Appendix 11a Clinical Record Form for Gaucher disease patients

Gaucher

Patient:

Date of visit ___/ ___/

Gaucher CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached?

| No | Do not continue |
|-----|-----------------|
| Yes | |
| | |

Has the patient given informed signed consent?

| No | Do not continue |
|-----|-----------------|
| Yes | |

Has the parent/carer given informed signed consent?

| No | Do not continue |
|-----|-----------------|
| Yes | |

Reason for not giving consent (if given):

| The patient is consented for: | |
|--|----|
| Records Only Records and Questionnaires | |
| Hospital ID | |
| Patient Identification number | |
| Date of consent | // |
| Version of consent form: | _ |

Patient Information

General Patient Information for Gauchers Adults and Children

| To be completed following conse | ent | | | | | |
|--|--|--|--|--|--|--|
| Date of birth | _// | | | | | |
| Patient age, in years, at date of c | onsent | | | | | |
| Gender: | Male Female | | | | | |
| Type of Gaucher Type 1 (Adult onset, n Type 3 (Abnormal eye | no abnormal eye movement) e movement) | | | | | |
| Does the patient have a carer? | No \Box Yes \Box | | | | | |
| Onset of first symptom | | | | | | |
| The date of onset of first sympto Roughly / exactly / can't remem | om is: aber: Month and Year / if month unknown just enter year | | | | | |
| Other family members affected? No Yes Unknown | | | | | | |
| | If Yes how many Relationship/s to patient Mother Father Sibling Other Please specify | | | | | |
| Month and Year of Diagnosis Month and Year/ | | | | | | |
| Method of diagnosis (tick any a | appropriate) Recorded □ Not recorded □ | | | | | |
| Glucocerebrosidase Enzyme | Normal □ Deficient □ Not recorded □ | | | | | |

| DNA mutation | Yes | | No | | lot known | |
|----------------------|---|-------------------------------|-----|---|---|--|
| | | nino acid effect: Pick one | | N370S/L4 N370S/N3 N370S/04 N370S/IV N370S/IV N370S/un L444P/unl L444P/D4 L444P/L4 Other plea | 70S □ GG □ 609H □ S2+1 □ known□ cnown □ 09H □ | |
| Bone marrow Biopsy | negative | □ positiv | e 🗆 | Not record | led | |
| Current Employment S | Status | | | | | |
| | Paid Employed Unemployed Unpaid Employm | ent 🗆 | | Full time Part time | | |

Type of Gauchers:

| Definitions for classification: | | | | | | | |
|--|--|-----------------------|--------------|----|---------|-----|--|
| Type 1 | Adult onset, no abnormal eye movement (if not type 2 or 3 then type 1) | | | | | | |
| Type 2 | Infantile onset, acute neuronopathic | | | | | | |
| Type 3 | Abnormal eye movement | Abnormal eye movement | | | | | |
| Type 1 Does the patient hav | e Neurological involvem | ent? | No Yes | | If Yes: | | |
| Peripheral neu Parkinsonian | features: Yes | □ No □ No | □ □ If ye | S: | | | |
| Age of presen | itation | | | | | | |
| Is the patient on treatment for Parkinsonian features? No Yes Please specify | | | | | | | |
| Does the patient have Dem | entia: | No Yes | | | | | |
| Does the patient have anoth | ner type of neurological in | nvolveme No | nt? | | | | |
| Please Specify | | Yes | | | | | |
| Type 3 Abnormal eye movement | | | No | | | Yes | |
| Has diagnosis changed before | ore entry on to study? | | No | | | Yes | |
| Please give date of change | of diagnosis from Type 1 | То: Тур | e 3 | | // | | |

Reason for diagnosis:

| Was the patient detected by fami | Was the patient detected by family screening | | | |
|--|--|-----------|--|--|
| Chitotriosidase genotype | +/+ normal +/- -/- no chito, null | | | |
| Measure date: / / / / | (moved) | | | |
| Did the patient present with sym | ptoms | No Yes | | |
| What symptoms did the patient pre- | esent with? | | | |
| Type 1: (pick one or more) | | | | |
| Organomegaly | | | | |
| Bone pain | | | | |
| Unexpected finding in biopsy Other (please specify) | | | | |
| During pregnancy | □ □ | | | |
| Full blood count: Thromb | ocytopenia 🛛 | | | |
| Complications during del | | | | |
| Antenatal test- Family sc | reening 🗆 | | | |
| (Previous child with LSD) |) | | | |
| | | | | |

Type 3:

| Is presentation: | Visceral | |
|------------------|--------------|--|
| - | Neurological | |

