY2013	Diagnosis: Pyelonephritis Description: Pyelonephritis - ascending UTI involving pyelum. fever. tachycardia. abdo/back pain. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04JUN2013
21089	METFORMIN	28MAR2014	17JAN2014	Diagnosis: Hyperemesis. Description: Admitted to maternity ward overnight with hyperemesis. Sevently: Mild.	Involved or prolonged inpatient hospitalisation	Removal of brain hernia (Amold-Chiari malformation). 18/01/2013.	Unrelated	No	Completely recovered	18JAN2014

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Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
24010	METFORMIN	28SEP2013	16SEP2013	Diagnosis: Emergency Caesarean Section Post Partum Haemonhage 1500mls. Description: Caesarean section for fetal distress at T+15 during induction of labour: Estimated blood loss at caesarean section 1500mls. Baby's birth weight 3888 - all normal. Severity: Moderate	Involved or prolonged inpatient hospitalisation	PCOS. ongoing. medication not required.	Unrelated	Unk	Completely recovered	18SEP2013
25180	METFORMIN	25JUN2013	14JUN2013	Diagnosis: Pain and ?Pyelonephritis. ?CholeIthiasis. Description: Admitted 1406/13 overnight to CheseInfield Royal Hospital with dystaria. back pain. feeling unwell. Intravenues antibidics complich, discharged 1506/13 on cal antibidics. admitted Scanthorpe Hospital 17/06/13 overnight with severe right upper addorninal pain. Antibidics changed. Utmasound scan diagnosed choleIthiasis. Discharged 1806/13 home with antibidics and advice to see surgical review post pregnancy and low fail dat. Severity: Moderate	Involved or prolonged inpatient hospitalisation	Asthma. ongoing. medication required.	Unrelated	No	Condition improving	
25232	METFORMIN	17OCT2013	140CT2013	Diagnosis: Preterm Labour Spontaneous Rupture of Membranes. Description: Spontaneous rupture of membranes occurred 14/10/2013 at 13.30. No uterine activity, On 157/2013 developed maternal activization and increase of white blood cells. Decision made at 10.50 on 15/10/13 b induce labour. Labour augmented with syntochron influsion. Live baby girl born on 16/10/2013 at 07.14hrs. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	16OCT2013
25264	METFORMIN	15AUG2013	08AUG2013	Diagnosis: benign Intracranial Hypertension. Description: Admitted to Hallamshire Hospital with headache due to this. Had lumbar puncture to drain some CSF. Symptoms resolved, had one night in hospital, Sevenity. Moderate.	Involved or prolonged inpatient hospitalisation	Benign Intracranial Hypertension. started in 2009. ongoing. medication not required.	Unrelated	No	Completely recovered	09AUG2013
25264	METFORMIN	010CT2013	26SEP2013	Diagnosis: Raised intra-cranial pressure. Description: Admission to Chestarfield Royal Hospital with headache. blurred vision: Innitus: nausea 2009r13. Lumbar puncture eased symptoms but backache marked after procedure and hought to be related to same. Care continued with analgesic therapy and physio. Severity: Mid.	Involved or prolonged inpatient hospitalisation	Idiopathic Intracranial Hypertension. start spring 2009. end Iate 2011. and received medication between these dates. Diagnosed in 2009. onpoing and no medication required as contra-indicated in pregnancy.	Unrelated	Yes	Condition improving	
25459	METFORMIN	11APR2014	06APR2014	Diagnosis: Left Calf Pain ?Thrombosis. Description: Admitted with unilateral calf pain. No redness or swelling. x1 dose anti-coagulant and analgesia given. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	07APR2014
25459	METFORMIN	17JUN2014	16JUN2014	Diagnosis: Right ovarian cyst Admitted to birth centre with right sided abdominal pain on 16.06.14. C/section performed 17.06.14. Severity: Mild	Involved or prolonged inpatient hospitalisation	Right adnexal cyst (15/03/14)	Unrelated	No	Completely recovered	17JUN2014
11263	PLACEBO	29MAY2012	27MAY2012	Diagnosis: Post partum haemorrhage Description: Required delivery by caesarian section for failure to progress into labour. Had atonic post partum haemorrhage of 2000mts requiring examination under anaesthetic and use of Bakri balloon. Severity: Moderate	Life-threatening Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	30MAY2012
11323	PLACEBO	29MAY2012	20MAY2012	Diagnosis: Inconclusive Description: Admitted with shortness of breath and chest pain at 32 weeks gestation. Investigated thoroughly with CTPA, upperabdo ultrasound and blood tests but all investigation negative. Symptoms settled spontaneously. Severity: Moderate	Involved or prolonged inpatient hospitalisation	Asthma. ongoing. medication required Smoker. ongoing	Unrelated	No	Completely recovered	22MAY2012
11335	PLACEBO	21JUN2012	19JUN2012	Diagnosis: Post partum haemorrhage Description: Delivered by elective caesarian section on 130/07/2. Developed bleeding secondary to uterina atomy following delivery while incovery area. Rushed to bratel for EUA under CAA. Haemorrhage managed with Bakri balloon. Estimated blood loss 2000mls. Severity: Moderate	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	21JUN2012
11643	PLACEBO	20MAR2013	13MAR2013	Diagnosis: Advantiate Pain: Description: Advantated with advantiant and in criginality thorage to be ligamentous. Devolved diarhoos and vironiling Saturdy (160011). Stool sample meal on 1000113 - cafit 200313 well, no D + V since 18/313. commenced metonicables, For discharge home today. Severity: Severe Follow-up 2002/2014: Disagnosis: Clostifulum Difficile Diarhoos. Admitted with addominal plan. Developed diarhoos and vomiting during admission. Stool culture vie for C.dtfl. Treated with IV fluids and oral metronidazole. Discharged home on 2003/2013. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	20MAR2013

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11714	PLACEBO	30SEP2013	27SEP2013	Diagnosis: Large Blood Loss - 1500ml. Description: Emergency c/s for failure to progress in labour. 1500ml blood loss at delivery. Follow-up 20/02/14: Diagnosis: Post Partum Haenomhage. Altonic postpartum haemorhage ol lolivoirg emergency caesarean section for failure to progress in the 1st stage of labour. Estimated blood loss 1500ml. Severity: Moderate.	Life-threatening) involved or prolonged inpatient hospitalisation	Gestational Diabetes Mellitis. 09/07/13. ongoing.no medication required.	Unrelated	No	Completely recovered	03OCT2013
11786	PLACEBO	07OCT2013	04OCT2013	Diagnosis: Pre-term rupture of membranes: Description: Spontaneous pre-term. pre-tabour rupture of membranes. Severity: Severe Follow-up 2002/14. Diagnosis: Spontaneous preterm rupture of membranes. Preterm SRM at 25+ weeks gestation: Managed as an outpatient until 26+ weeks when developed blood staned iguor. Admitted to hospital or 24/1013. Nanaged conservalvely as an inpatient until 4/11/13 when went into labour. Baby delivered on 4/11/13. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Nil of note.	Unrelated	No	Completely recovered	04NOV2013
11940	PLACEBO	04JUN2014	02JUN2014	Diagnosis: Reginitary Tract Infection. Presented with cough and faeling generally unveloped at 374 vecked scattalion. Antexel being amonicilium and profinisation prescribed by GP. Also complianing of network feat movements. Admitted to hospital for ophimistant on of treatment and observation. Checket vary normal. Reviewed by respiratory physician and symptoms felt to be improving. likely visit oligin, no further antibicitics or predisional mergination and monitor PEFR and for GP to refer to outpatient respiratory dinics as necessary. Following Observitior review. In view of persistently rounced fetal movements and recent diagnosis of gestational diabetes decision made for induction of labour. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04JUN2014
12010	PLACEBO	28MAR2012	09MAR2012	Post partum haemonrhage - 500mls. At emergency section	Other significant medical events (as defined in protocol)		Unrelated	Yes	Completely recovered	11MAR2012
12013	PLACEBO	26MAR2012	26MAR2012	Post partum haemorrhage - 600ml following emergency section	Other significant medical events (as defined in protocol)		Unrelated	Yes	Completely recovered	26MAR2012
12043	PLACEBO	11MAR2013	07MAR2013	Diagnosis: Abdominal Pain Description: Client admitted at 35+6/40 with abdominal pain - ?UTI. ?Preterm labour ?D+V. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	09MAR2013
12059	PLACEBO	25JUL2013	27JUN2013	Diagnosis: EMCS. Description: EMCS at 33/40 for reduced fmf. reduced AFI. No EDF. Severity:	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	28JUN2013
12074	PLACEBO	04NOV2013	120CT2013	Diagnosis: Small bleed per vaginum. Description: Patient self referred to labour ward triage with small bleed per vaginum and mild abdominal pairs Speculum performed. cevical OS closed. Scan - no problems seen. Admitted to antenatal ward overnight for observation. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	13OCT2013
12077	PLACEBO	14NOV2013	13NOV2013	Diagnosis: Pre-term labour. Description: Preterm spontaneous vaginal delivery at 34+6 weeks of female infant. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	15NOV2013
12086	PLACEBO	02OCT2013	08SEP2013	Diagnosis: SROM @ 18+4 Medical TOP. Description: Medical termination of pregnancy due to SROM. Spontaneous vaginal delivery of foetus. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	12SEP2013
12091	PLACEBO	26MAR2014	23MAR2014	Diagnosis: Baby admitted to SCBU with meconium aspirate. Description: Patient had emergency cls for fetal distress. Baby had poor apgar and was admitted to SCBU - CTU. Veriliated. Baby improving and extabated 25/3/2014. Mum discharged home 28/05/14. Severity: Severe . Follow-up 13/05/14: Baby veritiated after delivery - yoor apgars. Baby discharged home 06/04/14. No follow-up. Mum contacted baby doing well - no concerns.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	16MAY2014
12104	PLACEBO	13MAR2014	11MAR2014	Diagnosis: ?UTI. Description: Admitted to triage via GP with history of pelvic pain. vomiting and feeling unwell. Pyrexia on admission. Admitted to antenatal ward for intravenous antibiotics and antiemetics. IV fluids. Discharged home with oral antibiotics 13/3/14. Apyrexial since admission. Severity:	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	13MAR2014
13007	PLACEBO	05AUG2011	28JUL2011	Diagnosis: prolonged hospital stay. Participant induced for suspected IUGR at 40 weeks+1day. Baby's BW below 9th centile, therefore needed blood sugar recordings (TBcs) pre and post feeds as a per protocol. Baby 9W 2.72(ss. These were completed within 24ths. This resulted in a prolongation of hospital stay. 1208/2011 IUCR is an Expected outcome and is begin groutinely collected as a secondary outcome of this study. Therefore. not a SUSAR but a SAR.	Involved or prolonged inpatient hospitalisation	2008 - normal vaginal delivery at tern (41 weeks). 3100gms	Possibly	Yes	Completely recovered	28JUL2011
13144	PLACEBO	11MAY2012	31MAR2012	Diagnosis: Symphysis Publs Pain. Physiological Faints in Pregnancy Description: Occasional fainting episodes and episodes of raised BP over past 6 weeks. 48hrs admission on ward for observation due to this. Also epicits SPD. 1014. 38hr7 booked for this reason. However on admission to ICU, suite was found to be 36+6. reasons for ICU, did not warrant following ut his gestation. Inad been incorrectly calculated when ICL booked, therefore ICU, rebooked and performed at 38+1 on 228/br2. Servicely. Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	22MAY2012

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
13301	PLACEBO	190CT2012	170CT2012	Diagnosis: Intrapartum and postpartum haemorrhage of 2000mis Description: This lady was iduced at 41-56 or postbales pregnancy. She received Zmg x 2 of Prostin gel. Proto tARM she had fresh Ibeding Pr. Oblique breach lie was diagnosed on USS. She was taken to theater for emergency casesrean section. httpaquitum haemorrhage = 1000mit, postbala haemorrhage = 1000mit. Total EBL = 2000mit. Baby born with Apgars 10 at 1 minutes and 10 at 5 minutes. Cord phis 7 26 and 72.8 Baby's weight = 4440; af. Ar will on domand. The lady was transfused 2 units of blood in theater. Condition currently improving. Ioday Hb 7. Zigdi, for truther 2 units of blood in theater. Condition currently improving. Ioday Hb 7. Zigdi, Short Hart 2 units of blood in theater. Condition currently improving. Ioday Hb 7. Zigdi, Short Hart 2 units of blood formous subject 200m [TDS. Serverly: Severe was 8.7bgi di and he was prescribed formous subject 200m; TDS. Severly: Severe	Involved or prolonged inpatient hospitalisation[Life-threatening	Previous PPH and subsequent blood transfusion in 2007. medication required. PCOS. ongoing. no medication required.	Unrelated	Unk	Completely recovered	200CT2012
13473	PLACEBO	04JAN2013	03JAN2013	Diagnosis: Neonatal BM's low. Baby admitted to NICU. lowest BM 1.7mmol Description: EP was delivered via emergency cls. IOL at 38-53 for pre-eclampsia on 3.1.33. Baby was transferred to the neonatal unit for 24 hours post delivery for low BM's. Lowest BM 1.7mmol. baby tube fed only. no I/ fluids required. Baby maintaining BM's and back on postnatial ward with mum after 24 hours. Discharged home 5.1.13. no follow-up anticipated. Sevenity: Mild	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	04JAN2013
13591	PLACEBO	07MAY2013	30APR2013	Diagnosis: Hospital admission via ambulance with gall stones. Description: RB was admitted to Royal Levepoch (Rospital on 30.04.13 via ambulance with chronic back pain. She is 3 weeks postshatt. Was kept nil by mouth for 24 hours and had a USS which diagnosed gall stones. Received antibiotics and analgesia whilst an inpatient and was discharged on 01.05.13. RB reports awailing blood lests to seel resence of Infection and has an appointment with a consultant at the Royal on 16.04.13. NB, Information datimed verbaily from the patient only. no access to medical notes as attended a different hospital. Severity, Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	01MAY2013
13705	PLACEBO	02AUG2013	19JUL2013	Diagnosis: APH 31+2/40. Description: Patient admitted to antenatal ward with APH at 31+2/40. Had x 2 small PV bleeds at home. HVS sent. Speculum NAD. Discharged home after 24 hours as nil further PV bleeding. Taking ferrous sulphate. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	20JUL2013
13712	PLACEBO	02AUG2013	23JUL2013	Diagnosis: Obstatric Choleostasis. Description: Patient presented at 31+5140 with localised liching. Bile acids taken and indicate obstatric choleostasis. Patient prescribed Ursdoocycholia acid 300mg TDS and Chiophenamine 4mg. IOL booked for 05.09.2013. Having weekly bloods and CTGS. Information obtained from patient via telephone only. Sevenity. Moderate.	Other significant medical events (as defined in protocol)	Obstetric choleostasis in previous pregnancy in 2010. Start 27/01/2010. end 02/02/2010. medication required.	Unrelated	Yes	Completely recovered	06SEP2013
13914	PLACEBO	22JAN2014	15JAN2014	Diagnosis: Threatened Pretern Labour. Moderate rise in BP, Description: Threatened Pretern Labour. Admission to consultant unit (filowing addominal pains, Fibrinden tiest positive. Satolis dy who to cover for potential perferem brith. BP moderately dervaled whist an inputient. Discharged after approx. 48hrs and monitored on community. Severity, Mild	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	17JAN2014
14036	PLACEBO	23NOV2011	22NOV2011	Post-partum haemorrhage 1000mis - maternal collapse transfered to high dependency unit.	Involved or prolonged inpatient hospitalisation Other significant medical events (as defined in protocol)	N/A	Unrelated	No	Completely recovered	23NOV2011
14272	PLACEBO	29MAY2013	18APR2013	Sudden onset very severe headache 18.04.13. Admitted to neurological ward for treatment and lumbar puncture. 24 hour stay. Re-admitted 22.04.13 with re-occurrence of headache - dated bumbar puncture. Resolved after 24 hours and discharged. No further headaches.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	23APR2013
14336	PLACEBO	27NOV2013	26NOV2013	Diagnosis: Post partum haemorrhage and pre-eclampsia. Description: Admitted to High Dependency. Unit from theate recovery after total PPH 700mis (at delivery 400mis) requiring protonged IV synchronic metametrus. In addition had raised BP requiring medication after admission to HDU. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes. started 07/11/2013. ongoing. no medication required.	Unrelated	No	Recovered with sequelae	29NOV2013
14336	PLACEBO	23OCT2013	17SEP2013	Diagnosis: Abdominal pain cause unknown. Description: Admitted with abdominal pain for observation. Cause unknown. Possible UTI. Possible 'Uterine stretching pain'. Routine blood and urine tests performed. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	23SEP2013
14336	PLACEBO	27NOV2013	20NOV2013	Diagnosis: Infective diarrhoea and vomiting. Description: Prolonged episode of diarrhoea and vomiting causing dehydration. M fluid rehydration required on admission to hospital or 2311/231.23. Admitted for 24 hours. Had one sati dose labetaiol for raised BP whilst an inpatient. Stopped study medication. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational diabetes.started 07/11/2013. ongoing.no medication required.	Unrelated	No	Completely recovered	24NOV2013

Section 13. Serious Adverse Events

13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
14354	PLACEBO	20DEC2013	17DEC2013	Diagnosis: Threatened pre term labour. Description: G5 P2 33 weeks. admitted with PV bleed and irregular tightenings 17.12.13. Prescribed betamethasone and dalteparin. Hospitalised for observation. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition improving Completely recovered	20JAN2014
15031	PLACEBO	27NOV2013	290CT2013	Diagnosis: Delivery. Description: Postpartum haemorrhage 1400mls. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	30NOV2013
15034	PLACEBO	07NOV2013	24OCT2013	PPH 1600mls. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	25OCT2013
16052	PLACEBO	08JAN2013	27DEC2012	PPH 1800mls Severity: Moderate	Life-threatening		Unrelated	No	Completely recovered	31DEC2012
17036	PLACEBO	12MAR2013	10MAR2013	Diagnosts: Influenza. Description: Ingatient hospitalisation due to Influenza. Patient admitted on 1000/15. 354 discharged on 110/03/13 as feeling better. Study medication stopped whilet unwell. by recommence when well. Severity: Moderate. Followup 170/802/041: Diagnosis: Influenza - resulting in raised ALTs requiring scan. Initial SAE reported due to hospitalisation due to Influenza. Following this raised ALT levels were noted and al lover scan arranged. This showed an enlarged splene ?consistent with recent influenza. This patient has had raised ALT levels dating back to 2010. Discharged home following scan.	Involved or prolonged inpatient hospitalisation(Other significant medical events (as defined in protocol)	Cholecystectomy. 2010 - 30/07/2010.	Unrelated	No	Completely recovered	17JUN2014
17137	PLACEBO	27DEC2013	25DEC2013	Diagnosis: Costochondritis. Description: Admitted with upper abdominal pain - bloods and USS all NAD. Presumed costochondritis. Discharged home 27/12/13. Severity:	Involved or prolonged inpatient hospitalisation	Previous episode of costochondritis	Unrelated	No	Completely recovered	27DEC2013
17137	PLACEBO	20JAN2014	17JAN2014	Admitted to antenatal ward with unstable lie. To remain inpatient until LSCS 24.1.14.	Involved or prolonged inpatient hospitalisation	Episode of costa chondritis	Unrelated	No	Completely recovered	21FEB2014
21033	PLACEBO	23MAY2014	27APR2014	Diagnosis: Abdominal Pain. Likely Costochondrilis. Description: Admitted at 33+4 weeks gestation with abdominal pain. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	29APR2014
21033	PLACEBO	23MAY2014	11APR2014	Diagnosis: Likely Costochondritis. Description: Admitted at 31+2 weeks gestation for observation/monitoring for left sided chest pain. Investigations generally NAD. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition improving	
21033	PLACEBO	02APR2014	28DEC2013	Diagnosis: Non-specific chest pain. Description: Admitted via ambulance with suspected clinical suspicion of a pulmonary embolism. Had left pleuritic chest pain. with shortness of breath and collapse. Severity: Mild.	Involved or prolonged inpatient hospitalisation	Caesarean Section. 03/12/2013.	Unrelated	No	Completely recovered	30DEC2013
21069	PLACEBO	19MAR2014	18FEB2014	Diagnosis: Sepsis. Description: Pyrexial and tachycardic in labour. Raised CRP and white cell count. also platelets reduced. Had IV antibiotics, then oral. Went on septic pathway. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	25FEB2014
21093	PLACEBO	23DEC2013	28NOV2013	Diagnosis: Small antepartum haemorrhage. Description: Admitted to maternity ward overnight for observation as PV bleed. Ectropion noted on cervix. Placenta not low-lying. No pain. 23 weeks gestation. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	29NOV2013
21100	PLACEBO	22APR2014	16APR2014	Diagnosis: Antapartura and Pestpartura Haemonthage. Description: Admitted via ambulance in advanced labour. Spontaneous rupture of membranes. then APH of 120hrst. Fela tradycardita. so torops delivery. Then required MROP and had PPH of 800mis. Total EBL: 2000mis. Returned to delivery suite for close monitoring and had 2 units of blood transfused. Severety. Severe.	Other significant medical events (as defined in protocol)		Unrelated	No	Completely recovered	18APR2014
21109	PLACEBO	09APR2014	03APR2014	Diagnosis: Small APH - nil on examination. Description: Admitted to maternity ward via maternity day unit with lower abdo discomfort/Braxton hicks/red pv loss/unstable lie. Severity: Mild.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes. 19/03/2014 - 08/04/2014.	Unrelated	No	Completely recovered	05APR2014
21109	PLACEBO	19MAR2014	14FEB2014	Diagnosis: Urinary Tract Infection. Description: Symptomatic of UTI and leukocytes in urine. Admitted for treatment and observation to maternity ward for over 12 hours. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	21FEB2014
25165	PLACEBO	07AUG2013	06AUG2013	Diagnosis: Post Partum Haemorrhage. Description: Following an instrumental vaginal delivery of live male infant, participant had a 25 litre blood loss per vagina. Oxyclour administered and homabate. Blood loss stopped. Hardropped from 103g/L to 78.0gL and 2 units of blood administered. Participant stable and improving. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	Unk	Completely recovered	07AUG2013

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
25391	PLACEBO	12MAR2014	07MAR2014	Diagnosis: 1). Musculoskeletal Pain. 2). Depression. Description: Admitted to hospital for observation and analgesia for musculoskeletal pain and depression. Seventy: Mid.	Involved or prolonged inpatient hospitalisation	Depression/ Anxiety. started 2005. ongoing. medication required.	Unrelated	No	Missing	
53072	PLACEBO	30JUN2014	27JUN2014	Diagnosis: Episode of fitting, unknown cause. Description: Singular episode of fitting 5 days posthalal. unknown cause. Admittel to hospital via ambulance. MRL CT. Chesk Toray and blood tests carried out. No admortality found: declined inpatient stay overright for observation and had same day discharge. For follow up at first if clinic. Serveity: moderable. UPDATE (OI of C21014). Diagnosis: Further reported 4-5 episodes of left sided numbeness and ingling on upper body and face. Description: Reported 4-7 soluce pisodes of offinging commencing in left hand and ascending left side of body to face resulting in a heaviness and numb sensation. All occumed within Sweks of FNN Hiepside and talsate around 5 minutes in duration. Nil since. Has had further ECG at neurology clinic which was normal. Still awaiting results of EEG and MR.	Involved or prolonged inpatient hospitalisation Other significant medical events (as defined in protocol)		Unrelated	No	Completely recovered	27JUN2014

Section 13. Serious Adverse Events 13.2.1 SAE related to the babies Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=223	Metformin N=226	Overall N=449
Number of Patient with a SAE (n)	OVERALL	21	14	35
Number of SAE (n)	OVERALL	21	15	36
Number of SAE by relationship (n)	Possibly	1	4	5
	Unrelated	20	11	31
Number of SAE by expectedness (n)	Yes	1	3	4
	No	20	12	32

Section 13. Serious Adverse Events

13.2.1 SAE related to the babies (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	Allocated_Intervention Placebo Metformin 0 1 12 5 5 4 0 1 3 2			
Parameter(s)	Categories	Placebo	Metformin	Overall		
Number of SAE by outcome (n)	Missing	0	1	1		
	Completely recovered	12	5	17		
	Condition still present and unchanged	5	4	9		
	Condition still present and unchanged Death	0	1	1		
	Death	3	2	5		
	Recovered with sequelae	1	2	3		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 00:26 N = number of patients randomised, n = number of observations

Section 13. Serious Adverse Events 13.2.2 SAE related to the babies - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11078	METFORMIN	22JUL2011	22JUL2011	Probable congenital cystic adenomatous malformation (CCAM) of fetal lung detected at routine fetal anomaly scan (conv) be confirmed after delivery of the baby). Follow-p 2002(2014): Diagnosis: Congregatile cystic adenomatous malformation of lung in baby. CCAM detected on routine fetal anomaly scan at 20 weeks gestions: Subsequent/confirmed when child was bom. Child underwert uncomplicated thoracoscopic left lower lobectomy in May 2013. Subsequent follow-up appointment confirms ha wall.	Congenital anomaly/birth defect	Obesity	Unrelated	No	Completely recovered	17MAY2013
12006	METFORMIN	13FEB2012	11FEB2012	Stillbirth at term. IUGR - 2610g	Patient died	Maternal Medical History - Osteogenesis inperfecta type 1	Unrelated	No	Death	
12053	METFORMIN	02SEP2013	02JUN2013	Diagnosis: ?Stillbirth / Neonatal Death. Description: Patient admitted to LW in spontaneous labour. Proceeded to NBFD of female infant. Apgars 0 1. 0 5. 0 10. ?Trisomy 21. ?stillbirth / NND. Severity: Severe	Patient died Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged Death	
12056	METFORMIN	30MAY2013	25APR2013	Stillbirth. Description: Cardiac abnormality noted on USS for fetus. SVD of female infant - stillbirth. Severity: Severe	Patient died Congenital anomaly/birth defect		Unrelated	No	Death	
12083	METFORMIN	08MAY2014	12MAR2014	Diagnosis: Surgery to correct pyloric stenosis. Description: Baby self-referred by parents to AAE with vormiting and dehydration. H/O since 7 days old of vormiting post fields. 13/214 surgery. Ramstedf: Pyloromydomy. Discharged home 16/3/14. No flu Seen 7/5/14 at visit 9. All well. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	07MAY2014
12093	METFORMIN	03APR2014	30MAR2014	Diagnosis: Poor Apgars. 7Infection. Description: Prolonged rupture of membranes - thick meconium at delivery. Poor apgars commenced on IV antibiotics. Biodo cultures negative after 36hrs. CRP < 3 on 01/04/2014. Baby discharged home 01/04/2014. Seventy: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	01APR2014
13147	METFORMIN	14AUG2012	22MAY2012	Diagnosis: Baby diagnosed with PKU Description: Baby diagnosed with PKU on routine blood screening at a week to ten days old. Severity: Severe	Congenital anomaly/birth defect		Unrelated	Yes	Recovered with sequelae	01JUN2012
13528	METFORMIN	05APR2013	24MAR2013	Neonatal hypospadias with chordee. Description: Normal vaginal delivery of male infant at 36-2 (IO. for APH) on 24.3.13. Neonatal hypospadias with chordee noted on paedinitie examination. Baby otherwise well and PU'ng as normal. Referred to unclogy at Alder Hey for follow-up. Follow-up 04/04/2014: Baby diagnosed with hypospadias and referred to Children's hospital for unclogy follow-up. Seventy. Moderate.	Congenital anomaly/birth defect[Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Missing	
13670	METFORMIN	26JUL2013	21JUL2013	Diagnosis: Bilateral undescended testes. Description: Baby diagnosed with bilateral undescended testes. Baby born via normal vaginal delivery on 21/07/13. Undescended testes noted on 154 aream of the networn. conducted by community midwife at home on 23/713. Baby otherwise well, referred to Alder Hey for follow-up. Severity. Moderate	Congenital anomaly/birth defect		Unrelated	No	Recovered with sequelae	26JUL2013
21095	METFORMIN	21MAR2014	20MAR2014	Diagnosis: No diagnosis yet. Description: Baby transferred to neonatal unit jitterylpoor feeding/low BMS. Informed by paed. had significantly low BM's/hypoglycaemia. Raised lactate levels. Septic screen. Seventy: Moderate.	Other significant medical events (as defined in protocol) Involved or prolonged inpatient hospitalisation	Depression (Parent) prior to programcy. ongoing. medication required. Urine Infection (Parent). 17/03/2014. ongoing. medication required.	Possibly	No	Completely recovered	23MAR2014
21099	METFORMIN	21MAR2014	15MAR2014	Diagnosis: Significant Neonatal Jaundice. Description: Baby admitted from home to paediatric ward with significant neonatal jaundice. Phototherapy treatment required. Severity: Severe.	Involved or protonged inpatient hospitalisation) Other significant medical events (as defined in protocol)	Raised BP (Parent). 06/03/2014 - 12/03/2014. no medication required.	Unrelated	No	Completely recovered	18MAR2014
25135	METFORMIN	09JUL2013	08JUL2013	Diagnosis: Congenital Malformation. Description: Circular thoracic kumbar spine lesion. Central 1 x 0.5cm vascular area. within 3 x 1cm area of hypogigemetalism. (Ne hair), 2 vascular malformation / occult spinal dysraphism. Followup 1211113: Diagnosis of Aplasia Cutis Congenita made 110913. Severity: Mil Followup 2801114. Dematologist protos evidence of Liveó. more likely livedo racomosa. Investigating for systemic connoctive tissue disease and fuil tupus scene. Mother reported (200114) clonus in al 4 timbs of Infant therefore referred to neurologist to investigating output of vasculopatity or altoricmity. Modarate.	Congenital anomaly/birth defect		Possibly	No C	ondition still present and unchanged	

Section 13. Serious Adverse Events 13.2.2 SAE related to the babies - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
25180	METFORMIN	250CT2013	150CT2013	Diagnosis: Acrit: Stensis, Description: Mether reported today that an ECG p-U approximation of the second state of the second	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
25180	METFORMIN	11SEP2013	08SEP2013	Diagnosis: Mildly dilated lateral posterior ventricular horns seen on cephalic ultrasound scan of infant of participant on 1009/13. Description: Postnatal scan performed to follow-up antenatal scans showing ventricular measurements at upper end of normal range. Severity: Mild.	Congenital anomaly/birth defect		Possibly	No	Condition still present and unchanged	÷
25459	METFORMIN	29JAN2014	28JAN2014	Diagnosis: Left unilateral talipes. Description: Had anomaly scan at 20 weeks gestation: - the baby was noted to have left unilateral talipes. Severity: Moderate. Follow-up 0/07/14 Diagnosis: Fored Talipes left foor. Fored talipes. Backhips normal. Initial porset jastera applied. To be replaced weekly and continue correction programme. Detected on 20404 anomaly scan. Severity: Moderate.	Congenital anomaly/birth defect	Mother: Right adrenal cyst. started 15/11/2013. ongoing.	Possibly	No	Condition still present and unchanged	
11295	PLACEBO	01FEB2012	31JAN2012	Diagnosis: Congenital cardiac defect Description: Major complex cardiac defect diagnosed on field anomaly scan on 31/11/12-double outlet digit ventricle. VSD: transposition of the great artificies. Nexly pulmonary stronosis. Seventy: Svevere Follow-up 2002/14: Diagnosis: Tetralogy of Faliot in fistus/baby. Tetralogy of Faliot defected on routine anomaly scan. Baby monitored after brint and continues to be followed up by the paediatric cardiology clinic. Corrective surgery is planned for Spring 2014.	Congenital anomaly/birth defect	Obesity	Unrelated	No	Condition still present and unchanged	
11536	PLACEBO	17JUN2013	09MAR2013	Diagnosis: Infection. SVT. Description: baby admitted to RHSC. Edinburgh at 8 days old. diagnosed with an infection at that time. At 12 days old diagnosed with SVT. Seventy: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	23MAR2013
11786	PLACEBO	28APR2014	04NOV2013	Diagnosis: Premature Birth. Description: Born by spontaneous vaginal breech delivery at 30-1 weeks pestation following spontaneous rupture of memizanes at 25 weeks gestation. Admitted to encoded init Silver can und R RIC and 19/11/3 2011/31 then transferred to the Royal Hospital for Silver Charter Edinburgh for surgery on inguinal hermiae. Discharged on 18/01/14. Has had several readmissions to SJH for problems with feeding and suboptimal weight gain. Has a pensistert patert ductus and hospital and has and has recomplication of prematurity. not a congenital canonaly. Severity. Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition still present and unchanged	
11851	PLACEBO	08APR2014	03APR2014	Diagnosis: Right testicular hydrocele, abnormal left testicle. Description: Right testicular hydrocele. abnormal left testicle. Awaiting ultrasound scan and paediatric surgical review. Severitly: Mild.	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
12016	PLACEBO	10SEP2012	21APR2012	Diagnosis: Meconium Aspiration 1. Meconium Aspiration 2. Persistent Pulmonary Hypertension Severity: Severe	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	28APR2012
12039	PLACEBO	16APR2013	24MAR2013	Diagnosis: Respiratory Distress. Description: Baby admitted to SCBU following EMCS for respiratory distress and ? sepsis. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	28MAR2013
12059	PLACEBO	16SEP2013	28JUN2013	Diagnosis: IUGR. Description: Baby admitted to SCBU following C-section due to IUGR and absent EDF. Delivery at 33+3 weeks. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	18JUL2013
12092	PLACEBO	23JUL2014	11JUN2014	Diagnosis: Upper respiratory infection. Viral gastroenteritis. Admitted to children's accident and emergency department with a history of pyrexia and being unsettled and decreased reding. Lumbar puncture performed. IV antibiotics. IV fittidis. Urine NAD. Blood cultures negative. Rhinovirus and entrovirus positive. No physio needed. CSF negative. discharged home 14/06/2014. No follow-up. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	23JUL2014
12111	PLACEBO	22AUG2014	02JUN2014	Diagnosis: weight loss and urinary tract infection Description: attended accident and emergency with vomiting after feeds and weight loss. Commenced on IV antibiotics as urine initite positive: treated for urinary tract infection. Allowed home on leave between IV antibiotic doses 04/08/14. Urine pure growth of e.coli. Discharged home 04/06/14 with 7 days of trimethoprim. No follow up needed Severity: moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	19AUG2014

Section 13. Serious Adverse Events 13.2.2 SAE related to the babies - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
13496	PLACEBO	14FEB2013	11FEB2013	Diagnosis: Baby admitted to NICU for low blood glucose Description: EH diagnosed as gestational diabetic al 36 weeks, managed on det control only. Had elective casarian section on 110.213 at 11 sam. Baby cord blood 2.4mmol. was grunting and had low TBG's on ward. Was admitted to NICU at 22.35 hours 11.02.13. Discharged back b ward with murat 41.415 he next day 12.02.13. Mura and baby discharged home 13.02.13 baby asymptomatic of hypoglycaemia and BF well on discharge. Na attributed to flow peventy. Mild	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	13FEB2013
13591	PLACEBO	26JUL2013	20APR2013	Date of onset: ?? 20/04/2013 (i.e. from 2 weeks old - see below). Diagnosis: Baby developed vascular malformation. Description: Baby diagnosed with a venous malformation on upper shoulder. The baby was born of th April and it was noted at birth or on the first paediatric examination. At the 6 week posthatial check with the GP a birth mark was noted and though to be a hearnangome of infancy. I saw mum at 3 month posthatal visit on 4th July, when I first became aware of the birth mark. but as the wast Tpicked up unlit the baby was 6 weeks old. This was outside of the 28 day posthatal reporting period for EMPOWaR. Mum has since been in touch to say that the birth mark has now been diagnosed as a venous malformation as I is the blood vessels below the actual mark which are causing I to grow and cause a larup. On thirthe questioning mum brinks that the mark may have been there since 2 weeks of life but initially very small. Baby has been referred to a specialist at Alder Hrey for management and possible removal	Congenital anomaly/birth defect	See previous SAE dated 7 5.13: Mother had hospital admission for gall stones at 24 days post natal. Harging follow up at Royal Liverpool Hospital.	Unrelated	No	Recovered with sequelae	26JUL2013
14145	PLACEBO	18JUN2012	18JUN2012	Date of onset: 18.06.12 (cardiac anomalies found on ultrasound), Initial: Fetus has transposition of the great arteries with a ventrifudar septal defect and infimary on 15.06.12. Follow-exit Balay was hown at Lads General Infimary (LG) as he was known to have a sericus cardiac anomaly SSAE sent at the time). Batry died on 19th October 2012 at LIGL. According to his mum (the study participant) this was due to inflection following major cardiac surgery. I am availing confirmation of these details from the research midwives at LIGI and will forward them to you asap.	Congenital anomaly/birth defect	Participant (mother) changed (mother) ch	Unrelated	No	Death	
14413	PLACEBO	03MAR2014	03MAR2014	Diagnosis: Baby delivered with some abnormalities. Description: C/section at 3/3/14 at 12.30 - baby found to have abnormalitoes. fingers and anteriofly placed anus. Left hand is normal. Right hand has an aridide short finger with hypoplastic nail and is twisted. Index finder has an accessory digl. On the right foot the big toe has syndactly and the 3rd toe is not formed. On the left foot. The big toe is syndactly and the 3rd toe not formed. There is only one continnet're between the anus and the posterior forchate. Sevenity, Sevence	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
15028	PLACEBO	17JUN2013	17JUN2013	Diagnosis: Neonatal Death on day 5. Male infant. Description: Neonatal death of infant on day 5 (born 13/06/2013). Baby born at 28+4 weeks of gestation. Preterm rupture of membranes confirmed at 20+4 weeks gestation. Severity: Severe	Patient died	Gestational Diabetes 13/06/2013	Unrelated	No	Death	
16212	PLACEBO	08JAN2014	04JAN2014	Diagnosis: VSD/ASD/PFO on echo. Description: Perimembranous ventricular septal defect with a L-R shunt. 2 x L-R shunt in the patent foramen ovale/Ft cundum region of the atrial septum. Severity: Mild.	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
21018	PLACEBO	05NOV2013	17OCT2013	Diagnosis: Presumed Septis/Pneumonia consolidation. Description: Admitted to neonatal unit shortly after birth for investigations for spreading valacular lesions on the birth birth of the birth provide and an excitate state of the birth	Involved or prolonged inpatient hospitalisation	Vascular lesions. grunting. tachypnoeic. pneumonia. started 17/102013. ended 22/10/2013. medication required.	Unrelated	No	Completely recovered	240CT2013
21038	PLACEBO	16JAN2014	31DEC2013	Diagnosis: Cyanolic episodes. likely vasomotor phenomenon. Description: Admitted to ward 8 via ambulance/A&E7 days old with cyanolic episodes 10 times a day lasting 3 - 5 mins. Investigations all non-all. Discharged home 02/01/2014. No further admissions. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	02JAN2014

Section 13. Serious Adverse Events

13.2.2 SAE related to the babies - Details

Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
21047	PLACEBO	22APR2014	22JAN2014	Diagnosis: RSV positive bronchiolitis. Description: Admitted to paediatric ward at 2 weeks old with cough and increased work of breathing. Required oxygen and help with NG feeds for a few days. Gradually recovered. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes (Mother). 17/12/2013 - 08/01/2014.	Unrelated	No	Completely recovered	30JAN2014
21069	PLACEBO	19MAR2014	18FEB2014	Diagnosis: Maninglis/Egrais. Description: Admitted to Neonatal Unit shortly after birth jitary/matemal sepsis. Haid dusky episodes/desutrations/aprocess/sa/and/ce/sepsis. Ventilated. Meningitis diagnosed. / Cenebral Haemonhage. Seventy: Severe.	Involved persistent or significant disability or incapacity Involved or prolonged inpatient hospitalisation	Sepsis in labour/maternal infection (Parent). 18/02/2014 - 25/02/2014. medication required.	Unrelated	No	Completely recovered	07MAR2014
21119	PLACEBO	06JAN2014	02JAN2014	Diagnosis: Congenital Anomaly. Description: Anomaly ultrasound scan showed structural abnormalities to hands and feet. Appearances suggestive of split hand and foot syndrome. Severity: Severe	Patient died Congenital anomaly/birth defect		Unrelated	No	Death	
25320	PLACEBO	03FEB2014	31JAN2014	Diagnosis: ? Hirschsprungs in neonate. Description: Distended stornach on antenatal scars. At birth neonate admitted to NNU then transfer to tertiary centre same day (Notingham Queers Macical). Severth; Severe. Follow-up 27/02/2014: Subsequently resolved. no pathology. baby discharged. Severthy: Severe.	Congenital anomaly/birth defect		Unrelated	No	Completely recovered	27FEB2014

EMPOWaR: Efficacy of Metformin in Pregnant Obese Women, a Randomised Controlled Trial Funding reference number: 08/246/09 (NIHR Efficacy and Mechanism Evaluation Programme) EudraCT number 2009-017134-47

Statistical Report

Population = Per-Protocol (PP) - AllocatedTreatment used for analysis Report number: 02

Confidential

Data set analysed as it was on:

29 April 2015

Section 1. Disposition / data checks 1.1 Patient disposition before randomisation - All Centres

		Overall
Parameter(s)	Categories	Count (n(%)
All patients in DB (n(%))	Yes	4867 (100)
Declined reason (n(%))	Subject participate has declined	2861 (58.8)
	Other Reason	57 (1.2)
	Failed Exclusion	100 (2.1)
	Failed Inclusion	626 (12.9)
	Failed both Exclu and Inclu	4 (0.1)
	Did not decline and pass IN_EX but not rand*	10 (0.2)
	Did not attend appointment	8 (0.2)
	Unable to contact	752 (15.5)
	Did not decline and pass IN_EX and rand	449 (9.2)

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 By: Ary

 n = number of observations
 *These patients (13045 13053 13084 13102 13117 13121 13122 13123 13168 13189) were screened as eligible, but then they subsequently declined or were no longer contactable
 NOTE: These patients (11562 11892 13047 13065) were randomised but also have a reason to decline

Section 1. Disposition / data checks 1.2.1.1 Patient disposition after randomisation - All Centres Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Consented/randomised (n(%))	Yes	118 (100)	109 (100)	227 (100)
Disposition in database (n(%))	Active	116 (98.3)	107 (98.2)	223 (98.2)
	Lost to follow up	1 (0.8)	0	1 (0.4)
	Participant withdrawn	1 (0.8)	2 (1.8)	3 (1.3)
Outcome (z score) available* (n(%))	Yes - Live Birth	117 (99.2)	108 (99.1)	225 (99.1)
	No - Termination of Pregnancy	1 (0.8)	0	1 (0.4)
	No - Not available	0	1 (0.9)	1(0.4)
Outcome (Glucose test) avalilable# (n(%))	Yes	103 (87.3)	92 (84.4)	195 (85.9)
	No	15 (12.7)	17 (15.6)	32 (14.1)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Available at visit 8 (Delivery) - the latest date of delivery (DOD) was 14JUL2014, for Patient 1 By: Aryelly Rodriguez - ECTU Statistician

*Available at visit 8 (Delivery) - the latest date of delivery (DOD) was 14JUL2014, for Patient 13508 outcome was miscarriage and for Patient 12074 outcome was alive birth, these labels were assigned post database lock #Available at visit 6 (36 Weeks) - checks: test date, base value and two hr value must be present

Section 1. Disposition / data checks

1.2.1.2 Patient disposition after randomisation - All Centres - Consort figures Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Treatment distributed(n(%))	Data available	118 (100)	109 (100)	227 (100)		
Outcome (z score) available* (n(%))	Data available	117 (99.2)	108 (99.1)	225 (99.1)		
	Withdrawn post treatment	0	1 (0.9)	1 (0.4)		
	Termination of Pregnancy	1 (0.8)	0	1 (0.4)		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = number of observations *Available at visit 8 (Delivery) IMPORTANT NOTES on manual identification: Patients 12046 and 12047 withdrawn pre treatment Patients 17063, 27317 and 18113 withdrawn post treatment Patients 12041, 12086 and 21119 were identified as miscarriage but they were termination of pregnacies TOP

Section 1. Disposition / data checks

1.2.1.2 Patient disposition after randomisation - All Centres - Consort figures (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Follow up Visit 9 data available* (n(%))	Data available	90 (76.3)	91 (83.5)	181 (79.7)	
	Did not attend the visit	25 (21.2)	16 (14.7)	41 (18.1)	
	Decline to further participate	1 (0.8)	1 (0.9)	2 (0.9)	
	Lost to follow up	1 (0.8)	0	1 (0.4)	
	Withdrawn post treatment	0	1 (0.9)	1 (0.4)	
	Termination of Pregnancy	1 (0.8)	0	1 (0.4)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Available at visit 9 (3 months postnatal) IMPORTANT NOTES on manual identification: Patients 15028, 12053 and 14145 were alive births but died after delivery (from SAE forms)

Section 1. Disposition / data checks 1.2.2 Study Populations - All Centres

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Randomised - ITT population (n(%))*	Yes	223 (100)	226 (100)	449 (100)
IMP at least once (n(%))#	Missing	46	59	105
	No	8 (4.5)	9 (5.4)	17 (4.9)
	Yes	169 (95.5)	158 (94.6)	327 (95.1)
Compliant - PP population (n(%))\$	Missing	46	59	105
	No	59 (33.3)	58 (34.7)	117 (34.0)
	Yes	118 (66.7)	109 (65.3)	227 (66.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *The intention to treat (ITT) population will comprise all randomised subjects #Members of the ITT population who took IMP at least once \$The per-protocol (PP) population will comprise those members of the ITT population who completed the study without a major protocol violation and who complied adequately with the randomised treatment, further details of treatment compliance are in table 3.2.2 of this report

