Supplementary file 6. Additional information relating to cost analysis

Table 1. Regression analysis on the number of FTE staff involved

Outcomes/ Control	FTE equivalent	FTE senior	FTE non -	FTE clinical	FTE non-
variables		staff	senior staff	staff	clinical staff
		(Band 6	(Band 5 and		
		and above)	below)		
Type of the service	2.29	0.73	1.56	1.73	0.58
(CO@h=1; CVW=0)	(3.04)	(1.42)	(2.11)	(2.69)	(0.77)
Data submission					
mode (tech-enabled	-2.91	-0.79	-2.12	-3.06	0.09
and analogue =1;	(2.41)	(1.13)	(1.67)	(2.14)	(0.61)
analogue-only=0)					
(Large sites)					
Very small sites	-7.46**	-3.61**	-3.85	-5.23	-2.27**
very sman sites	(3.53)	(1.65)	(2.45)	(3.13)	(0.90)
Small sites	-7.23**	-2.35	-4.88**	-5.54	-1.74**
Siliali sites	(3.31)	(1.55)	(2.29)	(2.93)	(0.84)
Medium sites	-0.29	-0.75	0.46	-1.01	0.68
Medium sites	(3.65)	(1.71)	(2.53)	(3.24)	(0.93)
Constant	10.65***	4.80**	5.85	8.28**	2.43**
Constant	(3.81)	(1.79)	(2.64)	(3.38)	(0.98)
No. of observations	35	35	35	35	35

Note: ***p < 0.01, **p < 0.05.

Reference categories in italics. Standard errors in brackets.

Table 2. Costs of CO@h and CVW services

Resources																		
used for	C	O@h servic	e	(CVW service	e	C	O@h servi	ce	•	CVW servic	е	CO	@home ser	vice		e	
setting-up and running the program me	Mean cost per site	10 th percent ile	90 th percenti le	Mean cost per site	10 th percent ile	90 th percent ile	Mean cost per site	10 th percent ile	90 th percenti le	Mean cost per site	10 th percent ile	90 th percent ile	Mean cost per sites	10 th percent ile	90 th percenti le	Mean cost per site	10 th percent ile	90 th percent ile
Setting-up c	<u>osts</u>			•						•					•			
Staff costs	£59,617. 9 (£26,05 8.5)	£7,619. 9	£75,144 .6	£9,338. 0 (2,993. 3)	£832.0	£22,48 7.4	£38,63 2.4 (10,410 .7)	£7,886. 6	£72,803	£9,710. 7 (5,554. 9)	£1,217.	£22,83 4.9	£115,57 9.3 (93,429. 4)	£6,916. 6	£311,60 6.1	£9,01 8.5 (3,347 .1)	£897.4	£19,84 2.2
Non-staff co				1	1				ı	1	1	1	ı	1	1			1
The tech- enabled platform	£77,937. 9 (£20,81 2.3)	£3,790. 7	£142,76 0.0	£32,71 2.4 (16,859 .4)	£3,161.	£84,08 2.3	£77,93 7.9 (20,812 .3)	£3,790.	£142,76 0.0	£32,71 2.4 (16,859 .4)	£3,161.	£84,08 2.3	-	-	-	-	-	-
Thermom eter	£449.8 (£273.3)	£0.0	£570.4	£122.7 (56.7)	£0.0	£432.3	£292.4 (224.3)	£0.0	£548.0	£142.2 (90.0)	£0.0	£426.7	£869.4 (836.2)	£0.0	£2,608.	£106. 0 (77.9)	£0.0	£336.7
Other costs	£267.8 (£130.0)	£0.0	£1,395. 8	£892.1 (723.2)	£0.0	£1,573. 2	£269.7 (154.6)	£0.0	£979.2	£367.3 (310.6)	£0.0	£1,068.	£262.7 (262.7)	£0.0	£788.0	£1,34 2.0 (1,342 .0)	£0.0	£3,757.
Mean running costs	Mean cost per patient	10 th percent ile	90 th percenti le	Mean cost per patient	10 th percent ile	90 th percent ile	Mean cost per patient	10 th percent ile	90 th percenti le	Mean cost per patient	10 th percent ile	90 th percent ile	Mean cost per patient	10 th percent ile	90 th percenti le	Mean cost per patien t	10 th percent ile	90 th percent ile
Cost per patient triaged	£351.8 (£73.7)	£67.6	£512.2	£581.8 (139.9)	£74.4	£1,366. 8	£343.4 (£83.8)	£78.8	£464.1	£567.0 (£208.1	£129.0	£1,152. 5	£374.1 (£165.2)	£68.9	£821.1	£594. 5 (£204. 1)	£130.1	£1,220.
Cost per patient monitored	£527.5 (£110.5)	£101.4	£768.0	£599.1 (144.0)	£76.6	£1,407. 4	£514.9 (£125.6)	£118.2	£695.8	£583.9 (£214.3)	£132.8	£1,186. 8	£560.9 (£247.8)	£103.2	£1,231.	£612. 1 (£210. 2)	£134.0	£1,257.