Withdrawal from the study

| Is the | e patient still in the full study? | No Yes | |
|--------|--|-----------|-----------------------------|
| With | drawal date: / / | | |
| Reaso | on for Withdrawal | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't re-consent Other | Please | e specify |
| | | 1 Ioust | |
| Conti | nue in the study notes only? | No Yes | |
| Reco | rd of death | | |
| Date | of death:// | | |
| Did c | linician certify this death as condition related | ? | No □ Yes □ |
| Pleas | e record the wording from the dearth certifica | te: | |
| Part 1 | a Free text (Disease or condi | ition di | rectly leading to death) |
| Part 1 | b Free text (Other disease or | condit | ion, if any, leading to 1a) |
| Part 1 | c Free text (Other disease or | condit | ion, if any, leading to 1b) |

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Haematological

| Spleen | | | | | | | |
|---|-----------|------------|----------|--------------|-----------|-----------|--|
| Enlarged or normal from scan? | No Var | | | | | | |
| Measure date: / / / | Yes | | | | | | |
| Size or volume available from scan? | No Yes | | | | | | |
| Volume: ml | | | | | | | |
| And/Or | | | | | | | |
| Size (cm) | | | | | | | |
| Measure date: / / / | | | | | | | |
| Enlarged on palpation | No | | | | | | |
| Measure date: / / / | Yes | | | | | | |
| Has the patient been Splenectomised? | | | No | | | | |
| Reason for Splenectomy: | | | Yes | | | | |
| Date of splenectomy// | / | | | | | | |
| Splenectomy: full | | | | | | | |
| partial Platelet count Done □ Not done □ | | | | | | | |
| Platelet count10 ⁹ /l | | | Measu | re date: | _/ | _/ | |
| Haemoglobin Done Not done | | | | | | | |
| Haemoglobin g/dl (on Full Blood Cour | nt) | | Measu | re date: | / | _/ | |
| Bleeding Episodes - has the patient had une | explained | l bleeding | or bruis | ing in the p | revious 1 | 2 months? | |
| Yes □ No □ | | | | | | | |
| | | | | | | | |

Chitotriosidase level _____ Pick units _____

| Enlarged or normal from scan? | No Yes | | | | |
|---|------------|---------------|----------------------|---------------|--|
| Measure date: / / / | 105 | | | | |
| Size or volume available from scan? | No Yes | | | | |
| Volume: ml | | | | | |
| And/Or | | | | | |
| size (cm) | | | | | |
| Measure date: / / | | | | | |
| Enlarged on palpation | No Yes | | | | |
| Measure date:/// | | | | | |
| Liver damage – does the patient have liver | fibrosis o | or cirrhosis? | Yes No Test no | t carried out | |
| Does the patient have - Portal hypertensi | on- (on u | ltrasound)? | Yes No Test no | t carried out | |
| Has the patient had a Liver Transplant in | n the last | 12 months? | Yes | | |
| If Yes: date of transplant: / / / | | - | No | | |
| Liver function test GGT level (Gamma-glutamyl transpeptidas Done □ Not done □ Measure date:// | | | | | |
| GGT level resultsU/l | | | | | |
| ALT Level (Alanine transaminase) Done Not done Measure date:// | | | | | |
| ALT level resultsU/l | | | | | |

Variceal Haemorrhage – how many episodes in the previous six months? _____ (number)

Bone, bone marrow

Is the patient on Bisphosphonates ?

| Bone pain – has the patient had bone pain in the last 12 months? | Yes No Not reco | orded | |
|---|-----------------------|---------------------------|------|
| If yes is it | constant sporadic | | |
| Analgesia required – has the patient had to use analgesia in the last 6 months? If yes have they had to use opiate analgesic? | Yes Yes | □ No □ No | |
| MRI Avascular necrosis - are there any new avascular necrosis on MRI in the last 12 | 2 months? | ? Yes No Not don | |
| Date of MRI scan / / / | | Not don | |
| Bone Marrow Burden on MRI Done Not done | | | |
| BMB Score: /// | | | |
| Bone crises - has the patient had doctor-diagnosed bone crisis in the last 12 mor Yes No Not recorded How many? | nths? | | |
| Has the patient had Joint replacement surgery in the last 12 months? | Yes | 🗆 No | |
| If Yes: date of replacement// (must be before the date of the dat | the visit t | o the clir | nic) |
| Osteoporosis Has the patient had Fragility fractures in the last 12 months? Yes No | | | |
| If Yes what is the number of fractures the patient has had (numb | er) | | |
| DEXA – Bone Marrow Density | | | |
| Done Not done Measure date:// | | | |
| Bone Mineral Density T score (Adult) | | | |
| Forearm total Hip Total Lumbar Spine total | | | |
| Bone Mineral Density Z score (Children under 16) | | | |
| Forearm total Hip Total Lumbar Spine total | | | |