Section 1. Disposition / data checks

1.3 Patient disposition - Minimisation variables Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Centres (n(%))	Royal Infirmary of Edinburgh	32 (27.1)	36 (33.0)	68 (30.0)	
	Coventry	14 (11.9)	8 (7.3)	22 (9.7)	
	Liverpool Womens Hospital	26 (22.0)	19 (17.4)	45 (19.8)	
	Sheffield	11 (9.3)	7 (6.4)	18 (7.9)	
	Notts City	3 (2.5)	4 (3.7)	7 (3.1)	
	Notts QMC	5 (4.2)	5 (4.6)	10 (4.4)	
	Bradford	3 (2.5)	3 (2.8)	6 (2.6)	
	St Helens	1 (0.8)	2 (1.8)	3 (1.3)	
	Chelsea and Westminster	0	1 (0.9)	1 (0.4)	
	Preston	15 (12.7)	15 (13.8)	30 (13.2)	
	Arrow Park Wirral	0	1 (0.9)	1 (0.4)	
	Chesterfield	8 (6.8)	8 (7.3)	16 (7.0)	
BMI band at randomisation*(n(%))	30-39 Kg/m^2	80 (67.8)	73 (67.0)	153 (67.4)	
	>40 Kg/m^2	38 (32.2)	36 (33.0)	74 (32.6)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *For patients 11693 and 17059, BMI was calculated at randomisation using the height in m instead of cm, as a consequence the results were respectively 375390 and 352955 kg/m^2 and these patients landed in the >40 kg/m² BMI band, their calculated BMI were 37.5 and 35.50 kg/m²

Section 1. Disposition / data checks 1.4 Data Completeness by time point Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated Regimen				
Patients CRF Completeness	METFO	RMIN	PLACEBO		
by CRF SECTIONS	Visit atte	ndad	Visit attended		
	VISIL ALL	enueu	allen	ueu	
	Yes	No	Yes	No	
VISIT 1 (SCREENING)	109	0	118	0	
VISIT 2 (BASELINE)	109	0	118	0	
VISIT 3 (RANDOMISATION)	109	0	118	0	
VISIT 4 (18 TO 20 WEEKS)	108	1	115	3	
VISIT 5 (28 WEEKS)	109	0	117	1	
VISIT 6 (36 WEEKS)	96	13	107	11	
VISIT 7 (TERM)	52	57	55	63	
VISIT 8 (DELIVERY)	106	3	115	3	
VISIT 9 (FINAL)	91	18	90	28	

Section 1. Disposition / data checks 1.4 Data Completeness by time point Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated Regimen			
Patients CRF Completeness	OVERALL			
by CRF SECTIONS	Visit attended			
	Yes	No		
VISIT 1 (SCREENING)	227	0		
VISIT 2 (BASELINE)	227	0		
VISIT 3 (RANDOMISATION)	227	0		
VISIT 4 (18 TO 20 WEEKS)	223	4		
VISIT 5 (28 WEEKS)	226	1		
VISIT 6 (36 WEEKS)	203	24		
VISIT 7 (TERM)	107	120		
VISIT 8 (DELIVERY)	221	6		
VISIT 9 (FINAL)	181	46		

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.1 Maternal Age Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Age at consent (years)	Mean	29.6	29.8	29.7
	Median	29.0	30.0	30.0
	SD	5.0	5.6	5.3
	MIN,MAX	20,43	19,42	19,43
	Q1,Q3	26,33	25,34	25,34
	n	118	109	227
	Nmiss	0	0	0

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.2 Maternal Life Style Status Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Smoking Status (n(%))	ACTIVE	13 (11.0)	13 (11.9)	26 (11.5)
	PREVIOUSLY	6 (5.1)	6 (5.5)	12 (5.3)
	NOT SMOKING	99 (83.9)	90 (82.6)	189 (83.3)
Alcohol During Pregnancy (n(%))	Yes	6 (5.1)	0	6 (2.6)
	No	112 (94.9)	109 (100)	221 (97.4)
Illicit Drug Status (n(%))	NOT USING	118 (100)	109 (100)	227 (100)

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.3 Maternal Education Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Educational Qualifications (n(%))	No formal qualifications	8 (6.8)	3 (2.8)	11 (4.8)
	Entry level certification/foundation diploma	2 (1.7)	5 (4.6)	7 (3.1)
	GCSE, Standard grade, "O" grades	27 (22.9)	18 (16.5)	45 (19.8)
	A level, A/S level, Highers or BTEC Dip/Cert.	21 (17.8)	15 (13.8)	36 (15.9)
	Cert. higher Education, City & Guilds	9 (7.6)	9 (8.3)	18 (7.9)
	Diploma HE/FE or HND/HNC	19 (16.1)	14 (12.8)	33 (14.5)
	Graduate certificate or Diploma	2(1.7)	5(4.6)	7 (3.1)
	Degree	20 (16.9)	35 (32.1)	55 (24.2)
	Professional Qualification	2 (1.7)	2 (1.8)	4 (1.8)
	PGCE/Postgraduate certificate or Diploma, Masters. Doctorate	8 (6.8)	3 (2.8)	11 (4.8)
Educational Qualifications coded (n(%))	None	8 (6.8)	3 (2.8)	11 (4.8)
	School up to 16 years	29 (24.6)	23 (21.1)	52 (22.9)
	School 16 to 18 years	30 (25.4)	24 (22.0)	54 (23.8)
	College or Uni degree or Higher	51 (43.2)	59 (54.1)	110 (48.5)

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Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.1 Previous pregnacy status* PARITY 1 Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
PARITY1 (n(%))	0	44 (37.3)	54 (49.5)	98 (43.2)	
	=>1	74 (62.7)	55 (50.5)	129 (56.8)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Only pregnacies lasting at least 24 weeks or more were considered

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.2 Previous pregnacy status* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Number of Previous Pregnancies (n(%))	0	31 (26.3)	41 (37.6)	72 (31.7)
	1	41 (34.7)	28 (25.7)	69 (30.4)
	2	22 (18.6)	18 (16.5)	40 (17.6)
	3	10 (8.5)	12 (11.0)	22 (9.7)
	4	6 (5.1)	5 (4.6)	11 (4.8)
	5	6 (5.1)	1 (0.9)	7 (3.1)
	6	1 (0.8)	1 (0.9)	2 (0.9)
	7	1 (0.8)	2 (1.8)	3 (1.3)
	8	0	1 (0.9)	1 (0.4)
At least one Prev Preg* (n(%))	Yes	87 (73.7)	68 (62.4)	155 (68.3)
	No	31 (26.3)	41 (37.6)	72 (31.7)

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*Only pregnacies lasting at least 12 weeks or more were considered regardless of outcome and if a patient had more than one previous pregnancy, only her latest pregnancy was counted

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.4.3 Previous Pregnancy details* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Multiple Pregnancy#(%)	Yes	2 (2.3)	1 (1.5)	3 (1.9)
	No	85 (97.7)	67 (98.5)	152 (98.1)
Gestation of Pregnancy#(weeks)(n(%))	<12	21 (24.1)	19 (27.9)	40 (25.8)
	12<22	0	3 (4.4)	3 (1.9)
	>22	66 (75.9)	46 (67.6)	112 (72.3)
Last Pregnancy Outcome#(%)	Miscarriage	15 (17.2)	18 (26.5)	33 (21.3)
	Ectopic	1 (1.1)	1 (1.5)	2 (1.3)
	Termination of Pregnancy	5 (5.7)	3 (4.4)	8 (5.2)
	Live Birth	66 (75.9)	46 (67.6)	112 (72.3)
Pre term Birth#(n(%))	Missing	13	16	29
	Yes	3(4.1)	2 (3.8)	5(4.0)
	No	71 (95.9)	50 (96.2)	121 (96.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Only pregnacies lasting at least 12 weeks or more were considered regardless of outcome and if a patient had more than one previous pregnancy, only her latest pregnancy was counted #Only summarised for patiens who has a previous pregnancy in the previous table

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.5 Maternal Blood Pressure at baseline Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Systolic BP (mmHg)	Mean	119.3	117.1	118.3
	Median	120.0	118.0	119.0
	SD	11.2	11.3	11.3
	MIN,MAX	100,142	91,148	91,148
	Q1,Q3	110,129	110,124	110,127
	n	118	109	227
	Nmiss	0	0	0
Maternal Diastolic BP (mmHg)	Mean	69.0	68.5	68.8
	Median	69.5	70.0	70.0
	SD	7.7	7.9	7.8
	MIN,MAX	54,90	49,86	49,90
	Q1,Q3	64,74	60,74	61,74
	n	118	109	227
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 2. Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle 2.1.6 Current pregnancy details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Ultrasound Confirmation (n(%))	Yes	117 (99.2)	109 (100)	226 (99.6)
	No	1 (0.8)	0	1 (0.4)
Gestation at baseline* (days)	Mean	98.9	100.0	99.4
	Median	100.0	100.0	100.0
	SD	9.0	7.9	8.5
	MIN,MAX	71,112	74,112	71,112
	Q1,Q3	92,106	95,107	94,107
	n	118	109	227
	Nmiss	0	0	0

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.1 Putative father Age Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Paternal age (years)	Mean	32.3	32.0	32.2	
	Median	32.0	32.0	32.0	
	SD	6.2	6.0	6.1	
	MIN,MAX	15,50	21,46	15,50	
	Q1,Q3	28,36	27,37	28,36	
	n	117	108	225	
	Nmiss	1	1	2	

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.2 Putative father Height and Weight Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Paternal height (cm)	Mean	178.5	177.9	178.2
	Median	178.0	178.0	178.0
	SD	7.8	13.2	10.7
	MIN,MAX	156,200	76,196	76,200
	Q1,Q3	173,183	174,185	174,183
	n	107	100	207
	Nmiss	11	9	20
Paternal weight (Kg)	Mean	92.1	94.6	93.3
	Median	89.7	89.0	89.1
	SD	21.9	27.7	24.8
	MIN,MAX	57,148	57,196	57,196
	Q1,Q3	74,105	77,108	76,107
	n	102	95	197
	Nmiss	16	14	30

Section 2. Baseline - Visit 2 (10-16 Weeks) - Putative father 2.2.3 Putative father Ethnicity Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Ethnic Origin (n(%))	White	114 (96.6)	101 (92.7)	215 (94.7)
	Non-White	4 (3.4)	8 (7.3)	12 (5.3)
Ethnic Origin-More detail (n(%))	White	114 (96.6)	101 (92.7)	215 (94.7)
	Mixed	1 (0.8)	2 (1.8)	3 (1.3)
	Asian	0	2 (1.8)	2 (0.9)
	Black	2(1.7)	3 (2.8)	5 (2.2)
	Othe Ethnic group	1 (0.8)	1 (0.9)	2 (0.9)

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.1 Preeclampsia or Hypertension / Hypertension Requiring Treatment Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Preeclampsia or Hypertension (n(%))	Yes	3 (2.5)	6 (5.5)	9 (4.0)
	No	115 (97.5)	103 (94.5)	218 (96.0)
Currently taking Medication (n)	No	3	6	9
Hypertension Require Treatment (n(%))	Yes	1 (0.8)	1 (0.9)	2 (0.9)
	No	117 (99.2)	108 (99.1)	225 (99.1)
Currently taking Medication (n)	No	1	1	2

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.2 Polycystic Ovarian Syndrome / Depression Requiring Treatment Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Polycystic Ovarian Syndrome (n(%))	Yes	14 (11.9)	16 (14.7)	30 (13.2)
	No	103 (87.3)	92 (84.4)	195 (85.9)
	Unk	1 (0.8)	1 (0.9)	2 (0.9)
Currently taking Medication (n)	No	14	16	30
Depression Require Treatment (n(%))	Yes	33 (28.0)	24 (22.0)	57 (25.1)
	No	85 (72.0)	85 (78.0)	170 (74.9)
Currently taking Medication (n)	Yes	5	4	9
	No	28	20	48

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Medical history 2.3.3 Anxiety Requiring Treatment / Use of Steriods Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Anxiety Require Treatment (n(%))	Yes	7 (5.9)	7 (6.4)	14 (6.2)
	No	111 (94.1)	102 (93.6)	213 (93.8)
Currently taking Medication (n)	Yes	2	1	3
	No	5	6	11
Use of Steriods (n(%))	Yes	12 (10.2)	7 (6.4)	19 (8.4)
	No	106 (89.8)	102 (93.6)	208 (91.6)
Currently taking Medication (n)	Yes	12	7	19

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother Family history 2.4 Any family history for the following conditions Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Medical History* (n(%))	Yes	73 (61.9)	76 (69.7)	149 (65.6)
	No	42 (35.6)	32 (29.4)	74 (32.6)
	Unk	3 (2.5)	1 (0.9)	4 (1.8)
Cardiovascular disease (n(%))	Yes	41 (34.7)	31 (28.4)	72 (31.7)
	No	74 (62.7)	77 (70.6)	151 (66.5)
	Unk	3 (2.5)	1 (0.9)	4 (1.8)
Diabetes(n(%))	Yes	54 (45.8)	47 (43.1)	101 (44.5)
	No	62 (52.5)	61 (56.0)	123 (54.2)
	Unk	2 (1.7)	1 (0.9)	3 (1.3)
Preeclampsia(n(%))	Yes	8 (6.8)	4 (3.7)	12 (5.3)
	No	107 (90.7)	102 (93.6)	209 (92.1)
	Unk	3 (2.5)	3 (2.8)	6 (2.6)
Any other medical history(n(%))	Yes	58 (49.2)	57 (52.3)	115 (50.7)
	No	60 (50.8)	52 (47.7)	112 (49.3)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By N = number of patients randomised, n = number of observations *In order to be yes, at least one condition below must be present, for no all conditions below must be also no

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.1 Mother Anthropometry / Height and Weight* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Height (cm)	Mean	166.1	165.8	166.0
	Median	166.2	165.5	166.0
	SD	6.0	5.7	5.9
	MIN,MAX	152,184	153,180	152,184
	Q1,Q3	162,170	162,170	162,170
	n	118	109	227
	Nmiss	0	0	0
Maternal Weight (kg)	Mean	103.74	104.04	103.88
	Median	98.33	104.00	101.30
	SD	16.95	15.22	16.10
	MIN,MAX	75.6,154.0	74.0,140.3	74.0,154.0
	Q1,Q3	90.6,114.6	93.3,115.0	92.0,115.0
	n	118	109	227
	Nmiss	0	0	0

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.2 Mother Anthropometry / BMI_c and Waist* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal BMI Calculated (kg/m^2)	Mean	37.549	37.782	37.661
	Median	36.583	37.494	37.036
	SD	5.462	4.708	5.104
	MIN,MAX	30.23,52.79	30.08,47.87	30.08,52.79
	Q1,Q3	33.14,41.25	34.27,41.45	33.56,41.28
	n	118	109	227
	Nmiss	0	0	0
Maternal Waist (cm)	Mean	108.32	108.57	108.44
	Median	106.00	108.60	107.00
	SD	12.58	11.20	11.91
	MIN,MAX	85.0,148.0	84.0,134.0	84.0,148.0
	Q1,Q3	98.5,118.0	100.5,117.0	100.0,117.0
	n	118	109	227
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.3 Mother Anthropometry / Hip and MidArm* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Hip (cm)	Mean	126.80	127.50	127.14
	Median	125.00	126.00	125.00
	SD	11.58	12.22	11.87
	MIN,MAX	103.5,155.0	100.0,155.0	100.0,155.0
	Q1,Q3	118.0,133.5	119.0,136.0	118.5,134.0
	n	118	109	227
	Nmiss	0	0	0
Maternal Mid Arm (cm)	Mean	36.63	37.05	36.83
	Median	36.00	37.00	36.00
	SD	4.75	4.42	4.59
	MIN,MAX	22.0,48.0	28.0,52.0	22.0,52.0
	Q1,Q3	34.0,39.0	34.0,39.4	34.0,39.0
	n	117	106	223
	Nmiss	1	3	4

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.4 Mother Anthropometry / Mid Thigh and Tricep Skinfold* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Mid Thigh (cm)	Mean	64.22	65.34	64.75
	Median	64.25	64.00	64.00
	SD	7.31	7.00	7.17
	MIN,MAX	25.0,84.0	50.0,86.0	25.0,86.0
	Q1,Q3	60.0,68.8	61.0,69.0	60.0,69.0
	n	116	106	222
	Nmiss	2	3	5
Maternal Tricep Skinfold (mm)	Mean	33.326	32.564	32.960
	Median	31.200	31.500	31.200
	SD	9.379	9.659	9.501
	MIN,MAX	15.00,62.00	10.00,66.00	10.00,66.00
	Q1,Q3	27.00,40.00	26.00,38.70	26.50,39.00
	n	117	108	225
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Baseline - Visit 2 (10-16 Weeks) - Mother details 2.5.5 Mother Anthropometry / Bicep Skinfold and Subscapular Skinfold* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Maternal Bicep Skinfold (mm)	Mean	27.362	27.824	27.584
	Median	25.000	26.000	25.500
	SD	10.087	10.707	10.369
	MIN,MAX	8.50,60.00	9.00,61.00	8.50,61.00
	Q1,Q3	21.00,32.00	20.00,33.00	20.80,32.40
	n	117	108	225
	Nmiss	1	1	2
Maternal Subscapular Skinfold (mm)	Mean	35.313	34.784	35.059
	Median	34.000	33.000	34.000
	SD	11.026	11.730	11.346
	MIN,MAX	12.00,67.80	9.90,67.00	9.90,67.80
	Q1,Q3	28.00,40.60	26.50,40.00	27.00,40.00
	n	117	108	225
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Compliance

3.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated* Gestation - Visit 1 (days)	Mean	86.2	86.3	86.3
	Median	87.5	88.0	88.0
	SD	14.1	13.6	13.9
	MIN,MAX	51,112	52,112	51,112
	Q1,Q3	76,97	79,95	79,96
	n	118	109	227
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	98.9	100.0	99.4
	Median	100.0	100.0	100.0
	SD	9.0	7.9	8.5
	MIN,MAX	71,112	74,112	71,112
	Q1,Q3	92,106	95,107	94,107
	n	118	109	227
	Nmiss	0	0	0

Section 3. Compliance

3.1 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated* Gestation - Visit 3 (days)	Mean	101.4	101.6	101.5
	Median	103.0	102.0	102.0
	SD	8.2	7.2	7.7
	MIN,MAX	84,118	85,113	84,118
	Q1,Q3	95,108	97,108	96,108
	n	118	109	227
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	141.6	139.8	140.7
	Median	140.0	140.0	140.0
	SD	11.4	7.6	9.7
	MIN,MAX	108,198	124,166	108,198
	Q1,Q3	136,146	134,143	135,145
	n	116	108	224
	Nmiss	2	1	3

Section 3. Compliance 3.1 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated* Gestation - Visit 5 (days)	Mean	196.9	197.3	197.1
	Median	197.0	197.0	197.0
	SD	6.7	6.3	6.5
	MIN,MAX	155,224	167,226	155,226
	Q1,Q3	194,200	195,200	194,200
	n	118	109	227
	Nmiss	0	0	0
Calculated* Gestation - Visit 6 (days)	Mean	252.2	253.6	252.9
	Median	253.0	253.5	253.0
	SD	10.3	4.9	8.2
	MIN,MAX	155,263	234,266	155,266
	Q1,Q3	250,256	251,256	251,256
	n	109	102	211
	Nmiss	9	7	16

Section 3. Compliance 3.1 Gestation by timepoint - Visit 7 Term (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated* Gestation - Visit 7 (days)	Mean	285.7	277.9	281.8
	Median	276.5	277.0	277.0
	SD	90.8	16.7	65.4
	MIN,MAX	155,1011	250,393	155,1011
	Q1,Q3	273,282	273,281	273,281
	n	68	67	135
	Nmiss	50	42	92
Calculated* Gestation - Visit 8 (days)	Mean	279.9	278.0	279.0
	Median	281.0	278.0	280.0
	SD	21.2	13.2	17.8
	MIN,MAX	155,375	216,337	155,375
	Q1,Q3	273,289	271,285	271,287
	n	118	108	226
	Nmiss	0	1	1

Section 3. Compliance 3.1 Gestation by timepoint - Visit 8 Delivery (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Recorded* Gestation - Visit 8 (days)	Mean	276.6	276.6	276.6
	Median	277.5	278.0	278.0
	SD	17.1	11.5	14.7
	MIN,MAX	152,297	219,297	152,297
	Q1,Q3	271,287	271,284	271,285
	n	118	108	226
	Nmiss	0	1	1
Coded R_gestation - Visit 8 (n(%))	Missing	0	1	1
	<= 24 WEEKS	1 (0.8)	0	1 (0.4)
	>24 and <=37 WEEKS	4 (3.4)	8 (7.4)	12 (5.3)
	>37 WEEKS	113 (95.8)	100 (92.6)	213 (94.2)

Section 3. Compliance 3.2.1 Treatment compliance / Tablets returned by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Tablets Returned Visit 5 (28 Weeks) (n(%))	Missing	20	11	31	
	Yes	9 (9.2)	6 (6.1)	15 (7.7)	
	No	89 (90.8)	92 (93.9)	181 (92.3)	
Tablets Returned Visit 8 (Delivery) (n(%))	Missing	19	9	28	
	Yes	53 (53.5)	57 (57.0)	110 (55.3)	
	No	46 (46.5)	43 (43.0)	89 (44.7)	

Section 3. Compliance

3.2.2 Treatment compliance Calculated using the patient diary (as per SAP) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated Compliance* (n(%))	Yes	118 (100)	109 (100)	227 (100)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47

By: Aryelly Rodriguez - ECTU Statistician

N = number of patients randomised, n = number of observations

*The number of weeks that a patient was pregnant within the study period was calculated using the gestation at baseline and the gestation at delivery, this value was then halved and compared to the number of weeks recorded in the diary, if a patient has less week diary entries than the halved total weeks then she is non-compliant straight away. If a patient had equal or more week diary entries than halved total weeks then it was required that she taken at least one pill for 4 days in order to declare a compliant week. Finally for being treatment compliant the patient should have equal or more than 50% of compliant weeks out of all available weeks

Section 3. Compliance

3.2.3.1 Cross Check* of Treatment compliance Calculated# vs tablets returned - Visit 5 (28 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Compliance	Allocated Regimen				
by tablets retuned at	METFORMIN		PLAC	EBO	
visit 5	Tablets returned		Tablets returned		
	Yes No		Yes	No	
Compliance					
Yes	6	92	9	89	

Compliance	Alloca Regii	atou	
by tablets retuned at	OVEF	RALL	
visit 5	Tablets returned		
	Yes	No	
Compliance			
Yes	15	181	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report

Section 3. Compliance

3.2.3.2 Cross Check* of Treatment compliance Calculated# vs tablets returned - Visit 8 Delivery Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Compliance	Allocated Regimen			
by tablets retuned at	METFO	RMIN	PLAC	EBO
visit 8	Tablets returned		Tablets returned	
	Yes No		Yes	No
Compliance				
Yes	57	43	53	46

Compliance	Allocated Regimen			
by tablets retuned at	OVERALL			
visit 8	Tablets returned			
	Yes	No		
Compliance				
Yes	110	89		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

By: Aryelly Rodriguez - ECTU Statistician

*This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report

Section 3. Compliance 3.3 Treatment compliance / Metformin level in blood samples at Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Metformin level (ng/mL)	Mean	1.5	90.8	43.6	
	Median	0.0	28.5	0.0	
	SD	11.6	210.5	151.1	
	MIN,MAX	0,110	0,1611	0,1611	
	Q1,Q3	0,0	1,75	0,27	
	n	93	83	176	
	Nmiss	25	26	51	
Any Metformin level coded (n(%))	Missing	25	26	51	
	Yes	7 (7.5)	63 (75.9)	70 (39.8)	
	No	86 (92.5)	20 (24.1)	106 (60.2)	

Section 3. Compliance

3.4 Cross Check* of Treatment compliance Calculated# vs Metformin level in blood samples at Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Compliance by metformin	Allocated Regimen				
level at visit	METFO	RMIN	PLAC	EBO	
6	Any Metformin		An Metfo		
	Yes	No	Yes	No	
Compliance	_				
Yes	63	20	7	86	

Compliance by metformin	Alloca Regir	100
level at visit	OVEF	RALL
6	An Metfo	
	Yes	No
Compliance		
Yes	70	106

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *This table is just a compleness check and its outcome did not affect the ITT, safety or the PP population #Compliance is explained in table 3.2.2 of this report and in the SAP

Section 4. Secondary Outcome - All Patients 4.1.1.1.1 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Delivery Method (n(%))	Missing	0	1	1
	Spontaneous vaginal delivery	64 (54.2)	65 (60.2)	129 (57.1)
	LSCS in labour	18 (15.3)	14 (13.0)	32 (14.2)
	LSCS pre labour	25 (21.2)	17 (15.7)	42 (18.6)
	Forceps/ventouse	11 (9.3)	12 (11.1)	23 (10.2)
C-SECTION index pregnancy (n(%))	Missing	0	1	1
	Yes	43 (36.4)	31 (28.7)	74 (32.7)
	No	75 (63.6)	77 (71.3)	152 (67.3)
Primary C-SECTION in index pregancy (n(%))	Missing	0	1	1
	Yes	25 (21.2)	22 (20.4)	47 (20.8)
	No	93 (78.8)	86 (79.6)	179 (79.2)

c_section_pp AllocatedTreatment METFORMIN vs PLACEBO

Section 4. Secondary Outcome - All Patients 4.1.1.1.2 Birth Outcome - C-SECTION current pregnancy - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of CS						
	AllocatedTreatment(Allocated Treatment)						
	coded (Y/N))	METFORMIN	PLACEBO	Total			
	Missing	1	0				
	Yes	31	43	74			
	No	77	75	152			
	Total	108	118	226			
		Frequency Missing	= 1				
		Studied	Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Parameter(s)	e	effects	Estimate	Ratio	Ratio	P-value#	P-value#

0.702

0.401

1.230

0.2165

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is csec='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_4_1_1_1_c_section.lst'

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0.2566

Section 4. Secondary Outcome - All Patients 4.1.1.1.3 Birth Outcome - First ever C-SECTION - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of first_c_section by AllocatedTreatment				
	first_c_section(First ever c-section in current pregnancy	Allocated	ated		
	(Y/N))	METFORMIN	PLACEBO	Total	
	Missing	1	0		
	Yes	22	25	47	
	No	86	93	179	
	Total	108	118	226	
	ŀ	Frequency Missing = 1			

Parameter(s)	Studied effects	Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
first_csec_pp	AllocatedTreatment METFORMIN vs PLACEBO	0.952	0.500	1.811	0.8800	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is first_csec='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_4_1_1_1_c_section.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.2.1 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Delivery Blood Loss (mL)	Mean	519.2	500.0	510.0	
	Median	400.0	400.0	400.0	
	SD	407.7	550.8	480.9	
	MIN,MAX	100,2000	50,5000	50,5000	
	Q1,Q3	250,600	250,600	250,600	
	n	114	106	220	
	Nmiss	4	3	7	
Hemorrhage* (n(%))	Missing	4	3	7	
	Yes	13 (11.4)	9 (8.5)	22 (10.0)	
	No	101 (88.6)	97 (91.5)	198 (90.0)	
SAE recorded due to Hemorrhage# (n(%))	Missing	0	1	1	
	Yes	5	4	9	
	No	8	4	12	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Hemorrhage defined as a blood loss greater than 1000ml #Only summarised for patients with hemorrhage=yes in the item right above

Section 4. Secondary Outcome - All Patients 4.1.1.1.2.2 Birth Outcome - Hemorrhage - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of HE						
	HEMORRHAGE(Heamo		AllocatedTreatment(Allocated Treatment)				
	(Y/N))	METFORMIN	PLACEBO	Total			
	Missing	3	4				
	Yes	9	13	22			
	No	97	101	198			
	Total	106	114	220			
	Frequency Missing = 7						
		Studied	Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Paramete	Parameter(s) effe		Estimate		Ratio	P-value#	P-value#
HEMORRHA	AGE_pp AllocatedTreatme	ent METFORMIN vs PLA	CEBO 0.721	0.295	1.763	0.4732	0.5079

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Hemorr='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 1 1 1 postpartum hemorrhage analysis.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.3 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Labour Type (n(%))	Missing	0	1	1
	Spontaneous	45 (38.1)	44 (40.7)	89 (39.4)
	Induced	51 (43.2)	47 (43.5)	98 (43.4)
	C-section	22 (18.6)	17 (15.7)	39 (17.3)
Non Spontaneous Reason* (n(%))	Missing	0	1	1
	Post dates	15 (20.5)	8 (12.5)	23 (16.8
	Pre-eclampsia	3 (4.1)	2(3.1)	5 (3.6)
	Abruption	0	1 (1.6)	1 (0.7)
	Other maternal condition	21 (28.8)	28 (43.8)	49 (35.8)
	Previous C-section	14 (19.2)	4 (6.3)	18 (13.1)
	Previous obstetric history (other)	3 (4.1)	2(3.1)	5 (3.6)
	Maternal request	5 (6.8)	3 (4.7)	8 (5.8)
	Suspected fetal compromise	4 (5.5)	8 (12.5)	12 (8.8)
	Malpresentation	3 (4.1)	4 (6.3)	7 (5.1)
	Suspected IUGR	3 (4.1)	0	3 (2.2)
	Suspected Macrosomia	2 (2.7)	4 (6.3)	6 (4.4)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Only recorded for induced and c-section above

Section 4. Secondary Outcome - All Patients 4.1.1.4 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Gesta_coded by method* (n(%))	Missing	0	1	1
	Sponta_vaginal_delivery_<=37 WEEKS	1 (0.8)	2 (1.9)	3 (1.3)
	Sponta_vaginal_delivery_>37 WEEKS	62 (52.5)	63 (58.3)	125 (55.3)
	LSCS in labour_<=37 WEEKS	1 (0.8)	1 (0.9)	2 (0.9)
	LSCS in labour_>37 WEEKS	17 (14.4)	13 (12.0)	30 (13.3)
	LSCS pre labour_<=37 WEEKS	2 (1.7)	4 (3.7)	6 (2.7)
	LSCS pre labour_>37 WEEKS	23 (19.5)	13 (12.0)	36 (15.9)
	Forceps/ventouse_<=37 WEEKS	0	1 (0.9)	1 (0.4)
	Forceps/ventouse_>37 WEEKS	11 (9.3)	11 (10.2)	22 (9.7)
	TOP_Stillbirth_Miscarriage	1 (0.8)	0	1(0.4)

Section 4. Secondary Outcome - All Patients 4.1.1.5 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Gesta_coded by labour* (n(%))	Missing	0	1	1
	Spontaneous_<=37 WEEKS	1 (0.8)	1 (0.9)	2(0.9)
	Spontaneous_>37 WEEKS	44 (37.3)	43 (39.8)	87 (38.5)
	Induced_<=37 WEEKS	2 (1.7)	3 (2.8)	5 (2.2)
	Induced_>37 WEEKS	48 (40.7)	44 (40.7)	92 (40.7)
	C-section_<=37 WEEKS	1 (0.8)	4 (3.7)	5 (2.2)
	C-section_>37 WEEKS	21 (17.8)	13 (12.0)	34 (15.0)
	TOP_Stillbirth_Miscarriage	1 (0.8)	0	1 (0.4)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.6 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* <=37 Weeks (n(%))	Spontaneous_vaginal_deliv	1 (20.0)	1 (12.5)	2 (15.4)
	Induced_vaginal_deliv	0	1 (12.5)	1(7.7)
	Induced_LSCS in labour	1 (20.0)	1 (12.5)	2 (15.4)
	Induced_LSCS pre labour	1 (20.0)	0	1 (7.7)
	Induced_Forceps/ventouse	0	1 (12.5)	1(7.7)
	C-section_LSCS pre labour	1 (20.0)	4 (50.0)	5 (38.5)
	TOP_Stillbirth_Miscarriage	1 (20.0)	0	1(7.7)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.7 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* >37 Weeks (n(%))	Spontaneous_vaginal_deliv	34 (30.1)	33 (33.0)	67 (31.5)
	Spontaneous_LSCS in labour	3 (2.7)	3 (3.0)	6 (2.8)
	Spontaneous_Forceps/ventouse	7 (6.2)	7 (7.0)	14 (6.6)
	Induced_vaginal_deliv	28 (24.8)	30 (30.0)	58 (27.2)
	Induced_LSCS in labour	14 (12.4)	10 (10.0)	24 (11.3)
	Induced_LSCS pre labour	2 (1.8)	0	2 (0.9)
	Induced_Forceps/ventouse	4 (3.5)	4 (4.0)	8 (3.8)
	C-section_LSCS pre labour	21 (18.6)	13 (13.0)	34 (16.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.1 Delivery Outcome Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Gestational age (Days)*	Mean	276.6	276.6	276.6
	Median	277.5	278.0	278.0
	SD	17.1	11.5	14.7
	MIN,MAX	152,297	219,297	152,297
	Q1,Q3	271,287	271,284	271,285
	n	118	108	226
	Nmiss	0	1	1
Baby Gestational age coded (n(%))*	Missing	0	1	1
	<= 24 WEEKS	1 (0.8)	0	1 (0.4)
	>24 and <=37 WEEKS	4 (3.4)	8 (7.4)	12 (5.3)
	>37 WEEKS	113 (95.8)	100 (92.6)	213 (94.2)

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.1 Delivery Outcome (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Baby Gender (n(%))	NA	0	1	1	
	Male	58 (49.2)	54 (50.0)	112 (49.6)	
	Female	60 (50.8)	54 (50.0)	114 (50.4)	
Birth Outcome (n(%))	NA	0	1	1	
	Live Birth	117 (99.2)	108 (100)	225 (99.6)	
	Termination of Pregnancy	1 (0.8)	0	1 (0.4)	

Section 4. Secondary Outcome - All Patients 4.1.1.2.1.2 Birth Outcome - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Birth_O						
	Birth_Out_Ana(Birth Outcome categorised for		reatment(Allocat Freatment)	ted			
	analysis)	METFORMIN	PLACEBO	Total			
	NA	1	0				
	Live Birth	108	117	225			
	TOP_Stillbirth_Miscarriage	0	1	1			
	Total	108	118	226			
	Freq	uency Missing =	1				
				Lower 95% Confidence	Upper 95% Confidence		
	Studie	d	Odds Ratio	Limit for Odds	Limit for Odds		Fisher exact
Parameter(s)	effects		Estimate	Ratio	Ratio	P-value#	P-value#
BirthOut_pp	AllocatedTreatment METFC	RMIN vs PLACE	BO <0.001	<0.001	>999.999	0.9604	1.0000

By: Aryelly Rodriguez - ECTU Statistician EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Birth Out Ana='TOP Stillbirth Miscarriage' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 1 1 2 1 birth outcome analysis.lst'

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.1 Delivery Outcome - birth weight Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Birth weight (g)	Mean	3512.4	3503.6	3508.2		
	Median	3570.0	3525.0	3550.0		
	SD	622.7	562.8	593.5		
	MIN,MAX	400,4800	1800,4900	400,4900		
	Q1,Q3	3190,3860	3110,3838	3140,3850		
	n	118	108	226		
	Nmiss	0	1	1		

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.2 Delivery Outcome - birth weight split by gender Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight Males (g)	Mean	3603.5	3568.3	3586.5
	Median	3670.0	3540.0	3590.0
	SD	642.1	571.0	606.4
	MIN,MAX	400,4800	2330,4900	400,4900
	Q1,Q3	3308,3970	3135,3880	3273,3908
	n	58	54	112
	Nmiss	0	0	0
Birth weight Females(g)	Mean	3424.3	3438.9	3431.2
	Median	3450.0	3515.0	3485.0
	SD	595.4	552.2	572.9
	MIN,MAX	690,4550	1800,4530	690,4550
	Q1,Q3	3090,3728	3110,3780	3110,3760
	n	60	54	114
	Nmiss	0	0	0

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.3 Delivery Outcome - birth weight split by gestation Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight <=24 WEEKS (g)	Mean		400.0	400.0
	Median		400.0	400.0
	SD			
	MIN,MAX		400,400	400,400
	Q1,Q3		400,400	400,400
	n		1	1
	Nmiss		0	0
Birth weight >24 and <=37 WEEKS (g)	Mean	2721.3	2823.1	2789.2
	Median	2697.5	2737.5	2737.5
	SD	1695.6	629.9	1019.4
	MIN,MAX	690,4800	1800,3740	690,4800
	Q1,Q3	1545,3898	2465,3320	2365,3320
	n	4	8	12
	Nmiss	0	0	0

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.3 Delivery Outcome - birth weight split by gestation (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Birth weight >37 WEEKS (g)	Mean	3567.9	3558.1	3563.3	
	Median	3580.0	3550.0	3570.0	
	SD	464.8	523.3	492.0	
	MIN,MAX	2600,4700	2110,4900	2110,4900	
	Q1,Q3	3240,3860	3200,3890	3220,3860	
	n	113	100	213	
	Nmiss	0	0	0	

Section 4. Secondary Outcome - All Patients 4.1.1.2.2.4 Delivery Outcome - birth weight split by parity Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight parity=0 (g)	Mean	3361.0	3471.7	3421.5
	Median	3380.0	3480.0	3410.0
	SD	597.7	580.8	588.1
	MIN,MAX	690,4450	1800,4900	690,4900
	Q1,Q3	3054,3710	3110,3836	3060,3730
	n	44	53	97
	Nmiss	0	1	1
Birth weight parity=>1 (g)	Mean	3602.4	3534.4	3573.4
	Median	3665.0	3580.0	3640.0
	SD	623.7	548.5	591.5
	MIN,MAX	400,4800	2110,4790	400,4800
	Q1,Q3	3260,3920	3110,3840	3240,3905
	n	74	55	129
	Nmiss	0	0	0

Section 4. Secondary Outcome - All Patients 4.1.1.3 Delivery Outcome - Low birth weights Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Gestation (days) at delivery	Delivery date	LabourType	Birth Outcome categorised as per CRF	Baby death date	Baby gender	Birth weight corrected from kg to g (g)
21119	PLACEBO	152	10JAN2014	Induced	Termination of Pregnancy	10JAN2014	Male	400
14264	PLACEBO	191	12JAN2013	C-section	Live Birth		Female	690
11881	METFORMIN	219	04JAN2014	C-section	Live Birth		Female	1800

Section 4. Secondary Outcome - All Patients 4.1.1.4 Delivery Outcome - births before 24 weeks Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Gestation (days) at delivery	Delivery date	LabourType	Birth Outcome categorised as per CRF	Baby death date	Baby gender
21119	PLACEBO	152	10JAN2014	Induced	Termination of Pregnancy	10JAN2014	Male

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.1 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Method(n(%))	Spontaneous vaginal delivery	63 (53.8)	65 (60.2)	128 (56.9)
	LSCS in labour	18 (15.4)	14 (13.0)	32 (14.2)
	LSCS pre labour	25 (21.4)	17 (15.7)	42 (18.7)
	Forceps/ventouse	11 (9.4)	12 (11.1)	23 (10.2)
C-SECTION index pregnancy(n(%))	Yes	43 (36.8)	31 (28.7)	74 (32.9)
	No	74 (63.2)	77 (71.3)	151 (67.1)
Primary C-SECTION in index pregancy(n(%))	Yes	25 (21.4)	22 (20.4)	47 (20.9)
	No	92 (78.6)	86 (79.6)	178 (79.1)

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.2 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Blood Loss (mL)	Mean	522.9	500.0	511.8
	Median	400.0	400.0	400.0
	SD	407.6	550.8	481.2
	MIN,MAX	100,2000	50,5000	50,5000
	Q1,Q3	250,600	250,600	250,600
	n	113	106	219
	Nmiss	4	2	6
Hemorrhage* (n(%))	Missing	4	2	6
	Yes	13 (11.5)	9 (8.5)	22 (10.0)
	No	100 (88.5)	97 (91.5)	197 (90.0)
SAE recorded due to Hemorrhage# (n(%))	Missing	0	1	1
	Yes	5	4	9
	No	8	4	12

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Hemorrhage defined as a blood loss greater than 1000ml #Only summarised for patients with hemorrhage=yes in the item right above

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.3 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour Type (n(%))	Spontaneous	45 (38.5)	44 (40.7)	89 (39.6)
	Induced	50 (42.7)	47 (43.5)	97 (43.1)
	C-section	22 (18.8)	17 (15.7)	39 (17.3)
Non Spontaneous Reason* (n(%))	Post dates	15 (20.8)	8 (12.5)	23 (16.9)
	Pre-eclampsia	3 (4.2)	2(3.1)	5 (3.7)
	Abruption	0	1 (1.6)	1 (0.7)
	Other maternal condition	21 (29.2)	28 (43.8)	49 (36.0)
	Previous C-section	14 (19.4)	4 (6.3)	18 (13.2)
	Previous obstetric history (other)	3 (4.2)	2(3.1)	5(3.7)
	Maternal request	5 (6.9)	3 (4.7)	8 (5.9)
	Suspected fetal compromise	3 (4.2)	8 (12.5)	11 (8.1)
	Malpresentation	3 (4.2)	4 (6.3)	7 (5.1)
	Suspected IUGR	3 (4.2)	0	3 (2.2)
	Suspected Macrosomia	2 (2.8)	4 (6.3)	6 (4.4)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *Only recorded for induced and c-section above

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.1 Delivery Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Gesta_coded by method* (n(%))	Sponta_vaginal_delivery_<=37 WEEKS	1 (0.9)	2 (1.9)	3 (1.3)
	Sponta_vaginal_delivery_>37 WEEKS	62 (53.0)	63 (58.3)	125 (55.6)
	LSCS in labour_<=37 WEEKS	1 (0.9)	1 (0.9)	2 (0.9)
	LSCS in labour_>37 WEEKS	17 (14.5)	13 (12.0)	30 (13.3)
	LSCS pre labour_<=37 WEEKS	2 (1.7)	4 (3.7)	6 (2.7)
	LSCS pre labour_>37 WEEKS	23 (19.7)	13 (12.0)	36 (16.0)
	Forceps/ventouse_<=37 WEEKS	0	1 (0.9)	1 (0.4)
	Forceps/ventouse_>37 WEEKS	11 (9.4)	11 (10.2)	22 (9.8)
Gesta_coded by labour# (n(%))	Spontaneous_<=37 WEEKS	1 (0.9)	1 (0.9)	2 (0.9)
	Spontaneous_>37 WEEKS	44 (37.6)	43 (39.8)	87 (38.7)
	Induced_<=37 WEEKS	2(1.7)	3 (2.8)	5 (2.2)
	Induced_>37 WEEKS	48 (41.0)	44 (40.7)	92 (40.9)
	C-section_<=37 WEEKS	1 (0.9)	4 (3.7)	5 (2.2)
	C-section_>37 WEEKS	21 (17.9)	13 (12.0)	34 (15.1)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *This variable is a cross between 'Delivery Method' and 'Baby Gestational age coded' #This variable is a cross between 'Labour Type' and 'Baby Gestational age coded'

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.2 Delivery Details (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Labour by method* <=37 Weeks (n(%))	Spontaneous_vaginal_deliv	1 (25.0)	1 (12.5)	2 (16.7)
	Induced_vaginal_deliv	0	1 (12.5)	1 (8.3)
	Induced_LSCS in labour	1 (25.0)	1 (12.5)	2 (16.7)
	Induced_LSCS pre labour	1 (25.0)	0	1 (8.3)
	Induced_Forceps/ventouse	0	1 (12.5)	1 (8.3)
	C-section_LSCS pre labour	1 (25.0)	4 (50.0)	5 (41.7)
Labour by method* >37 Weeks (n(%))	Spontaneous_vaginal_deliv	34 (30.1)	33 (33.0)	67 (31.5)
	Spontaneous_LSCS in labour	3 (2.7)	3 (3.0)	6 (2.8)
	Spontaneous_Forceps/ventouse	7 (6.2)	7 (7.0)	14 (6.6)
	Induced_vaginal_deliv	28 (24.8)	30 (30.0)	58 (27.2)
	Induced_LSCS in labour	14 (12.4)	10 (10.0)	24 (11.3)
	Induced_LSCS pre labour	2 (1.8)	0	2 (0.9)
	Induced_Forceps/ventouse	4 (3.5)	4 (4.0)	8 (3.8)
	C-section_LSCS pre labour	21 (18.6)	13 (13.0)	34 (16.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 B N = number of patients randomised, n = number of observations *This variable is a cross between 'Labour Type' and 'Delivery Method' split by 'Baby Gestational age coded'

Section 4. Secondary Outcome - Only Alive Births 4.1.2.1.4.3 Delivery Details - Preterm Birth - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of GESTA	_2CODE by Allo	catedTreatme	nt			
	GESTA 2CODE(Gestation	Allocated	Treatment(Allo Treatment)	cated			
	Code 2)	METFORMIN	PLACEBO	Total			
	>24 and <=37 WEEKS	8	4	12			
	>37 WEEKS	100	113	213			
	Total	108	117	225			
Parameter(s	:) Stua		Odo Rat Estim	o for Odds	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
PRETERM_	op AllocatedTreatment METF	FORMIN vs PLAC	EBO 2.26	0 0.661	7.732	0.1939	0.2392

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.1.1 Delivery Outcome Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
Birth Outcome (n(%))	Live Birth	117 (100)	108 (100)	225 (100)			
Baby Gender (n(%))	Male	57 (48.7)	54 (50.0)	111 (49.3)			
	Female	60 (51.3)	54 (50.0)	114 (50.7)			