Source: Based on data provided by each site.

Note: Standard errors in brackets.

Table 3. Regression analysis on the mean running cost per patient

Control Variables	Coef.	Std. err.		
Type of the service (CO@h=1; CVW=0)	-457.99**	(199.47)		
Data submission mode (tech-enabled and	-34.15	(165.42)		
analogue=1; analogue-only=0)				
FTE difference between the senior and the junior staff	24.75	(20.48)		
Number of patients monitored	0.62***	(0.17)		
Constant	529.07***	(140.47)		
Number of observations	35			

Note: ***p < 0.01, **p < 0.05.

Table 4. Time spent on activities for each CO@h and CVW service and data submission mode

A abii iib.	Mean time (per patient of the mode site	regardless e used (n=3	per patier	(in minutes) nt – CO@h e (n=2)	Mean t minutes) pe CVW serv	er patient –	Mean time (in minutes) per patient – CO@h and CVW service (n=1)		
Activity	Tech- enabled and analogue	Analogue -only	Tech- enabled and analogue	Analogue- only	Tech- enabled and analogue	Analogue -only	Tech- enabled and analogue	Analogue- only	
Patient triage/risk stratification	18[2]	5[1]	30[1]	.[0]	20[1]	.[0]	5[1]	5[1]	
Patient information and training	30[3]	30[2]	32.5[2]	35[1]	30[1]	.[0]	25[1]	25[1]	
Patient monitoring	68[3]	72.5[2]	101.5[2]	140[1]	175[1]	.[0]	1.5[1]	5[1]	
Patient data reporting	12[3]	4[2]	17[2]	6[1]	70[1]	.[0]	2[1]	2[1]	
Work involved in flagging deterioration *	15[1]	16.25[2]	.[0]	17.5[1]	90[1]	.[0]	15[1]	15[1]	
Work involved in escalation processes *	10[2]	9.5[2]	9[1]	9[1]	20[1]	.[0]	10[1]	10[1]	
Patient discharge from ward *	16 [2]	16[2]	22[1]	22[1]	15[1]	.[0]	10[1]	10[1]	

Note: The number in brackets is the number of the valid responses from sites (non-missing) that have been used for the calculation of the average time.

^{*)} time spent only among the patients who require this activity.

Table 5. Mean costs per patient (in £) spent for each activity

	Activity										
Mean cost in £	Patient triage/risk stratification	Patient information & training	Patient monitoring	Patient data reporting	Work involved in flagging deterioration *	Work involved in escalation processes *	Patient discharge from ward *	Total			
Tech-enabled with analogue	£14.4	£15.5	£35.1	£13.8	£12.0	£11.5	£12.8	£115.1			
Analogue-only	£4.0	£15.5	£37.5	£4.6	£13.0	£10.9	£12.8	£98.3			

Note: * time spent only among the patients who require this activity.