Yes

No

Neurological

| Any abnormal eye movement? | Yes | | No | | |
|---|-----------|---------|----|----|--|
| Cognitive measures – IQ Test done | whole num | ber) | | | |
| Measure date:/ / / | | | | | |
| Developmental Quotient Test done □ not done □ DQ score (| wholenun | nber) | | | |
| Measure date:/// | | | | | |
| Has the patient had fits in the last 12 m | onths? | Yes | | No | |
| Does the patient have extrapyramidal i | nvolveme | nt? Yes | | No | |

Other Measures

Lung

| Does the patient have pulmonary hypertens Yes No Not done | ion - fro | m Echo? | 2 | |
|--|-----------|-----------------------|-----|--------------------------|
| Measure date:// | | | | |
| Does the patient have malignancies? | No | | Yes | □If Yes, please specify: |
| Has a severity score been recorded? | Yes | | No | |
| If yes, with: | | n Severit severity | - | |
| Severity score: (Whole number) | | | | |

Neurological - Child

| Any abnormal eye movement? | Yes | | No | | | |
|---|--------------|---------------|----------------|-------------|----------------|-----------|
| IQ Test done □ not done □ IQ score | (whole numb | e r) | | | | |
| Measure date:/// | | | | | | |
| Developmental Quotient Test done | e (whole num | nber) | | | | |
| Measure date:/// | _ | | | | | |
| Has the patient had fits in the last 12 | months? | | Yes | | No | |
| Does the patient have extrapyramidal | l involvemen | nt? | Yes | | No | |
| Using any parent reported Motor mil what age in months was the milestone | | e, are the pa | tients able to | do the foll | owing? If they | are able, |

| Recorded Not recorded | | |
|---|----------------|--------|
| Measure date:/// | | |
| Patient currently able to sit unsupported: | Able Unable | Months |
| Patient currently able to stand independently: | | Months |
| Patient currently able to walk: | Able Unable | Months |
| Patient currently able to walk upstairs one step at a time: | Able Unable | Months |
| Does the patient have a squint? Yes | No | |
| Are Brainstem evoked responses normal? Yes | No | |
| Measure date: / / / | | |

Audiometry Hearing Test: Done Not done \Box Measure date: ____ / ___ / ___ __

Hearing Normal: Yes □ If No.... No

| | | Degree of hearing loss (average over tested frequencies) (pick o | |
|---|--|--|--|
| Conductive Sensorineural Mixed (combination of conductive & | | Mild (0-40 decibels) Moderate (41-70 decibels) Severe (71-95 decibels) | |
| sensorineural | | Profound (over 95 decibels) | |

Note: to calculate the degree of hearing loss, add all the decibels and divide by the number of data points.

Severity scoring tool - for Neuropathic Gaucher Disorder

| Done | |
|----------|--|
| Not done | |

Measure date: ___ / ___ / ___ __ __

Horizontal gaze palsy

- Yes, on a regular basis
 - Yes, sometimes
- 🗌 No

Epilepsy

- Yes, on a regular basis
- Yes, sometimes
-] No

Development/ cognitive ability

Normal

- Mildly impaired (IQ less than 85 or equivalent)
- Moderate (IQ between 50–57 or equivalent)
- Severe (more than half their chronological age)

Neurology pattern Ataxia/ gait

- Normal, apparent only on tandem walking
- Ataxia on straight gait, able to walk without assistance
- Able to walk only with assistance
- Unable to walk

Cerebellar signs/ataxia

- □ No intention tremor
- Intention tremor not affecting function
- Intention tremor with marked impact on function

Pyramidal

- Normal tone with increased reflexes
- Mildly to moderately increased tone and reflexes
- Increased tone reflexes with sustained/unsustained clonus
- Severe spasticity with inability to walk

Extrapyramidal

- Normal
 - Variable tone and posturing not impairing function, with or without therapy
- Variable tone and posturing impairing function, despite therapy
- Significant rigidity with no/minimal benefit from therapy

Swallowing difficulties/oral bulbar function

- Normal
- Mild dysphagia (excess drooling)
- Moderate dysphagia (risk of aspiration, modification to diet required)
- Severe dysphagia (requiring non-oral feeding)

Speech

- Normal (and those too young yet to speak)
- Mild to moderate dysarthria impairing intelligibility to unfamiliar listener
- Severe dysarthria with most speech unintelligible to familiar and unfamiliar listener
-] Anarthria

Ophthamology

Normal

Cranial nerve palsy (previously corrected or not) \square

Cranial nerve palsy (reappearing despite surgical correction)

Spinal alignment (kyphosis)

Normal

Mild kyphosis – but flexible

Moderate kyphosis – partially corrected
 Severe kyphosis – fixed

Total Calculated (maximum 33)

Growth Body measurements

| Measure date:/ | / | | | | |
|--|-----|-------------|----|---------------|--|
| Height Weight Head circumference | k | m g m | | | |
| Delayed puberty | Yes | | No | inappropriate | |