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.1.2 Delivery Outcome - Birth Outcome-Neonatal Death after delivery - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of BirthOutcome by AllocatedTreatment								
	BirthOutcome(Birth Outcome categorised as per CRF)	METFO	RMIN I	PLACEBO	Total				
	Live Birth		108	117	225				
	Total		108	117	225				
Parameter	r(s) Studied	Odds Ratio Estimate	Lower 95% Confider Limit for Odd Ratio	95% nce Confidence Limit Is for Odds	P-value#	Fisher exact P-value#			
					0 0000	4 0000			
NEO_DEAT	H_pp AllocatedTreatment METFORMIN vs PLACEBO	<0.001	<0.001	1 >999.999	0.9603	1.0000			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician *Analised using logistic regression (binary logit), probability modeled is BirthOutcome='Live Birth-followed by neonatal death' #Significance level set at p<0.05 Fisher's exact test should be used for reporting due to low cell count Detailed analysis in file 'Empowar_11_2_Neonatal_unit.lst'

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.1.3 Delivery Outcome(Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Baby Gestational age (Days)*	Mean	277.6	276.6	277.1		
	Median	278.0	278.0	278.0		
	SD	12.7	11.5	12.1		
	MIN,MAX	191,297	219,297	191,297		
	Q1,Q3	271,287	271,284	271,285		
	n	117	108	225		
	Nmiss	0	0	0		
Baby Gestational age coded (n(%))*	>24 and <=37 WEEKS	4 (3.4)	8 (7.4)	12 (5.3)		
	>37 WEEKS	113 (96.6)	100 (92.6)	213 (94.7)		

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.1 Delivery Outcome - birth weight Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight (g)	Mean	3539.0	3503.6	3522.0
	Median	3570.0	3525.0	3550.0
	SD	553.9	562.8	557.2
	MIN,MAX	690,4800	1800,4900	690,4900
	Q1,Q3	3200,3860	3110,3838	3150,3850
	n	117	108	225
	Nmiss	0	0	0

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.2 Delivery Outcome - birth weight split by gender Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight Males (g)	Mean	3659.7	3568.3	3615.2
	Median	3670.0	3540.0	3600.0
	SD	482.9	571.0	527.1
	MIN,MAX	2720,4800	2330,4900	2330,4900
	Q1,Q3	3310,3970	3135,3880	3285,3910
	n	57	54	111
	Nmiss	0	0	0
Birth weight Females(g)	Mean	3424.3	3438.9	3431.2
	Median	3450.0	3515.0	3485.0
	SD	595.4	552.2	572.9
	MIN,MAX	690,4550	1800,4530	690,4550
	Q1,Q3	3090,3728	3110,3780	3110,3760
	n	60	54	114
	Nmiss	0	0	0

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.3 Delivery Outcome - birth weight split by gestation Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight >24 and <=37 WEEKS (g)	Mean	2721.3	2823.1	2789.2
	Median	2697.5	2737.5	2737.5
	SD	1695.6	629.9	1019.4
	MIN,MAX	690,4800	1800,3740	690,4800
	Q1,Q3	1545,3898	2465,3320	2365,3320
	n	4	8	12
	Nmiss	0	0	0
Birth weight >37 WEEKS (g)	Mean	3567.9	3558.1	3563.3
	Median	3580.0	3550.0	3570.0
	SD	464.8	523.3	492.0
	MIN,MAX	2600,4700	2110,4900	2110,4900
	Q1,Q3	3240,3860	3200,3890	3220,3860
	n	113	100	213
	Nmiss	0	0	0

Section 4. Secondary Outcome - Only Alive Births 4.1.2.2.2.4 Delivery Outcome - birth weight split by parity Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight parity=0 (g)	Mean	3361.0	3471.7	3421.5
	Median	3380.0	3480.0	3410.0
	SD	597.7	580.8	588.1
	MIN,MAX	690,4450	1800,4900	690,4900
	Q1,Q3	3054,3710	3110,3836	3060,3730
	n	44	53	97
	Nmiss	0	0	0
Birth weight parity=>1 (g)	Mean	3646.2	3534.4	3598.2
	Median	3670.0	3580.0	3645.0
	SD	500.0	548.5	522.2
	MIN,MAX	2600,4800	2110,4790	2110,4800
	Q1,Q3	3290,3920	3110,3840	3240,3908
	n	73	55	128
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 4. Secondary Outcome - Only Alive Births 4.1.2.3 Delivery Outcome - Low birth weights Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Gestation (days) at delivery	Delivery date	LabourType	Birth Outcome categorised as per CRF	Baby death date	Baby gender	Birth weight corrected from kg to g (g)
14264	PLACEBO	191	12JAN2013	C-section	Live Birth		Female	690
11881	METFORMIN	219	04JAN2014	C-section	Live Birth		Female	1800

Section 4. Outcomes - Only Alive Births 4.2.1.1 PRIMARY EFFICACY: Birth weight centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile	Mean	58.527	59.894	59.183
	Median	59.685	64.530	63.585
	SD	27.690	28.273	27.917
	MIN,MAX	1.58,99.95	0.03,99.83	0.03,99.95
	Q1,Q3	34.33,82.48	34.95,83.13	34.53,82.77
	n	117	108	225
	Nmiss	0	0	0

Section 4. Outcomes - Only Alive Births 4.2.1.2 PRIMARY EFFICACY: Birth weight centile split by gender Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile Males	Mean	59.594	57.029	58.346
	Median	62.022	62.261	62.022
	SD	27.780	28.811	28.186
	MIN,MAX	1.58,99.95	3.91,99.76	1.58,99.95
	Q1,Q3	35.73,82.48	33.65,79.74	33.69,79.89
	n	57	54	111
	Nmiss	0	0	0
Birth weight centile Females	Mean	57.513	62.759	59.998
	Median	57.154	66.501	64.268
	SD	27.800	27.695	27.752
	MIN,MAX	3.75,99.34	0.03,99.83	0.03,99.83
	Q1,Q3	34.31,82.72	38.90,87.36	35.35,86.16
	n	60	54	114
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 4. Outcomes - Only Alive Births 4.2.1.3 PRIMARY EFFICACY: Birth weight centile split by gestation Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile >24 and <=37 WEEKS	Mean	55.075	70.181	65.146
	Median	50.782	80.241	76.141
	SD	37.927	28.695	31.171
	MIN,MAX	18.78,99.95	20.03,97.13	18.78,99.95
	Q1,Q3	23.90,86.25	50.45,91.45	31.14,91.45
	n	4	8	12
	Nmiss	0	0	0
Birth weight centile >37 WEEKS (g)	Mean	58.649	59.071	58.847
	Median	59.685	63.906	62.996
	SD	27.480	28.222	27.766
	MIN,MAX	1.58,99.34	0.03,99.83	0.03,99.83
	Q1,Q3	35.17,82.48	34.95,82.77	35.17,82.60
	n	113	100	213
	Nmiss	0	0	0

Section 4. Outcomes - Only Alive Births 4.2.1.4 PRIMARY EFFICACY: Birth weight centile split by parity Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile parity=0 (g)	Mean	54.041	59.862	57.222
	Median	50.234	66.310	56.322
	SD	27.729	29.505	28.713
	MIN,MAX	3.34,97.52	3.91,99.83	3.34,99.83
	Q1,Q3	30.56,78.50	33.69,84.14	32.13,83.49
	n	44	53	97
	Nmiss	0	0	0
Birth weight centile parity=>1 (g)	Mean	61.230	59.924	60.669
	Median	65.879	64.228	64.490
	SD	27.502	27.306	27.318
	MIN,MAX	1.58,99.95	0.03,99.28	0.03,99.95
	Q1,Q3	39.95,82.60	38.37,82.77	39.10,82.69
	n	73	55	128
	Nmiss	0	0	0

Section 4. Outcomes - Only Alive Births 4.2.2.1.1 PRIMARY EFFICACY: Birth weight centile categorised Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile (n(%))	<=3rd	1 (0.9)	1 (0.9)	2 (0.9)
	>3rd and <=5th	2 (1.7)	2 (1.9)	4 (1.8)
	>5th and <=10th	3 (2.6)	3 (2.8)	6 (2.7)
	>10th and <=90th	90 (76.9)	81 (75.0)	171 (76.0)
	>90th and <=95th	9 (7.7)	9 (8.3)	18 (8.0)
	>95th and <=97th	5 (4.3)	4 (3.7)	9(4.0)
	>97th	7 (6.0)	8 (7.4)	15 (6.7)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 4. Secondary Outcome - Only Alive Births 4.2.2.1.2 PRIMARY EFFICACY: Birth weight centile categorised - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	I ADIE UI	f centile_03b by							
			Treatment(Allo Treatment)	ocated					
	centile_03b	METFORMIN	PLACEBO	Total	1				
	No	107	116	223					
	Yes	1	1	2	2				
	Total	108	117	225	<u>;</u>				
						Lower 95% Confidence	Upper 95% Confidence		
Parameter(s	5)	Studi			Odds Ratio Estimate	Limit for Odds Ratio	Limit for Odds Ratio	P-value#	Fisher exact P-value t
centile_03b_	pp Allocated	Treatment METF	ORMIN vs P	LACEBO	1.084	0.067	17.549	0.9547	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is centile_03b='Yes' #Significance level set at p<0.05 Fisher's exact test should be used for reporting due to low cell count Detailed analysis in file 'Empowar_4_2_2_1_weight_centile.lst'

Section 4. Secondary Outcome - Only Alive Births 4.2.2.1.3 PRIMARY EFFICACY: Birth weight centile categorised - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of	f centile_10b by	AllocatedTre	_					
			reatment(Allo Treatment)	ocated					
	centile_10b	METFORMIN	PLACEBO	Tota	1				
	No	102	111	213	3				
	Yes	6	6	12	2				
	Total	108	117	225	5				
Parameter(s	5)	Studi effec			Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
centile_10b_	pp Allocated	Treatment METF	ORMIN vs Pl	LACEBO	1.088	0.340	3.482	0.8867	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is centile_10b='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 4 2 2 1 weight centile.lst'

Section 4. Outcomes - Only Alive Births 4.2.2.2 PRIMARY EFFICACY: Birth weight centile categorised split by gender Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile Males(n(%))	<=3rd	1 (1.8)	0	1 (0.9)
	>3rd and <=5th	1 (1.8)	2(3.7)	3 (2.7)
	>5th and <=10th	2 (3.5)	2 (3.7)	4 (3.6)
	>10th and <=90th	42 (73.7)	41 (75.9)	83 (74.8)
	>90th and <=95th	5 (8.8)	2 (3.7)	7 (6.3)
	>95th and <=97th	3 (5.3)	3 (5.6)	6 (5.4)
	>97th	3 (5.3)	4 (7.4)	7 (6.3)
Split Birth weight Centile Females(n(%))	<=3rd	0	1 (1.9)	1 (0.9)
	>3rd and <=5th	1 (1.7)	0	1 (0.9)
	>5th and <=10th	1 (1.7)	1 (1.9)	2 (1.8)
	>10th and <=90th	48 (80.0)	40 (74.1)	88 (77.2)
	>90th and <=95th	4 (6.7)	7 (13.0)	11 (9.6)
	>95th and <=97th	2 (3.3)	1 (1.9)	3 (2.6)
	>97th	4 (6.7)	4 (7.4)	8 (7.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 4. Outcomes - Only Alive Births 4.2.2.3 PRIMARY EFFICACY: Birth weight centile categorised split by gestation Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile >24 and <=37 WEEKS(n(%))	>10th and <=90th	3 (75.0)	6 (75.0)	9 (75.0)
	>95th and <=97th	0	1 (12.5)	1 (8.3)
	>97th	1 (25.0)	1 (12.5)	2 (16.7)
Split Birth weight Centile >37 WEEKS(n(%))	<=3rd	1 (0.9)	1 (1.0)	2 (0.9)
	>3rd and <=5th	2 (1.8)	2 (2.0)	4 (1.9)
	>5th and <=10th	3 (2.7)	3 (3.0)	6 (2.8)
	>10th and <=90th	87 (77.0)	75 (75.0)	162 (76.1)
	>90th and <=95th	9 (8.0)	9 (9.0)	18 (8.5)
	>95th and <=97th	5(4.4)	3 (3.0)	8 (3.8)
	>97th	6 (5.3)	7 (7.0)	13 (6.1)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 4. Outcomes - Only Alive Births 4.2.2.4 PRIMARY EFFICACY: Birth weight centile categorised split by parity Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Split Birth weight Centile parity=0 (n(%))	>3rd and <=5th	1 (2.3)	2 (3.8)	3 (3.1)
	>5th and <=10th	1 (2.3)	1 (1.9)	2 (2.1)
	>10th and <=90th	37 (84.1)	39 (73.6)	76 (78.4)
	>90th and <=95th	1 (2.3)	6 (11.3)	7 (7.2)
	>95th and <=97th	3 (6.8)	0	3 (3.1)
	>97th	1 (2.3)	5 (9.4)	6 (6.2)
Split Birth weight Centile parity=>1 (n(%))	<=3rd	1 (1.4)	1 (1.8)	2 (1.6)
	>3rd and <=5th	1 (1.4)	0	1 (0.8)
	>5th and <=10th	2 (2.7)	2 (3.6)	4 (3.1)
	>10th and <=90th	53 (72.6)	42 (76.4)	95 (74.2)
	>90th and <=95th	8 (11.0)	3 (5.5)	11 (8.6)
	>95th and <=97th	2(2.7)	4 (7.3)	6(4.7)
	>97th	6 (8.2)	3 (5.5)	9 (7.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 4. Outcomes - Only Alive Births 4.3.1 PRIMARY EFFICACY: Calculated Z score Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Z-score for birth weight centile	Mean	0.3130	0.3604	0.3358			
	Median	0.2452	0.3727	0.3474			
	SD	0.9781	1.0580	1.0152			
	MIN,MAX	-2.150,3.299	-3.428,2.929	-3.428,3.299			
	Q1,Q3	-0.404,0.934	-0.387,0.959	-0.398,0.945			
	n	117	108	225			
	Nmiss	0	0	0			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 4. Outcomes - Only Alive Births 4.3.2 PRIMARY EFFICACY: Calculated Z score - Statistical Analysis Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	acebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
z-score - pp	0.270	0.1584	117	0.338	0.1506	108	0.068	-0.188	0.324	0.276	0.6001

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rode Summary statistics are presented in table 4.3.1 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means for the z score by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_4_3_2_primary_outcome_z_analysis.lst' Parameter shown normal behavior

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.1 Fasted Glucose - Visit 3 Randomisation (12-16 Weeks)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
GTT - V3 - base (mmol/L)	Mean	4.42	4.41	4.41			
	Median	4.40	4.40	4.40			
	SD	0.36	0.37	0.36			
	MIN,MAX	3.5,5.6	3.5,5.4	3.5,5.6			
	Q1,Q3	4.2,4.6	4.1,4.7	4.1,4.7			
	n	118	109	227			
	Nmiss	0	0	0			
GTT - V3 - 2 hr (mmol/L)	Mean	5.45	5.17	5.31			
	Median	5.45	5.10	5.30			
	SD	1.18	1.10	1.15			
	MIN,MAX	2.6,7.8	2.2,7.7	2.2,7.8			
	Q1,Q3	4.6,6.4	4.6,5.9	4.6,6.1			
	n	118	109	227			
	Nmiss	0	0	0			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

By: Aryelly Rodriguez - ECTU Statistician

*If baseline (fasting) sample >5.5 mmol/L or 2 hr sample >7.8 mmol then the subject is not eligible to continue in the study

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.2 Fasted Glucose - Visit 5 (28 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227				
GTT - V5 - base (mmol/L)	Mean	4.49	4.34	4.42				
	Median	4.45	4.30	4.40				
	SD	0.43	0.38	0.41				
	MIN,MAX	3.7,5.6	3.4,5.2	3.4,5.6				
	Q1,Q3	4.2,4.8	4.1,4.6	4.2,4.7				
	n	116	109	225				
	Nmiss	2	0	2				
GTT - V5 - 2 hr (mmol/L)	Mean	5.90	5.56	5.74				
	Median	5.85	5.50	5.60				
	SD	1.18	1.20	1.20				
	MIN,MAX	2.4,8.3	3.1,10.0	2.4,10.0				
	Q1,Q3	5.1,6.7	4.9,6.1	5.0,6.5				
	n	116	108	224				
	Nmiss	2	1	3				

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.3 Fasted Glucose - Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
GTT - V6 - base (mmol/L)	Mean	4.43	4.34	4.39
	Median	4.40	4.20	4.30
	SD	0.51	0.45	0.48
	MIN,MAX	2.7,5.8	3.4,5.9	2.7,5.9
	Q1,Q3	4.0,4.8	4.0,4.6	4.0,4.7
	n	104	93	197
	Nmiss	14	16	30
GTT - V6 - 2 hr (mmol/L)	Mean	6.04	5.79	5.92
	Median	5.90	5.70	5.80
	SD	1.53	1.34	1.44
	MIN,MAX	3.0,10.3	2.7,9.1	2.7,10.3
	Q1,Q3	4.9,7.2	5.0,6.5	4.9,6.8
	n	103	92	195
	Nmiss	15	17	32

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.4.1 Fasted Glucose - Visit 6 (36 Weeks) - Statistical Analysis Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	icebo		Metf	ormin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper Cl*	Statistic (t-test)	p-value
Glucose_V6_Baseline - pp	4.458	0.0767	104	4.367	0.0735	93	-0.091	-0.221	0.040	1.875	0.1726
Glucose_V6_Two_Hour - pp	6.052	0.2315	103	5.804	0.2217	92	-0.248	-0.643	0.148	1.529	0.2179

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Any Summary statistics are presented in table 5.1.3 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means for the glucose in blood by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_1_4_glucose_outcome_analysis.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.4.2 Fasted Glucose - Visit 5 (28 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Glucose_V5_Baseline - pp	4.454	0.0650	116	4.313	0.0613	109	-0.141	-0.246	-0.036	7.044	0.0086
Glucose_V5_Two_Hour - pp	5.766	0.1908	116	5.454	0.1801	108	-0.312	-0.620	-0.004	3.989	0.0471

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.1.2 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means for the glucose in blood by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_1_4_glucose_outcome_analysis_v5.lst' Parameters shown normal or near-normal behavior

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - GTT - V5 - base (mmol/L)	Mean	4.58	4.37	4.49
	Median	4.60	4.40	4.50
	SD	0.48	0.37	0.45
	MIN,MAX	3.7,5.5	3.5,5.0	3.5,5.5
	Q1,Q3	4.2,5.0	4.2,4.7	4.2,4.8
	n	43	31	74
	Nmiss	0	0	0
Yes C-section - GTT - V5 - 2 hr (mmol/L)	Mean	6.26	5.90	6.11
	Median	6.30	5.60	6.00
	SD	1.46	1.24	1.37
	MIN,MAX	2.4,8.3	4.2,8.9	2.4,8.9
	Q1,Q3	5.3,7.5	5.1,6.5	5.1,7.3
	n	43	31	74
	Nmiss	0	0	0

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.1 Fasted Glucose - Visit 5 (28 Weeks) split by C-section Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Ir	ntervention	
Categories	Placebo	Metformin	Overall
Mean	4.44	4.33	4.38
Median	4.40	4.30	4.40
SD	0.39	0.39	0.39
MIN,MAX	3.7,5.6	3.4,5.2	3.4,5.6
Q1,Q3	4.2,4.7	4.1,4.6	4.1,4.6
n	73	77	150
Nmiss	2	0	2
Mean	5.68	5.44	5.56
Median	5.60	5.45	5.50
SD	0.93	1.17	1.06
MIN,MAX	3.5,8.3	3.1,10.0	3.1,10.0
Q1,Q3	5.0,6.3	4.8,6.0	4.9,6.2
n	73	76	149
Nmiss	2	1	3
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 4.44 Median 4.40 SD 0.39 MIN,MAX 3.7,5.6 Q1,Q3 4.2,4.7 n 73 Nmiss 2 Mean 5.68 Median 5.60 SD 0.93 MIN,MAX 3.5,8.3 Q1,Q3 5.0,6.3 n 73	Mean 4.44 4.33 Median 4.40 4.30 SD 0.39 0.39 MIN,MAX 3.7,5.6 3.4,5.2 Q1,Q3 4.2,4.7 4.1,4.6 n 73 77 Nmiss 2 0 Mean 5.68 SD 0.93 1.17 Median 5.60 5.45 SD 0.93 1.17 MIN,MAX 3.5,8.3 3.1,10.0 Q1,Q3 5.0,6.3 4.8,6.0 n 73 76

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - GTT - V6 - base (mmol/L)	Mean	4.42	4.34	4.39
	Median	4.50	4.30	4.40
	SD	0.53	0.44	0.49
	MIN,MAX	2.7,5.6	3.6,5.5	2.7,5.6
	Q1,Q3	4.0,4.8	4.0,4.5	4.0,4.7
	n	38	25	63
	Nmiss	5	4	9
Yes C-section - GTT - V6 - 2 hr (mmol/L	Mean	6.32	5.85	6.13
	Median	6.30	5.80	6.10
	SD	1.65	1.20	1.49
	MIN,MAX	3.0,10.3	2.7,8.0	2.7,10.3
	Q1,Q3	5.1,7.4	5.5,6.5	5.2,7.2
	n	38	25	63
	Nmiss	5	4	9

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.2 Fasted Glucose - Visit 6 (36 Weeks) split by C-section Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
No C-section - GTT - V6 - base (mmol/L)	Mean	4.43	4.34	4.38
	Median	4.30	4.20	4.30
	SD	0.50	0.46	0.48
	MIN,MAX	3.4,5.8	3.4,5.9	3.4,5.9
	Q1,Q3	4.1,4.7	4.0,4.6	4.0,4.6
	n	66	68	134
	Nmiss	9	9	18
No C-section - GTT - V6 - 2 hr (mmol/L)	Mean	5.88	5.76	5.82
	Median	5.70	5.70	5.70
	SD	1.44	1.39	1.41
	MIN,MAX	3.5,9.8	3.2,9.1	3.2,9.8
	Q1,Q3	4.9,6.8	4.9,6.4	4.9,6.5
	n	65	67	132
	Nmiss	10	10	20

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_GTT_V5_base (mmol/L)	Mean	4.00	4.00	4.00
	Median	4.00	4.00	4.00
	SD			0.00
	MIN,MAX	4.0,4.0	4.0,4.0	4.0,4.0
	Q1,Q3	4.0,4.0	4.0,4.0	4.0,4.0
	n	1	1	2
	Nmiss	0	0	0
3%<=_GTT_V5_2 hr (mmol/L)	Mean	4.80	5.10	4.95
	Median	4.80	5.10	4.95
	SD			0.21
	MIN,MAX	4.8,4.8	5.1,5.1	4.8,5.1
	Q1,Q3	4.8,4.8	5.1,5.1	4.8,5.1
	n	1	1	2
	Nmiss	0	0	0

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
5%<=_GTT_V5_base (mmol/L)	Mean	4.03	4.00	4.02
	Median	4.00	4.00	4.00
	SD	0.06	0.40	0.26
	MIN,MAX	4.0,4.1	3.6,4.4	3.6,4.4
	Q1,Q3	4.0,4.1	3.6,4.4	4.0,4.1
	n	3	3	6
	Nmiss	0	0	0
5%<=_GTT_V5_2 hr (mmol/L)	Mean	4.07	4.93	4.50
	Median	4.80	5.10	4.90
	SD	1.45	1.06	1.23
	MIN,MAX	2.4,5.0	3.8,5.9	2.4,5.9
	Q1,Q3	2.4,5.0	3.8,5.9	3.8,5.1
	n	3	3	6
	Nmiss	0	0	0

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_GTT_V5_base (mmol/L)	Mean	4.38	4.15	4.27
	Median	4.25	4.20	4.25
	SD	0.43	0.34	0.39
	MIN,MAX	4.0,5.0	3.6,4.5	3.6,5.0
	Q1,Q3	4.0,4.8	4.0,4.4	4.0,4.5
	n	6	6	12
	Nmiss	0	0	0
10%<=_GTT_V5_2 hr (mmol/L)	Mean	4.63	4.72	4.68
	Median	4.90	4.75	4.90
	SD	1.27	0.89	1.05
	MIN,MAX	2.4,6.2	3.7,5.9	2.4,6.2
	Q1,Q3	4.2,5.2	3.8,5.4	4.0,5.3
	n	6	6	12
	Nmiss	0	0	0

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%> AND 90%<=_GTT_V5_base (mmol/L)	Mean	4.47	4.34	4.41
	Median	4.40	4.30	4.40
	SD	0.42	0.40	0.41
	MIN,MAX	3.7,5.5	3.4,5.2	3.4,5.5
	Q1,Q3	4.2,4.7	4.1,4.6	4.2,4.7
	n	89	81	170
	Nmiss	1	0	1
10%> AND 90%<=_GTT_V5_2 hr (mmol/L)	Mean	5.86	5.64	5.76
	Median	5.80	5.60	5.70
	SD	1.13	1.25	1.19
	MIN,MAX	3.5,8.3	3.1,10.0	3.1,10.0
	Q1,Q3	5.1,6.7	4.9,6.4	5.0,6.5
	n	89	80	169
	Nmiss	1	1	2

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_GTT_V5_base (mmol/L)	Mean	4.60	4.41	4.50
	Median	4.70	4.40	4.55
	SD	0.48	0.33	0.42
	MIN,MAX	3.7,5.6	3.7,5.0	3.7,5.6
	Q1,Q3	4.4,4.9	4.3,4.7	4.3,4.7
	n	21	21	42
	Nmiss	0	0	0
90%>_GTT_V5_2 hr (mmol/L)	Mean	6.40	5.58	5.99
	Median	6.30	5.50	5.90
	SD	1.14	1.03	1.15
	MIN,MAX	4.4,8.3	3.6,8.4	3.6,8.4
	Q1,Q3	5.4,7.4	5.1,6.0	5.2,6.9
	n	21	21	42
	Nmiss	0	0	0

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
95%>_GTT_V5_base (mmol/L)	Mean	4.60	4.46	4.53
	Median	4.55	4.45	4.55
	SD	0.49	0.25	0.39
	MIN,MAX	4.0,5.6	4.0,4.8	4.0,5.6
	Q1,Q3	4.3,4.9	4.3,4.7	4.3,4.7
	n	12	12	24
	Nmiss	0	0	0
95%>_GTT_V5_2 hr (mmol/L)	Mean	6.30	5.58	5.94
	Median	6.15	5.70	5.95
	SD	0.97	1.21	1.13
	MIN,MAX	5.2,8.3	3.6,8.4	3.6,8.4
	Q1,Q3	5.4,7.0	4.9,6.1	5.3,6.4
	n	12	12	24
	Nmiss	0	0	0

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_GTT_V5_base (mmol/L)	Mean	4.71	4.45	4.57
	Median	4.70	4.45	4.60
	SD	0.48	0.29	0.40
	MIN,MAX	4.1,5.6	4.0,4.8	4.0,5.6
	Q1,Q3	4.4,5.0	4.3,4.7	4.3,4.7
	n	7	8	15
	Nmiss	0	0	0
97%>_GTT_V5_2 hr (mmol/L)	Mean	5.93	5.45	5.67
	Median	5.90	5.95	5.90
	SD	0.71	1.00	0.88
	MIN,MAX	5.2,7.1	3.6,6.3	3.6,7.1
	Q1,Q3	5.3,6.4	4.9,6.1	5.3,6.3
	n	7	8	15
	Nmiss	0	0	0

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_GTT_V6_base (mmol/L)	Mean	3.40		3.40
	Median	3.40		3.40
	SD			
	MIN,MAX	3.4,3.4	-,-	3.4,3.4
	Q1,Q3	3.4,3.4	-,-	3.4,3.4
	n	1	0	1
	Nmiss	0	1	1
3%<=_GTT_V6_2 hr (mmol/L)	Mean	7.40		7.40
	Median	7.40		7.40
	SD			
	MIN,MAX	7.4,7.4	-,-	7.4,7.4
	Q1,Q3	7.4,7.4	-,-	7.4,7.4
	n	1	0	1
	Nmiss	0	1	1

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
5%<=_GTT_V6_base (mmol/L)	Mean	3.73	3.90	3.80
	Median	3.90	3.90	3.90
	SD	0.29	0.42	0.31
	MIN,MAX	3.4,3.9	3.6,4.2	3.4,4.2
	Q1,Q3	3.4,3.9	3.6,4.2	3.6,3.9
	n	3	2	5
	Nmiss	0	1	1
5%<=_GTT_V6_2 hr (mmol/L)	Mean	5.30	5.40	5.34
	Median	5.50	5.40	5.50
	SD	2.21	1.13	1.66
	MIN,MAX	3.0,7.4	4.6,6.2	3.0,7.4
	Q1,Q3	3.0,7.4	4.6,6.2	4.6,6.2
	n	3	2	5
	Nmiss	0	1	1

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_GTT_V6_base (mmol/L)	Mean	4.13	4.38	4.25
	Median	4.10	4.60	4.30
	SD	0.49	0.49	0.48
	MIN,MAX	3.4,4.7	3.6,4.8	3.4,4.8
	Q1,Q3	3.9,4.6	4.2,4.7	3.9,4.7
	n	6	5	11
	Nmiss	0	1	1
10%<=_GTT_V6_2 hr (mmol/L)	Mean	5.92	4.92	5.46
	Median	5.85	5.20	5.80
	SD	1.72	1.39	1.59
	MIN,MAX	3.0,7.9	2.7,6.2	2.7,7.9
	Q1,Q3	5.5,7.4	4.6,5.9	4.6,6.2
	n	6	5	11
	Nmiss	0	1	1

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%> AND 90%<=_GTT_V6_base (mmol/L)	Mean	4.41	4.31	4.37
	Median	4.40	4.20	4.30
	SD	0.50	0.46	0.48
	MIN,MAX	2.7,5.8	3.4,5.9	2.7,5.9
	Q1,Q3	4.0,4.7	4.0,4.6	4.0,4.7
	n	80	69	149
	Nmiss	10	11	21
10%> AND 90%<=_GTT_V6_2 hr (mmol/L)	Mean	5.84	5.88	5.86
	Median	5.70	5.70	5.70
	SD	1.46	1.43	1.44
	MIN,MAX	3.2,9.5	3.2,9.1	3.2,9.5
	Q1,Q3	4.6,6.8	4.9,6.5	4.8,6.7
	n	79	69	148
	Nmiss	11	11	22

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.5.4 Fasted Glucose - Visit 6 (36 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_GTT_V6_base (mmol/L)	Mean	4.61	4.41	4.51
	Median	4.40	4.40	4.40
	SD	0.54	0.43	0.49
	MIN,MAX	3.8,5.6	3.9,5.5	3.8,5.6
	Q1,Q3	4.3,5.0	4.1,4.6	4.2,4.8
	n	18	19	37
	Nmiss	3	1	4
90%>_GTT_V6_2 hr (mmol/L)	Mean	6.94	5.67	6.30
	Median	6.80	5.75	6.00
	SD	1.52	0.84	1.37
	MIN,MAX	5.1,10.3	3.6,7.2	3.6,10.3
	Q1,Q3	5.8,7.5	5.0,6.1	5.3,7.1
	n	18	18	36
	Nmiss	3	2	5

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
95%>_GTT_V6_base (mmol/L)	Mean	4.88	4.31	4.58
	Median	4.80	4.30	4.40
	SD	0.53	0.34	0.52
	MIN,MAX	4.2,5.6	3.9,5.1	3.9,5.6
	Q1,Q3	4.4,5.3	4.0,4.4	4.2,5.0
	n	9	10	19
	Nmiss	3	1	4
95%>_GTT_V6_2 hr (mmol/L)	Mean	7.06	5.90	6.48
	Median	7.20	5.90	6.05
	SD	1.40	0.77	1.25
	MIN,MAX	5.1,9.8	5.0,7.2	5.0,9.8
	Q1,Q3	6.1,7.5	5.3,6.0	5.8,7.2
	n	9	9	18
	Nmiss	3	2	5

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_GTT_V6_base (mmol/L)	Mean	5.08	4.31	4.59
	Median	5.15	4.30	4.40
	SD	0.51	0.39	0.56
	MIN,MAX	4.4,5.6	3.9,5.1	3.9,5.6
	Q1,Q3	4.7,5.5	4.0,4.4	4.2,5.1
	n	4	7	11
	Nmiss	3	0	3
97%>_GTT_V6_2 hr (mmol/L)	Mean	7.83	5.88	6.66
	Median	7.85	5.60	6.40
	SD	1.66	0.97	1.56
	MIN,MAX	5.8,9.8	5.0,7.2	5.0,9.8
	Q1,Q3	6.7,9.0	5.0,6.9	5.3,7.5
	n	4	6	10
	Nmiss	3	1	4

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.1 Gestational diabetes mellitus (GDM) - OGTT Test* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
GDM WHO CRITERIA*# (n(%))	Missing	15	16	31
	No	84 (81.6)	80 (86.0)	164 (83.7)
	Yes	19 (18.4)	13 (14.0)	32 (16.3)
GDM WHO CRITERIA CODED# (n(%))	Missing	15	16	31
	GDM first at visit 5 (28 weeks)	8 (7.8)	6 (6.5)	14 (7.1)
	GDM first at visit 6 (36 weeks)	11 (10.7)	7 (7.5)	18 (9.2)
	NO GDM	84 (81.6)	80 (86.0)	164 (83.7)
GDM IADPSG CRITERIA*\$ (n(%))	Missing	14	17	31
	No	82 (78.8)	77 (83.7)	159 (81.1)
	Yes	22 (21.2)	15 (16.3)	37 (18.9)
GDM IADPSG CRITERIA CODED\$ (n(%))	Missing	14	17	31
	GDM first at visit 5 (28 weeks)	14 (13.5)	5 (5.4)	19 (9.7)
	GDM first at visit 6 (36 weeks)	8 (7.7)	10 (10.9)	18 (9.2)
	NO GDM	82 (78.8)	77 (83.7)	159 (81.1)

By: Aryelly Rodriguez - ECTU Statistician

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Once GDM is present in visit 5 then it will stay present in visit 6 #WHO criteria: Fasting glucose >= 7.0 mmol/l or 2hr glucose >=7.8 mmol/l

\$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Frequency

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.2 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

GDM_IAD(GDM calculated using IADPSG criteria	AllocatedTreatment(Allocated Treatment)					
(Y/N))	METFORMIN	PLACEBO	Total			
Missing	17	14				
No	77	82	159			
Yes	15	22	37			
Total	92	104	196			
Frequency Missing = 31						

Table of GDM_IAD by AllocatedTreatment

Parameter(s)	Studied effects	Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
GDMIAD_pp	AllocatedTreatment METFORMIN vs PLACEBO	0.726	0.351	1.501	0.3877	0.4655

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.1.6.1 of this report *Analised using logistic regression (binary logit), probability modeled GDM_IAD='Yes' #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.3 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of GDM_CODE_IAD by AllocatedTreatment								
	GDM CODE IAD(GDM calculated	AllocatedTreatn	nent(Allocated Tre	eatment)					
	using IADPSG criteria by visit)	METFORMIN	PLACEBO	Total					
	Missing	17	14						
	GDM first at visit 5 (28 weeks)	5	14	19					
	GDM first at visit 6 (36 weeks)	10	8	18					
	NO GDM	77	82	159					
	Total	92	104	196					
	Frequen	cy Missing = 31							

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.1.6.1 of this report *Analised using The Mantel-Haenszel chi-square statistic tests #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.1.6.3 Gestational diabetes mellitus (GDM) IADPSG\$ - OGTT Test*- Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Statistics for Table of GDM_CODE_IAD by AllocatedTreatment

Statistic	DF	Value	Prob
Chi-Square	2	3.9226	0.1407
Likelihood Ratio Chi-Square	2	4.0837	0.1298
Mantel-Haenszel Chi-Square	1	2.0234	0.1549
Phi Coefficient		0.1415	
Contingency Coefficient		0.1401	
Cramer's V		0.1415	

Effective Sample Size = 196 Frequency Missing = 31

WARNING: 14 % of the data are missing.

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.1.6.1 of this report *Analised using The Mantel-Haenszel chi-square statistic tests #Significance level set at p<0.05. Detailed analysis in file 'Empowar_5_1_6_glucose_GDM_analysis.lst' \$IADPSG criteria: Fasting glucose >= 5.1 mmol/l or 2hr glucose >= 8.5 mmol/l

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.1 Insulin - Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Insulin - Visit 2 (mIU/mI)	Mean	22.963	21.915	22.464		
	Median	20.823	20.557	20.773		
	SD	10.462	8.996	9.779		
	MIN,MAX	7.43,71.22	2.00,45.46	2.00,71.22		
	Q1,Q3	16.50,27.27	15.64,26.94	15.81,27.27		
	n	101	92	193		
	Nmiss	17	17	34		
Insulin - Visit 5 (mIU/mI)	Mean	28.073	24.539	26.371		
	Median	24.360	22.995	23.810		
	SD	13.285	12.181	12.854		
	MIN,MAX	9.82,89.98	6.82,91.05	6.82,91.05		
	Q1,Q3	19.74,31.85	16.95,29.19	18.05,30.73		
	n	99	92	191		
	Nmiss	19	17	36		

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.1 Insulin - Visit 6 (36 Weeks) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Insulin - Visit 6 (mIU/mI)	Mean	31.886	32.588	32.218		
	Median	29.134	27.088	28.632		
	SD	13.402	26.065	20.334		
	MIN,MAX	10.10,91.87	9.78,204.26	9.78,204.26		
	Q1,Q3	22.44,37.46	17.65,37.34	20.83,37.34		
	n	88	79	167		
	Nmiss	30	30	60		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.2.1 Fasted Insulin - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Plac	cebo	Metformin								
	Estimated			Estimated			Estimated Mean	Estimated Mean Difference Lower	Estimated Mean Difference Upper	Statistic	
Parameter(s)	Mean	SE	n	Mean	SE	n	Difference*	CI*	CI*	(t-test)	p-value
Insulin_log_visit_6 - pp	3.502	0.0860	88	3.438	0.0831	79	-0.063	-0.199	0.072	0.851	0.3576

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed insulin in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed mean and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_2_2_INSULIN_RES_outcome_analysis.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.2.2.2 Fasted Insulin - Visit 5 (28 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Placebo			Metformin							
	Estimated			Estimated			Estimated Mean	Estimated Mean Difference Lower	Estimated Mean Difference Upper	Statistic	
Parameter(s)	Mean	SE	n	Mean	SE	n	Difference*	CI*	CI*	(t-test)	p-value
Insulin_log_visit_5 - pp	3.323	0.0737	99	3.185	0.0696	92	-0.138	-0.251	-0.025	5.772	0.0173

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed insulin in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed mean and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_2_2_INSULIN_RES_outcome_analysis_v5'.Ist Parameter shown normal or near-normal behavior

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.1 HOMA-IR - Visit 2 Consent/Baseline (10-16 Weeks) and Visit 5 (28 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
HOMA - visit 2 - base	Mean	4.592	4.338	4.471			
	Median	3.954	3.966	3.961			
	SD	2.322	1.824	2.098			
	MIN,MAX	1.16,14.24	0.34,8.93	0.34,14.24			
	Q1,Q3	3.09,5.54	3.10,5.44	3.09,5.53			
	n	101	92	193			
	Nmiss	17	17	34			
HOMA - visit 5 - base	Mean	5.683	4.812	5.261			
	Median	4.902	4.650	4.754			
	SD	2.986	2.544	2.808			
	MIN,MAX	1.83,18.99	1.23,19.42	1.23,19.42			
	Q1,Q3	3.82,6.56	3.09,6.01	3.37,6.23			
	n	98	92	190			
	Nmiss	20	17	37			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.2 HOMA-IR - Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
HOMA - visit 6 - base	Mean	6.362	6.222	6.297		
	Median	5.809	5.056	5.358		
	SD	2.963	4.904	3.976		
	MIN,MAX	1.62,16.74	1.74,34.50	1.62,34.50		
	Q1,Q3	4.40,7.42	3.40,7.16	3.71,7.31		
	n	88	77	165		
	Nmiss	30	32	62		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.3.1 HOMA_IR - VISIT 6 (36 WEEKS) - Statistical Analysis Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
HOMA-IR_log_visit_6 - pp	1.876	0.0947	88	1.784	0.0920	77	-0.092	-0.243	0.059	1.459	0.2290

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.3.2 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed HOMA-IR in blood by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_3_4_glucose_outcome_analysis.Ist'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.3.2 HOMA_IR - VISIT 5 (28 WEEKS) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	mated ean S	SE	n	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
HOMA-IR_log_visit_5 - pp 1.	692 0.0	816 9	98	1.527	0.0770	92	-0.165	-0.290	-0.039	6.726	0.0103

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 5.3.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed HOMA-IR in blood by allocated treatment, SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_3_4_glucose_outcome_analysis_5v.lst'

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.1 HOMA-IR - Visit 5 (28 Weeks) split by C-section Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - HOMA_IR - V5 - base	Mean	5.85	5.39	5.64
	Median	5.37	5.25	5.25
	SD	2.61	3.19	2.87
	MIN,MAX	2.6,13.4	1.9,19.4	1.9,19.4
	Q1,Q3	3.8,7.1	3.3,6.2	3.7,6.8
	n	35	29	64
	Nmiss	8	2	10
No C-section - HOMA_IR - V5 - base	Mean	5.59	4.54	5.07
	Median	4.69	4.30	4.59
	SD	3.19	2.18	2.78
	MIN,MAX	1.8,19.0	1.2,11.3	1.2,19.0
	Q1,Q3	3.5,6.3	3.0,5.7	3.2,5.8
	n	63	62	125
	Nmiss	12	15	27

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.2 HOMA-IR - Visit 6 (36 Weeks) split by C-section Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Yes C-section - HOMA_IR - V6 - base	Mean	6.79	5.10	6.11
	Median	6.23	5.06	5.40
	SD	3.06	2.03	2.80
	MIN,MAX	2.7,13.8	1.7,9.5	1.7,13.8
	Q1,Q3	4.7,8.0	3.3,6.7	4.1,7.2
	n	33	22	55
	Nmiss	10	7	17
No C-section - HOMA_IR - V6 - base	Mean	6.10	6.67	6.39
	Median	5.60	4.99	5.32
	SD	2.90	5.61	4.46
	MIN,MAX	1.6,16.7	1.9,34.5	1.6,34.5
	Q1,Q3	4.1,7.4	3.4,7.9	3.6,7.5
	n	55	55	110
	Nmiss	20	22	42

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_HOMA_IR_V5_base	Mean	4.04	2.34	3.19
	Median	4.04	2.34	3.19
	SD			1.20
	MIN,MAX	4.0,4.0	2.3,2.3	2.3,4.0
	Q1,Q3	4.0,4.0	2.3,2.3	2.3,4.0
	n	1	1	2
	Nmiss	0	0	0
5%<=_HOMA_IR_V5_base	Mean	3.85	2.88	3.36
	Median	4.04	2.83	3.14
	SD	0.94	0.56	0.88
	MIN,MAX	2.8,4.7	2.3,3.5	2.3,4.7
	Q1,Q3	2.8,4.7	2.3,3.5	2.8,4.0
	n	3	3	6
	Nmiss	0	0	0

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_HOMA_IR_V5_base	Mean	4.72	3.77	4.29
	Median	4.81	3.44	4.04
	SD	1.23	1.75	1.49
	MIN,MAX	2.8,6.5	2.3,6.8	2.3,6.8
	Q1,Q3	4.0,5.4	2.8,3.5	2.8,5.4
	n	6	5	11
	Nmiss	0	1	1
10%> AND 90%<=_HOMA_IR_V5_base	Mean	5.53	4.65	5.11
	Median	4.62	4.65	4.64
	SD	2.98	2.09	2.62
	MIN,MAX	1.8,19.0	1.2,11.3	1.2,19.0
	Q1,Q3	3.7,6.4	3.1,5.6	3.3,6.1
	n	75	68	143
	Nmiss	15	13	28

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
90%>_HOMA_IR_V5_base	Mean	6.72	5.71	6.20
	Median	5.78	5.56	5.77
	SD	3.31	3.92	3.62
	MIN,MAX	2.7,14.8	1.5,19.4	1.5,19.4
	Q1,Q3	4.9,7.0	3.1,6.9	4.3,6.9
	n	17	18	35
	Nmiss	4	3	7
95%>_HOMA_IR_V5_base	Mean	5.37	5.82	5.64
	Median	5.74	4.94	5.53
	SD	1.34	4.68	3.66
	MIN,MAX	2.7,7.0	1.5,19.4	1.5,19.4
	Q1,Q3	4.7,6.2	3.0,6.9	3.9,6.7
	n	8	12	20
	Nmiss	4	0	4

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.3 HOMA-IR - Visit 5 (28 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Int	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
97%>_HOMA_IR_V5_base	Mean	5.74	6.54	6.27
	Median	5.74	5.15	5.73
	SD	0.67	5.54	4.45
	MIN,MAX	4.9,6.6	1.5,19.4	1.5,19.4
	Q1,Q3	5.3,6.2	3.6,6.9	4.5,6.7
	n	4	8	12
	Nmiss	3	0	3