Other Measures

| Lung | | |
|---|----------|--|
| Does the patient have pulmonary hypertension from Echocardiogram? | Yes | |
| | No | |
| | Not done | |

Measure date: ____/ ___/ _____

Significant Co-morbidity

Does the patient have any co-morbidities? Yes / No

How many? _____

Please enter significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

| 1 | | | | | |
|--|--|---|--------------------------------------|----------------------|---|
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| Haematological Bone, bone marrow Neurological Lungs | Yes / No Yes / No Yes / No Yes / No | Yes / NoYes / | Yes / NoYes / No Yes / NoYes / No | Yes / No Yes / No | |

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Children Only:

| Audiometry: | Yes / NoYes / NoYes / NoYes / NoYes / NoYes / No |
|-------------|--|
| Growth | Yes / NoYes / NoYes / NoYes / NoYes / No |

Con-meds

Is the patient on any con meds?

| Medication | Prescription ? | Dose | Frequency | Date started | Date finished | Ongoing? |
|------------|-----------------------|------|-----------|--------------|---------------|-----------------|
|------------|-----------------------|------|-----------|--------------|---------------|-----------------|

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on treatme | nt No □ Yes □ | | |
|---|---|----------|----------------|
| Initial Treatment Initially treatment | ERT clinical trial? | | |
| Date of first treatment | nt:/_ | / | |
| Age when first treatr | ment received: | | |
| Initial type of treatm | ent (ERT): | | |
| Initial weight | (kg) | | |
| Initial dose: | (units) | | |
| Initial frequency: | 3 times per week 2 times per week weekly every 2 weeks every 3 weeks monthly □ | | |
| Initial type of treatm | ent (substrate reductio | n therap | y) |
| Initial dose: | mg | | |
| Initial frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify |
| Current treatment | | | |
| Current treatment | | | |
| | treatment/ / | (dd | /mm/yyyy) |
| Current type of treat | ment (ERT) | | |
| Current weight (kg) | | | |
| Current dose: | units | | |
| Current frequency: | 3 times per week 2 times per week weekly every 2 weeks every 3 weeks monthly | | |

| Hospital/ home infusion: | Infusion in Hosp Infusion at Home | | | |
|------------------------------|--|--------------------|-------------------------|--|
| Home infusion | Nurse infuses Nurse cannulates Patient cannulate | | | |
| Is the patient currently exp | periencing: | | | |
| Febrile reactions? | No Yes | | | |
| Anaphylactoid reactions? | No Yes | | | |
| Does the patient require a | ny pre-medication No Yes | | | |
| Current type of treatment | (substrate reduction | on therap | y) | |
| Current Dose | | | (mg) | |
| 2 ti 1 ti | mes per week mes per week me per week reekly | | Other Please Specify | |
| Antibody status | | | | |
| Measure date: / | / | | | |
| Antibody status to infused | l product, Tested M | No Yes | | |
| Antibody Status, Test Res | ult Positive | No Yes Don't | know | |

Record of Therapy (Enzyme Replacement Therapy, Substrate Reduction Therapy etc):

| Is patient on treatmer | nt No □ Yes □ | | | |
|--------------------------|--|-----------|-----------------|--|
| Has patient stopped t | reatment since their las | st visit? | No Yes | |
| Has patient started tre | eatment since their last | visit? | No Yes | |
| Initial Treatment | | | | |
| Date of first treatmen | t:/// | | | |
| Initial type of treatme | ent (ERT): | | | |
| Initial weight | kg | | | |
| Initial dose: | units | | | |
| Initial frequency: | Current frequency: 3 times per week 2 times per week weekly every 2 weeks every 3 weeks monthly \Box | | | |
| Initial type of treatme | ent (substrate reduction | therapy) | | |
| Initial dose: | mg | | | |
| Initial frequency: | Current frequency: 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify_ | |
| Current treatment | | | | |
| Current treatment | | | | |
| Date started current the | reatment (dd/ | mm/yyyy | 7) | |
| Current type of treatm | nent (ERT) | | - | |

Current weight ___kg

Current Dose _____ units

| Current frequency: | 2 tin wee even | mes per week mes per week ekly rry 2 weeks rry 3 weeks nthly | | | |
|---|----------------------|---|------------|-----------|--|
| Hospital/ home infusi | ion: | Infusion in Hosp Infusion at Hom | | | |
| Home infusion | | Nurse infuses Nurse cannulates Patient cannulate | | | |
| Is the patient currentl Febrile reactions? | y exp | periencing: No Yes | | | |
| Anaphylactoid reaction | ons? | No Yes | | | |
| Does the patient requ | ire aı | ny pre-medication | 1: | No Yes | |
| Current type of treatm | nent | (substrate reduction | on therap | oy) | |
| Current dose: | | _mg | | | |
| Current frequency: | 2 tii 1 tii | mes per week mes per week me per week /eekly | | | |
| Antibody status | | | | | |
| Measure date:/ | | | | | |
| Antibody status to inf | fused | l product, Tested | | No Yes | |
| Antibody Status Test | Posi | tive | | No Yes | |
| Stopped Treatment Final treatment | | ERT clinical trial | | | |
| Date of last treatment | t: | // | ′ <u> </u> | | |
| Final type of treatment | nt (El | RT) | | | |
| Final weight | | _kg | | | |
| Final dose: | | units | | | |
| Final frequency: | 2 ti | mes per week mes per week ekly | | | |

_____-

| every 2 weeks | |
|----------------|--|
| every 3 weeks | |
| monthly \Box | |

| Hospital/ home infusion: | Infusion in Hospital Infusion at Home | |
|--------------------------|--|--|
| Home infusion | Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | |

| Final dose: mg Final frequency: 3 times per week | Final type of treatm | ent (substrate reductio | n therapy | /) | |
|--|----------------------|---|-----------|----------------|--|
| 2 times per week □ 1 time per week □ 2 weekly □ | Final dose: | mg | | | |
| I 5 <u></u> | Final frequency: | 2 times per week 1 time per week 2 weekly | | Please Specify | |

Why was treatment stopped? (Drop down menu)

Please specify _____

Visit Date: _____

Appendix 11b Clinical Record Form for Fabry disease patients

Fabry

Patient ID:

Date of visit ___/ ___/

Fabry CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached? Do not continue No Yes Has the patient given informed signed consent? No Do not continue Yes Has the consultee given informed signed assent? No Do not continue Yes Reason for not giving consent: Patient has consented for: Records Only Records and Questionnaires Patient Identification number _____ ___/___/____ Date of consent Version of consent form:

Patient Information

| To be completed following cons | ent | | | | |
|---|------------------------|-----|-------------------|---|--------------------------------|
| Date of birth | _// _ | | | | |
| Gender: | Male Female | | | | |
| Does the patient have a carer? | No Yes | | | | |
| Onset of first symptom – month Roughly / exactly / can't remen | | / | | | |
| Other family members affected? No □ Yes □ | If Yes ho Relations | | | Mothe Father Sibling Other (enter | g 🗆 |
| Month & Year of diagnosis Month | - Unknow | n 🗆 | If Mont | h unkno | own: Year |
| Method of diagnosis (tick any a | appropriate |) | | | |
| Alpha-galactosidase A activity - Leucocyte | | | Normal Deficie | | Also known as GLA, a-GLA, GALA |
| Alpha-galactosidase A activity - plasma | | | Normal Deficie | | |
| Alpha-L-iduronidase cDNA | | | Done Not dor | ne 🗆 | |
| cDNA results as amino acid ch | ange | | | | ollowing format /Asn272Ser |
| Prenatal Diagnosis (chorion villus biopsy) | | | No Yes | | |
| Enzyme assay results | | | | | |
| Urine GAG test | | | No Yes | | Result |

| Reason for diagnosis Was patient detected by | No Yes | | | | |
|---|---|--|-----|---------------------------------------|--|
| Did patient present with | symptoms? | No Yes | | | |
| Which symptoms? | Renal failu | ticilata bnormality ns diomyopathy | | | |
| Physician of initial prese | | cardiologist neurologist dermatologist ophthalmologis geneticist paediatrician gastroenterolog Other – please | ist | | |
| Employment Status | Paid Employed Unemployed Unpaid Employm | ent | | If employed Full time Part time | |

Withdrawal from the study

| Is the | patient still in the full study? | No Yes | | | |
|---------|--|-----------|--------------------------|--|--|
| Withd | rawal date:/// | | | | |
| Reaso | n for Withdrawal | | | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't reconsent | Disco | | | |
| | Other | Please | e specify | | |
| Contii | nue in the study notes only? | No Yes | | | |
| Recor | d of death | | | | |
| Date of | of death: / / | | | | |
| Did cl | inician certify this death as condition related | ? | No □ Yes □ | | |
| Please | e record the wording from the dearth certifica | te: | | | |
| Part 1 | a Free text (Disease or condi | tion di | rectly leading to death) | | |
| Part 1 | Part 1b Free text (Other disease or condition, if any, leading to 1a) | | | | |
| Part 1 | Part 1c Free text (Other disease or condition, if any, leading to 1b) | | | | |

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Body Measurements

| Height | |
|----------|--|
| Recorded | |

| Recorded Not recorded | | | |
|--------------------------|---|---|--|
| Measure date: | / | / | |
| Height (cm) | | | |
| Weight Recorded | | п | |
| Not recorded | | | |
| Measure date: | / | / | |