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
3%<=_HOMA_IR_V6_base	Mean	2.14	-	2.14
	Median	2.14		2.14
	SD			
	MIN,MAX	2.1,2.1	-,-	2.1,2.1
	Q1,Q3	2.1,2.1	-,-	2.1,2.1
	n	1	0	1
	Nmiss	0	1	1
5%<=_HOMA_IR_V6_base	Mean	3.07	3.64	3.30
	Median	3.51	3.64	3.51
	SD	0.81	0.92	0.80
	MIN,MAX	2.1,3.6	3.0,4.3	2.1,4.3
	Q1,Q3	2.1,3.6	3.0,4.3	3.0,3.6
	n	3	2	5
	Nmiss	0	1	1

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
10%<=_HOMA_IR_V6_base	Mean	5.50	4.56	5.08
	Median	3.57	4.00	3.72
	SD	3.61	1.87	2.84
	MIN,MAX	2.1,11.0	3.0,7.3	2.1,11.0
	Q1,Q3	3.5,7.3	3.4,5.8	3.5,7.3
	n	5	4	9
	Nmiss	1	2	3
10%> AND 90%<=_HOMA_IR_V6_base	Mean	6.00	6.58	6.27
	Median	5.60	5.11	5.34
	SD	2.57	5.44	4.13
	MIN,MAX	1.6,14.0	1.9,34.5	1.6,34.5
	Q1,Q3	4.4,6.8	3.3,7.4	3.7,7.2
	n	69	58	127
	Nmiss	21	22	43

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
90%>_HOMA_IR_V6_base	Mean	8.44	5.26	6.80	
	Median	7.57	4.63	6.30	
	SD	3.81	2.61	3.57	
	MIN,MAX	3.6,16.7	1.7,10.0	1.7,16.7	
	Q1,Q3	5.0,11.9	3.5,6.5	4.1,8.3	
	n	14	15	29	
	Nmiss	7	5	12	
95%>_HOMA_IR_V6_base	Mean	8.25	4.71	6.13	
	Median	7.57	4.11	6.05	
	SD	3.34	2.73	3.39	
	MIN,MAX	4.8,12.7	1.7,10.0	1.7,12.7	
	Q1,Q3	5.0,11.9	2.3,6.3	3.5,7.8	
	n	6	9	15	
	Nmiss	6	2	8	

Section 5. Maternal insulin resistance (Secondary Outcome) 5.3.4.4 HOMA-IR - Visit 6 (36 Weeks) split by birth centile Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
97%>_HOMA_IR_V6_base	Mean	8.44	5.15	5.98		
	Median	8.44	5.20	5.66		
	SD	4.84	3.09	3.53		
	MIN,MAX	5.0,11.9	1.7,10.0	1.7,11.9		
	Q1,Q3	5.0,11.9	2.3,6.5	3.2,8.3		
	n	2	6	8		
	Nmiss	5	1	6		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose_base x insulin / 22.5)

Section 5. Laboratory results (Secondary Outcome) 5.4.1 NEFA by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
NEFA - visit 2* (mmol/L)	Mean	0.544	0.468	0.508		
	Median	0.520	0.440	0.480		
	SD	0.202	0.161	0.187		
	MIN,MAX	0.16,1.35	0.13,0.82	0.13,1.35		
	Q1,Q3	0.40,0.66	0.35,0.59	0.37,0.63		
	n	101	92	193		
	Nmiss	17	17	34		
NEFA - visit 5* (mmol/L)	Mean	0.428	0.441	0.434		
	Median	0.440	0.410	0.440		
	SD	0.135	0.165	0.150		
	MIN,MAX	0.11,0.78	0.12,0.86	0.11,0.86		
	Q1,Q3	0.31,0.52	0.33,0.54	0.32,0.53		
	n	99	92	191		
	Nmiss	19	17	36		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

By: Aryelly Rodriguez - ECTU Statistician

Section 5. Laboratory results (Secondary Outcome) 5.4.1 NEFA by study visit (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
NEFA - visit 6* (mmol/L)	Mean	0.465	0.481	0.472		
	Median	0.445	0.470	0.460		
	SD	0.194	0.207	0.200		
	MIN,MAX	0.13,0.97	0.11,1.00	0.11,1.00		
	Q1,Q3	0.31,0.60	0.31,0.62	0.31,0.60		
	n	88	79	167		
	Nmiss	30	30	60		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.2 IL_6 by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
IL_6 - visit 2* (pg/ml)	Mean	2.304	2.031	2.174			
	Median	2.020	1.823	1.911			
	SD	1.120	1.108	1.120			
	MIN,MAX	0.80,7.21	0.62,8.14	0.62,8.14			
	Q1,Q3	1.50,2.88	1.39,2.31	1.45,2.55			
	n	101	92	193			
	Nmiss	17	17	34			
IL_6 - visit 5* (pg/ml)	Mean	2.456	2.288	2.375			
	Median	2.093	2.087	2.093			
	SD	1.261	1.192	1.228			
	MIN,MAX	0.80,7.72	0.88,8.76	0.80,8.76 1.62,2.86			
	Q1,Q3	1.62,3.08	1.60,2.69				
	n	99	92	191			
	Nmiss	19	17	36			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.2 IL_6 by study visit (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
IL_6 - visit 6* (pg/ml)	Mean	3.659	2.774	3.240			
	Median	2.753	2.291	2.567			
	SD	3.733	1.264	2.872			
	MIN,MAX	1.19,29.94	1.11,7.35	1.11,29.94			
	Q1,Q3	2.14,3.73	1.91,3.38	2.01,3.64			
	n	88	79	167			
	Nmiss	30	30	60			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.3 Leptin by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Leptin - visit 2* (ng/ml)	Mean	90.659	99.787	95.010			
	Median	82.244	91.700	87.270			
	SD	46.173	39.236	43.139			
	MIN,MAX	24.19,305.25	33.04,250.68	24.19,305.25			
	Q1,Q3	58.41,105.04	74.23,115.62	66.74,112.67			
	n	101	92	193			
	Nmiss	17	17	34			
Leptin - visit 5* (ng/ml)	Mean	100.761	98.464	99.654			
	Median	93.404	87.486	91.854			
	SD	49.942	40.053	45.345			
	MIN,MAX	25.94,376.10	27.14,212.98	25.94,376.10			
	Q1,Q3	66.81,117.12	69.59,125.97	68.27,124.41			
	n	99	92	191			
	Nmiss	19	17	36			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

By: Aryelly Rodriguez - ECTU Statistician

*Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.3 Leptin by study visit (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Leptin - visit 6* (ng/ml)	Mean	103.798	101.257	102.596			
	Median	92.129	88.806	91.308			
	SD	55.337	47.019	51.433			
	MIN,MAX	22.67,397.20	33.78,255.00	22.67,397.20			
	Q1,Q3	69.61,128.54	66.98,122.46	68.78,127.27			
	n	88	79	167			
	Nmiss	30	30	60			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.4 Cortisol by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	– Placebo N=118	Metformin N=109	Overall N=227			
Cortisol - visit 2* (nmol/l)	Mean	384.760	438.183	410.226			
	Median	369.660	409.711	375.366			
	SD	135.506	186.538	163.619			
	MIN,MAX	164.06,733.26	150.26,1197.1	150.26,1197.1			
	Q1,Q3	279.72,476.13	292.00,546.21	288.03,506.95			
	n	101	92	193			
	Nmiss	17	17	34			
Cortisol - visit 5* (nmol/l)	Mean	708.183	802.516	753.621			
	Median	627.150	751.033	702.800			
	SD	230.255	263.424	250.628			
	MIN,MAX	395.60,1922.5	234.30,1826.3	234.30,1922.5			
	Q1,Q3	547.84,809.18	654.20,930.33	594.08,893.09			
	n	99	92	191			
	Nmiss	19	17	36			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 2 Consent/Baseline (10-16 Weeks), Visit 5 (28 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.4 Cortisol by study visit (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Cortisol - visit 6* (nmol/l)	Mean	806.477	888.378	845.220			
	Median	778.645	842.706	800.754 240.321			
	SD	225.004	250.727				
	MIN,MAX	432.38,1903.3	432.71,1859.6	432.38,1903.3			
	Q1,Q3	659.11,884.97	694.70,1022.1	675.39,967.38			
	n	88	79	167			
	Nmiss	30	30	60			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 6 (36 Weeks)

Section 5. Laboratory results (Secondary Outcome) 5.4.5 PAI1/PAI2 ratio by study visit Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
PAI_ratio - visit 2*	Mean	1.550	2.158	1.838		
	Median	1.084	0.986	1.044		
	SD	1.563	6.493	4.607		
	MIN,MAX	0.28,11.89	0.33,57.63	0.28,57.63		
	Q1,Q3	0.78,1.73	0.74,1.47	0.76,1.58		
	n	91	82	173		
	Nmiss	27	27	54		
PAI_ratio - visit 6*	Mean	3.396	3.314	3.357		
	Median	2.637	1.864	2.296		
	SD	2.651	3.090	2.859		
	MIN,MAX	0.64,13.98	0.68,16.41	0.64,16.41		
	Q1,Q3	1.44,4.70	1.24,4.23	1.34,4.52		
	n	91	82	173		
	Nmiss	27	27	54		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Visit 2 Consent/Baseline (10-16 Weeks), Visit 6 (36 Weeks)

By: Aryelly Rodriguez - ECTU Statistician

Section 5. Laboratory results (Secondary Outcome) 5.4.6 NEFA, IL-6, Leptin, Cortisol, PAI1/PAI2 ratio Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo		Metf	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
IL_6_log_Visit6 - pp	1.056	0.0892	88	0.903	0.0861	79	-0.153	-0.294	-0.012	4.613	0.0333
Leptin_log_Visit6 - pp	4.521	0.0812	88	4.528	0.0784	79	0.007	-0.121	0.135	0.011	0.9152
Cortisol_nmol_l_log_Visit6 - pp	6.639	0.0497	88	6.727	0.0480	79	0.088	0.010	0.167	4.913	0.0281
NEFA_log_Visit6 - pp	-0.776	0.0790	88	-0.736	0.0763	79	0.040	-0.085	0.165	0.406	0.5249
PAI_ratio_log_Visit6 - pp	1.009	0.1442	91	0.899	0.1339	82	-0.110	-0.328	0.107	1.009	0.3167

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47

Summary statistics are presented in tables 5.4.1 to 5.4.5 of this report

By: Aryelly Rodriguez - ECTU Statistician

Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05

Estimated mean represents the adjusted means of the log transformed variable by allocated treatment,

SE represents standard error of the estimated log transformed means and N represents number of observations

*Represents the difference between estimated log transformed means and CI Represents the 95% confidence interval

Calculations and detailed analysis are presented in study file 'Empowar_5_4_other_labs_analysis_v6.lst'

All parameters shown normal or near-normal behavior

Section 5. Laboratory results (Secondary Outcome) 5.5.1 B12# - Visit 2 Consent/Baseline (10-16 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
B12 (ng/l) - visit 2	Mean	256.6	259.4	257.9		
	Median	240.5	246.0	245.0		
	SD	108.1	71.6	92.3		
	MIN,MAX	55,760	80,404	55,760		
	Q1,Q3	191,324	214,306	205,314		
	n	90	82	172		
	Nmiss	28	27	55		
B12 below 95th - visit 2 (n(%))*	Missing	28	27	55		
	Yes	82 (91.1)	78 (95.1)	160 (93.0)		
	No	8 (8.9)	4 (4.9)	12 (7.0)		
B12 below 5th - visit 2 (n(%))*	Missing	28	27	55		
	Yes	6(6.7)	4 (4.9)	10 (5.8)		
	No	84 (93.3)	78 (95.1)	162 (94.2)		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 117 ng/l and 95th centile was set at 389 ng/l #Reference range 200-940 ng/l

Section 5. Laboratory results (Secondary Outcome) 5.5.1 B12# - Visit 6 (36 Weeks)(Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
B12 (ng/l) - visit 6	Mean	226.1	205.5	216.1		
	Median	224.5	198.0	206.0		
	SD	75.4	68.6	72.7		
	MIN,MAX	60,482	47,417	47,482		
	Q1,Q3	176,275	162,244	168,253		
	n	88	83	171		
	Nmiss	30	26	56		
B12 below 95th - visit 6 (n(%))*	Missing	30	26	56		
	Yes	85 (96.6)	82 (98.8)	167 (97.7)		
	No	3 (3.4)	1 (1.2)	4 (2.3)		
B12 below 5th - visit 6 (n(%))*	Missing	30	26	56		
	Yes	5 (5.7)	6 (7.2)	11 (6.4)		
	No	83 (94.3)	77 (92.8)	160 (93.6)		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 117 ng/l and 95th centile was set at 389 ng/l #Reference range 200-940 ng/l

Section 5. Laboratory results (Secondary Outcome) 5.5.2 Serum folate# - Visit 2 Consent/Baseline (10-16 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Serum Folate (ug/l) - visit 2	Mean	13.93	14.48	14.19	
	Median	17.00	16.85	16.85	
	SD	4.56	4.37	4.46	
	MIN,MAX	4.3,17.5	2.4,21.0	2.4,21.0	
	Q1,Q3	10.5,17.5	12.2,17.5	11.2,17.5	
	n	90	82	172	
	Nmiss	28	27	55	
Serum Folate below 95th - visit 2 (n(%))*	Missing	28	27	55	
	Yes	45 (50.0)	46 (56.1)	91 (52.9)	
	No	45 (50.0)	36 (43.9)	81 (47.1)	
Serum Folate below 5th - visit 2 (n(%))*	Missing	28	27	55	
	Yes	0	1 (1.2)	1 (0.6)	
	No	90 (100)	81 (98.8)	171 (99.4)	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 2.6 ug/l and 95th centile was set at 17.5 ug/l #Reference range 3.1-17.5 ug/l, if Serum folate value was reported as greater than 17.5 ug/l, then the value

was imputed at 17.5 ug/l for summarisation

Section 5. Laboratory results (Secondary Outcome) 5.5.2 Serum folate# - Visit 6 (36 Weeks) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Placebo		
Categories	N=118	Metformin N=109	Overall N=227
Mean	9.15	9.46	9.30
Median	6.95	7.40	7.30
SD	6.01	5.72	5.86
MIN,MAX	1.3,17.5	1.2,21.0	1.2,21.0
Q1,Q3	3.8,16.3	4.2,15.2	4.1,16.1
n	90	83	173
Nmiss	28	26	54
Missing	28	26	54
Yes	70 (77.8)	66 (79.5)	136 (78.6
No	20 (22.2)	17 (20.5)	37 (21.4)
Missing	28	26	54
Yes	7 (7.8)	5 (6.0)	12 (6.9)
No	83 (92.2)	78 (94.0)	161 (93.1
	Median SD MIN,MAX Q1,Q3 n Nmiss Missing Yes No Missing Yes	Median 6.95 SD 6.01 MIN,MAX 1.3,17.5 Q1,Q3 3.8,16.3 n 90 Nmiss 28 Missing 28 Yes 70 (77.8) No 20 (22.2) Missing 28 Yes 70 (77.8) No 20 (22.2)	Median 6.95 7.40 SD 6.01 5.72 MIN,MAX 1.3,17.5 1.2,21.0 Q1,Q3 3.8,16.3 4.2,15.2 n 90 83 Nmiss 28 26 V V V Missing 28 26 Yes 70 (77.8) 66 (79.5) No 20 (22.2) 17 (20.5) Missing 28 26 Yes 70 (77.8) 66 (79.5) No 20 (22.2) 17 (20.5) Yes 7 (7.8) 5 (6.0)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *5th centile was set at 2.6 ug/l and 95th centile was set at 17.5 ug/l #Reference range 3.1-17.5 ug/l, if Serum folate value was reported as greater than 17.5 ug/l, then the value was imputed at 17.5 ug/l for summarisation

Section 5. Laboratory results (Secondary Outcome) 5.5.3 B12 and Serum Folate Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo	Metformin								
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper Cl*	Statistic (t-test)	p-value
B12_log_99_Visit6 - pp	5.401	0.0669	88	5.284	0.0619	83	-0.117	-0.218	-0.015	5.134	0.0248
SFOLATE_log_99_Visit6 - pp	1.946	0.1428	90	2.054	0.1327	83	0.108	-0.109	0.325	0.970	0.3263

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in tables 5.5.2 and 5.6.2 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_5_B12_folate_continuo_analysis_v6.lst' All parameters shown normal or near-normal behavior

Section 5. Laboratory results (Secondary Outcome) 5.5.4.1 B12* - Patients below 5th centile - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of B1	2_N5TH by Allo						
	B12_N5TH(Patients with B12 below 5th		Freatment(Allo Treatment)	ocated				
	centile (Y/N))	METFORMIN	PLACEBO	Total				
	Missing	26	30		-			
	Yes	6	5	11				
	No	77	83	160				
	Total	83	88	171				
	Fr	equency Missing	g = 56		_			
					Lower 95% Confidence	Upper 95% Confidence		
Parameter(s)		Studied effects		Odds Ratio Estimate	Limit for Odds Ratio	Limit for Odds Ratio	P-value#	Fisher exact P-value#
b12_n5th_pp	AllocatedTreatment		PLACEBO	1.294	0.379	4.411	0.6809	0.7614

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is B12_N5THb='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 5 5 B12 folate discre analysis v6.lst' By: Aryelly Rodriguez - ECTU Statistician

Section 5. Laboratory results (Secondary Outcome) 5.5.4.2 Serum Folate* - Patients below 5th centile - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of SFC	L_N5TH by Allo	catedTreatm	ent				
	SFOL_N5TH(Patients with Serum Folate below 5th centile		Treatment(Al Treatment)	located				
	(Y/N))	METFORMIN	PLACEBO	Т	otal			
	Missing	26	28					
	Yes	5	7		12			
	No	78	83		161			
	Total	83	90		173			
	Fre	equency Missing	= 54					
					Lower	Upper		
					95% Confidence	95% Confidence		
				Odds	Limit	Limit		Fisher
Paramatar(a)		Studied effects		Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
Parameter(s)								
sfol_n5th_pp	AllocatedTreatment M	ETFORMIN vs P	LACEBO	0.760	0.232	2.495	0.6510	0.7686

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is SFOL_N5THb='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_5_5_B12_folate_discre_analysis_v6.lst' By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.1.1 Maternal Height at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Height (cm) at Visit 2	Mean	166.1	165.8	166.0			
	Median	166.2	165.5	166.0			
	SD	6.0	5.7	5.9			
	MIN,MAX	152,184	153,180	152,184			
	Q1,Q3	162,170	162,170	162,170			
	n	118	109	227			
	Nmiss	0	0	0			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.1.2 Maternal Height at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Height (cm) at Visit 6	Mean	166.2	166.4	166.3	
	Median	166.0	166.5	166.5	
	SD	6.1	5.7	5.9	
	MIN,MAX	152,184	155,183	152,184	
	Q1,Q3	162,170	163,170	162,170	
	n	105	94	199	
	Nmiss	13	15	28	
Height (cm) change V6 baseline	Mean	0.2	0.1	0.2	
	Median	0.0	0.0	0.0	
	SD	0.8	0.8	0.8	
	MIN,MAX	-2,2	-3,3	-3,3	
	Q1,Q3	0,0	0,0	0,0	
	n	105	94	199	
	Nmiss	13	15	28	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.1.3 Maternal Height at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Height (cm) at Visit 9	Mean	165.6	166.2	165.9		
	Median	166.0	166.0	166.0		
	SD	6.0	5.7	5.8		
	MIN,MAX	152,184	155,180	152,184		
	Q1,Q3	162,169	162,170	162,170		
	n	89	89	178		
	Nmiss	29	20	49		
Height (cm) change V9 baseline	Mean	-0.2	-0.1	-0.1		
	Median	0.0	0.0	0.0		
	SD	0.7	0.7	0.7		
	MIN,MAX	-3,2	-2,3	-3,3		
	Q1,Q3	0,0	0,0	0,0		
	n	89	89	178		
	Nmiss	29	20	49		

Section 6. Mother Anthropometry 6.2.1 Maternal Weight at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227				
Weight (kg) at Visit 2	Mean	103.74	104.04	103.88				
	Median	98.33	104.00	101.30				
	SD	16.95	15.22	16.10				
	MIN,MAX	75.6,154.0	74.0,140.3	74.0,154.0				
	Q1,Q3	90.6,114.6	93.3,115.0	92.0,115.0				
	n	118	109	227				
	Nmiss	0	0	0				

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.2.2.1 Maternal Weight at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Weight (kg) at Visit 6	Mean	111.32	111.97	111.62		
	Median	106.45	111.00	109.70		
	SD	17.51	15.75	16.67		
	MIN,MAX	79.8,159.0	79.1,165.7	79.1,165.7		
	Q1,Q3	98.2,123.0	103.9,120.0	100.0,121.0		
	n	106	93	199		
	Nmiss	12	16	28		
Weight (kg) change V6 baseline	Mean	7.40	6.85	7.14		
	Median	6.95	6.50	6.80		
	SD	4.56	6.11	5.34		
	MIN,MAX	-4.5,18.8	-5.7,35.7	-5.7,35.7		
	Q1,Q3	4.8,9.5	3.2,10.0	3.9,9.7		
	n	106	93	199		
	Nmiss	12	16	28		

Section 6. Mother Anthropometry

6.2.2.2 Maternal Weight at Visit 6 (36 Weeks) change from baseline - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	acebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Weight-DIFF-Visit_6 - pp	6.932	0.8458	106	6.593	0.8087	93	-0.339	-1.769	1.091	0.218	0.6408

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodrig Summary statistics are presented in table 6.2.2.1 of this report Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the means for the Weight Difference by allocated treatment, SE represents standard error of the estimated means and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_6_2_2_Mother Anthropometry_weight_gain_v6.lst' Parameter shown normal or near-normal behavior

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.2.3 Maternal Weight at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Weight (kg) at Visit 9	Mean	102.04	105.07	103.54
	Median	98.20	104.57	101.20
	SD	15.69	18.53	17.17
	MIN,MAX	72.7,143.0	73.8,193.0	72.7,193.0
	Q1,Q3	92.0,112.0	94.5,112.2	92.3,112.1
	n	89	87	176
	Nmiss	29	22	51
Weight (kg) change V9 baseline	Mean	0.05	0.83	0.44
	Median	0.00	-0.80	-0.30
	SD	6.08	10.95	8.81
	MIN,MAX	-13.6,18.2	-19.2,79.5	-19.2,79.5
	Q1,Q3	-3.5,3.7	-4.0,2.7	-3.6,3.2
	n	89	87	176
	Nmiss	29	22	51

Section 6. Mother Anthropometry 6.3.1 Maternal Waist at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Waist (cm) at Visit 2	Mean	108.3	108.6	108.4	
	Median	106.0	108.6	107.0	
	SD	12.6	11.2	11.9	
	MIN,MAX	85,148	84,134	84,148	
	Q1,Q3	99,118	101,117	100,117	
	n	118	109	227	
	Nmiss	0	0	0	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.3.2 Maternal Waist at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Waist (cm) at Visit 6	Mean	119.0	117.4	118.3
	Median	117.3	117.0	117.0
	SD	12.6	10.9	11.9
	MIN,MAX	95,161	88,140	88,161
	Q1,Q3	108,127	109,126	109,126
	n	106	93	199
	Nmiss	12	16	28
Waist (cm) change V6 baseline	Mean	10.3	9.0	9.7
	Median	10.0	9.0	9.0
	SD	7.4	8.2	7.8
	MIN,MAX	-10,29	-22,28	-22,29
	Q1,Q3	5,15	4,13	5,14
	n	106	93	199
	Nmiss	12	16	28

Section 6. Mother Anthropometry 6.3.3 Maternal Waist at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Waist (cm) at Visit 9	Mean	108.4	109.3	108.9
	Median	106.0	109.0	107.0
	SD	13.0	13.2	13.0
	MIN,MAX	80,142	79,141	79,142
	Q1,Q3	99,115	100,117	100,117
	n	88	89	177
	Nmiss	30	20	50
Waist (cm) change V9 baseline	Mean	0.9	1.0	0.9
	Median	0.3	1.0	0.5
	SD	7.6	8.2	7.8
	MIN,MAX	-21,22	-25,23	-25,23
	Q1,Q3	-4,5	-4,5	-4,5
	n	88	89	177
	Nmiss	30	20	50

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.4.1 Maternal Hip at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Hip (cm) at Visit 2	Mean	126.8	127.5	127.1		
	Median	125.0	126.0	125.0		
	SD	11.6	12.2	11.9		
	MIN,MAX	104,155	100,155	100,155		
	Q1,Q3	118,134	119,136	119,134		
	n	118	109	227		
	Nmiss	0	0	0		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.4.2 Maternal Hip at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Hip (cm) at Visit 6	Mean	129.8	131.1	130.4
	Median	128.3	130.0	129.5
	SD	11.9	11.8	11.8
	MIN,MAX	108,158	107,174	107,174
	Q1,Q3	122,139	123,140	122,139
	n	106	93	199
	Nmiss	12	16	28
Hip (cm) change V6 baseline	Mean	2.9	3.0	2.9
	Median	2.8	2.5	2.5
	SD	6.0	6.5	6.2
	MIN,MAX	-11,18	-12,20	-12,20
	Q1,Q3	-1,6	-1,7	-1,7
	n	106	93	199
	Nmiss	12	16	28

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.4.3 Maternal Hip at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Hip (cm) at Visit 9	Mean	127.1	127.7	127.4
	Median	126.0	127.0	126.0
	SD	12.0	13.4	12.7
	MIN,MAX	99,154	79,167	79,167
	Q1,Q3	121,135	121,133	121,134
	n	88	89	177
	Nmiss	30	20	50
Hip (cm) change V9 baseline	Mean	0.9	-0.3	0.3
	Median	1.0	0.0	1.0
	SD	6.9	8.1	7.5
	MIN,MAX	-19,17	-41,16	-41,17
	Q1,Q3	-3,6	-5,5	-4,6
	n	88	89	177
	Nmiss	30	20	50

Section 6. Mother Anthropometry 6.5.1 Maternal Mid Arm at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Mid Arm (cm) at Visit 2	Mean	36.6	37.0	36.8
	Median	36.0	37.0	36.0
	SD	4.8	4.4	4.6
	MIN,MAX	22,48	28,52	22,52
	Q1,Q3	34,39	34,39	34,39
	n	117	106	223
	Nmiss	1	3	4

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.5.2 Maternal Mid Arm at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Mid Arm (cm) at Visit 6	Mean	36.4	36.4	36.4
	Median	36.0	36.0	36.0
	SD	4.7	4.4	4.6
	MIN,MAX	22,48	22,52	22,52
	Q1,Q3	34,39	34,39	34,39
	n	105	93	198
	Nmiss	13	16	29
Mid Arm (cm) change V6 baseline	Mean	-0.3	-1.1	-0.7
	Median	-0.4	-1.0	-0.5
	SD	3.6	4.0	3.8
	MIN,MAX	-10,12	-20,9	-20,12
	Q1,Q3	-2,1	-2,1	-2,1
	n	104	92	196
	Nmiss	14	17	31

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.5.3 Maternal Mid Arm at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Mid Arm (cm) at Visit 9	Mean	37.2	37.0	37.1
	Median	36.8	37.0	37.0
	SD	4.6	4.2	4.4
	MIN,MAX	28,52	28,54	28,54
	Q1,Q3	35,40	34,40	34,40
	n	87	89	176
	Nmiss	31	20	51
Mid Arm (cm) change V9 baseline	Mean	0.8	-0.2	0.3
	Median	0.5	0.0	0.0
	SD	4.5	3.6	4.1
	MIN,MAX	-7,25	-9,7	-9,25
	Q1,Q3	-2,3	-3,2	-2,3
	n	86	87	173
	Nmiss	32	22	54

Section 6. Mother Anthropometry 6.6.1 Maternal Mid Thigh at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Mid Thigh (cm) at Visit 2	Mean	64.2	65.3	64.8
	Median	64.3	64.0	64.0
	SD	7.3	7.0	7.2
	MIN,MAX	25,84	50,86	25,86
	Q1,Q3	60,69	61,69	60,69
	n	116	106	222
	Nmiss	2	3	5

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.6.2 Maternal Mid Thigh at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	_	ntervention	
Categories	Placebo N=118	Metformin N=109	Overall N=227
Mean	64.8	65.7	65.2
Median	65.0	65.0	65.0
SD	7.2	6.6	6.9
MIN,MAX	29,80	53,83	29,83
Q1,Q3	60,70	60,70	60,70
n	105	93	198
Nmiss	13	16	29
Mean	0.5	0.1	0.3
Median	0.0	1.0	0.5
SD	4.5	5.1	4.8
MIN,MAX	-10,14	-16,14	-16,14
Q1,Q3	-3,4	-4,3	-3,3
n	103	91	194
Nmiss	15	18	33
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories N=118 Mean 64.8 Median 65.0 SD 7.2 MIN,MAX 29,80 Q1,Q3 60,70 n 105 Nmiss 13 Mean 0.5 Median 0.0 SD 4.5 MIN,MAX -10,14 Q1,Q3 -3,4 n 103	Categories N=118 N=109 Mean 64.8 65.7 Median 65.0 65.0 SD 7.2 6.6 MIN,MAX 29,80 53,83 Q1,Q3 60,70 60,70 n 105 93 Nmiss 13 16 Mean 0.5 0.1 Median 0.0 1.0 SD 4.5 5.1 MIN,MAX -10,14 -16,14 Q1,Q3 -3,4 -4,3 n 103 91

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.6.3 Maternal Mid Thigh at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Mid Thigh (cm) at Visit 9	Mean	64.7	65.7	65.2
	Median	64.8	65.0	65.0
	SD	6.3	6.7	6.5
	MIN,MAX	51,84	52,84	51,84
	Q1,Q3	60,68	61,70	61,70
	n	86	88	174
	Nmiss	32	21	53
Mid Thigh (cm) change V9 baseline	Mean	1.1	0.5	0.8
	Median	0.5	1.0	1.0
	SD	7.0	5.7	6.4
	MIN,MAX	-10,47	-19,21	-19,47
	Q1,Q3	-2,4	-3,4	-3,4
	n	84	86	170
	Nmiss	34	23	57

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.7.1 Maternal Tricep Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Tricep Skinfold (mm) at Visit 2	Mean	33.3	32.6	33.0
	Median	31.2	31.5	31.2
	SD	9.4	9.7	9.5
	MIN,MAX	15,62	10,66	10,66
	Q1,Q3	27,40	26,39	27,39
	n	117	108	225
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.7.2 Maternal Tricep Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Tricep Skinfold (mm) at Visit 6	Mean	31.4	33.4	32.3
	Median	32.0	31.5	32.0
	SD	9.4	11.5	10.4
	MIN,MAX	11,65	11,80	11,80
	Q1,Q3	24,36	26,39	25,38
	n	106	94	200
	Nmiss	12	15	27
Tricep Skinfold (mm) change V6 baseline	Mean	-1.9	0.4	-0.8
	Median	-1.0	0.0	-0.4
	SD	9.1	12.3	10.7
	MIN,MAX	-31,24	-44,34	-44,34
	Q1,Q3	-6,3	-6,6	-6,4
	n	105	93	198
	Nmiss	13	16	29

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.7.3 Maternal Tricep Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Tricep Skinfold (mm) at Visit 9	Mean	33.1	33.8	33.5
	Median	32.6	31.0	32.3
	SD	11.0	12.6	11.8
	MIN,MAX	8,77	13,110	8,110
	Q1,Q3	27,39	27,40	27,39
	n	87	89	176
	Nmiss	31	20	51
Tricep Skinfold (mm) change V9 baseline	Mean	0.4	1.1	0.8
	Median	0.0	0.0	0.0
	SD	10.4	12.1	11.3
	MIN,MAX	-32,37	-26,64	-32,64
	Q1,Q3	-6,4	-6,6	-6,5
	n	86	88	174
	Nmiss	32	21	53

Section 6. Mother Anthropometry 6.8.1 Maternal Bicep Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Bicep Skinfold (mm) at Visit 2	Mean	27.4	27.8	27.6
	Median	25.0	26.0	25.5
	SD	10.1	10.7	10.4
	MIN,MAX	9,60	9,61	9,61
	Q1,Q3	21,32	20,33	21,32
	n	117	108	225
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.8.2 Maternal Bicep Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Bicep Skinfold (mm) at Visit 6	Mean	26.7	28.4	27.5
	Median	26.1	25.0	26.0
	SD	10.3	12.2	11.2
	MIN,MAX	8,66	11,71	8,71
	Q1,Q3	19,33	20,34	20,33
	n	106	94	200
	Nmiss	12	15	27
Bicep Skinfold (mm) change V6 baseline	Mean	-0.9	0.0	-0.5
	Median	-1.0	0.0	-0.6
	SD	10.3	10.0	10.1
	MIN,MAX	-42,24	-21,33	-42,33
	Q1,Q3	-6,4	-5,4	-6,4
	n	105	93	198
	Nmiss	13	16	29

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.8.3 Maternal Bicep Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Ir	ntervention	
Categories	Placebo N=118	Metformin N=109	Overall N=227
Mean	27.5	29.5	28.6
Median	24.0	26.0	25.0
SD	12.5	16.5	14.6
MIN,MAX	9,70	8,120	8,120
Q1,Q3	20,32	20,34	20,34
n	87	89	176
Nmiss	31	20	51
Mean	-0.1	2.0	1.0
Median	-0.2	1.1	0.0
SD	10.8	13.8	12.4
MIN,MAX	-35,38	-20,76	-35,76
Q1,Q3	-5,8	-5,7	-5,7
n	86	88	174
Nmiss	32	21	53
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Placebo N=118 Mean 27.5 Median 24.0 SD 12.5 MIN,MAX 9,70 Q1,Q3 20,32 n 87 Nmiss 31 Mean -0.1 Median -0.2 SD 10.8 MIN,MAX -35,38 Q1,Q3 -5,8 n 86	Categories N=118 N=109 Mean 27.5 29.5 Median 24.0 26.0 SD 12.5 16.5 MIN,MAX 9,70 8,120 Q1,Q3 20,32 20,34 n 87 89 Nmiss 31 20 Hedian -0.1 2.0 Median -0.2 1.1 SD 10.8 13.8 MIN,MAX -35,38 -20,76 Q1,Q3 -5,8 -5,7 n 86 88

Section 6. Mother Anthropometry 6.9.1 Maternal Subscapular Skinfold at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Subscapular Skinfold (mm) at Visit 2	Mean	35.3	34.8	35.1
	Median	34.0	33.0	34.0
	SD	11.0	11.7	11.3
	MIN,MAX	12,68	10,67	10,68
	Q1,Q3	28,41	27,40	27,40
	n	117	108	225
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.9.2 Maternal Subscapular Skinfold at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Subscapular Skinfold (mm) at Visit 6	Mean	34.9	36.3	35.5
	Median	33.0	35.0	34.0
	SD	13.1	12.6	12.9
	MIN,MAX	6,71	5,71	5,71
	Q1,Q3	26,44	28,43	27,44
	n	105	92	197
	Nmiss	13	17	30
Subscapular Skinfold (mm) change V6 base	Mean	-0.7	1.1	0.1
	Median	-1.8	0.8	0.0
	SD	10.6	10.6	10.6
	MIN,MAX	-23,39	-23,25	-23,39
	Q1,Q3	-7,4	-5,7	-6,6
	n	104	91	195
	Nmiss	14	18	32

Section 6. Mother Anthropometry 6.9.3 Maternal Subscapular Skinfold at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Subscapular Skinfold (mm) at Visit 9	Mean	35.1	36.4	35.8
	Median	32.0	34.0	33.8
	SD	13.3	12.8	13.0
	MIN,MAX	15,83	9,80	9,83
	Q1,Q3	25,42	28,45	27,44
	n	87	89	176
	Nmiss	31	20	51
Subscapular Skinfold (mm) change V9 base	Mean	0.5	1.0	0.7
	Median	-0.5	1.0	0.0
	SD	10.5	13.2	11.9
	MIN,MAX	-20,47	-31,56	-31,56
	Q1,Q3	-6,5	-8,9	-7,7
	n	86	88	174
	Nmiss	32	21	53

Section 6. Mother Anthropometry 6.10.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated BMI (kg/m^2) at Visit 2	Mean	37.5	37.8	37.7
	Median	36.6	37.5	37.0
	SD	5.5	4.7	5.1
	MIN,MAX	30,53	30,48	30,53
	Q1,Q3	33,41	34,41	34,41
	n	118	109	227
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is a repeat from section 2.5 in this report #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.10.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated BMI (kg/m^2) at Visit 6	Mean	40.2	40.4	40.3
	Median	39.6	39.7	39.6
	SD	5.4	4.7	5.1
	MIN,MAX	31,54	32,55	31,55
	Q1,Q3	36,43	37,43	36,43
	n	105	93	198
	Nmiss	13	16	29
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.6	2.4	2.5
	Median	2.4	2.5	2.4
	SD	1.7	2.1	1.9
	MIN,MAX	-3,7	-2,12	-3,12
	Q1,Q3	2,4	1,3	1,3
	n	105	93	198
	Nmiss	13	16	29

Section 6. Mother Anthropometry 6.10.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Calculated BMI (kg/m^2) at Visit 9	Mean	37.1	38.0	37.6
	Median	36.6	37.5	37.1
	SD	4.9	5.5	5.2
	MIN,MAX	28,52	29,61	28,61
	Q1,Q3	34,40	34,41	34,41
	n	89	87	176
	Nmiss	29	22	51
Calculated BMI (kg/m^2) change V9 baseli	Mean	0.1	0.3	0.2
	Median	0.0	-0.3	-0.0
	SD	2.2	3.7	3.0
	MIN,MAX	-5,5	-7,25	-7,25
	Q1,Q3	-1,1	-1,1	-1,1
	n	89	87	176
	Nmiss	29	22	51

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.11 Maternal body percentage fat (Edinburgh)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Fat (%) Visit 1	Mean	46.21	48.56	47.51
	Median	46.00	48.50	47.45
	SD	5.17	5.01	5.17
	MIN,MAX	36.0,57.3	38.5,58.7	36.0,58.7
	Q1,Q3	42.1,49.5	45.2,51.7	44.7,50.8
	n	27	33	60
	Nmiss	5	3	8
Fat (%) Visit 6	Mean	45.55	47.44	46.63
	Median	46.80	47.60	47.10
	SD	4.69	4.71	4.75
	MIN,MAX	34.3,53.5	39.1,56.3	34.3,56.3
	Q1,Q3	42.8,47.6	43.9,51.2	42.8,50.1
	n	22	29	51
	Nmiss	10	7	17

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47

By: Aryelly Rodriguez - ECTU Statistician

N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients

#Data have been checked, innacuracies happened at time and point

of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.11 Maternal body percentage fat (Edinburgh) (Cont.)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Fat (%) Visit 9	Mean	46.78	48.49	47.74	
	Median	48.10	47.60	47.85	
	SD	5.00	4.80	4.91	
	MIN,MAX	36.6,54.1	37.9,56.7	36.6,56.7	
	Q1,Q3	42.7,49.2	44.8,53.1	44.7,51.8	
	n	21	27	48	
	Nmiss	11	9	20	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.12 Maternal Body fat mass (Edinburgh)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
FatMass (kg) Visit 1	Mean	46.684	52.117	49.672	
	Median	46.260	52.569	49.378	
	SD	9.209	12.214	11.212	
	MIN,MAX	31.05,72.84	28.30,76.17	28.30,76.17	
	Q1,Q3	42.45,52.44	42.32,61.25	42.39,56.81	
	n	27	33	60	
	Nmiss	5	3	8	
FatMass (kg) Visit 6	Mean	48.983	54.150	51.921	
	Median	49.642	54.452	50.430	
	SD	8.073	12.325	10.914	
	MIN,MAX	27.38,61.62	30.52,76.38	27.38,76.38	
	Q1,Q3	47.52,54.42	46.75,65.08	46.78,57.24	
	n	22	29	51	
	Nmiss	10	7	17	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients

#Data have been checked, innacuracies happened at time and point

of recording and there are not other sources for further checks

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.12 Maternal Body fat mass (Edinburgh) (Cont.)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
FatMass (kg) Visit 9	Mean	48.390	50.474	49.562	
	Median	50.731	48.980	50.128	
	SD	9.522	13.385	11.780	
	MIN,MAX	26.64,63.25	13.56,75.76	13.56,75.76	
	Q1,Q3	43.26,55.43	45.45,59.07	45.27,55.88	
	n	21	27	48	
	Nmiss	11	9	20	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry 6.13 Maternal Body mass (Edinburgh)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
BodyMass (kg) Visit 1	Mean	100.525	106.227	103.661	
	Median	97.810	105.137	102.230	
	SD	12.742	16.966	15.357	
	MIN,MAX	74.97,127.06	73.54,140.37	73.54,140.37	
	Q1,Q3	90.23,111.61	96.70,116.33	92.28,113.94	
	n	27	33	60	
	Nmiss	5	3	8	
BodyMass (kg) Visit 6	Mean	106.923	112.954	110.352	
	Median	105.156	111.208	108.272	
	SD	10.713	16.881	14.727	
	MIN,MAX	79.82,123.78	78.11,147.87	78.11,147.87	
	Q1,Q3	100.00,116.18	104.43,121.06	102.35,118.56	
	n	22	29	51	
	Nmiss	10	7	17	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

By: Aryelly Rodriguez - ECTU Statistician

Section 6. Mother Anthropometry 6.13 Maternal Body mass (Edinburgh) (Cont.)*# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
BodyMass (kg) Visit 9	Mean	102.723	107.627	105.481	
	Median	102.540	106.227	104.381	
	SD	13.705	16.223	15.217	
	MIN,MAX	72.74,126.73	73.76,146.86	72.74,146.86	
	Q1,Q3	96.36,114.25	98.65,115.30	97.22,114.78	
	n	21	27	48	
	Nmiss	11	9	20	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Mother Anthropometry

6.2.2.2.extra Maternal Weight at Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	icebo		Met	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Weight-Visit_6 - pp	111.358	0.8478	106	110.983	0.8165	93	-0.375	-1.806	1.056	0.267	0.6060

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 6.2.2.1 of this report Outcome analysed using a linear regression model, ajusted by weight_V2, BMI band and centre. Significance level set at p<0.05. Estimated mean represents the means for the Weight by allocated treatment, SE represents standard error of the estimated means and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_6_2_2_Mother_Anthropometry_weight_v6.lst'

Section 7. Baby Anthropometry - All Patients 7.1.1.1 Baby Age and Weight at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Neonatal Age (days)-V8	Mean	1.34	1.12	1.24	
	Median	1.00	1.00	1.00	
	SD	3.00	2.63	2.82	
	MIN,MAX	0.0,26.0	0.0,23.0	0.0,26.0	
	Q1,Q3	0.0,2.0	0.0,1.0	0.0,1.0	
	n	97	89	186	
	Nmiss	21	20	41	
Baby Weight* (g)-V8	Mean	3532.66	3492.74	3514.12	
	Median	3575.00	3480.00	3528.00	
	SD	602.66	578.47	590.27	
	MIN,MAX	400.0,5060.0	2110.0,4900.0	400.0,5060.0	
	Q1,Q3	3140.0,3870.0	3075.0,3880.0	3110.0,3880.0	
	n	98	85	183	
	Nmiss	20	24	44	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.2 Baby Lenght and Ponderal Index at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Length (cm)-V8	Mean	51.44	50.48	50.99
	Median	52.00	51.00	51.25
	SD	3.03	6.47	4.97
	MIN,MAX	43.0,63.5	0.0,61.0	0.0,63.5
	Q1,Q3	50.0,53.0	49.0,53.0	49.0,53.0
	n	94	84	178
	Nmiss	24	25	49
Baby ponderal index* -V8	Mean	2.64	2.63	2.64
	Median	2.54	2.60	2.57
	SD	0.42	0.46	0.43
	MIN,MAX	1.7,3.9	1.7,3.8	1.7,3.9
	Q1,Q3	2.4,2.9	2.3,2.9	2.4,2.9
	n	90	79	169
	Nmiss	28	30	58

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby weight in g))/((baby lenght in cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.3 Baby Head Circumference and Skinfold Triceps at Visit 8 (Delivery)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Head Circumfe (cm)-V8	Mean	35.32	34.88	35.11
	Median	35.00	35.00	35.00
	SD	1.78	4.54	3.38
	MIN,MAX	32.0,41.5	0.0,53.0	0.0,53.0
	Q1,Q3	34.0,36.3	34.0,36.0	34.0,36.0
	n	99	89	188
	Nmiss	19	20	39
Baby Skinfold Triceps (mm)-V8	Mean	16.26	17.29	16.76
	Median	7.00	7.00	7.00
	SD	22.04	30.05	26.14
	MIN,MAX	0.0,90.0	0.0,162.0	0.0,162.0
	Q1,Q3	5.5,11.0	5.2,10.0	5.5,10.0
	n	79	74	153
	Nmiss	39	35	74

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.4 Baby Skinfold Subscapular and fat at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Baby Skinfold Subscapular (mm)- V8	Mean	14.84	15.88	15.33	
	Median	7.00	6.50	7.00	
	SD	21.08	29.49	25.36	
	MIN,MAX	0.0,100.0	0.0,158.0	0.0,158.0	
	Q1,Q3	5.0,11.0	5.4,9.0	5.0,10.0	
	n	80	73	153	
	Nmiss	38	36	74	
BABY_FAT* (%)-V8	Mean	13.45	12.78	13.07	
	Median	13.50	12.30	12.30	
	SD	5.78	4.56	5.05	
	MIN,MAX	2.1,24.3	5.7,20.6	2.1,24.3	
	Q1,Q3	8.8,17.7	8.8,16.4	8.8,17.1	
	n	15	20	35	
	Nmiss	103	89	192	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.1.5 Baby Fat Mass and Body mass at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
BABY_FatMass* (kg)-V8	Mean	0.49107	0.44587	0.46524		
	Median	0.43600	0.43775	0.43600		
	SD	0.25963	0.19978	0.22489		
	MIN,MAX	0.0583,0.9767	0.1421,0.7902	0.0583,0.9767		
	Q1,Q3	0.2703,0.6536	0.2772,0.6041	0.2703,0.6186		
	n	15	20	35		
	Nmiss	103	89	192		
BABY_BodyMass* (kg)-V8	Mean	3.49751	3.37595	3.42805		
	Median	3.41780	3.44520	3.42610		
	SD	0.50496	0.42194	0.45630		
	MIN,MAX	2.7571,4.4472	2.5026,3.9902	2.5026,4.4472		
	Q1,Q3	3.0992,3.8997	3.0842,3.7430	3.0992,3.7448		
	n	15	20	35		
	Nmiss	103	89	192		