Weight (Kg) _____

Heart Measures

| Echocardiogram | Done Not done | | Measure date: _ | / | _/ |
|--|---------------------|-----------|------------------------------------|-------------|-----------------|
| LVEDD | mm | LV End | | Diastolic | diameter (LVDd) |
| IVSd | mm | Interven | tricular septal di | astolic dia | meter |
| PWTd | mm | Posterio | r Wall thickness posterior LV W | | e diameter |
| Result (Calculated by dat LVmass g | abase) | | | | |
| Body Surface Area (BSA) | m s | quared | | | |
| Result LVMI Measure of Hypertrophy | g /n | n squared | | | |
| Does the patient have clinic | cally significant A | Arrhythm | ia? No Yes | | |
| Does the patient have a pac | eemaker? | | No Yes | | |
| Measure date: | / | / | | | |
| Date of fitting pacemaker: | // | | - | | |
| Does the pacemaker have a | defibrillator? | | No Yes | | |
| Does the patient have heart | failure? | | No Yes | | |
| Measure date: | / | / | | | |
| NYHA Category | | | | | |

PR Interval – Children Only

| Recorded Not recorded | |
|--------------------------|----|
| Measure date: | // |

PR Interval – results _____ milliseconds

Neurological

Has the patient ever had a TIA / stroke?

| No Yes Not recorded | |
|--|---|
| Measure date: | // |
| Age at 1 st stroke | _ |
| Does the patient have any No Yes | persistent neurological impairment from the stroke? |
| Has the patient had a TIA/ No Yes | stroke since their last assessment? |
| Is there evidence of cognit No Yes | ive impairment? □ □ |

Kidney

Spot Protein / Creatinine Ratio

| Done Not done | | | Measure date: | /, | / |
|-----------------------------|------|---------------|---------------------|------|---|
| Results | | mg/mmol | | | |
| Albumin / C | rea | tinine Ratio |) | | |
| Done Not done | | | Measure date: | /, | / |
| Results | | mg/mmol | | | |
| Serum Crea | tini | ne | | | |
| Done Not done | | | Measure date: | /, | / |
| Results | | micromole | s / 1 | | |
| Estimated G | lon | nerular Filt | ration Rate (e | GFR) | |
| Done Not done | | | Measure date: | /, | / |
| Results | | | | | |
| Dialysis | | | | | |
| No Yes | | | | | |
| Start date: | | // | · | | |
| Is the patient No Yes | | l on dialysis | ? | | |
| End date: | | // | | | |
| Type of dialy | ysis | | Peritoneal Haemo | | |
| Has the pati | ent | had a kidn | ey transplant? | | |
| No | | | | | |

Date of transplant: ____/ ___/ ____/

Yes

Audiometry

| Evidence of hearing loss? | No Yes | |
|---------------------------|------------------|--|
| Hearing Test: | Done Not done | |

Measure date: ____ / ___ / ___ __ __

| Type of hearing loss (pick one) | Degree of hearing loss (average decibels over tested frequencies) (pick one) | | | |
|---|---|--|--|--|
| Conductive Sensorineural Mixed (combination of conductive & | | Mild (0-40 decibels) Moderate (41-70 decibels) Severe (71-95 decibels) | | |
| sensorineural | | Profound (over 95 decibels) | | |

Note: to calculate the degree of hearing loss, add all the decibels and divide by the number of data points

| Does the patient have a hearing aid? | No Yes Not recorded | |
|--------------------------------------|---------------------------|--|
| Type of hearing aid: | | |
| Does the patient have tinnitus? | No Yes Not recorded | |
| Measure date:// | | |
| Date of onset of tinnitus:// | | |

Other Measures

| Brief Pain Inventor | у | |
|--|------|--|
| Done Not done | | |
| Measure date: | _//_ | |
| Pain Severity | | mean of 4 pain items: questions 3-6 |
| Pain interference _ | | mean of 7 interference items: questions 9 a-g (should only be calculated if more than 50%, or 4 out of 7 questions complete) |
| Sweating Recorded Not recorded | | |
| Measure date: | _//_ | |
| Normal Increased Reduced Absent | | |

Gastrointestinal

In the last tree months has the patient experienced quality of life limiting GI symptoms?

| No | |
|--------------|--|
| Yes | |
| Not recorded | |

Mood

| Are the | clinical | team | aware | of | any | suicide | attemp | ots i | n th | e last | year? |
|---------|----------|------|-------|----|-----|---------|--------|-------|------|--------|-------|
| | | | | | | | | | | | |

No Yes

Do the clinical team believe that the patient has clinical depression?

| No | |
|-----|--|
| Yes | |

This was ascertained from:

| A formal measure | |
|----------------------|--|
| A clinical judgement | |

Significant Co-morbidity

Please enter up to three significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

1

2

-

3

| | 1 | 2 | 3 |
|--------------|----------|----------|----------|
| Heart | Yes / No | Yes / No | Yes / No |
| Neurological | Yes / No | Yes / No | Yes / No |
| Kidneys | Yes / No | Yes / No | Yes / No |
| Audiometry | Yes / No | Yes / No | Yes / No |
| Pain | Yes / No | Yes / No | Yes / No |
| Sweating | Yes / No | Yes / No | Yes / No |
| GI | Yes / No | Yes / No | Yes / No |

Children Only:

| Growth | Yes / No | Yes / No | Yes / No |
|--------|----------|----------|----------|
| | | | |

Con-meds

| Medication | Prescription? | Dose | Frequency | Date started | Date finished | Ongoing ? |
|------------|---------------|------|-----------|--------------|---------------|------------------|
| | | | | | | |

Record of Therapy

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on ERT | No □ Yes □ | | |
|--|---------------------------------------|--|---|
| Initial Treatment Initially on | ERT clinical trial? | | |
| Date of first Infusion: | / | / | |
| Age when first infusion re | ceived: | _ | |
| Initial type of treatment: | Fabrazyı Replaga | | |
| Initial dose: | (mg) | | |
| Initial frequency: | | | |
| | | | |
| Current treatment Currently on | ERT Clinical trial? | | |
| Current dose: | mg | | |
| Current frequency: | Please Specify | | |
| Hospital/ home infusion: | Infusion in Hospi Infusion at Home | e If Home: pick list: Nurse infuses Infuses Patient cannulates and leaves Patient cannulates and infuses | I |
| Is the patient currently exp | periencing: | | |
| Febrile reactions? | No Yes | | |
| Anaphylactoid reactions? | No Yes | | |
| Other pre-medication: | No Yes | | |

Antibody status

Measure date: ___ / ___ / ___ _ _

Antibody status to infused product, Tested

| No | | | | |
|-----|---------|----------|------------|--|
| Yes | If Yes, | Positive | No | |
| | | | Yes | |
| | | | Don't know | |

Record of Therapy Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on ERT | No □ Yes □ | | | | |
|--|-------------------------------------|-----------|-------------------|---|--|
| Has patient stopped treatn | nent since their las | st visit? | No Yes | | |
| Has patient started treatmo | ent since their last | visit? | No Yes | | |
| Initial Treatment Initially on | ERT clinical trial? | | | | |
| Date of first Infusion: | / | / | | | |
| Age when first infusion re | ceived: | | | | |
| Initial type of treatment: | Fabrazy Replaga | | | | |
| Initial dose: | (mg) | | | | |
| Initial frequency: | | | | | |
| Current treatment Currently on | ERT Clinical trial? | | | | |
| Current dose: | mg | | | | |
| Current frequency: | Please Specify_ | | | | |
| Hospital/ home infusion: | Infusion in Hosp Infusion at Hom | | If Home: pick lis | st: Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses Relative cannulates and infuses | |
| Is the patient currently exp | periencing: | | | | |
| Febrile reactions? | No Yes | | | | |
| Anaphylactoid reactions? | No Yes | | | | |

| Other pre-medication: | No Yes | | | | |
|---|--------------------------------------|-----------|----------------|----------|--|
| Antibody status | | | | | |
| Measure date: / / | _/ | | | | |
| Antibody status to infused | product, Tested 1 | No Yes | □ □ If Yes, | Positi | ve No □ Yes □ Don't know □ |
| Stopped Treatment Final treatment | ERT clinical trial | | | | |
| Date of last treatment: | // | / | | | |
| Final type of treatment: | Fabrazy Replaga | | | | |
| Final dose: | (mg) | | | | |
| Final frequency: Plea | se Specify | | | | |
| Hospital/ home infusion: | Infusion in Hosp Infusion at Home | | If Home: pi | ck list: | Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses |
| Why was treatment stoppe | ed? | | | | |

- Patient has life-threatening disease Failure to comply Evidence of disease pregression Patient is pregnant
- Death
- Patient is on a clinical trial
- Questionnaire burden
- Patient turned 16 and did not reconsent
- Other

Appendix 11c Clinical Record Form for MPS I patients

MPS I

Patient ID:

Date of visit ___/ ___/

MPS I CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached?

| No Yes | | Do not continue | | | |
|-------------------------------|--|---|--|--|--|
| Has t | he pa | tient given informed signed consent? | | | |
| No Yes | | Do not continue | | | |
| Has t | he pa | rent/carer given informed signed consent? | | | |
| No Yes | | Do not continue | | | |
| Rease | on fo | r not giving consent (if given): | | | |
| | | | | | |
| The p | oatien | t is consented for: | | | |
| | Records Only Records and Questionnaires | | | | |
| Hospital ID | | | | | |
| Patient Identification number | | | | | |
| Date | Date of consent// | | | | |
| Versi | on of | f consent form: | | | |