Section 7. Baby Anthropometry - All Patients 7.1.2.1 Baby Age and Weight at Visit 9 (Final 3 months postnatal)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Neonatal Age (days)-V9	Mean	99.95	96.84	98.40	
	Median	97.00	93.50	95.00	
	SD	11.91	13.87	12.98	
	MIN,MAX	59.0,143.0	53.0,172.0	53.0,172.0	
	Q1,Q3	92.0,105.0	91.0,101.0	92.0,103.0	
	n	91	90	181	
	Nmiss	27	19	46	
Baby Weight (g)-V9	Mean	6075.67	6108.76	6092.31	
	Median	6265.00	6111.60	6200.00	
	SD	1362.04	1664.00	1517.23	
	MIN,MAX	666.0,8727.0	524.0,12500	524.0,12500	
	Q1,Q3	5606.0,6890.0	5433.0,6900.0	5564.0,6890.0	
	n	90	91	181	
	Nmiss	28	18	46	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.2 Baby Lenght and Ponderal Index at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Baby Length (cm)-V9	Mean	68.44	61.51	64.97	
	Median	62.45	62.10	62.25	
	SD	57.33	7.15	40.88	
	MIN,MAX	42.1,605.0	5.7,74.0	5.7,605.0	
	Q1,Q3	60.1,64.5	60.7,64.0	60.4,64.0	
	n	90	90	180	
	Nmiss	28	19	47	
Baby ponderal index* -V9	Mean	2.48	39.04	20.86	
	Median	2.53	2.57	2.55	
	SD	0.62	345.79	245.20	
	MIN,MAX	0.0,3.7	0.3,3283.1	0.0,3283.1	
	Q1,Q3	2.3,2.8	2.3,2.8	2.3,2.8	
	n	89	90	179	
	Nmiss	29	19	48	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.3 Baby Head Circumference and Skinfold Triceps at Visit 9 (Final 3 months postnatal)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Baby Head Circumfe (cm)-V9	Mean	41.08	41.11	41.09	
	Median	41.00	41.50	41.00	
	SD	1.95	5.07	3.82	
	MIN,MAX	34.8,46.0	4.0,62.0	4.0,62.0	
	Q1,Q3	40.0,42.0	40.0,42.4	40.0,42.2	
	n	89	88	177	
	Nmiss	29	21	50	
BabySkinfoldTriceps (mm)-V9	Mean	23.98	25.67	24.82	
	Median	11.00	11.00	11.00	
	SD	35.62	35.98	35.70	
	MIN,MAX	0.7,160.2	0.8,170.2	0.7,170.2	
	Q1,Q3	9.0,16.0	9.0,15.2	9.0,15.2	
	n	83	83	166	
	Nmiss	35	26	61	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - All Patients 7.1.2.4 Baby Skinfold Subscapular and fat at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
BabySkinfoldSubscapular (mm)-V9	Mean	17.80	24.70	21.27
	Median	8.65	10.00	9.20
	SD	25.09	33.06	29.49
	MIN,MAX	0.5,106.0	0.7,162.0	0.5,162.0
	Q1,Q3	7.0,11.0	8.0,18.0	7.0,13.0
	n	82	83	165
	Nmiss	36	26	62
BABY_FAT* (%)-V9	Mean	25.80	23.33	24.46
	Median	25.75	23.55	23.90
	SD	5.94	5.66	5.86
	MIN,MAX	15.1,41.6	12.1,32.3	12.1,41.6
	Q1,Q3	22.2,29.0	19.6,27.8	20.6,28.8
	n	22	26	48
	Nmiss	96	83	179

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

By: Aryelly Rodriguez - ECTU Statistician

Section 7. Baby Anthropometry - All Patients 7.1.2.5 Baby Fat Mass and Body mass at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
BABY_FatMass* (kg)-V9	Mean	1.61385	1.43933	1.51932	
	Median	1.68260	1.44345	1.53335	
	SD	0.44937	0.49073	0.47544	
	MIN,MAX	0.8625,2.6138	0.6259,2.4550	0.6259,2.6138	
	Q1,Q3	1.1920,1.9387	1.0391,1.7338	1.1096,1.8044	
	n	22	26	48	
	Nmiss	96	83	179	
BABY_BodyMass* (kg)-V9	Mean	6.24116	6.07335	6.15190	
	Median	6.30410	6.11160	6.21560	
	SD	0.82294	0.92984	0.87603	
	MIN,MAX	4.8014,7.7721	4.4105,8.0110	4.4105,8.0110	
	Q1,Q3	5.6061,6.7473	5.3395,6.6500	5.5427,6.7473	
	n	22	25	47	
	Nmiss	96	84	180	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.1 Baby Age and Weight at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Neonatal Age (days)-V8	Mean	1.34	1.12	1.24		
	Median	1.00	1.00	1.00		
	SD	3.00	2.63	2.82		
	MIN,MAX	0.0,26.0	0.0,23.0	0.0,26.0		
	Q1,Q3	0.0,2.0	0.0,1.0	0.0,1.0		
	n	97	89	186		
	Nmiss	20	19	39		
Baby Weight* (g)-V8	Mean	3564.96	3492.74	3531.23		
	Median	3580.00	3480.00	3530.00		
	SD	513.52	578.47	544.49		
	MIN,MAX	2400.0,5060.0	2110.0,4900.0	2110.0,5060.0		
	Q1,Q3	3175.0,3870.0	3075.0,3880.0	3120.0,3880.0		
	n	97	85	182		
	Nmiss	20	23	43		

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.2.1 Baby Lenght and Ponderal Index at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Baby Length (cm)-V8	Mean	51.44	50.48	50.99	
	Median	52.00	51.00	51.25	
	SD	3.03	6.47	4.97	
	MIN,MAX	43.0,63.5	0.0,61.0	0.0,63.5	
	Q1,Q3	50.0,53.0	49.0,53.0	49.0,53.0	
	n	94	84	178	
	Nmiss	23	24	47	
Baby ponderal index* -V8	Mean	2.64	2.63	2.64	
	Median	2.54	2.60	2.57	
	SD	0.42	0.46	0.43	
	MIN,MAX	1.7,3.9	1.7,3.8	1.7,3.9	
	Q1,Q3	2.4,2.9	2.3,2.9	2.4,2.9	
	n	90	79	169	
	Nmiss	27	29	56	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.2.2 Ponderal index #,\$ - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo		Metf	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
baby_ponderal_alive_log - pp	0.969	0.0245	90	0.973	0.0253	79	0.004	-0.040	0.048	0.038	0.8460

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 7.2.1.2.1 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05. Estimated mean represents the mean of the log transformed variable by allocated treatment,Parameter shown normal or near-normal behavior SE represents standard error of the estimated log transformed mean and N represents number of observations *Represents the difference between the estimated log means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_7_2_2_Baby_Ponderal_delivery.lst' #Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3), \$Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.3 Baby Head Circumference and Skinfold Triceps at Visit 8 (Delivery)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Head Circumfe (cm)-V8	Mean	35.32	34.88	35.11
	Median	35.00	35.00	35.00
	SD	1.78	4.54	3.38
	MIN,MAX	32.0,41.5	0.0,53.0	0.0,53.0
	Q1,Q3	34.0,36.3	34.0,36.0	34.0,36.0
	n	99	89	188
	Nmiss	18	19	37
Baby Skinfold Triceps (mm)-V8	Mean	16.26	17.29	16.76
	Median	7.00	7.00	7.00
	SD	22.04	30.05	26.14
	MIN,MAX	0.0,90.0	0.0,162.0	0.0,162.0
	Q1,Q3	5.5,11.0	5.2,10.0	5.5,10.0
	n	79	74	153
	Nmiss	38	34	72

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.4 Baby Skinfold Subscapular and fat at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Skinfold Subscapular (mm)- V8	Mean	14.84	15.88	15.33
	Median	7.00	6.50	7.00
	SD	21.08	29.49	25.36
	MIN,MAX	0.0,100.0	0.0,158.0	0.0,158.0
	Q1,Q3	5.0,11.0	5.4,9.0	5.0,10.0
	n	80	73	153
	Nmiss	37	35	72
BABY_FAT* (%)-V8	Mean	13.45	12.78	13.07
	Median	13.50	12.30	12.30
	SD	5.78	4.56	5.05
	MIN,MAX	2.1,24.3	5.7,20.6	2.1,24.3
	Q1,Q3	8.8,17.7	8.8,16.4	8.8,17.1
	n	15	20	35
	Nmiss	102	88	190

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.1.5 Baby Fat Mass and Body mass at Visit 8 (Delivery)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
BABY_FatMass* (kg)-V8	Mean	0.49107	0.44587	0.46524
	Median	0.43600	0.43775	0.43600
	SD	0.25963	0.19978	0.22489
	MIN,MAX	0.0583,0.9767	0.1421,0.7902	0.0583,0.9767
	Q1,Q3	0.2703,0.6536	0.2772,0.6041	0.2703,0.6186
	n	15	20	35
	Nmiss	102	88	190
BABY_BodyMass* (kg)-V8	Mean	3.49751	3.37595	3.42805
	Median	3.41780	3.44520	3.42610
	SD	0.50496	0.42194	0.45630
	MIN,MAX	2.7571,4.4472	2.5026,3.9902	2.5026,4.4472
	Q1,Q3	3.0992,3.8997	3.0842,3.7430	3.0992,3.7448
	n	15	20	35
	Nmiss	102	88	190

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.1 Baby Age and Weight at Visit 9 (Final 3 months postnatal)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Neonatal Age (days)-V9	Mean	99.95	96.84	98.40
	Median	97.00	93.50	95.00
	SD	11.91	13.87	12.98
	MIN,MAX	59.0,143.0	53.0,172.0	53.0,172.0
	Q1,Q3	92.0,105.0	91.0,101.0	92.0,103.0
	n	91	90	181
	Nmiss	26	18	44
Baby Weight (g)-V9	Mean	6075.67	6108.76	6092.31
	Median	6265.00	6111.60	6200.00
	SD	1362.04	1664.00	1517.23
	MIN,MAX	666.0,8727.0	524.0,12500	524.0,12500
	Q1,Q3	5606.0,6890.0	5433.0,6900.0	5564.0,6890.0
	n	90	91	181
	Nmiss	26	16	42

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.2 Baby Lenght and Ponderal Index at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Length (cm)-V9	Mean	68.44	61.51	64.97
	Median	62.45	62.10	62.25
	SD	57.33	7.15	40.88
	MIN,MAX	42.1,605.0	5.7,74.0	5.7,605.0
	Q1,Q3	60.1,64.5	60.7,64.0	60.4,64.0
	n	90	90	180
	Nmiss	26	17	43
Baby ponderal index* -V9	Mean	2.48	39.04	20.86
	Median	2.53	2.57	2.55
	SD	0.62	345.79	245.20
	MIN,MAX	0.0,3.7	0.3,3283.1	0.0,3283.1
	Q1,Q3	2.3,2.8	2.3,2.8	2.3,2.8
	n	89	90	179
	Nmiss	27	17	44

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.3 Baby Head Circumference and Skinfold Triceps at Visit 9 (Final 3 months postnatal)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Head Circumfe (cm)-V9	Mean	41.08	41.11	41.09
	Median	41.00	41.50	41.00
	SD	1.95	5.07	3.82
	MIN,MAX	34.8,46.0	4.0,62.0	4.0,62.0
	Q1,Q3	40.0,42.0	40.0,42.4	40.0,42.2
	n	89	88	177
	Nmiss	27	19	46
BabySkinfoldTriceps (mm)-V9	Mean	23.98	25.67	24.82
	Median	11.00	11.00	11.00
	SD	35.62	35.98	35.70
	MIN,MAX	0.7,160.2	0.8,170.2	0.7,170.2
	Q1,Q3	9.0,16.0	9.0,15.2	9.0,15.2
	n	83	83	166
	Nmiss	33	24	57

By: Aryelly Rodriguez - ECTU Statistician

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.4 Baby Skinfold Subscapular and fat at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
BabySkinfoldSubscapular (mm)-V9	Mean	17.80	24.70	21.27
	Median	8.65	10.00	9.20
	SD	25.09	33.06	29.49
	MIN,MAX	0.5,106.0	0.7,162.0	0.5,162.0
	Q1,Q3	7.0,11.0	8.0,18.0	7.0,13.0
	n	82	83	165
	Nmiss	34	24	58
BABY_FAT* (%)-V9	Mean	25.80	23.33	24.46
	Median	25.75	23.55	23.90
	SD	5.94	5.66	5.86
	MIN,MAX	15.1,41.6	12.1,32.3	12.1,41.6
	Q1,Q3	22.2,29.0	19.6,27.8	20.6,28.8
	n	22	26	48
	Nmiss	94	81	175

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Baby Anthropometry - Only Alive Births 7.2.2.5 Baby Fat Mass and Body mass at Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
BABY_FatMass* (kg)-V9	Mean	1.61385	1.43933	1.51932
	Median	1.68260	1.44345	1.53335
	SD	0.44937	0.49073	0.47544
	MIN,MAX	0.8625,2.6138	0.6259,2.4550	0.6259,2.6138
	Q1,Q3	1.1920,1.9387	1.0391,1.7338	1.1096,1.8044
	n	22	26	48
	Nmiss	94	81	175
BABY_BodyMass* (kg)-V9	Mean	6.24116	6.07335	6.15190
	Median	6.30410	6.11160	6.21560
	SD	0.82294	0.92984	0.87603
	MIN,MAX	4.8014,7.7721	4.4105,8.0110	4.4105,8.0110
	Q1,Q3	5.6061,6.7473	5.3395,6.6500	5.5427,6.7473
	n	22	25	47
	Nmiss	94	82	176

Section 7. Baby Anthropometry - Only Alive Births 7.2.3 Baby Ponderal Index at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal) # Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby ponderal index* -V8	Mean	2.64	2.63	2.64
	Median	2.54	2.60	2.57
	SD	0.42	0.46	0.43
	MIN,MAX	1.7,3.9	1.7,3.8	1.7,3.9
	Q1,Q3	2.4,2.9	2.3,2.9	2.4,2.9
	n	90	79	169
	Nmiss	27	29	56
Baby ponderal index* -V9	Mean	2.48	2.59	2.54
	Median	2.53	2.56	2.54
	SD	0.62	1.05	0.86
	MIN,MAX	0.0,3.7	0.3,9.8	0.0,9.8
	Q1,Q3	2.3,2.8	2.3,2.8	2.3,2.8
	n	89	89	178
	Nmiss	27	18	45

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodrigu N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

By: Aryelly Rodriguez - ECTU Statistician

Section 7. Baby Anthropometry - Only Alive Births 7.2.4 Baby Weight at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal)# Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Weight* (g)-V8	Mean	3564.96	3492.74	3531.23
	Median	3580.00	3480.00	3530.00
	SD	513.52	578.47	544.49
	MIN,MAX	2400.0,5060.0	2110.0,4900.0	2110.0,5060.0
	Q1,Q3	3175.0,3870.0	3075.0,3880.0	3120.0,3880.0
	n	97	85	182
	Nmiss	20	23	43
Baby Weight (g)-V9	Mean	6075.67	6108.76	6092.31
	Median	6265.00	6111.60	6200.00
	SD	1362.04	1664.00	1517.23
	MIN,MAX	666.0,8727.0	524.0,12500	524.0,12500
	Q1,Q3	5606.0,6890.0	5433.0,6900.0	5564.0,6890.0
	n	90	91	181
	Nmiss	26	16	42

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *this is the recorded weight, done for a second time and it is different from the one presented in table 4.1.1.2.2.1 #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 7. Baby Anthropometry - Only Alive Births 7.2.5 Baby Lenght at Visit 8 (Delivery) and Visit 9 (Final 3 months postnatal)* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Baby Length (cm)-V8	Mean	51.44	51.09	51.28
	Median	52.00	51.00	51.50
	SD	3.03	3.31	3.16
	MIN,MAX	43.0,63.5	43.0,61.0	43.0,63.5
	Q1,Q3	50.0,53.0	49.0,53.0	49.0,53.0
	n	94	83	177
	Nmiss	23	25	48
Baby Length (cm)-V9	Mean	62.41	61.51	61.96
	Median	62.40	62.10	62.20
	SD	3.92	7.15	5.78
	MIN,MAX	42.1,73.0	5.7,74.0	5.7,74.0
	Q1,Q3	60.1,64.3	60.7,64.0	60.2,64.0
	n	89	90	179
	Nmiss	27	17	44

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.1 CRP - Visit 3 Randomisation (10-16 Weeks) and Visit 5 (28 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
CRP - V3 (mg/L)	Mean	11.41	10.04	10.75
	Median	9.05	9.00	9.00
	SD	7.94	6.30	7.21
	MIN,MAX	1.0,49.0	1.0,34.0	1.0,49.0
	Q1,Q3	5.0,15.5	5.0,14.0	5.0,15.0
	n	118	109	227
	Nmiss	0	0	0
CRP - V5 (mg/L)	Mean	10.55	9.56	10.07
	Median	8.00	7.65	8.00
	SD	7.56	6.76	7.19
	MIN,MAX	2.0,43.0	1.0,41.0	1.0,43.0
	Q1,Q3	5.0,14.0	5.0,12.0	5.0,13.0
	n	115	106	221
	Nmiss	3	3	6

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.1 CRP - Visit 6 (36 Weeks) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
CRP - V6 (mg/L)	Mean	8.91	7.48	8.23	
	Median	6.80	6.00	6.00	
	SD	6.39	4.58	5.64	
	MIN,MAX	1.0,43.3	1.4,29.0	1.0,43.3	
	Q1,Q3	5.0,12.0	5.0,9.8	5.0,10.8	
	n	104	93	197	
	Nmiss	14	16	30	

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: . N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations By: Aryelly Rodriguez - ECTU Statistician

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.1 Total Cholesterol - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Total Cholesterol - V3 (mmol/L)	Mean	4.86	4.82	4.84
	Median	5.00	4.90	4.90
	SD	1.16	1.13	1.15
	MIN,MAX	2.1,8.3	2.2,8.2	2.1,8.3
	Q1,Q3	4.0,5.7	4.1,5.5	4.0,5.6
	n	117	108	225
	Nmiss	1	1	2
Total Cholesterol - V6 (mmol/L)	Mean	6.29	6.16	6.23
	Median	6.40	6.40	6.40
	SD	1.54	1.88	1.71
	MIN,MAX	2.5,10.5	2.6,12.7	2.5,12.7
	Q1,Q3	5.6,7.2	5.1,7.3	5.2,7.2
	n	100	91	191
	Nmiss	18	18	36

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.2 HDL - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
HDL - V3 (mmol/L)	Mean	1.67	1.64	1.65
	Median	1.60	1.60	1.60
	SD	0.38	0.39	0.39
	MIN,MAX	0.9,3.6	0.0,3.2	0.0,3.6
	Q1,Q3	1.4,1.9	1.4,1.9	1.4,1.9
	n	117	108	225
	Nmiss	1	1	2
HDL - V6 (mmol/L)	Mean	1.71	1.76	1.73
	Median	1.70	1.70	1.70
	SD	0.37	0.38	0.38
	MIN,MAX	0.9,2.9	0.9,2.7	0.9,2.9
	Q1,Q3	1.4,1.9	1.5,2.0	1.5,2.0
	n	100	91	191
	Nmiss	18	18	36

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.3 LDL - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Int	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
LDL - V3 (mmol/L)	Mean	2.98	2.90	2.94
	Median	2.90	2.84	2.90
	SD	0.75	0.90	0.83
	MIN,MAX	1.6,5.1	0.0,6.0	0.0,6.0
	Q1,Q3	2.5,3.5	2.3,3.4	2.4,3.4
	n	106	101	207
	Nmiss	12	8	20
LDL - V6 (mmol/L)	Mean	3.67	3.71	3.69
	Median	3.60	3.55	3.60
	SD	1.09	1.22	1.15
	MIN,MAX	1.1,6.8	1.8,9.2	1.1,9.2
	Q1,Q3	3.0,4.4	2.8,4.4	2.9,4.4
	n	89	80	169
	Nmiss	29	29	58

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.2.4 Triglycerides - Visit 3 Randomisation (10-16 Weeks) and Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Triglycerides - V3 (mmol/L)	Mean	1.51	1.45	1.48
	Median	1.41	1.30	1.40
	SD	0.54	0.58	0.56
	MIN,MAX	0.5,3.6	0.5,3.7	0.5,3.7
	Q1,Q3	1.1,1.8	1.1,1.6	1.1,1.7
	n	117	108	225
	Nmiss	1	1	2
Triglycerides - V6 (mmol/L)	Mean	2.79	2.84	2.81
	Median	2.70	2.69	2.70
	SD	0.90	0.96	0.93
	MIN,MAX	0.9,5.8	1.3,6.7	0.9,6.7
	Q1,Q3	2.1,3.3	2.2,3.3	2.1,3.3
	n	101	92	193
	Nmiss	17	17	34

Section 8. Maternal inflammatory and metabolic variables (Secondary Outcome) 8.3 CRP, Cholesterol, HDL, LDL and Triglycerides - Visit 6 (36 Weeks) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	icebo		Metf	ormin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
CRP_log_Visit6 - pp	1.962	0.1008	104	1.858	0.0963	93	-0.104	-0.275	0.067	1.433	0.2329
Cholesterol_log_Visit6 - pp	1.794	0.0379	100	1.768	0.0360	91	-0.026	-0.091	0.038	0.645	0.4230
HDL_Visit6# - pp	1.767	0.0590	100	1.822	0.0561	91	0.055	-0.046	0.155	1.142	0.2866
LDL_log_Visit6\$ - pp	1.208	0.0560	89	1.221	0.0527	80	0.013	-0.081	0.107	0.079	0.7793
Triglycerides_log_Visit6 - pp	0.947	0.0525	101	0.977	0.0500	92	0.030	-0.059	0.120	0.441	0.5073

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By: Aryelly Rodriguez - ECTU Statistician

Summary statistics are presented in tables 8.1 to 8.2 of this report

Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05

Estimated mean represents the adjusted mean of the non-transformed or log transformed variable by allocated treatment,

SE represents standard error of the estimated means or log transformed means and N represents number of observations

*Represents the difference between the estimated means or log transformed means and CI Represents the 95% confidence interval

Calculations and detailed analysis are presented in study file 'Empowar 5 4 other labs analysis v6.lst'

#NOTE:HDL was not log transformed for the analysis

\$NOTE:LDL has a value of 0 for patient 16052, this values was set to missing in the log transformation of the parameter

All parameters shown normal or near-normal behavior

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.1 Glucose and Insuling in the umbilical cord - Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_l	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Glucose Cord - V8 (mmol/L)	Mean	3.94	4.02	3.97
	Median	3.65	3.80	3.80
	SD	1.25	1.05	1.16
	MIN,MAX	1.9,7.6	1.6,6.3	1.6,7.6
	Q1,Q3	3.0,4.6	3.1,4.9	3.1,4.8
	n	62	54	116
	Nmiss	56	55	111
Insulin Cord - V8 (mIU/mI)	Mean	11.14	12.04	11.63
	Median	9.91	10.57	10.03
	SD	7.48	9.21	8.44
	MIN,MAX	2.0,32.7	2.0,42.9	2.0,42.9
	Q1,Q3	6.4,14.3	5.2,17.0	5.5,16.3
	n	37	45	82
	Nmiss	81	64	145

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.2 HOMA-IR AND CRP in the umbilical cord - Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
HOMA-IR Cord - V8 (mIU/mI)	Mean	1.83	1.93	1.88
	Median	1.81	1.50	1.62
	SD	1.36	2.19	1.80
	MIN,MAX	0.3,6.7	0.2,12.0	0.2,12.0
	Q1,Q3	0.8,2.3	0.6,2.7	0.6,2.4
	n	32	30	62
	Nmiss	86	79	165
CRP - V8 (mmol/L)	Mean	4.85	2.15	3.60
	Median	1.00	1.00	1.00
	SD	21.89	1.82	16.11
	MIN,MAX	0.3,173.8	0.2,5.0	0.2,173.8
	Q1,Q3	1.0,5.0	1.0,5.0	1.0,5.0
	n	62	53	115
	Nmiss	56	56	112

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.3 Glucose, Insuling and HOMA-IR in the umbilical cord - Visit 8 (Delivery) - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

	Pla	cebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
Glucose_cord_log_Visit_8* - pp	1.262	0.0592	62	1.322	0.0552	54	0.060	-0.046	0.166	1.269	0.2626
Insulin_cord_log_Visit_8* - pp	2.042	0.1885	37	2.170	0.1705	45	0.129	-0.217	0.475	0.551	0.4602
HOMA_cord_log_Visit_8* - pp	0.151	0.1999	32	0.215	0.1823	30	0.064	-0.328	0.457	0.108	0.7436

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in tables 9.1 to 9.2 of this report Outcome analysed using a linear regression model, ajusted by BMI band and centre. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between the estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_9_1_Neonatal_cord_blood.lst' All parameters shown normal or near-normal behavior

Section 9. Neonatal cord blood and placenta (Secondary Outcome) 9.4 CRP in the umbilical cord - Visit 8 (Delivery)* - Statistical Analysis - POST-HOC Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Parameter(s)	Studied effects	P-value Wilcoxon Test (Two-sided)	P-value Wilcoxon t Approx (Two-sided)	P-value Kruskal-Wallis Test
CRP_CORD_VISIT_8_pp	Non_parametric_test_metformin_vs_placebo*	0.7987	0.7992	0.7987

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 Summary statistics are presented in table 9.2 of this report *This variable was non-normal and the lack of normality could not be corrected. Therefore Non-parametric testing results are presented. Significance level set at p<0.05 Calculations and detailed analysis are presented in study file 'Empowar_9_1_Neonatal_cord_blood.lst'

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227		
Any SAE (n)#	Yes	22 (18.6)	19 (17.4)	41 (18.1)		
	No	96 (81.4)	90 (82.6)	186 (81.9)		
Any Hypertension (n)	Yes	11 (9.3)	11 (10.1)	22 (9.7)		
	No	107 (90.7)	98 (89.9)	205 (90.3)		
Any Preeclampsia (n)	Yes	3 (2.5)	3 (2.8)	6 (2.6)		
	No	115 (97.5)	106 (97.2)	221 (97.4)		
Any Eclampsia (n)	Yes	0	1 (0.9)	1 (0.4)		
	No	118 (100)	108 (99.1)	226 (99.6)		
Any MembraneRupture (n)	Yes	0	2 (1.8)	2 (0.9)		
	No	118 (100)	107 (98.2)	225 (99.1)		

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 By: Aryelly Rodriguez - EC

 N = number of patients randomised, n = number of observations
 #This value comes from the 'CRF - Complications' and it is different from the value presented in 13.1.1.1 that comes from 'SAE form'

By: Aryelly Rodriguez - ECTU Statistician

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any PretermLabour (n)#	Yes	2 (1.7)	6 (5.5)	8 (3.5)
	No	116 (98.3)	103 (94.5)	219 (96.5)
Any Haemorrhage (n)	Yes	4 (3.4)	4 (3.7)	8 (3.5)
	No	114 (96.6)	105 (96.3)	219 (96.5)
Any DVT (n)	Yes	2(1.7)	0	2 (0.9)
	No	116 (98.3)	109 (100)	225 (99.1)
Any Gestational Diabetes (n)	Yes	19 (16.1)	14 (12.8)	33 (14.5)
	No	99 (83.9)	95 (87.2)	194 (85.5)

Section 10. Adverse Outcome

10.1.1 Maternal Complications - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Other Mother Complication (n)	Yes	37 (31.4)	44 (40.4)	81 (35.7)
	No	81 (68.6)	65 (59.6)	146 (64.3)
Any Other Mother Complication cat* (n)	Missing	0	1	1
	Infection	10	12	22
	Mood disturbance	1	4	5
	Musculoskeletal	8	14	22
	PV bleed <24 weeks gestation	3	3	6
	Obstetric cholestasis	4	1	5
	Miscellaneous	13	18	31
	Data captured elsewhere	28	24	52
	Data captured elsewhere	28		24

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication The complications were categorised by the study team By: Aryelly Rodriguez - ECTU Statistician

Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
11136	METFORMIN	Yes	VISIT 8 (DELIVERY)	placental abruption
11315	METFORMIN	Yes	VISIT 8 (DELIVERY)	3rd degree tear
11325	METFORMIN	Yes	VISIT 5 (28 WEEKS)	antenatal depression
11501	METFORMIN	Yes	VISIT 6 (36 WEEKS)	hospital admission with RUQ pain and deranged LFT, resolved spontaneously
11551	METFORMIN	Yes	VISIT 5 (28 WEEKS)	exacerbation of asthma requiring onal staroids
11716	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Mild SPD
11748	METFORMIN	Yes	VISIT 6 (36 WEEKS)	un
11748	METFORMIN	Yes	VISIT 7 (TERM)	Sepsis secondary to mastlis
11748	METFORMIN	Yes	VISIT 8 (DELIVERY)	UTI SAE forms previously sent
11797	METFORMIN	Yes	VISIT 6 (36 WEEKS)	excessive vomiting in late pregnancy
11842	METFORMIN	Yes	VISIT 8 (DELIVERY)	Raised ALT
11881	METFORMIN	Yes	VISIT 8 (DELIVERY)	severa urosepis
12001	METFORMIN	Yes	VISIT 7 (TERM)	Sweling of hands and feet
12001	METFORMIN	Yes	VISIT 8 (DELIVERY)	oedema
12008	METFORMIN	Yes	VISIT 8 (DELIVERY)	Peet Partum haemorthage, 2000ml
12018	METFORMIN	Yes	VISIT 8 (DELIVERY)	EBL 600 mls
13016	METFORMIN	Yes	VISIT 7 (TERM)	Seen in assessment room last week with headache and visual disturbances. Migrane diagnosed. Discharged home with paracetamol and codine.
13082	METFORMIN	Yes	VISIT 8 (DELIVERY)	PYREXIA IN LABOUR
13209	METFORMIN	Yes	VISIT 6 (36 WEEKS)	HAD VIRAL INFECTION 2 WEEKS AGO LASTING A FORTNIGHT. RESULTED IN PRODUCTIVE COUGH, FOLLOWED MODERATE VOMITTING AND DIARROHEA.
13378	METFORMIN	Yes	VISIT 5 (28 WEEKS)	UTI CAUSED SEVERE HEADACHES. CLEARED AFTER COURSE OF ANTIBIOTICS.
13378	METFORMIN	Yes	VISIT 8 (DELIVERY)	Fatty deposits noted on placenta, samples taken for histology by delivery midwlfe, but enable to process as incorrectly sampled and stored
13551	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH of 5000ml followed by total hysterectomy
13780	METFORMIN	Yes	VISIT 8 (DELIVERY)	UNDIAGNOSED LOW LYING PLACENTA AT CS. BLOOD LOSS 1400MLS. NEEDED BLOOD TRANSFUSION AFTER CS.
14303	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH 1200mis
14417	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Feeling faint on occasions when working
15012	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	has had small pv bleed as history of cervical polyps all well
15027	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Itching All blood tests NAD
16054	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Abdo pain and pinkish pv loss
16121	METFORMIN	Yes	VISIT 6 (36 WEEKS)	pyelonghritis
17138	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Palpitations, seen in hospital assessment unit but discharged home without admission. Normal ECG and Normal CTG.
21015	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Attanded Day Unit 4/9/13.33+4 with brown pv discharge post coital.
21015	METFORMIN	Yes	VISIT 7 (TERM)	Questions asked in retrospect once delivered as unable to contact.Unsure when stopped tablets.
21015	METFORMIN	Yes	VISIT 8 (DELIVERY)	PPH following birth.Hb 63gli.Had 2 units of blood.Hb 63gli post transfusion.Didnt cause prolonged hospitalisation.
21034	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Indigestion since 22 weeks resolved with use of gaviscon
21034	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Acupuncture for back/hip pain. Broke coccyx 5 years ago

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By: Aryelly Rodriguez - ECTU Statistician

Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
21037	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Swasting
21037	METFORMIN	Yes	VISIT 7 (TERM)	Green vaginal discharge today High vaginal swab obtained.
21039	METFORMIN	Yes	VISIT 8 (DELIVERY)	Matemal tachycardia post delivery. IV fluids & antibiotics given. Ragged membranes.
21042	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Hearburn. Using gaviscon. Awaiting preciption of rantidine
21042	METFORMIN	Yes	VISIT 5 (28 WEEKS)	0709/2013 self referral to maty ward feeling dizzy. 21/09/2013 ?SROM HVS showed Group B Strep. On last day of Amoxycillin treatment today. Gestational diabetes today. Attending for glucometer tomorrow
21042	METFORMIN	Yes	VISIT 7 (TERM)	Group B Step diagnosed in pregnancy.
21042	METFORMIN	Yes	VISIT 8 (DELIVERY)	Induction of labour for gestational diabetes. Group B Strep identified in pregnancy.
21064	METFORMIN	Yes	VISIT 5 (28 WEEKS)	UTI 21/10/13 cephalexin tds for 5 days taken.
21064	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Right sided abdo pain on 2 occasions 15 & 22/11/13 been fine since.
21064	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD
21070	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Lower backache has appt with physio on 8/10/13
21070	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Symphilais Publis Disfunction-physio input
21070	METFORMIN	Yes	VISIT 6 (36 WEEKS)	SPD
21070	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD-S/B Physio & had acupuncture.
21074	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Backache 16+ weeks saw GP & resolved a few days later
21074	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Wort on linger.
21074	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Itching on legs, had same prior to pregnancy. Wort on finger.
21074	METFORMIN	Yes	VISIT 7 (TERM)	0302/14 headache for 24 hours.Started on antibiotics as ?UTI. Normal MSSU so stapped taking. Only took 1 tablet.
21074	METFORMIN	Yes	VISIT 8 (DELIVERY)	26/2/14 perineal infection fluctoycillin commenced orally at home.
21082	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	20/10/13 attended primary care/gynae feeling unwell ?Bood poisoning/papatations normal investigations. Some low mood/depression.
21082	METFORMIN	Yes	VISIT 6 (36 WEEKS)	3/1/14 29+4 episode of raised BP settled. 30/1/14 33+3 antibiotics for UTI.
21082	METFORMIN	Yes	VISIT 7 (TERM)	Some hypertension-settled now.
21082	METFORMIN	Yes	VISIT 8 (DELIVERY)	Pyrexial in labour/maternal tachycardia. IV paracetamol required.
21095	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Started citalopram for depression on 04/11/13.
21095	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Lower back disconflort sees physio.
21095	METFORMIN	Yes	VISIT 8 (DELIVERY)	On eltalopram for depression
21099	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Tooth abcess so had to reduce tablets one day.
21099	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Eleveated BP today for close monitoring. Occasionally takes Co-dydramoti for backache. Physiolacupuncture unsucessful.
21099	METFORMIN	Yes	VISIT 8 (DELIVERY)	Raised blood pressure
21111	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Small pv bled 08/12/13 19+ weeks. Investigations NAD. Not admitted to Gynae.
21111	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Upper abdominal disconfort for 4-5 weeks on and off.
21111	METFORMIN	Yes	VISIT 7 (TERM)	Amaxycillin 500mgs TDS for suspected chest infection.
21127	METFORMIN	Yes	VISIT 5 (28 WEEKS)	SPD on crutches seeing physio.
21127	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Seeing physic & having acupuncture for hip pain.
21127	METFORMIN	Yes	VISIT 8 (DELIVERY)	SPD/Hip pain. Has seen physio/had cn/dches/acupuncture.

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Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Other Maternal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
21128	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Backache & sciatica
21128	METFORMIN	Yes	VISIT 8 (DELIVERY)	Poslpartum haemonhage.
25264	METFORMIN	Yes	VISIT 5 (28 WEEKS)	obstetric cholestasis
25382	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	dianhoea
25459	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Right Adrexal ovarian cyst
25459	METFORMIN	Yes	VISIT 8 (DELIVERY)	Induction of labour due to pain from known ovarian cyst
53059	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Had contact with nephew with chicken pox and does not have immunity. Therefore had to attend for immunoglobulin
11081	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	on going hyperemesis requiring antiemetic (predates trial)
11323	PLACEBO	Yes	VISIT 8 (DELIVERY)	3rd degree tear (3a)
11443	PLACEBO	Yes	VISIT 6 (36 WEEKS)	ilch-possible obstetric cholestasis
11693	PLACEBO	Yes	VISIT 8 (DELIVERY)	Obstetric cholestasis
11725	PLACEBO	Yes	VISIT 7 (TERM)	SPD
11940	PLACEBO	Yes	VISIT 6 (36 WEEKS)	currently on prednisolone for chest infection
11940	PLACEBO	Yes	VISIT 8 (DELIVERY)	Hospitalised due to chest Infection.
12019	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Thush
12020	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	EarInfecton/vetigo
12020	PLACEBO	Yes	VISIT 5 (28 WEEKS)	verligo
12020	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH 1500 - 2500 mls
12021	PLACEBO	Yes	VISIT 5 (28 WEEKS)	25/04/2012 In triage for UTI. Sent home with trimetheprim.
12065	PLACEBO	Yes	VISIT 8 (DELIVERY)	Diet controlled GDM
13007	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Was weepy when increased dose to 4 tablets at week 4. Therefore has decreased to 2 tablets daily. Not having weepiness any longer, suggested trying to increase to TDS, - will try, but not willing to increase dose further. 4/3/11
13058	PLACEBO	Yes	VISIT 6 (36 WEEKS)	vomiting and feeling very unwell migraines increasingly worse
13144	PLACEBO	Yes	VISIT 5 (28 WEEKS)	SYMPHISIS PUBIS DISORDER
13144	PLACEBO	Yes	VISIT 7 (TERM)	Has had fainting episodes for past 6 weeks. Now has IOL booked for 38wks due to this. Reports has had several addmissions with raised blood pressure and protien urea.
13144	PLACEBO	Yes	VISIT 8 (DELIVERY)	Reported frequent fainting episodes. not investigated, occassional episodes of raised BP, BP profile NAD. IOL on request in view of repeaded fainting.
13217	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Hip pain due to looseness in joint. Under physio. Not on medication.
13217	PLACEBO	Yes	VISIT 8 (DELIVERY)	PPH, HAD 0XYTOCIC DRUGS
13301	PLACEBO	Yes	VISIT 5 (28 WEEKS)	HAD COLLAPSE WHEN OUT SHOPPING. ADVISED TO STOP MEDICATION AS GLUCOSE LEVEL WAS REPORTED TO BE LOW WHEN CHECKED AT GP.
13301	PLACEBO	Yes	VISIT 8 (DELIVERY)	Intrapartum haenmorhage and posthatal haemorrhage total = 2000ml
13591	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Fell on the bus when it stopped suddenly. Had small pv bleed, attended hospital for anti d, but was not admitted and not for any follow up. As reports fall was due to bus stopping suddenly and no episodes of dizziness or feeling faint not an SAE.
13667	PLACEBO	Yes	VISIT 8 (DELIVERY)	IOL FOR SPD PPH 1200ML
13712	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Obstatric Choleostasis
13712	PLACEBO	Yes	VISIT 8 (DELIVERY)	choleostasis
14205	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Double vision. Currently under investigation by eye clinic.
14336	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Seen by SHO in Triage 13.09.13 re abdominal pain. Now resolved ?viral ententits

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Section 10. Adverse Outcome

10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Other Matemal		
Subject Number	Allocated Treatment	Complications (Y/N)	TimepointID	Other Maternal Complications Details
14336	PLACEBO	Yes	VISIT 8 (DELIVERY)	see SAE
14354	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Ovarian cyst on right ovary diagnosed
14354	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted with small APH and tightenings for 5 days - SAE completed 22.12.13
14413	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Abdominal pain 03.10.13 Seen in Early Pregnancy Assessment Centre
15010	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	metallic taste
15010	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Has some itching bile acids nad
17036	PLACEBO	Yes	VISIT 7 (TERM)	hospital admission as had flu
17036	PLACEBO	Yes	VISIT 8 (DELIVERY)	raised ALT liver scan
17137	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Costochondhlis
17137	PLACEBO	Yes	VISIT 8 (DELIVERY)	Costochondhlis
21010	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Persistant glycosuria between 28+ and 35+ weeks gestation. Normal GTTs.
21018	PLACEBO	Yes	VISIT 5 (28 WEEKS)	pv bleed before 16 weeks gestation, prior to commencing lablets. Hospitalised for observation discharged within 12 hours.
21018	PLACEBO	Yes	VISIT 6 (36 WEEKS)	49/13 32+6 shortness of breath/papitations. Investigations normal.
21018	PLACEBO	Yes	VISIT 7 (TERM)	Various episodes of reduced fetal movements see on MDCU had CTGs. Ho palpatations normal investigations.
21018	PLACEBO	Yes	VISIT 8 (DELIVERY)	Difficult caesarean section.
21038	PLACEBO	Yes	VISIT 8 (DELIVERY)	Readmitted via ambulance 29/12/13 pv bleedlabdo pain. Stayed in hospital for less than 12 hours. No SAE required.
21044	PLACEBO	Yes	VISIT 6 (36 WEEKS)	pyogenic granuloma on finger of left hand.Had x2 doses of fluctoxycillin.UTI cephalexin for 1 week.
21047	PLACEBO	Yes	VISIT 5 (28 WEEKS)	20+4 (3-4/9/13) brief episode in A&E pain from gall stones settled after morphine discharged home after few hours.
21069	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Antibiotics for 1 week for ear infection 05/09/13
21069	PLACEBO	Yes	VISIT 5 (28 WEEKS)	UTI treated with cefalexin.
21069	PLACEBO	Yes	VISIT 8 (DELIVERY)	Sepsis in labour SAE form completed as prolonged hospitalisation.
21078	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Hb low for onal iron
21078	PLACEBO	Yes	VISIT 6 (36 WEEKS)	16/1/14 episode of reduced fetal movements. CTG NAD.
21078	PLACEBO	Yes	VISIT 7 (TERM)	On ferrous sulphate tablets as anaemic since last visit.
21093	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Small antepartum haemorrhage. Overnight stay on matemity ward for over 12 hours.
21093	PLACEBO	Yes	VISIT 6 (36 WEEKS)	28/12/13 sight pv bleeding no admission. 24/1/14 Antibiotics for bacterial vaginosis & canestan for thrush. 3/2/14 brief isolated episode of raised BP settled on day unit no admission.
21093	PLACEBO	Yes	VISIT 8 (DELIVERY)	Raised BP in labour
21109	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Heartburn: Day Unit Visit 16/12/13 abdo pain.
21109	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Admitted over 12 hours with UTI. Onal antibiotics/steroids/femous subpate.SAE form completed & faxed to Sponsors.
21109	PLACEBO	Yes	VISIT 7 (TERM)	Admitted for 2 nights on 03/4/14 with lower abdo discomfort, braxton hicks, red pv loss, unstable lie.
21109	PLACEBO	Yes	VISIT 8 (DELIVERY)	Admitted with lower abdo discomfort, red pv loss, Braxton Hicks,unstable ile 034/14
21122	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Prolonged nausea.
21122	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Prolonged nausea
21122	PLACEBO	Yes	VISIT 7 (TERM)	Musculoskeletal pain/SPD. Group B Strep positive.
21122	PLACEBO	Yes	VISIT 8 (DELIVERY)	SPD/musculoskeletal pain. Group B Strep positive.

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Section 10. Adverse Outcome 10.1.2 Maternal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Other Maternal Complications (Y/N)	TimepointID	Other Maternal Complications Details
25391	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	brownigneen pv loss on 2.11.13, pv spotting on 12.11.13. HVS group B streptococcus.
25391	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Abdominal pain 7cause
25391	PLACEBO	Yes	VISIT 7 (TERM)	depression and musculoskaletal pain
53014	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	has had persistant cough since sept. Has seen own doctor (GP, had course of antibiotics. Also seen at general hospital advised re inhalers and improved with this (as is asthmatic)

Section 10. Adverse Outcome

10.1.3.1 Maternal Complications - Hypertension - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

requency	Table of A	ANY_HYPER by	AllocatedTre	eatment					
			Freatment(Alle Treatment)	ocated					
	ANY_HYPER	METFORMIN	PLACEBO	Tota	al				
	No	98	107	20	5				
	Yes	11	11	2	2				
	Total	109	118	22	7				
Parameter	(s)	Studi			Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
NY HYPER	R pp Allocated	Treatment METF	ORMIN vs P	LACEBO	1.092	0.453	2.631	0.8448	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is ANY_hyper='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_10_1_1_Npatients_hypertension_analysis.lst'

Section 10. Adverse Outcome

10.1.3.2 Maternal Complications - Preeclampsia - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

requency	Table of J	ANY_Preecla by	AllocatedTre	atment					
			Freatment(Allo Treatment)	cated					
	ANY_Preecla	METFORMIN	PLACEBO	Tota	1				
	No	106	115	221	_				
	Yes	3	3	6	6				
	Total	109	118	227	, 				
		Studi	ed		Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Parameter	(s)	effec	ts		Estimate	Ratio	Ratio	P-value#	P-value#
NY Preecla	a pp Allocated	Treatment METF	ORMIN vs PL	ACEBO	1.085	0.214	5.493	0.9216	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is ANY_preecla='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 10 1 1 Npatients preeclamp analysis.lst'

Section 10. Adverse Outcome

10.2.1 Fetal Complications* - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In		
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Fetal Complication (n)	Yes	28 (23.7)	26 (23.9)	54 (23.8)
	No	90 (76.3)	83 (76.1)	173 (76.2)
Fetal AC (n)	Missing	118	109	227
Fetal Liquor (n)	Missing	77	76	153
	Yes	2	3	5
	No	39	30	69
Fetal Doppler (n)	Missing	77	77	154
	No	41	32	73
Fetal Absent EDF (n)	Missing	78	77	155
	Yes	1	0	1
	No	39	32	71

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication

Section 10. Adverse Outcome

10.2.1 Fetal Complications* - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery)(Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Fetal Reverse EDF (n)	Missing	78	77	155
	No	40	32	72
Fetal Abnormal CTG (n)	Missing	77	77	154
	Yes	8	8	16
	No	33	24	57
Other Fetal Complication (n)	Missing	70	69	139
	Yes	21	21	42
	No	27	19	46
Other Fetal Complication cat#(n)	Data captured elsewhere	12	10	22
	Meconium stained liquor	3	4	7
	Miscellanous	1	1	2
	Polyhydramnios	3	3	6
	Reduced fetal movements	3	7	10
	Shoulder dystocia	2	0	2

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations *A single patient could have had more than one complication #The complications were categorised by the study team

Section 10. Adverse Outcome 10.2.2 Fetal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Fetal Complications Other (Y/N)	TimepointID	Fetal Complications Other Details
11557	METFORMIN	Yes	VISIT 8 (DELIVERY)	reduced fetal movements and clinically felt to be small for dates although growth scan normal
12001	METFORMIN	Yes	VISIT 8 (DELIVERY)	macrosomia
12018	METFORMIN	Yes	VISIT 6 (36 WEEKS)	scan at 36 weeks shows abdominal circumstance static, attending further scan in one week
12034	METFORMIN	Yes	VISIT 8 (DELIVERY)	Premature delivery.
13551	METFORMIN	Yes	VISIT 8 (DELIVERY)	Low Cord Ph's on FBS
14303	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Polyhydramnios
15003	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Breech presentation
16064	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Reduced fetal movements x 2 days
16121	METFORMIN	Yes	VISIT 7 (TERM)	Persistent reduced fetal movements
16121	METFORMIN	Yes	VISIT 8 (DELIVERY)	Persistent reduced fetal movements
16133	METFORMIN	Yes	VISIT 7 (TERM)	polyhydramnios
16133	METFORMIN	Yes	VISIT 8 (DELIVERY)	polyhydramnios
17047	METFORMIN	Yes	VISIT 8 (DELIVERY)	Meconium liquor
21042	METFORMIN	Yes	VISIT 6 (36 WEEKS)	Episodes of reduced fetal movements.
21070	METFORMIN	Yes	VISIT 8 (DELIVERY)	Thick meconium liquor on SROM.
21074	METFORMIN	Yes	VISIT 6 (36 WEEKS)	x1 episode of no fetal movements 25/11/13 28+5. Normal CTG.
21074	METFORMIN	Yes	VISIT 7 (TERM)	Reduced fetal movements 03/02/14. Normal scan.
21082	METFORMIN	Yes	VISIT 5 (28 WEEKS)	Growth below lower centile.
21082	METFORMIN	Yes	VISIT 8 (DELIVERY)	Thick meconium liquor. Fetal tachycardia in labour.
21095	METFORMIN	Yes	VISIT 8 (DELIVERY)	Meconium liquor
21127	METFORMIN	Yes	VISIT 8 (DELIVERY)	Growth on 10th centile.
21128	METFORMIN	Yes	VISIT 8 (DELIVERY)	IUGR. Growth on lower centile. Double knot in cord.
25226	METFORMIN	Yes	VISIT 8 (DELIVERY)	Baby had IVABX as prev NND for Group B Strep and EColi.
25459	METFORMIN	Yes	VISIT 4 (18 TO 20 WEEKS)	Anomoly scan show right unilateral talipes
53059	METFORMIN	Yes	VISIT 6 (36 WEEKS)	HAD 2X GROWTH USS FOR ?IUGR. SECOND USS SHOWED NORMAL GROWTH.
11386	PLACEBO	Yes	VISIT 8 (DELIVERY)	shoulder dystocia, relieved with McRoberts and suprapubic pressure, Apgars 8 and 9
11564	PLACEBO	Yes	VISIT 8 (DELIVERY)	baby required resuscitation at delivery
11632	PLACEBO	Yes	VISIT 8 (DELIVERY)	Suspected IUGR
12020	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Reduced fetal movements
12021	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Polyhydramnios
12021	PLACEBO	Yes	VISIT 6 (36 WEEKS)	poryhydramnios detected on scan at 28+4 weeks. Large for getational age detected at 34+2 weeks.
13301	PLACEBO	Yes	VISIT 8 (DELIVERY)	Undiagnosed oblique breech lie, intrapartum haemorrhage
13473	PLACEBO	Yes	VISIT 8 (DELIVERY)	Baby admitted to NICU for low BM's for 24 hours. No IV fluids required, baby tube fed only. Lowest BM 1.7mmol. Now maintaining BM's and back on postnatal ward with mum
13591	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Raised growth on USS, at 32/40 and 35/40 measuments >95th centile. EFW at 35/40 3456g
13591	PLACEBO	Yes	VISIT 8 (DELIVERY)	Suspected fetal macrosomia
14264	PLACEBO	Yes	VISIT 8 (DELIVERY)	Intermittently absent EDF

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations

Section 10. Adverse Outcome 10.2.2 Fetal Complications Details - from Visit 4 (18-20 Weeks) to Visit 8 (Delivery) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	Fetal Complications Other (Y/N)	TimepointID	Fetal Complications Other Details
15010	PLACEBO	Yes	VISIT 5 (28 WEEKS)	one episode of reduced fetal movements ctg monitoring normal
16053	PLACEBO	Yes	VISIT 8 (DELIVERY)	shoulder dystocia
18114	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Measuring Large for Dates. Head circumference and abdominal circumference above 95th centile.
21018	PLACEBO	Yes	VISIT 6 (36 WEEKS)	Polyhydramnious on uss 8/8/13 (29 weeks) & 21/8/13 (30+6 weeks) has since resolved. Reduced fetal movements had monitoring on x4 occasions & again today.
21038	PLACEBO	Yes	VISIT 5 (28 WEEKS)	Growth on lower centile today. Normal doppler
21069	PLACEBO	Yes	VISIT 8 (DELIVERY)	Thick meconium stained liquor during labour.
21093	PLACEBO	Yes	VISIT 6 (36 WEEKS)	27/1/14 growth on lower centile. 03/2/14 mild polyhyrdamnicus. 10/2/14 normal growth & liquor volume.
21093	PLACEBO	Yes	VISIT 8 (DELIVERY)	Light, thin meconium liquor
21109	PLACEBO	Yes	VISIT 6 (36 WEEKS)	21/02/2014 uss normal growth. Liquor volume just above upper centile.
21119	PLACEBO	Yes	VISIT 4 (18 TO 20 WEEKS)	Fetal abnormality on anomaly ultrasound scan.
25034	PLACEBO	Yes	VISIT 8 (DELIVERY)	meconium stained liquor
25320	PLACEBO	Yes	VISIT 8 (DELIVERY)	baby's scan on the 30/1/2014 continued to show baby had a full stomach. suspected Hirschsprungs disease in neonate.
25364	PLACEBO	Yes	VISIT 7 (TERM)	Large for dates on scan

Section 11. Neonatal Care - All Patients 11.1 Neonatal Care Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Care after delivery (n(%))	Missing	1	1	2
	Normal Care	100 (85.5)	98 (90.7)	198 (88.0)
	Special Care	6 (5.1)	4 (3.7)	10 (4.4)
	Level 2 intensive care (ie high dependency intensive care)	6 (5.1)	3 (2.8)	9 (4.0)
	Level 1 intensive care (maximal intensive care)	1 (0.9)	1 (0.9)	2 (0.9)
	Other	4 (3.4)	2 (1.9)	6 (2.7)
Any Congenital Abnormality (n(%))	Missing	2	2	4
	Yes	5 (4.3)	4 (3.7)	9 (4.0)
	No	111 (95.7)	103 (96.3)	214 (96.0)
Other Hospital Admission (n(%))	Missing	9	7	16
	Yes	2 (1.8)	1 (1.0)	3 (1.4)
	No	107 (98.2)	101 (99.0)	208 (98.6)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 11. Neonatal Care - Only Alive Births 11.2.1 Neonatal Care Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Care after delivery (n(%))	Missing	1	0	1
	Normal Care	100 (86.2)	98 (90.7)	198 (88.4)
	Special Care	6 (5.2)	4 (3.7)	10 (4.5)
	Level 2 intensive care (ie high dependency intensive care)	6 (5.2)	3 (2.8)	9(4.0)
	Level 1 intensive care (maximal intensive care)	1 (0.9)	1 (0.9)	2 (0.9)
	Other	3 (2.6)	2 (1.9)	5 (2.2)
Any Congenital Abnormality (n(%))	Missing	2	1	3
	Yes	4 (3.5)	4 (3.7)	8 (3.6)
	No	111 (96.5)	103 (96.3)	214 (96.4)
Other Hospital Admission (n(%))	Missing	9	6	15
	Yes	2 (1.9)	1 (1.0)	3 (1.4)
	No	106 (98.1)	101 (99.0)	207 (98.6)

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 By: Aryelly Rodriguez - ECTU Statistician N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 11. Neonatal Care - Only Alive Births 11.2.2 Neonatal care after delivery - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table o	f Care_Deliv by	AllocatedTre	eatment	_				
			reatment(Allo Treatment)	ocated					
	Care_Deliv	METFORMIN	PLACEBO	Tota	1				
	Missing	0	1						
	No	100	103	203	3				
	Yes	8	13	2	1				
	Total	108	116	224	1				
		Frequency M	lissing = 1		_				
		Stud	ind		Odds Ratio	Lower 95% Confidence Limit for Odds	Upper 95% Confidence Limit for Odds		Fisher exact
Parameter(s	Parameter(s) effects		Estimate	Ratio	Ratio	P-value#	P-value#		
Care_Deliv_	pp Allocated	Treatment METF	ORMIN vs P	LACEBO	0.634	0.252	1.595	0.3329	0.3667

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Care_Deliv='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar_11_2_Neonatal_unit.lst'

Section 11. Neonatal Care - Only Alive Births 11.2.3 Any Congenital Abnormality - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of	of Abnormal by	Table of Abnormal by AllocatedTreatment									
			reatment(All Treatment)	ocated								
	Abnormal	METFORMIN	PLACEBO	Total								
	Missing	1	2	-								
	No	103	111	214								
	Yes	4	4	8	;							
	Total	107	115	222								
		Frequency N	lissing = 3		_							
					Odds	Lower 95% Confidence Limit	Upper 95% Confidence Limit		Fisher			
Parameter(s)		Studi effec			Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#			
Abnormal_pp	AllocatedT	reatment METF	ORMIN vs P	LACEBO	1.078	0.263	4.421	0.9173	1.0000			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Abnormal='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 11 2 Neonatal unit.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.1.1 Taste Disturbance - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Any Taste Disturbance (n(%))	Yes	20 (16.9)	17 (15.6)	37 (16.3)			
	No	98 (83.1)	92 (84.4)	190 (83.7)			
Taste Disturbance severity (n)	Mild	11	10	21			
	Moderate	9	3	12			
	Severe	0	4	4			

Section 12. Maternal symptoms up to 36 weeks gestation 12.1.2 Taste Disturbance - Statistical analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Tas	teDis_ana by Al						
	TasteDis_ana(Taste disturbance at least once from visit 4 to		Treatment(Allo Treatment)	ocated				
	visit 7 (Y/N))	METFORMIN	PLACEBO	Tot	al			
	Yes	17	20	3	37			
	No	92	98	19	90			
	Total	109	118	22	27			
					Lower 95% Confidence	Upper 95% Confidence		
		o		Odds	Limit	Limit		Fisher
Parameter(s)		Studied effects		Ratio Estimate	for Odds Ratio	for Odds Ratio	P-value#	exact P-value#
tastedis_pp	AllocatedTreatment	METFORMIN vs	PLACEBO	0.905	0.447	1.835	0.7828	0.8581

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is TasteDis_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.2.1 Skin Reaction - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Any Skin Reaction (n(%))	Yes	23 (19.5)	21 (19.3)	44 (19.4)			
	No	95 (80.5)	88 (80.7)	183 (80.6)			
Skin Reaction severity (n)	Mild	13	12	25			
	Moderate	8	7	15			
	Severe	2	2	4			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.2.2 Skin Reaction - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency Table of SkinReac_ana by AllocatedTreatment

SkinReac_ana(Skin Reaction at least once from visit 4 to		Treatment(Allocat Treatment)	ed
visit 7 (Y/N))	METFORMIN	PLACEBO	Total
Yes	21	23	44
No	88	95	183
Total	109	118	227

Parameter(s)	Studied effects	Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
skinreac_pp	AllocatedTreatment METFORMIN vs PLACEBO	0.986	0.510	1.905	0.9658	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is SkinReac_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.3.1 Abdominal Pain - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Any Abdominal Pain (n(%))	Yes	26 (22.0)	32 (29.4)	58 (25.6)			
	No	92 (78.0)	77 (70.6)	169 (74.4)			
Abdominal Pain severity (n)	Mild	16	21	37			
	Moderate	8	10	18			
	Severe	2	1	3			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.3.2 Abdominal Pain - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of AbdoPain_ana by AllocatedTreatment						
	AbdoPain_ana(Abdominal Pain at least once from		Treatment(Alloca Treatment)	ated			
	visit 4 to visit 7 (Y/N))	METFORMIN	PLACEBO	Total			
	Yes	32	26	58			
	No	77	92	169			
	Total	109	118	227			
			Odds	Lower 95% Confidence Limit	Upper 95% Confidence Limit		Fisher
Parameter(s)	Studie	Ratio Estimate	for Odds e Ratio	for Odds Ratio	P-value#	exact P-value#	
abdopain_pp	AllocatedTreatment METF	ORMIN vs PLAC	EBO 1.471	0.807	2.678	0.2074	0.2255

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is AbdoPain_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.4.1 Flatulence - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Any Flatulence (n(%))	Yes	28 (23.7)	38 (34.9)	66 (29.1)			
	No	90 (76.3)	71 (65.1)	161 (70.9)			
Flatulence severity (n)	Mild	16	16	32			
	Moderate	9	16	25			
	Severe	3	6	9			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.4.2 Flatulence - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Fl	atu_ana by Alloc						
	Flatu_ana(Flatulence at least once from visit 4 to visit 7	Anocaleur	Treatment(Allo Treatment)	ocated				
	(Y/N))	METFORMIN	PLACEBO	Tota	/			
	Yes	38	28	66	6			
	No	71	90	161	1			
	Total	109	118	227	7			
Parameter(s)		Studied effects		Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
flatu_pp	AllocatedTreatment		PLACEBO	1.720	0.964	3.069	0.0662	0.0793

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Flatu_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.5.1 Constipation - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention					
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227			
Any Constipation (n(%))	Yes	38 (32.2)	37 (33.9)	75 (33.0)			
	No	80 (67.8)	72 (66.1)	152 (67.0)			
Constipation severity (n)	Mild	19	21	40			
	Moderate	17	11	28			
	Severe	2	5	7			

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.5.2 Constipation - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Cons	ti_ana by Alloca	tedTreatment				
	Consti_ana(Constipation at least once from visit		AllocatedTreatment(Allocated Treatment)				
	4 to visit 7 (Y/N))	METFORMIN	PLACEBO	Total			
	Yes	37	38	75			
	No	72	80	152			
-	Total	109	118	227			
Parameter(s)	Stud effe	died	Odo Rati Estim	o for Odd	95% ace Confidence Limit s for Odds	P-value#	Fisher exact P-value#
consti_pp	AllocatedTreatment MET	FORMIN vs PLA	CEBO 1.08	2 0.622	1.882	0.7805	0.8878

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Consti_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.6.1 Diarrhoea - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Diarrhoea (n(%))	Yes	24 (20.3)	60 (55.0)	84 (37.0)
	No	94 (79.7)	49 (45.0)	143 (63.0)
Diarrhoea severity (n)	Mild	14	34	48
	Moderate	8	21	29
	Severe	2	5	7

Section 12. Maternal symptoms up to 36 weeks gestation 12.6.2 Diarrhoea - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Dia	rrh_ana by Alloc	atedTreatme	ent				
	Diarrh_ana(Diarrhoea at least once from		Treatment(All Treatment)	ocated				
	visit 4 to visit 7 (Y/N))	METFORMIN	PLACEBO	To	tal			
	Yes	60	24		84			
	No	49	94	14	43			
	Total	109	118	2	27			
					Lower 95%	Upper 95%		
	S	Studied		Odds Ratio	Confidence Limit for Odds	Confidence Limit for Odds		Fisher exact
Parameter(s)		effects		Estimate	Ratio	Ratio	P-value#	P-value#
diarrh_pp	AllocatedTreatment M	ETFORMIN vs P	LACEBO	4.796	2.669	8.617	<.0001	0.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Diarrh_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.7.1 Nausea - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Nausea (n(%))	Yes	46 (39.0)	49 (45.0)	95 (41.9)
	No	72 (61.0)	60 (55.0)	132 (58.1)
Nausea severity (n)	Mild	31	27	58
	Moderate	13	19	32
	Severe	2	3	5

Section 12. Maternal symptoms up to 36 weeks gestation 12.7.2 Nausea - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Nausea_ana by AllocatedTreatment							
	Nausea_ana(Nausea at least once from visit 4 to visit 7	Allocaled	Treatment(All Treatment)					
	(Y/N))	METFORMIN	PLACEBO	Тс	otal			
	Yes	49	46		95			
	No	60	72	1	32			
	Total	109	118	2	27			
Parameter(s)		Studied effects		Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
nausea pp	AllocatedTreatment		PLACEBO	1.278	0.754	2.168	0.3626	0.4194

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Nausea_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.8.1 Vomiting - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Vomiting (n(%))	Yes	24 (20.3)	34 (31.2)	58 (25.6)
	No	94 (79.7)	75 (68.8)	169 (74.4)
Vomiting severity (n)	Mild	14	20	34
	Moderate	7	13	20
	Severe	3	1	4

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Frequency

Section 12. Maternal symptoms up to 36 weeks gestation 12.8.2 Vomiting - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Table of Vomit ana by AllocatedTreatment

Trequency	Vomit_ana(Vomit at least once from visit 4 to		reatment(Alloca Treatment)			
	visit 7 (Y/N))	METFORMIN	PLACEBO	Total		
	Yes	34	24	58		
	No	75	94	169		
	Total	109	118	227		
					Lower	Uppor
					95%	Upper 95%

Parameter(s)	Studied effects	Odds Ratio Estimate	95% Confidence Limit for Odds Ratio	95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
vomit_pp	AllocatedTreatment METFORMIN vs PLACEBO	1.775	0.970	3.249	0.0626	0.0687

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Vomit_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 12. Maternal symptoms up to 36 weeks gestation 12.9.1 Headache - from Visit 4 (18-20 Weeks) to Visit 6 (36 Weeks) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Any Headache (n(%))	Yes	40 (33.9)	37 (33.9)	77 (33.9)
	No	78 (66.1)	72 (66.1)	150 (66.1)
Headache severity (n)	Mild	21	24	45
	Moderate	13	9	22
	Severe	6	4	10

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 N = number of patients randomised, n = number of observations Event with the highest severity picked for summary

Section 12. Maternal symptoms up to 36 weeks gestation 12.9.2 Headache - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of Heada	che_ana by Alloo	catedTreatment				
	Headache_ana(Headache at least once from visit 4	AllocatedTreatment(Allocated Treatment)					
	to visit 7 (Y/N))	METFORMIN	PLACEBO	Total			
	Yes	37	40	77			
	No	72	78	150			
	Total	109	118	227			
				Lower	Upper		
				95%	95%		
			Odds	Confidence Limit	Confidence Limit		Fisher
	Studi	ed	Ratio	for Odds	for Odds		exact
Parameter(s)		effects			Ratio	P-value#	P-value#
headache_pp	AllocatedTreatment METF	ORMIN vs PLAC	EBO 1.002	0.578	1.737	0.9941	1.0000

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is Headache_ana='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 12 1 Maternal symptoms analysis.lst'

Section 13. Serious Adverse Events 13.1.1.1 Mothers with at least one SAE Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Number of Patient with a SAE (n)	OVERALL	22	14	36

Section 13. Serious Adverse Events

13.1.1.2 Mothers with at least one SAE - Statistical Analysis - POST-HOC* Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Frequency	Table of ANY_SAE by AllocatedTreatment								
	AllocatedTreatment(Allocated Treatment)								
	ANY_SAE	METFORMIN	PLACEBO	Total					
·	No	95	96	191	-				
	Yes	14	22	36					
	Total	109	118	227	_				
Parameter(s)		Studie			Odds Ratio Estimate	Lower 95% Confidence Limit for Odds Ratio	Upper 95% Confidence Limit for Odds Ratio	P-value#	Fisher exact P-value#
pat_sae_pp	AllocatedT	reatment METF	ORMIN vs Pl	ACEBO	0.643	0.311	1.331	0.2344	0.2767

EMPOWaR Statistical Analysis Report - Final 02 - tables run on: 05MAR2016 at 02:47 *Analised using logistic regression (binary logit), probability modeled is ANY_SAE='Yes' #Significance level set at p<0.05 Detailed analysis in file 'Empowar 13 1 1 Npatients SAE analysis.lst'

Section 13. Serious Adverse Events 13.1.1.3 SAE related to the mothers Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227	
Number of SAE (n)	OVERALL	28	19	47	
Number of SAE by relationship (n)	Possibly	2	2	4	
	Unrelated	26	17	43	
Number of SAE by expectedness (n)	Yes	6	6	12	
	No	21	13	34	
	Unk	1	0	1	

Section 13. Serious Adverse Events 13.1.1.3 SAE related to the mothers (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of SAE by outcome (n)	Missing	1	0	1
	Completely recovered	24	16	40
	Condition improving	1	1	2
	Condition improving Completely recovered	1	0	1
	Condition improving Recovered with sequelae	0	1	1
	Recovered with sequelae	1	1	2

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11136	METFORMIN	19JAN2012	14JAN2012	Diagnosis: Placental abruption. Drescription: Patient presented at 35+2 weeks gestation with a minor ante-partum haemorrage. Clinical diagnosis of placental abruption was made. necessitating immediate delayer by b caesarean section. Diagnosis was confirmed at delivery. Mother and baby are both well. Severity: Moderate	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	17JAN2012
11501	METFORMIN	14NOV2012	270CT2012	Diagnosis: Unknown Description: Admitted with severe renal pain and vomiting. Noted to have deranged LFTs. Recent course of amoxicillin from GP for chest infection. Symptoms and LFTs resolved spontaneously. Severity: Mild	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	31OCT2012
11748	METFORMIN	12DEC2013	11DEC2013	Diagnosis: Mastitis. Description: Sepsis secondary to Mastitis. Follow-up 2002/14: Admitted 10 days postnatal with mastitis. Treated with IV then oral antibiotics. Seventy: Moderate	Involved or prolonged inpatient hospitalisation	UTI. 25/09/2013 - 27/09/2013. medication required.	Unrelated	No	Completely recovered	14DEC2013
11748	METFORMIN	27SEP2013	25SEP2013	Diagnosis: Pain and Vomiting, Description: Self presented with upper abdominal pain and vomiting. ?UTI. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Depression from 2009 to 2010. Urinary Tract Infection. April 5th 2013 to 6.4.2013.	Unrelated	No	Recovered with sequelae	27SEP2013
11748	METFORMIN	07OCT2013	06OCT2013	Diagnosis: Abdominal Pain ? Preterm Labour Description: Self presented with abdo pain: ?Preterm labour complicated by unrary tract infections. Sevenity: Moderate Follow-up 2002?14: Nogrossis: UTI. Admitted at 32 weeks gestation with abdominal pain. Unrie culture +ve for e.coll. Threatened pre-term labour excluded. Treated with antibiotics and resolved. Sevenity: Mild.	Involved or prolonged inpatient hospitalisation	Urinary Tract Infection. 02/04/13 - 05/04/2013 and 25/09/2013 - 26/09/2013. medication required for both infections.	Unrelated	No	Completely recovered	09OCT2014
11797	METFORMIN	18NOV2013	14NOV2013	Diagnosis: Vomiting in late pregnancy. Description: Self presented with excessive vomiting. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Hyperemesis. 20/05/13. ongoing. medication required.	Possibly	Yes	Completely recovered	15NOV2013
11881	METFORMIN	07JAN2014	30DEC2013	Diagnosis: Severe Sorptis. Description: Antihilad at 30-4 weeks gestation with pressa, increase of dynamic. Tracted with multiple antihicities for presonmed in Cellineial destencements on the muse of a week. Description of follower baby in materian interest at 31-92 weeks gestation. Patient transferred to ITU for ventilatory support post delivery. Continues to improve, back in normal ward at present. Follow-up 1401/141-Diagnosis: Probable urosspits and attypical pneumonia necessitating preterm delivery in maternal interest. Description: Condition now resolved, patient recovered. Severity: Severe.	Life-threatening) Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	13JAN2014
12008	METFORMIN	13FEB2012	09FEB2012	Atonic uterus resulting in massive obstetric haemorrage. 2 litre loss. Severity: Severe	Life-threatening	N/a	Unrelated	No	Completely recovered	12FEB2012
12008	METFORMIN	16AUG2012	14FEB2012	Diagnosis: Chest Pain Description: Chest pain following LSCS 5/7 days after delivery. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	16FEB2012
13082	METFORMIN	07FEB2012	04FEB2012	Admitted for labile BP at 39 weeks. Commenced on labetalol 100mgs BD and IOL booked. Inpatient on Mat ward since 40402/12. Completion of data 09/05/13. Participant delivered on 08.2.12 and was discharged on 11.2.12. On review of medical notes. hyperfension resolved postnatally; was not discharged on any anti-hypertensives. Severity: Mild	Involved or prolonged inpatient hospitalisation	Has history of hypertension. was on Irbesartan 75mgs daily in 2009. Not on treatment since	Unrelated	Yes	Completely recovered	11FEB2012
13209	METFORMIN	31AUG2012	24AUG2012	Diagnosis: Inpatient stay for over 24hrs for investigations. All negative. Description: Reported chest pain and call pain at day 4 postnatal. Admited to hospital for 2 days for chest.+arg and blood tests to und ou APE. Was commenced on Fragmin for 6/52 and attended for leg Doppler x 2. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04SEP2012

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
13551	METFORMIN	05MAR2013	02MAR2013	Diagnosis: Ernes for fatel distanse, followed by 5000ml PPH and hysterectomy, Description: Bedorground: NI base heaking close monitoring in programoury for raised PP. She was commenced on labetald on 2.113. Had subsequent damission for misical PP 6.218 (out an SAE according to perdocol). Discharged back to community care the following day. Admitted to antenatal ward again with misical PP on 25.213. Remained and in paptent until IOL commenced 28.213 at 20.30 at 39 weeks gestation. Baby: EMCS for fatal disfress (CTG and FBS) under GA. Baby delivered at 1913. agaets 4 at 1 minute. South PH 51.000 Minute 7.18.7.248. Baby was admitted to NICU overright due to NI being transferred to Whiston. Re-unled with mum where netured to Liverpool Womer's NI. Following emcs NI suffered from major haemorrhage totaling 5000ml. A hysterectomy was undertaken. NI received a tatid a devices influsion to correct transfusion-diated hypo	Involved or prolonged inpatient hospitalisation) Life-threatening	Raised BP sant 2.113, ongoing, medication required.	Unrelated	Yes	Condition improving Recovered with sequelae	07MAR2013
14303	METFORMIN	08AUG2013	08AUG2013	Post Partum Haemorrhage 1200mls.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	08AUG2013
16121	METFORMIN	24JUN2013	30MAY2013	Diagnosis: Pyelonephritis Description: Pyelonephritis - ascending UTI involving pyelum. fever. tachycardia. abdo/back pain. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04JUN2013
25232	METFORMIN	17OCT2013	140CT2013	Diagnosis: Preterm Labour Spontaneous Rupture of Membranes. Description: Spontaneous rupture of membranes occurred 14/10/2013 at 13.30. No uterime activity, On 15/10/2013 developed matemati Labrycardia and increase of white blood cells. Decision made at 10.50 on 15/10/13 to induce labour. Labour augmented with syntochnon influsion. Live baby girl born on 16/10/2013 at 07.14hrs. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	160CT2013
25264	METFORMIN	15AUG2013	08AUG2013	Diagnosis: benign Intracranial Hypertension. Description: Admitted to Hallamshire Hospital with headache due to this. Had lumbar puncture to drain some CSF. Symptoms resolved, had one night in hospital. Sevenity, Moderate.	Involved or prolonged inpatient hospitalisation	Benign Intracranial Hypertension. started in 2009. ongoing. medication not required.	Unrelated	No	Completely recovered	09AUG2013
25264	METFORMIN	010CT2013	265EP2013	Diagnosis: Rataed inter-canaial pressure. Description: Admission to Chesterfield Royal Hospital with headcache burred vision. Innivirua. manese 2009/351. Lumbar puncture eased symptoms but backache marked after procedure and thought to be related to same. Care continued with analgesic therapy and physio. Severity: Mild.	Involved or prolonged inpatient hospitalisation	Istignathic Intracranial Hyportension, start spring 2009, end Iste 2011, and received medication between these date, Diagnosed date, Diagnosed date, Diagnosed and ho medication required as contra-indicated in pregnancy.	Unrelated	Yes	Condition improving	
25459	METFORMIN	11APR2014	06APR2014	Diagnosis: Left Calf Pain ?Thrombosis. Description: Admitted with unilateral calf pain. No redness or swelling. x1 dose anti-coagulant and analgesia given. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	07APR2014
25459	METFORMIN	17JUN2014	16JUN2014	Diagnosis: Right ovarian cyst Admitted to birth centre with right sided abdominal pain on 16.06.14. C/section performed 17.06.14. Severity: Mild	Involved or prolonged inpatient hospitalisation	Right adnexal cyst (15/03/14)	Unrelated	No	Completely recovered	17JUN2014
11323	PLACEBO	29MAY2012	20MAY2012	Diagnosis: Inconclusive Description: Admitted with shortness of breath and chest pain at 32 weeks gestation. Investigated throroughly with CTPA. upperabdo uitrasound and blood tests but all investigation negative. Symptoms settled spontaneously. Severity: Moderate	Involved or prolonged inpatient hospitalisation	Asthma. ongoing. medication required Smoker. ongoing	Unrelated	No	Completely recovered	22MAY2012
11335	PLACEBO	21JUN2012	19JUN2012	Diagnosis: Post partum haemonhage Description: Delivered by elective caesarian section on 1900/12. Developed bleeding secondary to uterina atomy following delivery while incovory area. Rubalch to bratter for EUA under CA. Heimonnhage managed with Bakin balloon. Estimated blood loss 2000mts. Severity: Moderate	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	21JUN2012
11714	PLACEBO	30SEP2013	27SEP2013	Diagnosis: Large Biood Loss - 1500ml. Description: Emergency o's for failure to progress in labour. 1500ml blood loss at delivery. Follow-up 20/02/14: Diagnosis: Post Partum Hamormagea. Altonic postpartum haremortage following emergency caesarean section for failure to progress in the 1st stage of labour. Estimated blood loss 1500ml. Severity: Moderate.	Life-threatening) Involved or prolonged inpatient hospitalisation	Gestational Diabetes Mellitis. 09/07/13. orgoing. no medication required.	Unrelated	No	Completely recovered	03OCT2013

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
11940	PLACEBO	04JUN2014	02JUN2014	Diagnostis: Respiratory Tract Infection, Presented with cough rand feeling percentility event at 37 - versits granulation. Already star improvements providence on prescribed by GP. Also comparising of network field in novements. Admitted to hospital for optimisation of transmert and enable on between the conset any normal. Reviewed by respiratory physician and symptoms field to be improving. Iskey viral origin. In of thref ambitotics or predivisionous required, advised to monitor PEFR and for CP to refer to outpatient respiratory clinic as necessary. Following Obstatist review in in very of persistently reduced felat movements and necent diagnosis of gestational diabetes decision made for induction of labour. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	04JUN2014
13007	PLACEBO	05AUG2011	28JUL2011	Diagnosis: prolonged hospital stay. Participant induced for suspected IUGR at 40 weeks+1day. Baly's BW below 9th centile. Interefore needed blood sugar recordings (TBGs) pre and tops file reaks as per protocol. Bally 8W 272/8X. These were completed within 24ths. This resulted in a prolongation of hospital stay. 1208/2011 IUGR is an Expected outcome and is being routinely collected as a secondary outcome of this study. Therefore. not a SUSAR but a SAR.	Involved or prolonged inpatient hospitalisation	2008 - normal vaginal delivery at tem (41 weeks). 3100gms	Possibly	Yes	Completely recovered	28JUL2011
13144	PLACEBO	11MAY2012	31MAR2012	Diagnosis: Symphysis Publs Pain. Physiological Faints in Pregnancy Description: Occasional fainting episodes and episodes of raised BP over past 6 weeks. 48hrs admission on ward for observation due to this. Also reports SPD. IOL at 38+7 booked for this reason. However on admission to IOL suite wars found to be 38+6. reasons for IOL dut not warnat delivery at this gestation. Inab Deen incorrectly calculated when IOL booked. therefore IOL rebooked and performed at 38+1 on 2206/12. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	22MAY2012
13301	PLACEBO	19OCT2012	170CT2012	Diagnosis: Intrapartum and postpartum haemonthage of 2000mis Description: This lady was iduced at 14-5 for postdates programary. She received 2mg x 2 of Prostin gel. Price to ARM she had refs helbeding PV : Oblique breach lie was diagnosed on USS. She was taken to theater for emergency caesarean secton. Intrapartum heemorthage = 1000mit, Dosthatal haemonthage = 1000mit. Total EBL = 2000mit. Baby born with Apgars 10 at 1 minutes and 10 at 5 minutes. Cord phi 7 226 and 72.2 Baby's weight = 440g, aF well on demand. The lady was transfused 2 units of blood in theather. Condition currently improving. Ioday Hb 7 Jagid. for thref 2 units of blood in theather. Condition currently improving. Ioday Hb 7 Jagid. Struther 2 units of blood in theather. Condition currently improving. Ioday Hb 7 Jagid. Struther 2 units of blood. Follow-up 24/1012: This lady was discharged home with baby from the postnatal ward on Sunday 20.1 10.12 at 14.00. Her HB was 8.7 grid and she was prescribed ferrous sulphate 200mg TDS. Sevently: Severe and the severe the severe the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe the severe threse forces and the severe the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe threse forces and the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe the severe threse forces and the severe threse forces and the severe threse forces and the severe threse forces and the severe th	Involved or prolonged inpatient hospitalisation Life-threatening	Previous PPH and subsequent blood transfusion in 2007. medication required. PCOS. ongoing. no medication required.	Unrelated	Unk	Completely recovered	200CT2012
13473	PLACEBO	04JAN2013	03JAN2013	Diagnosis: Neonatal BM's low. Baby admitted to NICU. lowest BM 1.7mmol Description: EP was delivered via emergency cls. JOL at 38-13 for pre-eclampsia on 31.13. Baby was transferred to the neonatal unit for 2A hours post delivery for low BM's. Lowest BM 1.7mmol. baby tube del only. no IV fluits required. Baby maintaining BM's and back on postnatal ward with mum after 24 hours. Discharged home 5.1.13. no follow-up anticipated. Severity. Mid	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	04JAN2013
13591	PLACEBO	07MAY2013	30APR2013	Diagnosis: Hospital administori via ambulance with gall atoms. Description RB was administ to Royal Livepoor briggital on 30.04.13 via ambulance with chronic back pain. She is 3 weeks postnatal. Was kept ni by mouth for 24 hours and had a USS which diagnosed gall stones. Received antibiotics and amalgesia whilst an inpatient and was discharged on 10.5.13. RB reports awailing blood tests to see if presence of infection and has an appointment with a consultant at the Royal on 16.04.13. NB. Information obtained verbally from the patient only. no access to modical notes as an appointed a different hospital. Severity, Noderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	01MAY2013
13705	PLACEBO	02AUG2013	19JUL2013	Diagnosis: APH 31+2/40. Description: Patient admitted to antenatal ward with APH at 31+2/40. Had x 2 small PV bleeds at home. HVS sent. Speculum NAD. Discharged home after 24 hours as nil further PV bleeding. Taking ferrous suphate. Severity. Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	20JUL2013
13712	PLACEBO	02AUG2013	23JUL2013	Diagnosis: Obstetric Choleostasis. Description: Patient presented at 31+5/40 with localised tiching. Bile acids taken and indicate obstetric choleostasis. Patient prescribed Uncodeoxycholic acid 200mg TDS and Chiophenamine Arra, IOL booked for 05.09.2013. Having weekly bloods and CTG's. Information obtained trom patient via telephone only. Severity: Moderate.	Other significant medical events (as defined in protocol)	Obstetric chołecstasis in previdous pregnancy in 2010. Start 27/01/2010. end 02/02/2010. medication required.	Unrelated	Yes	Completely recovered	06SEP2013
14336	PLACEBO	27NOV2013	26NOV2013	Diagnosis: Post partum haemonhage and pre-eclampsia. Description: Admitted to High Dependency Unit from theater recovery after total PPH 700mls (at delivery 400mls) requiring prolonged IV synchronic metamenta. In addition had raised BP requiring medication after admission to HDU. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes. started 07/11/2013. ongoing. no medication required.	Unrelated	No	Recovered with sequelae	29NOV2013

Section 13. Serious Adverse Events

13.1.2 SAE related to the mothers - Details

Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
14336	PLACEBO	230CT2013	17SEP2013	Diagnosis: Abdominal pain cause unknown. Description: Admitted with abdominal pain for observation. Cause unknown. Possible UTI. Possible 'uterine stretching pain'. Routine blood and urine tests performed. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	Yes	Completely recovered	23SEP2013
14336	PLACEBO	27NOV2013	20NOV2013	Diagnosis: Infective diarrhoea and vomiling. Description: Prolonged episode of diarrhoea and vomiting causing dehydration. Vf fuid rehydration required on admission to hooghalian 0.2311/0.231. Admitted for 24 hours. Had one sati dose labetalol for raised BP whilst an inpatient. Stopped study medication. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational diabetes, started 07/11/2013. ongoing, no medication required.	Unrelated	No	Completely recovered	24NOV2013
14354	PLACEBO	20DEC2013	17DEC2013	Diagnosis: Threatened pre term labour. Description: G5 P2 33 weeks. admitted with PV bleed and irregular tightenings 17.12.13. Prescribed betamethasone and dalteparin. Hospitalised for observation. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition improving Completely recovered	20JAN2014
15034	PLACEBO	07NOV2013	24OCT2013	PPH 1600mls. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	25OCT2013
17036	PLACEBO	12MAR2013	10MAR2013	Diagnosis: Influenza. Description: Inpatient hospitalisation due to Influenza. Painst admittation 1010/31/3 ad listicharagind on 11/30/3 as fealing better. Study medication stopped whilet unwell. For ecommence when well. Sevenity: Moderate. Followup 17/08/2014/ Diagnosis: Influenza - resulting in raised ALTs requiring scan. Initial SAE reported due to hospitalisation due to Influenza. Following this raised ALT levels were noted and al lever scan arranged. This showed an enlarged splener ?consistent with recent Influenza. This patient has had raised ALT levels dating back to 2010. Discherized home following scan.	Involved or prolonged inpatient hospitalisation Other significant medical events (as defined in protocol)	Cholecystectomy. 2010 - 30/07/2010.	Unrelated	No	Completely recovered	17JUN2014
17137	PLACEBO	27DEC2013	25DEC2013	Diagnosis: Costochondritis. Description: Admitted with upper abdominal pain - bloods and USS all NAD. Presumed costochondritis. Discharged home 27/12/13. Severity:	Involved or prolonged inpatient hospitalisation	Previous episode of costochondritis	Unrelated	No	Completely recovered	27DEC2013
17137	PLACEBO	20JAN2014	17JAN2014	Admitted to antenatal ward with unstable lie. To remain inpatient until LSCS 24.1.14.	Involved or prolonged inpatient hospitalisation	Episode of costa chondritis	Unrelated	No	Completely recovered	21FEB2014
21033	PLACEBO	23MAY2014	27APR2014	Diagnosis: Abdominal Pain. Likely Costochondritis. Description: Admitted at 33+4 weeks gestation with abdominal pain. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	29APR2014
21033	PLACEBO	23MAY2014	11APR2014	Diagnosis: Likely Costochondritis. Description: Admitted at 31+2 weeks gestation for observation/monitoring for left sided chest pain. Investigations generally NAD. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Condition improving	
21033	PLACEBO	02APR2014	28DEC2013	Diagnosis: Non-specific chest pain. Description: Admitted via ambulance with suspected clinical suspicion of a pulmonary embolism. Had left pleuritic chest pain. with shortness of breath and collapse. Severity: Mild.	Involved or prolonged inpatient hospitalisation	Caesarean Section. 03/12/2013.	Unrelated	No	Completely recovered	30DEC2013
21069	PLACEBO	19MAR2014	18FEB2014	Diagnosis: Sepsis. Description: Pyrexial and tachycardic in labour. Raised CRP and white cell count. also platelets reduced. Had IV antibiotics. then oral. Went on septic pathway. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	25FEB2014
21093	PLACEBO	23DEC2013	28NOV2013	Diagnosis: Small antepartum haemorrhage. Description: Admitted to maternity ward overnight for observation as PV bleed. Ectropion noted on cervix. Placenta not low-lying. No pain. 23 weeks gestation. Severity: Mild	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	29NOV2013
21109	PLACEBO	09APR2014	03APR2014	Diagnosis: Small APH - nil on examination. Description: Admitted to maternity ward via maternity day unit with lower abdo discomfort/Braxton hicks/red pv loss/unstable lie. Severity: Mid.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes. 19/03/2014 - 08/04/2014.	Unrelated	No	Completely recovered	05APR2014
21109	PLACEBO	19MAR2014	14FEB2014	Diagnosis: Urinary Tract Infection. Description: Symptomatic of UTI and leukocytes in urine. Admitted for treatment and observation to maternity ward for over 12 hours. Severity: Mild.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	21FEB2014

Section 13. Serious Adverse Events 13.1.2 SAE related to the mothers - Details

Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
25391	PLACEBO	12MAR2014	07MAR2014	Diagnosis: 1). Musculoskeletal Pain. 2). Depression. Description: Admitted to hospital for observation and analgesia for musculoskeletal pain and depression. Severity: Mid.	Involved or prolonged inpatient hospitalisation	Depression/ Anxiety.started 2005.ongoing. medication required.	Unrelated	No	Missing	
53072	PLACEBO	30JUN2014	27JUN2014	Diagnosis: Episode of fitting, unknown cause. Description: Singular episode of fitting 5 days posihatal. unknown cause. Admitted to hospital via ambulance. MRL CT. Chest Yany and blood tests carried out. No admormality found: declined inpatient say overnight for observation and had aame day dischargo. For follow up at first if clinic. Severity: moderable. UPDATE (OI of C21014). Diagnosis: Further reported 4-5 episodes of left sided numbress and ingling on upper body and face. Description: Reported 4-0 souce peiodes of ungling commencing in left hand and ascending left side of Lobody to face resulting in a heaviness and numb sensation. All occumed within Sevels of PNR Hispoide and talsel around 5 minutes in duration. Nil since. Has had further ECG at neurology clinic which was normal. Still awaiting results of ECE and MRL.	Involved or protonged inpatient hospitalisation Other significant medical events (as defined in protocol)		Unrelated	No	Completely recovered	27JUN2014

Section 13. Serious Adverse Events 13.2.1 SAE related to the babies Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo N=118	Metformin N=109	Overall N=227
Number of Patient with a SAE (n)	OVERALL	12	5	17
Number of SAE (n)	OVERALL	12	5	17
Number of SAE by relationship (n)	Possibly	1	3	4
	Unrelated	11	2	13
Number of SAE by expectedness (n)	Yes	1	0	1
	No	11	5	16

Section 13. Serious Adverse Events 13.2.1 SAE related to the babies (Cont.) Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of SAE by outcome (n)	Completely recovered	8	2	10
	Condition still present and unchanged	2	2	4
	Death	1	0	1
	Recovered with sequelae	1	1	2

Section 13. Serious Adverse Events 13.2.2 SAE related to the babies - Details Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
13670	METFORMIN	26JUL2013	21JUL2013	Diagnosis: Bilateral undescended testes. Description: Baby diagnosed with bilateral undescended testes. Baby born via normal vaginal delivery on 21/07/13. Undescended testes noted on 154 exam of the newborn: conducted by community midwife at home on 23/1713. Baby otherwise well: referred to Alder Hey for follow up, Severity. Moderate	Congenital anomaly/birth defect		Unrelated	No	Recovered with sequelae	26JUL2013
21095	METFORMIN	21MAR2014	20MAR2014	Diagnosis: No diagnosis yet. Description: Baby transferred to neonatal unit jittery/poor feeding/low BMS. Informed by paed. had significantly low BM's/hypoglycaemia. Raised lactate levels. Septic screen. Seventy: Moderate.	Other significant medical events (as defined in protocol) Involved or prolonged inpatient hospitalisation	Depression (Parent) prior to pregnancy. ongoing. medication required. Urine Infaction (Parent). 17/03/2014. ongoing. medication required.	Possibly	No	Completely recovered	23MAR2014
21099	METFORMIN	21MAR2014	15MAR2014	Diagnosis: Significant Neonatal Jaundice. Description: Baby admitted from home to paediatric ward with significant neonatal jaundice. Phototherapy treatment required. Sevently: Severe.	Involved or prolonged inpatient hospitalisation(Other significant medical events (as defined in protocol)	Raised BP (Parent). 06/03/2014 - 12/03/2014. no medication required.	Unrelated	No	Completely recovered	18MAR2014
25135	METFORMIN	09JUL2013	08JUL2013	Diagnosis: Congenital Malformation. Description: Circular thoracic lumbar spine lesion. Central 1 x 0.5cm vascular area. within 3 x 1 cm area of hypogipartication. (No hair): a vascular maiformation / occult spinal dysraphism. Follow-up 121 1113. Diagnosis of Aplasia Cutis Congenita made 1108/13. Seventry: Mid Follow-up 2801/14. Demnatologist protos evidence of Livedo. and full lupas zeroen. Mohar engoted (0801/14) cutous in all 4 limbs of linkar therefore referred to neurologist to investigating or systemic connective tissue disease and full lupas zeroen. Mohar engoted (0801/14) cutous in all 4 limbs of Infant therefore referred to neurologist to investigate any central nervous system vasculopatity or abnormality. Sevenity: Modareta.	Congenital anomaly/birth defect		Possibly	No	Condition still present and unchanged	
25459	METFORMIN	29JAN2014	28JAN2014	Diagnosis: Left unilateral talipes. Description: Had anomaly scan at 20 weeks gestation: - the baby was noted to have left unilateral talipes. Sevenity: Moderate. Follow-up 01/01/14: Dagnosis: Fund Talipes left foor Fixed talipes. Backhips normal: Initial ponseli plaster applied. To be replaced weekly and continue correction programme. Detected no 20/40 anomaly scan. Sevenity: Moderate.	Congenital anomaly/birth defect	Mother: Right adrenal cyst. started 15/11/2013. ongoing.	Possibly	No	Condition still present and unchanged	
11536	PLACEBO	17JUN2013	09MAR2013	Diagnosis: Infection. SVT. Description: baby admitted to RHSC. Edinburgh at 8 days old. diagnosed with an infection at that time. At 12 days old diagnosed with SVT. Severity: Moderate	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	23MAR2013
11851	PLACEBO	08APR2014	03APR2014	Diagnosis: Right testicular hydrocele. abnormal left testicle. Description: Right testicular hydrocele. abnormal left testicle. Awaiting ultrasound scan and paediatric surgical review. Severity: Mild.	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
12016	PLACEBO	10SEP2012	21APR2012	Diagnosis: Meconium Aspiration 1. Meconium Aspiration 2. Persistent Pulmonary Hypertension Severity: Severe	Involved or prolonged inpatient hospitalisation Life-threatening		Unrelated	No	Completely recovered	28APR2012
13496	PLACEBO	14FEB2013	11FEB2013	Diagnosis: Baby admitted to NICU for low blood glucose Description: EH diagnosed as gestational diabetic at 35 weeks. managed on det control only. Had elective caesarian section on 110:213 at 111am. Baby cord blood 24mmd. was grunning and had low TBG's on ward. Was admitted to NICU at 22.35 hours 11.02 13. Discharged back to ward with muna t41.5 for he net day 1202 13. Mun and baby discharged home 13.02.13 baby asymptomatic of hypoglycaemia and BF wild on discharge. No antibioptated follow up: Severity. Mid	Involved or prolonged inpatient hospitalisation		Possibly	Yes	Completely recovered	13FEB2013
13591	PLACEBO	26JUL2013	20APR2013	Date of onset: ?? 20/04/2013 (i.e. from 2 weeks old – see below). Diagnosis: Baby developed vascular maliomation. Description: Baby diagnosed with a venus malformation on upper shoulder. The baby was born on 8th April and mi was noted at birth or on the first paediatric examination. All the 6 week postnatal check with the CP a birth mark was noted and thought to be a haremaptions of financy. I saw mum at 3 month postnatal visit on 4th July, when if its became aware of the birth mark. You also up unit the baby was 6 weeks cid. It is was outside of the 26 day postnatal reporting particle AMPOWAR. Mum has since been in buch to say that the birth mark has now been diagnosed as a venus mationmation as it is the blood vessels below the actual mark which are causing it buirts bark has encode with the aday you rund. Baby has been referred to a specialist at Alder Hey for management and possible removal	Congenital anomaly/birth defect	See previous SAE dated 7.5.13; Mothor had hospital admission for gall stones at 24 days post natal. Having follow up at Royal Liverpool Hospital.	Unrelated	No	Recovered with sequelae	26JUL2013

Section 13. Serious Adverse Events 13.2.2 SAE related to the babies - Details

Population = Per-Protocol (PP) - AllocatedTreatment used for summarisation

Subject Number	Allocated Treatment	SAE - date of report	SAE - date of event	Description of SAE	Expedited Reporting Criteria	Relevant History	SAE_related_coded	SAE_expected_coded (Y/N)	SAE_outcome_coded	SAE - date of recovery
14413	PLACEBO	03MAR2014	03MAR2014	Diagnosis: Baby delivered with some abnormalities. Description: Clsection at 3/3/14 at 12.30 - baby found to have abnormal toes, fingers and anterioriy placed anus. Left hand is normal: Right nand has a middle short finger with hypoplasic nail and is twisted, index finder has an accessory digit. On the right foot the big toe has syndactivy and the 3/d toe is not formed. On the left foot, the big toe is syndactyly and the 3/d toe not formed. There is only one cartimetre between the anus and the posterior forches. Sevenity, Sevence.	Congenital anomaly/birth defect		Unrelated	No	Condition still present and unchanged	
21018	PLACEBO	05NOV2013	17OCT2013	Diagnosis: Presumed Sepsis/Preamonia consoliation. Description: Admitted to neonatal lunk favory after bitch for virrestigations for grounding variautical telesions on truck, grunting and tachyproteic. Remained on neonatal unit 17 - 22/10/13. Seventy: Moderate	Involved or prolonged inpatient hospitalisation	Vascular lesions. grunting. tachypnoeic. pneumonia. started 17/10/2013. ended 22/10/2013. medication required.	Unrelated	No	Completely recovered	240CT2013
21038	PLACEBO	16JAN2014	31DEC2013	Diagnosis: Cyanotic episodes, likely vasomotor phenomenon. Description: Admitted to ward 8 via ambulance/A&E 7 days old with cyanotic episodes 10 times a day lasting 3 - 5 mis. Investigations all normal. Discharged home 02/01/2014. No further admissions. Severity: Moderate.	Involved or prolonged inpatient hospitalisation		Unrelated	No	Completely recovered	02JAN2014
21047	PLACEBO	22APR2014	22JAN2014	Diagnosis: RSV positive bronchiolitis. Description: Admitted to paediatric ward at 2 weeks old with cough and increased work of breathing. Required oxygen and help with NG feeds for a few days. Gradually recovered. Severity: Moderate.	Involved or prolonged inpatient hospitalisation	Gestational Diabetes (Mother). 17/12/2013 - 08/01/2014.	Unrelated	No	Completely recovered	30JAN2014
21069	PLACEBO	19MAR2014	18FEB2014	Diagnosis: Meningitis/Sepsia. Description: Admitted to Neonatal Unit shortly after brith jittery/matemal sepsia. Had dusky episodes/desturitations/apnoaes/au/and/os/sepsis. Ventilated. Meningitis diagnosed. / Cerebral Haemonhage. Seventy: Severe.	Involved persistent or significant disability or incapacity Involved or prolonged inpatient hospitalisation	Sepsis in labour/maternal infection (Parent). 18/02/2014 - 25/02/2014. medication required.	Unrelated	No	Completely recovered	07MAR2014
21119	PLACEBO	06JAN2014	02JAN2014	Diagnosis: Congenital Anomaly. Description: Anomaly ultrasound scan showed structural abnormalities to hands and feet. Appearances suggestive of split hand and foot syndrome. Severity: Severe	Patient died Congenital anomaly/birth defect		Unrelated	No	Death	
25320	PLACEBO	03FEB2014	31JAN2014	Diagnosis: ? Hirschsprungs in neonate. Description: Distended stomach on antenatal scans. At birth neonate admitted to NNU then transfer to terfainy centre same day (Notingham Queersh Maidea). Serverity: Servere. Follow-up th 27/02/2014: Subsequently resolved. no pathology. baby discharged. Severity: Severe.	Congenital anomaly/birth defect		Unrelated	No	Completely recovered	27FEB2014

EMPOWaR: Efficacy of Metformin in Pregnant Obese Women, a Randomised Controlled Trial Funding reference number: 08/246/09 (NIHR Efficacy and Mechanism Evaluation Programme) EudraCT number 2009-017134-47

Statistical Report - Mechanistic paper (MP) - Final

Population = Intention to treat (ITT) - AllocatedTreatment used for analysis Report number: 02

Confidential

Data set analysed as it was on:

29 April 2015

Section 1. Maternal body fat

1.1.1 Maternal Body mass (Edinburgh)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
BodyMass (kg) Visit 2	Mean	101.388	103.322	102.413
	Median	97.810	104.018	100.077
	SD	16.190	15.961	16.017
	MIN,MAX	74.97,170.25	73.54,140.37	73.54,170.25
	Q1,Q3	89.72,111.83	92.19,112.90	90.53,112.40
	n	47	53	100
	Nmiss	13	7	20
BodyMass (kg) Visit 6	Mean	108.794	113.366	111.043
	Median	105.046	111.525	108.272
	SD	14.871	16.740	15.853
	MIN,MAX	79.82,165.47	78.11,147.87	78.11,165.47
	Q1,Q3	100.32,117.60	104.43,124.68	102.65,118.64
	n	31	30	61
	Nmiss	29	30	59

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat

1.1.1 Maternal Body mass (Edinburgh) (Cont.)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
BodyMass (kg) Visit 9	Mean	102.821	106.471	104.677
	Median	102.540	105.399	104.190
	SD	12.759	16.507	14.772
	MIN,MAX	72.74,126.73	73.76,146.86	72.74,146.86
	Q1,Q3	96.36,112.37	98.50,115.30	96.80,114.25
	n	29	30	59
	Nmiss	31	30	61

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat 1.1.2.1 Maternal Body fat mass (Edinburgh)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
FatMass (kg) Visit 2	Mean	47.93	50.32	49.19
	Median	45.85	49.38	47.51
	SD	12.05	11.79	11.92
	MIN,MAX	29.9,96.8	26.8,76.2	26.8,96.8
	Q1,Q3	38.6,54.4	42.2,59.5	41.2,55.5
	n	48	53	101
	Nmiss	12	7	19
FatMass (kg) Visit 6	Mean	50.83	54.37	52.57
	Median	50.28	54.58	50.69
	SD	10.94	12.17	11.61
	MIN,MAX	27.4,89.2	30.5,76.4	27.4,89.2
	Q1,Q3	46.9,55.4	46.8,65.1	46.9,57.9
	n	31	30	61
	Nmiss	29	30	59

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat

1.1.2.1 Maternal Body fat mass (Edinburgh) (Cont.)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo	Metformin	Overall				
FatMass (kg) Visit 9	Mean	49.06	50.09	49.58				
	Median	51.27	48.55	50.26				
	SD	9.01	13.73	11.56				
	MIN,MAX	26.6,63.2	13.6,75.8	13.6,75.8				
	Q1,Q3	46.3,55.4	45.1,59.1	45.1,56.3				
	n	29	30	59				
	Nmiss	31	30	61				

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat 1.1.2.2 Fat mass (kg) - Statistical Analysis - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Plac	cebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	n	Estimated Mean	SE	n	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
MOTHER_FATMASS_V2_ALL_OBS - itt	51.623	1.2656	48	52.835	1.1788	53	1.212	-2.111	4.535	0.524	0.4708
MOTHER_FATMASS_V6_ALL_OBS - itt	53.538	1.6104	31	55.390	1.5907	30	1.852	-2.623	6.327	0.686	0.4108
MOTHER_FATMASS_V9_ALL_OBS - itt	50.860	1.8982	29	50.858	1.8299	30	-0.002	-5.227	5.223	0.000	0.9994

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 Summary statistics are presented in table 1.1.2.1 of this report

By: Aryelly Rodriguez - ECTU Statistician

Outcome analysed using a linear regression model, ajusted by BMI band and c-section delivery. Significance level set at p<0.05

Estimated mean represents the adjusted means of the non-transformed variable by allocated treatment for V9,

SE represents standard error of the non-transformed estimated means and N represents number of observations for V9

*Represents the difference between non-transformed estimated means and CI Represents the 95% confidence interval for V9

Calculations and detailed analysis are presented in study file 'Empowar 1 1 2 BODPOD fat percent ANALYSIS.Ist'

All parameters shown normal or near-normal behavior

Section 1. Maternal body fat

1.1.2.3 Maternal Body fat mass(Edinburgh)*# - V2 and V6 data must be present (paired observations) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
FatMass (kg) Visit 2	Mean	48.75	52.70	50.72			
	Median	47.57	53.50	50.10			
	SD	13.23	11.72	12.55			
	MIN,MAX	31.1,96.8	28.3,76.2	28.3,96.8			
	Q1,Q3	40.5,54.9	42.5,61.8	42.4,58.7			
	n	28	28	56			
	Nmiss	0	0	0			
FatMass (kg) Visit 6	Mean	50.92	53.91	52.41			
	Median	49.99	52.80	50.51			
	SD	11.49	12.37	11.93			
	MIN,MAX	27.4,89.2	30.5,76.4	27.4,89.2			
	Q1,Q3	47.2,56.2	45.8,62.9	46.8,58.4			
	n	28	28	56			
	Nmiss	0	0	0			

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat

1.1.2.3 Maternal Body fat mass (Edinburgh)(Cont.)*# - V2 and V6 data must be present (paired observations) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Change FatMass (%) V6 from V2\$	Mean	5.66	2.47	4.06
	Median	3.79	0.74	1.21
	SD	10.34	7.31	9.02
	MIN,MAX	-11.8,32.9	-8.9,17.1	-11.8,32.9
	Q1,Q3	-1.5,12.1	-2.9,8.2	-1.9,10.2
	n	28	28	56
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks \$Change calculated as: ((FatMass_V6-FatMass_V2)/FatMass_V2)*100

Section 1. Maternal body fat

1.1.2.4 Maternal Body fat mass (Edinburgh)*# - V2 and V9 data must be present (paired observations) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
FatMass (kg) Visit 2	Mean	48.98	54.52	51.85			
	Median	50.10	54.85	51.95			
	SD	9.68	11.16	10.74			
	MIN,MAX	31.1,72.8	34.9,76.2	31.1,76.2			
	Q1,Q3	42.7,54.4	44.9,63.1	42.9,58.2			
	n	26	28	54			
	Nmiss	0	0	0			
FatMass (kg) Visit 9	Mean	48.48	50.81	49.69			
	Median	50.58	49.49	50.13			
	SD	9.30	13.75	11.77			
	MIN,MAX	26.6,63.2	13.6,75.8	13.6,75.8			
	Q1,Q3	43.3,55.4	45.3,59.9	45.1,56.3			
	n	26	28	54			
	Nmiss	0	0	0			

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat

1.1.2.4 Maternal Body fat mass (Edinburgh)(Cont.)*# - V2 and V9 data must be present (paired observations) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_li	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Change FatMass (%) V9 from V2\$	Mean	-0.38	-6.16	-3.38
	Median	-2.50	-2.63	-2.63
	SD	12.42	17.13	15.19
	MIN,MAX	-16.5,35.3	-80.1,12.0	-80.1,35.3
	Q1,Q3	-10.7,7.9	-11.9,3.1	-11.8,3.3
	n	26	28	54
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks \$Change calculated as: ((FatMass_V9-FatMass_V2)/FatMass_V2)*100

Section 1. Maternal body fat

1.1.2.5 Fat mass (kg) (paired observations) and Change FatMass (%) V6 from V2 and V9 from V2\$ - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Plac	cebo		Metf	ormin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
MOTHER_FATMASS_V2_PAIRED_OBS - itt	52.105	1.6120	28	53.373	1.5617	28	1.268	-3.204	5.740	0.323	0.5720
MOTHER_FATMASS_V6_PAIRED_OBS - itt	53.907	1.6579	28	54.508	1.6062	28	0.601	-3.998	5.200	0.069	0.7942
MOTHER_FATMASS_V9_PAIRED_OBS - itt	50.320	2.0138	26	51.241	1.8984	28	0.921	-4.604	6.446	0.112	0.7392
MOTHER_FATMASS_PRCENT_CHNG_V2_V6 - itt	4.747	1.6482	28	2.285	1.5968	28	-2.461	-7.034	2.111	1.166	0.2852
MOTHER_FATMASS_PRCENT_CHNG_V2_V9 - itt	-1.298	2.9065	26	-6.376	2.7399	28	-5.078	-13.052	2.896	1.635	0.2069

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 Summary statistics are presented in tables 1.1.2.3 to 1.1.2.4 of this report By: Aryelly Rodriguez - ECTU Statistician

Outcome analysed using a linear regression model, ajusted by BMI band. Significance level set at p<0.05

Estimated mean represents the adjusted means of the non-transformed variable by allocated treatment

SE represents standard error of the non-transformed estimated means and N represents number of observations

*Represents the difference between non-transformed estimated means and CI Represents the 95% confidence interval for V9

Calculations and detailed analysis are presented in study file 'Empowar_1_1_2_BODPOD_fat_percent_ANALYSIS.Ist'

All parameters shown normal or near-normal behavior

\$Change calculated as: ((FatMass V6-FatMass V2)/FatMass V2)*100 and ((FatMass V9-FatMass V2)/FatMass V2)*100

Section 1. Maternal body fat

1.1.3 Maternal body percentage fat (Edinburgh)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Fat (%) Visit 2	Mean	46.82	48.19	47.54		
	Median	46.85	48.00	47.50		
	SD	5.62	5.18	5.41		
	MIN,MAX	33.9,59.0	34.3,58.7	33.9,59.0		
	Q1,Q3	42.6,50.4	45.3,51.7	44.8,51.1		
	n	48	53	101		
	Nmiss	12	7	19		
Fat (%) Visit 6	Mean	46.30	47.48	46.88		
	Median	47.10	47.65	47.30		
	SD	4.84	4.63	4.74		
	MIN,MAX	34.3,53.9	39.1,56.3	34.3,56.3		
	Q1,Q3	43.9,48.8	43.9,51.2	43.9,50.2		
	n	31	30	61		
	Nmiss	29	30	59		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1. Maternal body fat

1.1.3 Maternal body percentage fat (Edinburgh) (Cont.)*# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo	Metformin	Overall				
Fat (%) Visit 9	Mean	47.45	48.35	47.91				
	Median	48.10	47.30	48.00				
	SD	4.97	5.31	5.12				
	MIN,MAX	36.6,54.6	37.9,58.6	36.6,58.6				
	Q1,Q3	43.6,51.9	44.6,53.1	44.4,52.0				
	n	29	30	59				
	Nmiss	31	30	61				

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1.2 Neonatal body fat - Only Alive Births 1.2.1 Baby Body mass at Visit 8 (delivery) and Visit 9 (Final 3 months postnatal)# - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall				
BABY_BodyMass* (kg)-V8	Mean	3.396	3.378	3.387				
	Median	3.387	3.426	3.418				
	SD	0.501	0.411	0.454				
	MIN,MAX	2.42,4.45	2.50,3.99	2.42,4.45				
	Q1,Q3	3.09,3.69	3.10,3.74	3.09,3.71				
	n	22	21	43				
	Nmiss	36	37	73				
BABY_BodyMass* (kg)-V9	Mean	9.683	6.011	7.910				
	Median	6.228	6.103	6.161				
	SD	19.409	0.920	13.981				
	MIN,MAX	4.80,112.37	4.41,8.01	4.41,112.37				
	Q1,Q3	5.61,6.54	5.27,6.51	5.49,6.54				
	n	30	28	58				
	Nmiss	28	30	58				

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass and Body Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1.2 Neonatal body fat - Only Alive Births 1.2.2.1 Baby Fat Mass at Visit 8 (delivery) and Visit 9 (Final 3 months postnatal)#* - ALL AVAILABLE OBSERVATIONS Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
BABY_FatMass* (kg)-V8	Mean	0.43	0.45	0.44			
	Median	0.40	0.44	0.43			
	SD	0.25	0.20	0.22			
	MIN,MAX	0.0,1.0	0.1,0.8	0.0,1.0			
	Q1,Q3	0.3,0.6	0.3,0.6	0.3,0.6			
	n	22	21	43			
	Nmiss	36	37	73			
BABY_FatMass* (kg)-V9	Mean	3.01	1.42	2.24			
	Median	1.54	1.43	1.49			
	SD	8.05	0.50	5.80			
	MIN,MAX	0.9,46.3	0.6,2.5	0.6,46.3			
	Q1,Q3	1.2,1.9	1.0,1.7	1.2,1.8			
	n	31	29	60			
	Nmiss	27	29	56			

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1.2 Neonatal body fat - Only Alive Births - V8 and V9 data must be present (paired observations) 1.2.2.2 Baby Fat Mass at Visit 8 (delivery) and Visit 9 (Final 3 months postnatal)#* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
BABY_FatMass* (kg)-V8	Mean	0.40	0.45	0.42		
	Median	0.40	0.44	0.42		
	SD	0.21	0.20	0.20		
	MIN,MAX	0.0,0.8	0.1,0.8	0.0,0.8		
	Q1,Q3	0.3,0.6	0.3,0.6	0.3,0.6		
	n	16	15	31		
	Nmiss	0	0	0		
BABY_FatMass* (kg)-V9	Mean	4.35	1.47	2.95		
	Median	1.53	1.46	1.52		
	SD	11.20	0.50	8.06		
	MIN,MAX	1.0,46.3	0.6,2.3	0.6,46.3		
	Q1,Q3	1.3,1.8	1.0,1.8	1.2,1.8		
	n	16	15	31		
	Nmiss	0	0	0		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 1.2 Neonatal body fat - Only Alive Births - V8 and V9 data must be present (paired observations) 1.2.2.3 Baby Fat Mass percentange change\$ from Visit 8 (delivery) to Visit 9 (Final 3 months postnatal)#* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
BABY_FatMass change\$ V8 to V9 (%)	Mean	1466.00	325.17	913.99
	Median	337.48	230.16	269.91
	SD	3183.06	311.85	2333.92
	MIN,MAX	63.0,12546	13.8,1139.8	13.8,12546
	Q1,Q3	165.4,571.0	106.2,433.7	158.7,515.8
	n	16	15	31
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat Mass was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks \$Percentange change calculated as ((B FatMass V9-B FatMass V8)/B FatMass V8)*100

Section 1.2 Neonatal body fat - Only Alive Births 1.2.2.4 Baby Fat Mass - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Placebo		Metformin								
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
BABY_FATMASS_V8_PAIRED_OBS -	0.422	0.0545	16	0.445	0.0503	15	0.023	-0.130	0.177	0.098	0.7566
BABY_FATMASS_V9_PAIRED_OBS -	1.665	0.1279	15	1.456	0.1094	15	-0.208	-0.559	0.142	1.491	0.2326
BABY_FATMASS_CHANGE_V8_TO_V9#	1.232	0.1408	15	1.012	0.1205	15	-0.220	-0.606	0.165	1.376	0.2511
BABY_FATMASS_V8_ALL_OBS - itt	0.456	0.0517	22	0.447	0.0472	21	-0.010	-0.152	0.133	0.019	0.8905
BABY_FATMASS_V9_ALL_OBS - itt	1.599	0.0848	30	1.435	0.0833	29	-0.164	-0.398	0.070	1.970	0.1660

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 By: A Summary statistics are presented in tables 1.2.2.1 to 1.2.2.3 of this report Outcome analysed using a linear regression model, ajusted by BMI band. Significance level set at p<0.05. Estimated mean represents the mean of the non-transformed variable by allocated treatment,Parameter shown normal or near-normal behavior SE represents standard error of the estimated non-transformed mean and N represents the 95% confidence interval Calculations and detailed analysis are presented in study file '1_2_PEAPOD_fat_percent_ANALYSIS.Ist' NOTE:Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks, outliers outside +/- 6SD were removed to exclude extreme errors in data entry #Percentange change calculated as ((B FatMass V9-B FatMass V8)/B FatMass V8)*100

Section 1.2 Neonatal body fat - Only Alive Births - ALL AVAILABLE OBSERVATIONS

1.2.3 Baby Fat % at Visit 8 (delivery) and Visit 9 (Final 3 months postnatal)#* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall		
BABY_Fat* (%)-V8	Mean	12.08	12.86	12.46		
	Median	10.95	12.30	12.30		
	SD	5.74	4.47	5.11		
	MIN,MAX	1.0,24.3	5.7,20.6	1.0,24.3		
	Q1,Q3	8.1,17.1	10.0,16.2	8.1,16.5		
	n	22	21	43		
	Nmiss	36	37	73		
BABY_Fat* (%)-V9	Mean	25.88	23.19	24.58		
	Median	24.10	23.50	23.55		
	SD	6.13	5.91	6.13		
	MIN,MAX	15.1,41.6	12.0,32.3	12.0,41.6		
	Q1,Q3	21.5,29.7	19.6,27.8	21.2,28.8		
	n	31	29	60		
	Nmiss	27	29	56		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Baby Fat % was only measured at the Edinburgh site #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-CLAMP (n)	Yes	11	9	20
Maternal Age at consent (years)	Mean	29.6	32.6	31.0
	Median	29.0	32.0	31.0
	SD	3.6	3.7	3.8
	MIN,MAX	25,37	25,38	25,38
	Q1,Q3	27,31	31,35	28,34
	n	11	9	20
	Nmiss	0	0	0

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
PARITY1 (n(%))	0	5 (45.5)	3 (33.3)	8 (40.0)	
	=>1	6 (54.5)	6 (66.7)	12 (60.0)	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = number of observations *Only pregnacies lasting at least 24 weeks or more were considered

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.3.1 Maternal Calculated BMI at Baseline - Visit 2 (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	35.7	37.9	36.7
	Median	36.1	38.2	36.4
	SD	3.5	4.4	4.0
	MIN,MAX	30,42	31,47	30,47
	Q1,Q3	32,39	36,39	34,39
	n	11	9	20
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

-	Allocated_Ir	ntervention	
Categories	Placebo	Metformin	Overall
Mean	38.7	39.4	39.0
Median	40.1	39.3	39.4
SD	3.5	2.6	3.1
MIN,MAX	33,43	36,43	33,43
Q1,Q3	35,42	38,41	37,42
n	11	8	19
Nmiss	0	1	1
Mean	3.0	2.6	2.8
Median	2.4	2.3	2.4
SD	2.1	1.8	1.9
MIN,MAX	-0,7	0,6	-0,7
Q1,Q3	1,5	1,4	1,4
n	11	8	19
Nmiss	0	1	1
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 38.7 Median 40.1 SD 3.5 MIN,MAX 33,43 Q1,Q3 35,42 n 11 Nmiss 0 Mean 3.0 Median 2.4 SD 2.1 MIN,MAX -0,7 Q1,Q3 1,5 n 11	Mean 38.7 39.4 Median 40.1 39.3 SD 3.5 2.6 MIN,MAX 33,43 36,43 Q1,Q3 35,42 38,41 n 11 8 Nmiss 0 1 Mean 3.0 2.6 Mean 3.0 2.6 Median 2.4 2.3 SD 2.1 1.8 MIN,MAX -0,7 0,6 Q1,Q3 1,5 1,4 n 11 8

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 9	Mean	35.7	37.9	36.6
	Median	36.7	37.4	37.2
	SD	4.0	4.1	4.1
	MIN,MAX	29,40	33,46	29,46
	Q1,Q3	31,39	35,40	35,39
	n	10	8	18
	Nmiss	1	1	2
Calculated BMI (kg/m^2) change V9 baseli	Mean	-0.1	-0.6	-0.3
	Median	-0.5	-0.7	-0.5
	SD	1.5	2.1	1.8
	MIN,MAX	-3,2	-5,2	-5,2
	Q1,Q3	-1,1	-1,1	-1,1
	n	10	8	18
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.3.4 Maternal body percentage fat (Edinburgh)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall		
Fat (%) Visit 1	Mean	46.14	49.31	47.45		
	Median	47.10	49.70	48.20		
	SD	4.46	5.78	5.13		
	MIN,MAX	39.6,52.4	41.6,57.1	39.6,57.1		
	Q1,Q3	41.4,48.8	44.0,55.2	44.0,51.1		
	n	10	7	17		
	Nmiss	1	2	3		
Fat (%) Visit 6	Mean	46.20	48.19	47.10		
	Median	47.30	49.30	47.45		
	SD	5.28	4.53	4.94		
	MIN,MAX	34.3,53.5	41.1,55.8	34.3,55.8		
	Q1,Q3	43.9,48.8	44.7,51.0	44.6,50.6		
	n	11	9	20		
	Nmiss	0	0	0		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.3.4 Maternal body percentage fat (Edinburgh) (Cont.)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Fat (%) Visit 9	Mean	46.89	49.50	47.96		
	Median	48.10	48.90	48.10		
	SD	5.51	5.07	5.34		
	MIN,MAX	36.6,52.4	42.2,56.7	36.6,56.7		
	Q1,Q3	45.4,51.9	46.0,53.2	46.0,52.0		
	n	10	7	17		
	Nmiss	1	2	3		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *This summary is only applicable to Edinburgh patients #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

-	Allocated_Ir	ntervention	
Categories	Placebo	Metformin	Overall
Mean	85.5	93.8	89.3
Median	84.0	94.0	90.5
SD	10.8	8.1	10.4
MIN,MAX	72,102	82,106	72,106
Q1,Q3	76,96	89,99	83,99
n	11	9	20
Nmiss	0	0	0
Mean	96.5	101.0	98.5
Median	94.0	101.0	99.0
SD	9.2	7.3	8.5
MIN,MAX	84,111	89,111	84,111
Q1,Q3	89,102	97,107	93,105
n	11	9	20
Nmiss	0	0	0
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 85.5 Median 84.0 SD 10.8 MIN,MAX 72,102 Q1,Q3 76,96 n 11 Nmiss 0 Mean 96.5 Median 94.0 SD 9.2 MIN,MAX 84,111 Q1,Q3 89,102 n 11	Mean 85.5 93.8 Median 84.0 94.0 SD 10.8 8.1 MIN,MAX 72,102 82,106 Q1,Q3 76,96 89,99 n 11 9 Nmiss 0 0 Mean 96.5 MEdian 94.0 101.0 SD 9.2 7.3 MIN,MAX 84,111 89,111 Q1,Q3 89,102 97,107 n 11 9

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	98.7	101.9	100.2
	Median	100.0	102.0	100.5
	SD	8.4	7.1	7.8
	MIN,MAX	87,113	89,111	87,113
	Q1,Q3	90,102	98,107	95,107
	n	11	9	20
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	150.5	141.7	146.6
	Median	149.0	141.0	145.5
	SD	7.3	4.5	7.5
	MIN,MAX	142,164	137,151	137,164
	Q1,Q3	145,154	139,141	141,151
	n	11	9	20
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	196.9	198.6	197.7
	Median	198.0	198.0	198.0
	SD	5.2	4.3	4.7
	MIN,MAX	190,207	193,205	190,207
	Q1,Q3	192,200	195,201	194,201
	n	11	9	20
	Nmiss	0	0	0
Calculated* Gestation - Visit 6 (days)	Mean	255.3	255.0	255.2
	Median	256.0	254.0	255.5
	SD	4.6	3.7	4.1
	MIN,MAX	245,263	251,263	245,263
	Q1,Q3	253,258	253,256	253,257
	n	11	9	20
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	282.0	282.0	282.0
	Median	282.0	283.0	282.0
	SD	4.5	3.6	4.0
	MIN,MAX	275,289	278,285	275,289
	Q1,Q3	281,283	278,285	281,283
	n	6	3	9
	Nmiss	5	6	11
Calculated* Gestation - Visit 8 (days)	Mean	282.1	280.9	281.6
	Median	283.0	278.0	283.0
	SD	9.9	8.3	9.0
	MIN,MAX	260,292	267,293	260,293
	Q1,Q3	281,289	277,285	278,288
	n	11	9	20
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	280.5	280.6	280.6
	Median	282.0	278.0	282.0
	SD	8.5	8.2	8.1
	MIN,MAX	260,290	267,292	260,292
	Q1,Q3	277,287	276,285	277,287
	n	11	9	20
	Nmiss	0	0	0
Coded R_gestation - Visit 8 (n(%))	>37 WEEKS	11 (100)	9 (100)	20 (100)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.5.1 HOMA-IR - Visit 2 Consent/Baseline (10-16 Weeks) and Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
HOMA - visit 2	Mean	3.797	4.052	3.912		
	Median	3.542	3.907	3.723		
	SD	1.167	1.550	1.321		
	MIN,MAX	2.37,6.51	2.21,6.55	2.21,6.55		
	Q1,Q3	2.94,4.49	2.68,5.06	2.87,4.53		
	n	11	9	20		
	Nmiss	0	0	0		
HOMA - visit 5	Mean	3.797	4.052	3.912		
	Median	3.542	3.907	3.723		
	SD	1.167	1.550	1.321		
	MIN,MAX	2.37,6.51	2.21,6.55	2.21,6.55		
	Q1,Q3	2.94,4.49	2.68,5.06	2.87,4.53		
	n	11	9	20		
	Nmiss	0	0	0		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.5.2 HOMA-IR - Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
HOMA - visit 6	Mean	3.797	4.052	3.912		
	Median	3.542	3.907	3.723		
	SD	1.167	1.550	1.321		
	MIN,MAX	2.37,6.51	2.21,6.55	2.21,6.55		
	Q1,Q3	2.94,4.49	2.68,5.06	2.87,4.53		
	n	11	9	20		
	Nmiss	0	0	0		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations HOMA-IR was calculated using the following formula: HOMA-IR (units) = (glucose x insulin / 22.5)

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.6.1 Calculated Z score (*) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Number of patients in substudy-CLAMP (n)	Yes	11	9	20	
Z-score for birth weight centile_CLAMP	Mean	0.0123	1.2038	0.5140	
	Median	0.1565	1.2843	0.3786	
	SD	0.9957	1.0711	1.1672	
	MIN,MAX	-1.834,1.815	-0.742,2.711	-1.834,2.711	
	Q1,Q3	-0.370,0.501	0.662,1.885	0.044,1.624	
	n	11	8	19	
	Nmiss	0	0	0	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations (*) Patient 11551 has been excluded from the summary

Section 2. Hyperinsulinaemic euglycaemic clamp study 2.6.2 Calculated Z score - Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Mett	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
									÷.	(1111)	1
z-score_CLAMP - itt	0.012	0.2930	11	1.204	0.3436	8	1.192	0.239	2.144	6.962	0.0172

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 By: Summary statistics are presented in table 2.6.1 of this report. Patient 11551 has been excluded from the analysis Outcome analysed using a linear regression model. Significance level set at p<0.05 Estimated mean represents the means for the z score by allocated treatment, SE represents standard error of the estimated mean and N represents number of observations *Represents the difference between the estimated means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_2_6_primary_outcome_z_analysis_CLAMP.lst' Parameter shown normal behavior

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.1.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-Endothe (n)	Yes	15	16	31
Maternal Age at consent (years)	Mean	31.5	27.3	29.3
	Median	32.0	26.0	31.0
	SD	4.4	6.1	5.7
	MIN,MAX	22,38	19,38	19,38
	Q1,Q3	29,34	22,32	25,34
	n	15	16	31
	Nmiss	0	0	0

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.1.2 Maternal smoking Status at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Smoking Status (n(%))	ACTIVE	1 (6.7)	3 (18.8)	4 (12.9)		
	NOT SMOKING	14 (93.3)	13 (81.3)	27 (87.1)		

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.1.3 Maternal Blood Pressure at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Maternal Systolic BP (mmHg)	Mean	121.7	117.3	119.4	
	Median	120.0	120.0	120.0	
	SD	10.8	9.7	10.3	
	MIN,MAX	108,140	100,134	100,140	
	Q1,Q3	110,130	110,125	110,126	
	n	15	16	31	
	Nmiss	0	0	0	
Maternal Diastolic BP (mmHg)	Mean	69.1	69.1	69.1	
	Median	68.0	70.0	70.0	
	SD	7.3	9.5	8.3	
	MIN,MAX	60,80	54,84	54,84	
	Q1,Q3	64,76	60,78	60,78	
	n	15	16	31	
	Nmiss	0	0	0	

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
PARITY1 (n(%))	0	7 (46.7)	11 (68.8)	18 (58.1)			
	=>1	8 (53.3)	5 (31.3)	13 (41.9)			

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	38.4	37.7	38.1
	Median	38.5	35.1	37.5
	SD	4.9	5.7	5.2
	MIN,MAX	30,48	30,47	30,48
	Q1,Q3	35,42	34,44	34,42
	n	15	16	31
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 6	Mean	40.9	40.1	40.5
	Median	41.1	39.4	40.4
	SD	4.5	5.5	4.9
	MIN,MAX	33,51	32,48	32,51
	Q1,Q3	38,44	36,45	37,44
	n	15	13	28
	Nmiss	0	3	3
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.5	1.7	2.1
	Median	2.2	1.6	1.9
	SD	1.6	2.0	1.8
	MIN,MAX	0,5	-2,6	-2,6
	Q1,Q3	1,4	1,3	1,3
	n	15	13	28
	Nmiss	0	3	3

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 9	Mean	38.4	37.1	37.8
	Median	39.6	36.2	38.7
	SD	3.6	6.2	4.9
	MIN,MAX	29,43	29,47	29,47
	Q1,Q3	36,40	32,43	36,40
	n	13	11	24
	Nmiss	2	5	7
Calculated BMI (kg/m^2) change V9 baseli	Mean	-0.1	-1.4	-0.7
	Median	-0.8	-1.3	-0.9
	SD	2.5	2.6	2.6
	MIN,MAX	-5,5	-7,1	-7,5
	Q1,Q3	-1,1	-3,1	-2,1
	n	13	11	24
	Nmiss	2	5	7

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 1 (days)	Mean	88.0	86.7	87.3
	Median	87.0	88.5	88.0
	SD	11.2	14.9	13.0
	MIN,MAX	72,105	60,109	60,109
	Q1,Q3	78,99	77,98	78,99
	n	15	16	31
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	99.1	99.1	99.1
	Median	98.0	99.5	99.0
	SD	7.4	8.1	7.6
	MIN,MAX	91,111	86,111	86,111
	Q1,Q3	92,104	93,107	92,106
	n	15	16	31
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	100.5	99.9	100.2
	Median	100.0	100.0	100.0
	SD	7.2	7.8	7.4
	MIN,MAX	92,112	86,111	86,112
	Q1,Q3	93,108	95,108	93,108
	n	15	16	31
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	152.9	142.9	147.7
	Median	144.5	141.0	143.0
	SD	29.1	8.0	21.2
	MIN,MAX	137,252	134,166	134,252
	Q1,Q3	142,149	138,145	141,145
	n	14	15	29
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	197.4	196.2	196.8
	Median	198.0	195.5	196.5
	SD	4.8	4.4	4.6
	MIN,MAX	189,204	190,206	189,206
	Q1,Q3	195,202	193,198	194,201
	n	14	14	28
	Nmiss	1	2	3
Calculated* Gestation - Visit 6 (days)	Mean	253.1	253.0	253.1
	Median	252.0	254.0	253.5
	SD	3.4	5.9	4.6
	MIN,MAX	248,259	240,260	240,260
	Q1,Q3	251,255	251,256	251,256
	n	15	13	28
	Nmiss	0	3	3

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	281.6	279.0	280.3
	Median	281.0	279.0	280.0
	SD	5.4	2.4	4.2
	MIN,MAX	275,288	275,281	275,288
	Q1,Q3	278,286	279,281	278,281
	n	5	5	10
	Nmiss	10	11	21
Calculated* Gestation - Visit 8 (days)	Mean	278.2	277.0	277.6
	Median	281.0	280.5	281.0
	SD	10.5	17.7	14.5
	MIN,MAX	260,291	216,294	216,294
	Q1,Q3	273,287	274,287	273,287
	n	15	16	31
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 3.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	277.4	276.1	276.7
	Median	277.0	278.0	277.0
	SD	10.2	16.5	13.6
	MIN,MAX	260,291	219,290	219,291
	Q1,Q3	272,286	274,286	272,286
	n	15	16	31
	Nmiss	0	0	0
Coded R_gestation - Visit 8 (n(%))	>24 and <=37 WEEKS	0	1 (6.3)	1 (3.2)
	>37 WEEKS	15 (100)	15 (93.8)	30 (96.8)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 4. Magnetic resonance studies 4.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-MRI (n)	Yes	30	27	57
Maternal Age at consent (years)	Mean	29.4	30.1	29.7
	Median	29.0	31.0	30.0
	SD	4.5	5.5	5.0
	MIN,MAX	21,37	19,39	19,39
	Q1,Q3	26,33	26,35	26,33
	n	30	27	57
	Nmiss	0	0	0

Section 4. Magnetic resonance studies 4.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) - Demographics and Lifestyle Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
PARITY1 (n(%))	0	11 (36.7)	11 (40.7)	22 (38.6)	
	=>1	19 (63.3)	16 (59.3)	35 (61.4)	

Section 4. Magnetic resonance studies 4.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	38.2	39.4	38.7
	Median	37.5	38.7	38.2
	SD	5.6	4.7	5.2
	MIN,MAX	30,56	31,47	30,56
	Q1,Q3	35,41	36,44	36,42
	n	30	27	57
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 4.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 6	Mean	40.3	41.4	40.8
	Median	40.6	40.2	40.4
	SD	5.4	4.3	4.9
	MIN,MAX	32,56	35,48	32,56
	Q1,Q3	37,43	38,45	37,43
	n	29	23	52
	Nmiss	1	4	5
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.1	1.8	2.0
	Median	1.8	1.7	1.8
	SD	1.7	1.7	1.7
	MIN,MAX	-0,7	-2,6	-2,7
	Q1,Q3	1,3	1,3	1,3
	n	29	23	52
	Nmiss	1	4	5

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 3. Endothelial function Effect of metformin on flow-mediated dilatation 4.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 9	Mean	38.0	39.0	38.5
	Median	39.0	38.0	38.8
	SD	4.0	4.6	4.3
	MIN,MAX	29,44	33,49	29,49
	Q1,Q3	35,40	36,40	36,40
	n	23	21	44
	Nmiss	7	6	13
Calculated BMI (kg/m^2) change V9 baseli	Mean	-0.6	-1.0	-0.8
	Median	-0.8	-1.1	-0.9
	SD	2.0	2.3	2.1
	MIN,MAX	-5,3	-7,4	-7,4
	Q1,Q3	-2,1	-2,0	-2,1
	n	23	21	44
	Nmiss	7	6	13

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 4. Magnetic resonance studies 4.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 1 (days)	Mean	89.8	89.1	89.5
	Median	89.0	89.0	89.0
	SD	13.4	11.9	12.6
	MIN,MAX	69,111	60,109	60,111
	Q1,Q3	77,102	84,98	81,99
	n	30	27	57
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	100.5	99.3	99.9
	Median	103.0	100.0	100.0
	SD	10.2	7.9	9.2
	MIN,MAX	78,112	85,111	78,112
	Q1,Q3	91,110	93,107	92,109
	n	30	27	57
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 4. Magnetic resonance studies 4.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	102.6	100.1	101.4
	Median	103.5	100.0	102.0
	SD	8.5	7.7	8.2
	MIN,MAX	87,113	85,112	85,113
	Q1,Q3	93,111	96,109	96,109
	n	30	27	57
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	146.7	144.0	145.4
	Median	145.0	141.0	143.5
	SD	7.8	8.5	8.2
	MIN,MAX	133,164	134,166	133,166
	Q1,Q3	142,151	139,149	140,151
	n	29	27	56
	Nmiss	1	0	1

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 4. Magnetic resonance studies 4.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	196.5	198.1	197.2
	Median	197.5	198.0	198.0
	SD	4.0	4.0	4.0
	MIN,MAX	189,202	190,206	189,206
	Q1,Q3	193,200	195,201	195,200
	n	30	27	57
	Nmiss	0	0	0
Calculated* Gestation - Visit 6 (days)	Mean	253.3	254.7	253.9
	Median	254.0	254.0	254.0
	SD	3.8	4.5	4.1
	MIN,MAX	244,259	243,264	243,264
	Q1,Q3	251,256	252,256	251,256
	n	29	26	55
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 4. Magnetic resonance studies 4.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	282.2	280.6	281.5
	Median	282.0	281.0	281.0
	SD	3.4	2.7	3.2
	MIN,MAX	275,288	275,285	275,288
	Q1,Q3	281,285	280,282	280,283
	n	13	10	23
	Nmiss	17	17	34
Calculated* Gestation - Visit 8 (days)	Mean	282.0	279.3	280.7
	Median	283.0	280.0	283.0
	SD	9.7	9.6	9.7
	MIN,MAX	257,294	250,294	250,294
	Q1,Q3	275,289	274,285	275,287
	n	30	27	57
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 4. Magnetic resonance studies 4.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	280.8	278.4	279.7
	Median	281.5	278.0	280.0
	SD	9.4	9.6	9.5
	MIN,MAX	256,294	247,293	247,294
	Q1,Q3	275,287	274,285	275,286
	n	30	27	57
	Nmiss	0	0	0
Coded R_gestation - Visit 8 (n(%))	>24 and <=37 WEEKS	1 (3.3)	1 (3.7)	2 (3.5)
	>37 WEEKS	29 (96.7)	26 (96.3)	55 (96.5)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 4. Magnetic resonance studies 4.5.1 Demographic characteristics of neonate Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Baby Gender (n(%))	Male	14 (46.7)	11 (40.7)	25 (43.9)
	Female	16 (53.3)	16 (59.3)	32 (56.1)
Birth weight (g)	Mean	3493.0	3596.1	3541.8
	Median	3450.0	3660.0	3500.0
	SD	512.4	494.7	502.3
	MIN,MAX	2400,4520	2730,4490	2400,4520
	Q1,Q3	3020,3850	3260,3820	3190,3850
	n	30	27	57
	Nmiss	0	0	0

Section 4. Magnetic resonance studies 4.5.2 Demographic characteristics of neonate (Cont.) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Birth weight centile	Mean	51.724	63.415	57.262
	Median	52.903	66.692	57.844
	SD	29.619	25.839	28.266
	MIN,MAX	3.34,98.13	8.88,98.51	3.34,98.51
	Q1,Q3	28.70,78.37	39.55,84.52	35.36,82.48
	n	30	27	57
	Nmiss	0	0	0
Split Birth weight Centile (n(%))	>3rd and <=5th	1 (3.3)	0	1 (1.8)
	>5th and <=10th	3 (10.0)	1 (3.7)	4 (7.0)
	>10th and <=90th	22 (73.3)	20 (74.1)	42 (73.7)
	>90th and <=95th	1 (3.3)	3 (11.1)	4 (7.0)
	>95th and <=97th	2(6.7)	1 (3.7)	3 (5.3)
	>97th	1 (3.3)	2(7.4)	3 (5.3)

Section 4. Magnetic resonance studies 4.6.1 Anthropometry of neonate - Ponderal index# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Baby ponderal index*-V8	Mean	3.44	2.60	3.04
	Median	2.42	2.57	2.54
	SD	4.59	0.32	3.32
	MIN,MAX	2.1,24.9	1.9,3.2	1.9,24.9
	Q1,Q3	2.3,2.6	2.5,2.8	2.4,2.8
	n	24	22	46
	Nmiss	6	5	11
Baby ponderal index*-V9	Mean	2.61	2.56	2.59
	Median	2.53	2.60	2.56
	SD	0.26	0.26	0.26
	MIN,MAX	2.1,3.2	2.2,2.9	2.1,3.2
	Q1,Q3	2.4,2.8	2.3,2.8	2.4,2.8
	n	24	22	46
	Nmiss	6	5	11

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Ponderal index was calculated using the following formula: (100*(baby_weight_in_g))/((baby_lenght_in_cm)^3) #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 4. Magnetic resonance studies 4.6.2 Anthropometry of neonate - Baby Skinfold Triceps* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Baby Skinfold Triceps(mm)-V8	Mean	11.38	8.30	9.84
	Median	8.00	8.00	8.00
	SD	18.08	2.46	12.84
	MIN,MAX	4.5,90.0	5.2,14.0	4.5,90.0
	Q1,Q3	6.0,9.0	6.5,10.0	6.0,9.0
	n	21	21	42
	Nmiss	9	6	15
Baby Skinfold Triceps(mm)-V9	Mean	12.87	11.00	12.00
	Median	12.00	10.70	11.00
	SD	3.92	3.68	3.88
	MIN,MAX	7.5,19.0	6.0,24.0	6.0,24.0
	Q1,Q3	9.5,17.0	10.0,12.0	10.0,14.0
	n	23	20	43
	Nmiss	7	7	14

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 4. Magnetic resonance studies 4.6.3 Anthropometry of neonate - Baby Skinfold Subscapular* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Baby Skinfold Subscapular(mm)-V8	Mean	10.06	7.11	8.59
	Median	7.00	7.00	7.00
	SD	13.94	2.33	9.98
	MIN,MAX	4.5,70.0	4.0,12.0	4.0,70.0
	Q1,Q3	5.0,8.0	6.0,8.0	5.0,8.0
	n	21	21	42
	Nmiss	9	6	15
Baby Skinfold Subscapular(mm)-V9	Mean	9.80	9.68	9.74
	Median	9.00	9.00	9.00
	SD	3.18	2.89	3.01
	MIN,MAX	6.0,19.0	7.0,20.0	6.0,20.0
	Q1,Q3	7.5,11.5	8.0,11.0	8.0,11.0
	n	22	20	42
	Nmiss	8	7	15

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 4. Magnetic resonance studies 4.6.4 Anthropometry of neonate - Baby Fat %* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
BABY FAT (%)-V8	Mean	12.53	12.63	12.58
	Median	10.90	12.30	12.30
	SD	5.68	4.27	4.90
	MIN,MAX	2.1,24.3	5.7,19.6	2.1,24.3
	Q1,Q3	8.1,17.1	10.0,15.9	8.5,16.1
	n	15	17	32
	Nmiss	15	10	25
BABY FAT (%)-V9	Mean	25.80	23.73	24.85
	Median	25.70	24.50	25.30
	SD	6.02	6.01	6.02
	MIN,MAX	15.1,41.6	12.1,32.3	12.1,41.6
	Q1,Q3	22.2,29.0	19.6,27.9	20.9,29.0
	n	21	18	39
	Nmiss	9	9	18

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 5. Saliva Samples 5.1.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
number of patients in substudy-SALIVA (n)	Yes	121	114	235
Maternal Age at consent (years)	Mean	29.9	29.1	29.5
	Median	30.0	29.0	29.0
	SD	5.0	5.6	5.3
	MIN,MAX	20,41	18,42	18,42
	Q1,Q3	26,34	25,33	25,33
	n	121	114	235
	Nmiss	0	0	0

Section 5. Saliva Samples 5.1.2 Maternal smoking Status at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Smoking Status (n(%))	ACTIVE	9(7.4)	15 (13.2)	24 (10.2)
	PREVIOUSLY	6 (5.0)	5(4.4)	11 (4.7)
	NOT SMOKING	106 (87.6)	94 (82.5)	200 (85.1)

Section 5. Saliva Samples 5.1.3 Maternal Education Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Educational Qualifications (n(%))	No formal qualifications	7 (5.8)	5 (4.4)	12 (5.1)
	Entry level certification/foundation diploma	3 (2.5)	6 (5.3)	9 (3.8)
	GCSE, Standard grade, "O" grades	31 (25.6)	20 (17.5)	51 (21.7)
	A level, A/S level, Highers or BTEC Dip/Cert.	29 (24.0)	15 (13.2)	44 (18.7)
	Cert. higher Education, City & Guilds	9(7.4)	9 (7.9)	18 (7.7)
	Diploma HE/FE or HND/HNC	11 (9.1)	18 (15.8)	29 (12.3)
	Graduate certificate or Diploma	3 (2.5)	7 (6.1)	10 (4.3)
	Degree	18 (14.9)	27 (23.7)	45 (19.1)
	Professional Qualification	3 (2.5)	2 (1.8)	5 (2.1)
	PGCE/Postgraduate certificate or Diploma, Masters. Doctorate	7 (5.8)	5(4.4)	12 (5.1)
Educational Qualifications coded (n(%))	None	7 (5.8)	5(4.4)	12 (5.1)
	School up to 16 years	34 (28.1)	26 (22.8)	60 (25.5)
	School 16 to 18 years	38 (31.4)	24 (21.1)	62 (26.4)
	College or Uni degree or Higher	42 (34.7)	59 (51.8)	101 (43.0)

Section 5. Saliva Samples 5.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
PARITY1 (n(%))	0	50 (41.3)	52 (45.6)	102 (43.4)	
	=>1	71 (58.7)	62 (54.4)	133 (56.6)	

Section 5. Saliva Samples 5.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	36.9	37.5	37.2
	Median	36.1	36.8	36.3
	SD	5.0	5.2	5.1
	MIN,MAX	30,53	30,57	30,57
	Q1,Q3	33,40	34,41	33,40
	n	121	114	235
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 5. Saliva Samples

5.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 6	Mean	39.5	40.1	39.8
	Median	38.7	39.2	38.8
	SD	5.2	5.1	5.2
	MIN,MAX	32,54	32,55	32,55
	Q1,Q3	35,42	36,43	36,43
	n	101	86	187
	Nmiss	20	28	48
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.8	2.3	2.5
	Median	2.6	2.2	2.5
	SD	1.9	2.1	2.0
	MIN,MAX	-3,7	-2,12	-3,12
	Q1,Q3	2,4	1,3	1,3
	n	101	86	187
	Nmiss	20	28	48

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 5. Saliva Samples

5.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 9	Mean	36.7	38.1	37.4
	Median	36.4	37.4	36.9
	SD	4.5	5.8	5.2
	MIN,MAX	29,52	29,61	29,61
	Q1,Q3	34,40	33,42	33,40
	n	83	84	167
	Nmiss	38	30	68
Calculated BMI (kg/m^2) change V9 baseli	Mean	0.3	0.2	0.2
	Median	-0.0	-0.2	-0.1
	SD	2.1	3.5	2.9
	MIN,MAX	-5,5	-5,25	-5,25
	Q1,Q3	-1,2	-1,1	-1,1
	n	83	84	167
	Nmiss	38	30	68

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 5. Saliva Samples

5.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 1 (days)	Mean	86.7	86.4	86.5
	Median	86.0	88.0	88.0
	SD	13.3	13.7	13.5
	MIN,MAX	51,111	51,110	51,111
	Q1,Q3	80,96	82,95	80,96
	n	121	114	235
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	99.7	99.9	99.8
	Median	102.0	100.0	101.0
	SD	8.8	7.7	8.2
	MIN,MAX	74,112	75,112	74,112
	Q1,Q3	93,107	94,107	93,107
	n	121	114	235
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 5. Saliva Samples

5.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	101.5	101.4	101.5
	Median	103.0	102.0	102.0
	SD	8.3	6.9	7.6
	MIN,MAX	84,118	85,112	84,118
	Q1,Q3	95,108	97,108	96,108
	n	121	114	235
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	142.5	140.2	141.4
	Median	141.0	140.0	141.0
	SD	11.0	10.0	10.6
	MIN,MAX	125,198	114,200	114,200
	Q1,Q3	137,146	134,143	137,145
	n	116	111	227
	Nmiss	5	3	8

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 5. Saliva Samples

5.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	197.6	197.7	197.6
	Median	198.0	198.0	198.0
	SD	4.8	5.5	5.1
	MIN,MAX	185,217	167,217	167,217
	Q1,Q3	195,200	196,201	195,200
	n	117	106	223
	Nmiss	4	8	12
Calculated* Gestation - Visit 6 (days)	Mean	253.1	253.0	253.1
	Median	253.0	253.0	253.0
	SD	4.3	5.0	4.6
	MIN,MAX	241,263	234,264	234,264
	Q1,Q3	251,256	250,256	251,256
	n	104	93	197
	Nmiss	17	21	38

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 5. Saliva Samples 5.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	279.1	280.2	279.6
	Median	276.0	278.0	278.0
	SD	17.9	23.2	20.6
	MIN,MAX	262,414	250,419	250,419
	Q1,Q3	273,281	274,280	274,280
	n	71	68	139
	Nmiss	50	46	96
Calculated* Gestation - Visit 8 (days)	Mean	281.9	276.1	279.1
	Median	281.0	280.0	281.0
	SD	16.8	21.2	19.2
	MIN,MAX	209,375	143,306	143,375
	Q1,Q3	274,289	271,286	273,287
	n	120	112	232
	Nmiss	1	2	3

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 5. Saliva Samples 5.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	277.6	275.0	276.4
	Median	278.0	278.0	278.0
	SD	11.8	18.1	15.2
	MIN,MAX	211,298	143,297	143,298
	Q1,Q3	272,287	271,285	271,286
	n	121	111	232
	Nmiss	0	3	3
Coded R_gestation - Visit 8 (n(%))	Missing	0	3	3
	<= 24 WEEKS	0	1 (0.9)	1 (0.4)
	>24 and <=37 WEEKS	5(4.1)	10 (9.0)	15 (6.5)
	>37 WEEKS	116 (95.9)	100 (90.1)	216 (93.1)

 $\label{eq:emperature} EMPOWaR \ Statistical \ Analysis \ Report \ MECHANISTIC \ PAPER \ - \ Final \ 02 \ - \ tables \ run \ on: \ 05MAR2016 \ at \ 03:54 \ N \ = \ number \ of \ patients \ randomised, \ n \ = \ the \ number \ of \ observations, \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ Nmiss \ = \ number \ of \ missing \ observations \ number \ of \ missing \ number \ of \ missing \ observations \ number \ of \ missing \ observations \ number \ number \ of \ missing \ missin$ *Actual recorded value

Section 5. Saliva Samples 5.5.1.1 Saliva Free Cortisol (SFC) at Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V2 BEDTIME	Mean	2.2314	1.9952	2.1167		
	Median	0.9690	1.1340	1.0750		
	SD	8.0296	2.3755	5.9796		
	MIN,MAX	0.358,77.820	0.338,12.481	0.338,77.820		
	Q1,Q3	0.680,1.320	0.784,1.983	0.732,1.570		
	n	107	101	208		
	Nmiss	0	0	0		
SFC V2 WAKING	Mean	9.0267	6.3600	7.7318		
	Median	5.8280	5.6950	5.7775		
	SD	24.5826	3.8566	17.8443		
	MIN,MAX	0.638,258.56	0.714,19.996	0.638,258.56		
	Q1,Q3	4.605,8.363	3.731,9.012	4.160,8.657		
	n	107	101	208		
	Nmiss	0	0	0		

Section 5. Saliva Samples

5.5.1.2 Saliva Free Cortisol (SFC) at Visit 2 Consent/Baseline (10-16 Weeks) - Difference Bedtime-Awake Population = Intention to treat (ITT) - Allocated Treatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V2 DIFF bedtime to awake	Mean	-6.7953	-4.3649	-5.6151		
	Median	-4.8610	-4.5830	-4.6875		
	SD	22.4869	5.1146	16.5244		
	MIN,MAX	-227.2,53.343	-17.27,11.642	-227.2,53.343		
	Q1,Q3	-7.169,-3.321	-7.489,-2.450	-7.181,-2.953		
	n	107	101	208		
	Nmiss	0	0	0		

Section 5. Saliva Samples 5.5.2.1 Saliva Free Cortisol (SFC) at Visit 5 (28 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V5 BEDTIME	Mean	3.1661	2.0399	2.5805		
	Median	1.9545	1.7570	1.8555		
	SD	3.9816	1.5810	3.0222		
	MIN,MAX	1.120,23.885	0.838,12.126	0.838,23.885		
	Q1,Q3	1.645,2.835	1.457,2.082	1.531,2.353		
	n	48	52	100		
	Nmiss	0	1	1		
SFC V5 WAKING	Mean	8.6792	9.2571	8.9797		
	Median	8.7065	8.4330	8.5250		
	SD	6.9342	4.2930	5.6926		
	MIN,MAX	0.986,47.022	2.401,26.293	0.986,47.022		
	Q1,Q3	4.221,10.426	6.325,11.388	6.023,11.271		
	n	48	52	100		
	Nmiss	0	1	1		

Section 5. Saliva Samples

5.5.2.2 Saliva Free Cortisol (SFC) at Visit 5 (28 Weeks)- Difference Bedtime-Awake Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V5 DIFF bedtime to awake	Mean	-5.5131	-7.2172	-6.3992		
	Median	-6.2640	-6.6210	-6.4945		
	SD	7.8224	3.7307	6.0788		
	MIN,MAX	-43.79,14.895	-18.29,-0.540	-43.79,14.895		
	Q1,Q3	-8.158,-2.400	-9.697,-4.488	-8.984,-4.175		
	n	48	52	100		
	Nmiss	0	1	1		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 5. Saliva Samples 5.5.3.1 Saliva Free Cortisol (SFC) at Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V6 BEDTIME	Mean	3.3966	2.9771	3.1732		
	Median	2.5890	2.3480	2.3720		
	SD	3.1531	1.8249	2.5250		
	MIN,MAX	1.562,20.063	1.500,8.688	1.500,20.063		
	Q1,Q3	2.084,3.361	2.071,2.975	2.078,3.163		
	n	36	41	77		
	Nmiss	0	0	0		
SFC V6 WAKING	Mean	8.8989	8.7360	8.8122		
	Median	8.2175	7.9910	8.2100		
	SD	4.1708	4.8077	4.4926		
	MIN,MAX	2.948,21.496	1.918,32.084	1.918,32.084		
	Q1,Q3	5.940,10.071	6.011,10.407	6.008,10.283		
	n	36	41	77		
	Nmiss	0	0	0		

Section 5. Saliva Samples

5.5.3.2 Saliva Free Cortisol (SFC) at Visit 6 (36 Weeks)- Difference Bedtime-Awake Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
SFC V6 DIFF bedtime to awake	Mean	-5.5023	-5.7590	-5.6390		
	Median	-4.8690	-5.5540	-5.3730		
	SD	3.6587	5.6015	4.7640		
	MIN,MAX	-14.23,0.373	-29.06,6.770	-29.06,6.770		
	Q1,Q3	-7.566,-2.889	-7.568,-3.665	-7.568,-3.300		
	n	36	41	77		
	Nmiss	0	0	0		

Section 5. Saliva Samples

5.5.4 Saliva Free Cortisol (SFC) Differences Bedtime-Awake Statistical Analysis by timepoint Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	icebo		Meti	formin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower Cl*	Estimated Mean Difference Upper Cl*	Statistic (t-test)	p-value
SA_2V_DIF_log - itt	5.484	0.0170	107	5.507	0.0173	101	0.023	-0.022	0.069	1.031	0.3111
SA_5V_DIF_log - itt	5.495	0.0040	48	5.489	0.0037	52	-0.006	-0.016	0.004	1.509	0.2223
SA_6V_DIF_log - itt	5.499	0.0036	36	5.498	0.0032	41	-0.001	-0.010	0.008	0.080	0.7780

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 Summary statistics are presented in tables 5.5.1 to 5.5.3 of this report Outcome analysed using a linear regression model, ajusted by BMI band. Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment, SE represents standard error of the estimated log transformed means and N represents number of observations *Represents the difference between estimated log transformed means and CI Represents the 95% confidence interval Calculations and detailed analysis are presented in study file 'Empowar_5_5_SALIVA_LABS_ANALYSIS.Ist' All parameters shown normal or near-normal behavior

Section 6. Placental biopsies 6.1.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-PLACENTATISSUE (n)	Yes	64	61	125
Maternal Age at consent (years)	Mean	29.2	29.7	29.4
	Median	29.0	30.0	29.0
	SD	5.5	5.3	5.4
	MIN,MAX	21,41	19,40	19,41
	Q1,Q3	24,33	25,34	25,34
	n	64	61	125
	Nmiss	0	0	0

Section 6. Placental biopsies 6.1.2 Maternal smoking Status at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Smoking Status (n(%))	ACTIVE	7 (10.9)	10 (16.4)	17 (13.6)		
	PREVIOUSLY	2(3.1)	2 (3.3)	4 (3.2)		
	NOT SMOKING	55 (85.9)	49 (80.3)	104 (83.2)		

Section 6. Placental biopsies 6.1.3 Maternal Education Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Educational Qualifications (n(%))	No formal qualifications	4 (6.3)	4 (6.6)	8 (6.4)
	Entry level certification/foundation diploma	1 (1.6)	3 (4.9)	4 (3.2)
	GCSE, Standard grade, "O" grades	15 (23.4)	6 (9.8)	21 (16.8)
	A level, A/S level, Highers or BTEC Dip/Cert.	13 (20.3)	7 (11.5)	20 (16.0)
	Cert. higher Education, City & Guilds	5 (7.8)	6 (9.8)	11 (8.8)
	Diploma HE/FE or HND/HNC	9 (14.1)	11 (18.0)	20 (16.0)
	Graduate certificate or Diploma	2 (3.1)	4 (6.6)	6 (4.8)
	Degree	12 (18.8)	19 (31.1)	31 (24.8)
	PGCE/Postgraduate certificate or Diploma, Masters. Doctorate	3 (4.7)	1 (1.6)	4 (3.2)
Educational Qualifications coded (n(%))	None	4 (6.3)	4 (6.6)	8 (6.4)
	School up to 16 years	16 (25.0)	9 (14.8)	25 (20.0)
	School 16 to 18 years	18 (28.1)	13 (21.3)	31 (24.8)
	College or Uni degree or Higher	26 (40.6)	35 (57.4)	61 (48.8)

Section 6. Placental biopsies 6.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
PARITY1 (n(%))	0	22 (34.4)	27 (44.3)	49 (39.2)	
	=>1	42 (65.6)	34 (55.7)	76 (60.8)	

Section 6. Placental biopsies

6.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	37.0	38.3	37.6
	Median	36.1	38.2	36.7
	SD	5.2	5.3	5.2
	MIN,MAX	30,53	30,51	30,53
	Q1,Q3	33,41	34,42	33,41
	n	64	61	125
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Placental biopsies 6.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Calculated BMI (kg/m^2) at Visit 6	Mean	39.1	40.3	39.7		
	Median	37.8	39.4	38.9		
	SD	4.8	5.1	5.0		
	MIN,MAX	31,53	32,51	31,53		
	Q1,Q3	36,42	37,45	36,43		
	n	55	55	110		
	Nmiss	9	6	15		
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.2	2.0	2.1		
	Median	2.2	2.0	2.1		
	SD	1.6	1.8	1.7		
	MIN,MAX	-3,6	-2,7	-3,7		
	Q1,Q3	2,3	1,3	1,3		
	n	55	55	110		
	Nmiss	9	6	15		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Placental biopsies

6.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention					
Parameter(s)	Categories	Placebo	Metformin	Overall		
Calculated BMI (kg/m^2) at Visit 9	Mean	36.9	38.0	37.5		
	Median	36.1	37.3	37.0		
	SD	4.6	6.2	5.5		
	MIN,MAX	28,48	29,61	28,61		
	Q1,Q3	34,40	33,42	34,40		
	n	48	53	101		
	Nmiss	16	8	24		
Calculated BMI (kg/m^2) change V9 baseli	Mean	-0.3	-0.1	-0.2		
	Median	-0.6	-0.7	-0.6		
	SD	2.3	4.2	3.4		
	MIN,MAX	-5,5	-7,25	-7,25		
	Q1,Q3	-2,1	-2,1	-2,1		
	n	48	53	101		
	Nmiss	16	8	24		

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 6. Placental biopsies

6.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Allocated_Intervention				
Categories	Placebo	Metformin	Overall	
Mean	83.8	84.5	84.1	
Median	84.0	85.0	85.0	
SD	13.9	14.4	14.1	
MIN,MAX	51,109	51,109	51,109	
Q1,Q3	74,95	76,94	74,94	
n	64	61	125	
Nmiss	0	0	0	
Mean	100.1	100.0	100.0	
Median	103.5	100.0	102.0	
SD	9.6	7.7	8.7	
MIN,MAX	71,112	82,111	71,112	
Q1,Q3	95,108	94,107	94,108	
n	64	61	125	
Nmiss	0	0	0	
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 83.8 Median 84.0 SD 13.9 MIN,MAX 51,109 Q1,Q3 74,95 n 64 Nmiss 0 Median 100.1 Median 103.5 SD 9.6 MIN,MAX 71,112 Q1,Q3 95,108 n 64	Categories Placebo Metformin Mean 83.8 84.5 Median 84.0 85.0 SD 13.9 14.4 MIN,MAX 51,109 51,109 Q1,Q3 74,95 76,94 n 64 61 Nmiss 0 0 Hedian 100.1 100.0 Median 103.5 100.0 SD 9.6 7.7 MIN,MAX 71,112 82,111 Q1,Q3 95,108 94,107 n 64 61	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 6. Placental biopsies

6.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Calculated* Gestation - Visit 3 (days)	Mean	102.2	101.6	101.9	
	Median	105.5	103.0	104.0	
	SD	8.1	7.1	7.6	
	MIN,MAX	84,112	85,112	84,112	
	Q1,Q3	97,108	96,108	97,108	
	n	64	61	125	
	Nmiss	0	0	0	
Calculated* Gestation - Visit 4 (days)	Mean	142.8	138.9	140.8	
	Median	140.0	140.0	140.0	
	SD	19.7	6.7	14.8	
	MIN,MAX	108,252	126,166	108,252	
	Q1,Q3	133,145	134,142	133,144	
	n	61	61	122	
	Nmiss	3	0	3	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 6. Placental biopsies 6.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Calculated* Gestation - Visit 5 (days)	Mean	198.2	197.6	197.9	
	Median	198.0	197.0	197.0	
	SD	10.6	5.5	8.5	
	MIN,MAX	189,275	167,208	167,275	
	Q1,Q3	195,200	196,201	196,200	
	n	63	60	123	
	Nmiss	1	1	2	
Calculated* Gestation - Visit 6 (days)	Mean	253.9	252.8	253.3	
	Median	254.0	253.0	253.0	
	SD	3.6	3.8	3.7	
	MIN,MAX	246,263	240,261	240,263	
	Q1,Q3	252,256	251,254	251,256	
	n	58	57	115	
	Nmiss	6	4	10	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 6. Placental biopsies 6.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Calculated* Gestation - Visit 7 (days)	Mean	277.2	279.4	278.3	
	Median	276.0	276.5	276.0	
	SD	7.2	19.6	14.6	
	MIN,MAX	256,298	263,393	256,393	
	Q1,Q3	273,282	273,280	273,281	
	n	39	38	77	
	Nmiss	25	23	48	
Calculated* Gestation - Visit 8 (days)	Mean	279.3	278.7	279.0	
	Median	279.5	280.0	280.0	
	SD	10.7	9.6	10.1	
	MIN,MAX	257,305	254,298	254,305	
	Q1,Q3	273,288	271,285	272,287	
	n	64	61	125	
	Nmiss	0	0	0	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 6. Placental biopsies 6.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Recorded* Gestation - Visit 8 (days)	Mean	277.5	277.6	277.6	
	Median	277.0	278.0	277.0	
	SD	9.4	9.6	9.5	
	MIN,MAX	256,294	253,297	253,297	
	Q1,Q3	272,285	271,284	271,284	
	n	64	61	125	
	Nmiss	0	0	0	
Coded R_gestation - Visit 8 (n(%))	>24 and <=37 WEEKS	2(3.1)	3 (4.9)	5 (4.0)	
	>37 WEEKS	62 (96.9)	58 (95.1)	120 (96.0)	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 6. Placental biopsies 6.5.1 Delivery Details - alive births Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall	
Delivery Method (n(%))	Spontaneous vaginal delivery	34 (53.1)	34 (55.7)	68 (54.4)	
	LSCS in labour	10 (15.6)	7 (11.5)	17 (13.6)	
	LSCS pre labour	17 (26.6)	13 (21.3)	30 (24.0)	
	Forceps/ventouse	3 (4.7)	7 (11.5)	10 (8.0)	
C-SECTION index pregnancy (n(%))	Yes	27 (42.2)	20 (32.8)	47 (37.6)	
	No	37 (57.8)	41 (67.2)	78 (62.4)	
Primary C-SECTION in index pregancy (n(%))	Yes	15 (23.4)	10 (16.4)	25 (20.0)	
	No	49 (76.6)	51 (83.6)	100 (80.0)	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 6. Placental biopsies 6.5.2 Delivery Outcome Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
Birth Outcome (n(%))	Live Birth	64 (100)	61 (100)	125 (100)			
Baby Gender (n(%))	Male	31 (48.4)	34 (55.7)	65 (52.0)			
	Female	33 (51.6)	27 (44.3)	60 (48.0)			

Section 6. Placental biopsies 6.6.1 GR_NR3C Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention						
Parameter(s)	Categories	Placebo	Metformin	Overall			
GR_NR3C1	Mean	0.8404	0.8088	0.8250			
	Median	0.7729	0.7208	0.7628			
	SD	0.4924	0.4367	0.4644			
	MIN,MAX	0.110,2.887	0.109,2.452	0.109,2.887			
	Q1,Q3	0.527,0.979	0.529,1.055	0.529,0.995			
	n	64	61	125			
	Nmiss	0	0	0			

Section 6. Placental biopsies 6.6.2 HSD1 and HSD2 Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention							
Parameter(s)	Categories	Placebo	Metformin	Overall				
HSD1	Mean	2.2783	2.4612	2.3675				
	Median	1.0648	1.3578	1.3066				
	SD	3.0948	3.2035	3.1369				
	MIN,MAX	0.037,18.376	0.067,17.556	0.037,18.376				
	Q1,Q3	0.531,2.866	0.597,3.057	0.562,2.911				
	n	64	61	125				
	Nmiss	0	0	0				
HSD2	Mean	4.2637	3.3163	3.8014				
	Median	1.4368	1.7528	1.6229				
	SD	7.2764	5.3983	6.4208				
	MIN,MAX	0.234,43.101	0.145,29.653	0.145,43.101				
	Q1,Q3	0.873,4.040	0.915,2.775	0.878,3.050				
	n	64	61	125				
	Nmiss	0	0	0				

Section 6. Placental biopsies

6.6.3 gr_nr3c1, hsd2 and hsd2 Statistical Analysis Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Pla	cebo		Metf	ormin						
Parameter(s)	Estimated Mean	SE	п	Estimated Mean	SE	п	Estimated Mean Difference*	Estimated Mean Difference Lower CI*	Estimated Mean Difference Upper CI*	Statistic (t-test)	p-value
gr_nr3c1_log - itt	-0.299	0.0775	64	-0.324	0.0792	61	-0.025	-0.236	0.187	0.053	0.8176
hsd1_log - itt	0.056	0.1666	64	0.189	0.1705	61	0.133	-0.322	0.589	0.336	0.5633
hsd2_log - itt	0.590	0.1367	64	0.433	0.1398	61	-0.157	-0.531	0.216	0.696	0.4059

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 Summary statistics are presented in tables 6.6.1 to 6.6.2 of this report Outcome analysed using a linear regression model, ajusted by BMI band and c-section index pregnancy (6.5.1). Significance level set at p<0.05 Estimated mean represents the adjusted means of the log transformed variable by allocated treatment,

SE represents standard error of the estimated log transformed means and N represents number of observations

*Represents the difference between estimated log transformed means and CI Represents the 95% confidence interval

Calculations and detailed analysis are presented in study file 'Empowar_6_6_PLACENTA_LABS_ANALYSIS.Ist'

All parameters shown normal or near-normal behavior

Section 7. Myometrial biopsies - Myometrial contractility 7.1.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-Myo_cont (n)	Yes	2	6	8
Maternal Age at consent (years)	Mean	34.5	27.7	29.4
	Median	34.5	28.0	29.5
	SD	7.8	4.3	5.6
	MIN,MAX	29,40	23,33	23,40
	Q1,Q3	29,40	23,31	25,32
	n	2	6	8
	Nmiss	0	0	0

Section 7. Myometrial biopsies - Myometrial contractility 7.1.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall	
PARITY1 (n(%))	0	0	4 (66.7)	4 (50.0)	
	=>1	2 (100)	2 (33.3)	4 (50.0)	

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = number of observations *Only pregnacies lasting at least 24 weeks or more were considered

Section 7. Myometrial biopsies - Myometrial contractility 7.1.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)*# Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	37.6	38.1	38.0
	Median	37.6	38.2	38.2
	SD	7.1	3.7	4.1
	MIN,MAX	33,43	32,43	32,43
	Q1,Q3	33,43	36,41	34,42
	n	2	6	8
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations #Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Myometrial biopsies - Myometrial contractility 7.1.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

-	Allocated_Ir	ntervention	
Categories	Placebo	Metformin	Overall
Mean	37.5	41.0	40.5
Median	37.5	41.4	40.4
SD		3.7	3.6
MIN,MAX	37,37	35,45	35,45
Q1,Q3	37,37	40,44	37,44
n	1	6	7
Nmiss	1	0	1
Mean	4.8	3.0	3.2
Median	4.8	2.2	2.2
SD		3.1	2.9
MIN,MAX	5,5	-1,7	-1,7
Q1,Q3	5,5	1,6	1,6
n	1	6	7
Nmiss	1	0	1
	Mean Median SD MIN,MAX Q1,Q3 n Nmiss Mean Median SD MIN,MAX Q1,Q3 n	Categories Placebo Mean 37.5 Median 37.5 SD . MIN,MAX 37,37 Q1,Q3 37,37 Q1,Q3 37,37 Nmiss 1 Mean 4.8 Median 4.8 SD . Min,MAX 5,5 Q1,Q3 5,55 n 1	Mean 37.5 41.0 Median 37.5 41.4 SD . 3.7 MIN,MAX 37,37 35,45 Q1,Q3 37,37 40,44 n 1 6 Nmiss 1 0 Mean 4.8 3.0 Median 4.8 2.2 SD . 3.1 MIN,MAX 5,5 -1,7 Q1,Q3 5,5 1,6 n 1 6

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Myometrial biopsies - Myometrial contractility 7.1.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 9	Mean	39.1	39.3	39.3
	Median	39.1	41.6	41.6
	SD	6.8	5.5	5.3
	MIN,MAX	34,44	30,44	30,44
	Q1,Q3	34,44	38,43	34,44
	n	2	5	7
	Nmiss	0	1	1
Calculated BMI (kg/m^2) change V9 baseli	Mean	1.4	1.5	1.5
	Median	1.4	-1.1	1.2
	SD	0.3	5.2	4.2
	MIN,MAX	1,2	-3,8	-3,8
	Q1,Q3	1,2	-2,6	-2,6
	n	2	5	7
	Nmiss	0	1	1

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Myometrial biopsies - Myometrial contractility 7.1.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 1 (days)	Mean	62.0	79.0	74.8
	Median	62.0	78.5	74.5
	SD	15.6	10.7	13.4
	MIN,MAX	51,73	68,97	51,97
	Q1,Q3	51,73	69,83	69,82
	n	2	6	8
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	90.5	92.5	92.0
	Median	90.5	95.5	95.0
	SD	6.4	5.9	5.6
	MIN,MAX	86,95	82,97	82,97
	Q1,Q3	86,95	89,96	88,96
	n	2	6	8
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 7. Myometrial biopsies - Myometrial contractility 7.1.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	93.5	100.0	98.4
	Median	93.5	98.0	97.5
	SD	4.9	8.4	7.9
	MIN,MAX	90,97	89,113	89,113
	Q1,Q3	90,97	96,106	93,102
	n	2	6	8
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	138.0	137.0	137.3
	Median	138.0	135.0	135.0
	SD	17.0	9.4	10.2
	MIN,MAX	126,150	126,148	126,150
	Q1,Q3	126,150	130,148	128,148
	n	2	6	8
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Myometrial contractility 7.1.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	195.0	193.3	193.8
	Median	195.0	196.0	195.5
	SD	0.0	14.1	12.0
	MIN,MAX	195,195	167,210	167,210
	Q1,Q3	195,195	194,197	195,197
	n	2	6	8
	Nmiss	0	0	0
Calculated* Gestation - Visit 6 (days)	Mean	254.0	255.7	255.4
	Median	254.0	252.5	253.0
	SD		6.0	5.5
	MIN,MAX	254,254	251,266	251,266
	Q1,Q3	254,254	252,260	252,260
	n	1	6	7
	Nmiss	1	0	1

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Myometrial contractility 7.1.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	275.0	393.0	334.0
	Median	275.0	393.0	334.0
	SD			83.4
	MIN,MAX	275,275	393,393	275,393
	Q1,Q3	275,275	393,393	275,393
	n	1	1	2
	Nmiss	1	5	6
Calculated* Gestation - Visit 8 (days)	Mean	274.5	275.8	275.5
	Median	274.5	272.5	273.5
	SD	0.7	7.9	6.7
	MIN,MAX	274,275	270,291	270,291
	Q1,Q3	274,275	271,278	272,277
	n	2	6	8
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Myometrial contractility 7.1.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	Allocated_Intervention			
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	274.0	272.5	272.9
	Median	274.0	271.0	272.5
	SD	1.4	3.7	3.2
	MIN,MAX	273,275	269,278	269,278
	Q1,Q3	273,275	270,276	270,276
	n	2	6	8
	Nmiss	0	0	0
Coded R_gestation - Visit 8 (n(%))	>37 WEEKS	2 (100)	6 (100)	8 (100)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 7. Myometrial biopsies - Myometrial contractility 7.1.5 Delivery Details - alive births Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Method (n(%))	Spontaneous vaginal delivery	0	1 (16.7)	1 (12.5)
	LSCS in labour	0	1 (16.7)	1 (12.5)
	LSCS pre labour	2 (100)	3 (50.0)	5 (62.5)
	Forceps/ventouse	0	1 (16.7)	1 (12.5)
C-SECTION index pregnancy (n(%))	Yes	2 (100)	4 (66.7)	6 (75.0)
	No	0	2 (33.3)	2 (25.0)
Primary C-SECTION in index pregancy (n(%))	Yes	0	3 (50.0)	3 (37.5)
	No	2 (100)	3 (50.0)	5 (62.5)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations

Section 7. Myometrial biopsies - Glycogen storage 7.2.1 Maternal Age at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Number of patients in substudy-Gly_sto (n)	Yes	17	11	28
Maternal Age at consent (years)	Mean	29.8	30.0	29.9
	Median	30.0	30.0	30.0
	SD	5.8	4.7	5.3
	MIN,MAX	20,40	23,36	20,40
	Q1,Q3	26,34	27,35	27,35
	n	17	11	28
	Nmiss	0	0	0

Section 7. Myometrial biopsies - Glycogen storage 7.2.2 Previous pregnacy status* PARITY 1 at Baseline - Visit 2 (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention				
Parameter(s)	Categories	Placebo	Metformin	Overall		
PARITY1 (n(%))	0	6 (35.3)	4 (36.4)	10 (35.7)		
	=>1	11 (64.7)	7 (63.6)	18 (64.3)		

Section 7. Myometrial biopsies - Glycogen storage 7.2.3.1 Maternal Calculated BMI at Visit 2 Consent/Baseline (10-16 Weeks)* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Intervention		
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 2	Mean	37.5	40.6	38.7
	Median	37.5	41.1	39.2
	SD	4.6	4.2	4.6
	MIN,MAX	31,45	32,47	31,47
	Q1,Q3	33,42	37,44	34,43
	n	17	11	28
	Nmiss	0	0	0

Section 7. Myometrial biopsies - Glycogen storage 7.2.3.2 Maternal Calculated BMI at Visit 6 (36 Weeks) and its change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

	-	Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated BMI (kg/m^2) at Visit 6	Mean	39.4	42.7	40.6
	Median	38.1	42.5	39.8
	SD	4.2	4.8	4.6
	MIN,MAX	34,47	35,51	34,51
	Q1,Q3	36,43	40,45	37,44
	n	16	9	25
	Nmiss	1	2	3
Calculated BMI (kg/m^2) change V6 baseli	Mean	2.1	2.1	2.1
	Median	2.0	2.0	2.0
	SD	1.9	2.5	2.1
	MIN,MAX	-3,5	-2,6	-3,6
	Q1,Q3	2,3	1,2	1,3
	n	16	9	25
	Nmiss	1	2	3

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Myometrial biopsies - Glycogen storage 7.2.3.3 Maternal Calculated BMI at Visit 9 (Final 3 months postnatal) and ist change from baseline* Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

Placebo 37.5 37.7 5.0 29,47 34,41 17 0	Metformin 39.2 40.1 4.0 30,44 38,42 8	Overall 38.1 38.5 4.7 29,47 34,41
37.7 5.0 29,47 34,41 17	40.1 4.0 30,44 38,42	38.5 4.7 29,47 34,41
5.0 29,47 34,41 17	4.0 30,44 38,42	4.7 29,47 34,41
29,47 34,41 17	30,44 38,42	29,47 34,41
34,41 17	38,42	34,41
17		
	8	25
0		25
0	3	3
0.0	-1.6	-0.5
-0.4	-1.2	-0.5
2.3	2.7	2.5
-4,5	-7,1	-7,5
-2,1	-3,0	-2,1
17	8	25
0	3	3
	2.3 -4,5 -2,1 17	2.3 2.7 -4,5 -7,1 -2,1 -3,0 17 8

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Data have been checked, innacuracies happened at time and point of recording and there are not other sources for further checks

Section 7. Myometrial biopsies - Glycogen storage 7.2.4.1 Gestation by timepoint - Visit 1 Screening (10-16 Weeks), Visit 2 Consent/Baseline (10-16 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 1 (days)	Mean	81.1	86.5	83.3
	Median	83.0	87.0	84.0
	SD	14.0	13.1	13.7
	MIN,MAX	51,107	68,109	51,109
	Q1,Q3	72,88	76,96	73,94
	n	17	11	28
	Nmiss	0	0	0
Recorded# Gestation - Visit 2 (days)	Mean	97.9	99.5	98.5
	Median	95.0	101.0	98.5
	SD	9.2	9.4	9.1
	MIN,MAX	84,112	82,111	82,112
	Q1,Q3	92,105	92,108	92,107
	n	17	11	28
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit #Actual recorded value

Section 7. Myometrial biopsies - Glycogen storage 7.2.4.2 Gestation by timepoint - Visit 3 Randomisation (10-16 Weeks), Visit 4 (18-20 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 3 (days)	Mean	99.8	102.1	100.7
	Median	101.0	103.0	102.0
	SD	8.7	7.1	8.0
	MIN,MAX	84,112	89,111	84,112
	Q1,Q3	93,106	98,108	95,107
	n	17	11	28
	Nmiss	0	0	0
Calculated* Gestation - Visit 4 (days)	Mean	145.5	143.5	144.7
	Median	141.0	141.0	141.0
	SD	29.5	9.6	23.5
	MIN,MAX	125,252	126,166	125,252
	Q1,Q3	127,146	140,148	136,146
	n	17	11	28
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Glycogen storage 7.2.4.3 Gestation by timepoint - Visit 5 (28 Weeks), Visit 6 (36 Weeks) Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 5 (days)	Mean	195.8	193.7	195.0
	Median	195.5	196.0	196.0
	SD	5.4	9.6	7.2
	MIN,MAX	182,207	167,201	167,207
	Q1,Q3	194,199	196,197	194,198
	n	16	10	26
	Nmiss	1	1	2
Calculated* Gestation - Visit 6 (days)	Mean	255.3	252.3	254.2
	Median	255.5	252.0	253.5
	SD	3.8	4.6	4.3
	MIN,MAX	248,263	245,260	245,263
	Q1,Q3	253,258	251,256	252,258
	n	16	10	26
	Nmiss	1	1	2

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Glycogen storage 7.2.4.4 Gestation by timepoint - Visit 7 Term, Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_Ir	ntervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Calculated* Gestation - Visit 7 (days)	Mean	276.4	273.6	275.5
	Median	275.0	273.0	274.0
	SD	5.4	1.5	4.6
	MIN,MAX	271,289	272,276	271,289
	Q1,Q3	273,277	273,274	273,276
	n	10	5	15
	Nmiss	7	6	13
Calculated* Gestation - Visit 8 (days)	Mean	276.0	276.1	276.0
	Median	275.0	274.0	274.5
	SD	8.8	10.8	9.4
	MIN,MAX	257,292	263,306	257,306
	Q1,Q3	273,280	271,278	273,280
	n	17	11	28
	Nmiss	0	0	0

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *These calculations rely on the accuracy of the recorded date of visit

Section 7. Myometrial biopsies - Glycogen storage 7.2.4.5 Gestation by timepoint - Visit 8 Delivery Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Recorded* Gestation - Visit 8 (days)	Mean	274.9	272.5	273.9
	Median	274.0	273.0	273.0
	SD	7.7	4.2	6.6
	MIN,MAX	256,290	263,280	256,290
	Q1,Q3	273,280	270,274	272,277
	n	17	11	28
	Nmiss	0	0	0
Coded R_gestation - Visit 8 (n(%))	>24 and <=37 WEEKS	1 (5.9)	0	1 (3.6)
	>37 WEEKS	16 (94.1)	11 (100)	27 (96.4)

EMPOWaR Statistical Analysis Report MECHANISTIC PAPER - Final 02 - tables run on: 05MAR2016 at 03:54 N = number of patients randomised, n = the number of observations, Nmiss = number of missing observations *Actual recorded value

Section 7. Myometrial biopsies - Glycogen storage 7.2.5 Delivery Details - alive births Population = Intention to treat (ITT) - AllocatedTreatment used for summarisation

		Allocated_In	tervention	
Parameter(s)	Categories	Placebo	Metformin	Overall
Delivery Method (n(%))	LSCS in labour	4 (23.5)	1 (9.1)	5 (17.9)
	LSCS pre labour	13 (76.5)	10 (90.9)	23 (82.1)
C-SECTION index pregnancy (n(%))	Yes	17 (100)	11 (100)	28 (100)
Primary C-SECTION in index pregancy (n(%))	Yes	8 (47.1)	4 (36.4)	12 (42.9)
	No	9 (52.9)	7 (63.6)	16 (57.1)