Patient Information

| Date of birth | // |
|---|--|
| Patient age, in years, at date of consent | |
| Gender | Male □ Female □ |
| Type of MPS I | Hurler □ Hurler-Scheie □ Scheie □ Not yet known □ |
| Does the patient have a carer | No Yes |
| Onset of first symptoms (i.e. When did t | the main presenting symptoms occur) |
| The date of onset of first symptoms is: | Roughly□Exactly□Can't remember□ |
| Month and Year: | / If month unknown just enter year |
| Any other family members affected? | |
| No Yes Unknown | □ □ Relationship(s) to patient: Mother □ Father □ Sibling □ Other □ Please Specify (enter Unique ID no of relations) |
| Month and Year of Diagnosis Month and Year: | / If month unknown just enter year |
| Method of diagnosis Recorded □ Not recorded □ | |
| Alpha – L-iduronidase activity | □ Normal □ Deficient |
| Alpha –L-iduronidase cDNA | □ Done □ Not Done |

| | | Allele 1 | anif. | | _(drop down n | nenu) |
|---|------------------------------|--------------------------|----------------------------|--------------------|------------------------|-------|
| | | Allele 2 | | | _(drop down m | enu) |
| Skin Biopsy – Enzyme Assay If abnormal, Result: | | □ Norm □ Abno (put | al rmal | | _ | |
| Prenatal Diagnosis (chorion villus biopsy) | □ No □ Yes | (F | | | | |
| Enzyme Assay Results | | | | _(put in own units | s) | |
| Urine GAG test | □No □Yes | | | | | |
| Urine GAG test Results | | | | _ (mg/mmol of cr | reatine) | |
| Reason for diagnosis Was patient detected by family so | creening | ? | □ No □ Yes | | | |
| Did the patient present with symp | ptoms? | | □ No □ Yes If Yes, v | vhat symptoms di | d they present v | with? |
| | | | | | | |
| Current Employment Status | Select as | s appropri | ate | | | |
| | Employe Unemple Unpaid | | ent | | Full time Part time | |

Withdrawal from the study

| Is the | e patient still in the full study? | No Yes | | | | |
|---|--|-----------|---------------|--|--|--|
| With | drawal date: / / / | | | | | |
| Reaso | on for Withdrawal | | | | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't re-consent Other | | | | | |
| Pleas | e specify | - | | | | |
| Continue in the study notes only? | | | | | | |
| Reco | rd of death | | | | | |
| Date | of death:// | | | | | |
| Did c | linician certify this death as condition related | 1? | No □ Yes □ | | | |
| Please record the wording from the dearth certificate: | | | | | | |
| Part 1a Free text (Disease or condition directly leading to death) | | | | | | |
| Part 1b Free text (Other disease or condition, if any, leading to 1a) | | | | | | |

Part 1c ----- Free text (Other disease or condition, if any, leading to 1b)

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Body Measurements

Measure date: ____ / ___ / ___ _ _ _ _

Height (cm)

Weight (cm)

Children only:

Head Circumference (cm) _____ current age: _____

Heart Measures - Child

| Echocardiogram: | Done \Box Not done \Box | Measure | date: / / |
|---------------------------|--------------------------------|------------------------------------|-----------|
| Left Ventricular Ejection | fraction <60% | No Yes | |
| Valve Disease as reported | d by cardiologist (on echo) | None Mild Moderate Severe | |
| Valve Disease severe end | ough to require medication | No Yes | |
| Valve replacements | | No Yes | |
| Date of valve replacemen | t: / / | | |

Airway / Lung / ENT - Child

| Sleep Study | Done Not done | | | | |
|--|--------------------|---------------|---|----------------|-------------------------|
| Measure date: / | _/ | | | | |
| Time spent below saturation (Given as a percentage of ti | | f the study) | | | |
| Lowest saturation recorded (the value in percent of low | | t was not due | e to an artifact) | | |
| Pulmonary Function Test | (best of 3 if then | e is more th | nan one) | | |
| Patient upright Test done Test not o Can't do | lone 🗆 | | | | |
| Measure date: / | _/ | | | | |
| FVC (%) percenta | ge of predicted | | | | |
| FEV1 (%) percenta | ge of predicted | | | | |
| Audiometry | | | | | |
| Using any age-appropriate a | audiometry test, ł | nearing is: | Normal Abnormal Not done | | |
| Measure date:/ | / | | | | |
| Type of hearing loss (pick | one) | | Degree of hearing over tested freque | | |
| Conductive Sensorineural Mixed (combination of con- sensorineural | ductive & | | Mild (0-40 decibel: Moderate (41-70 decibel: Severe (71-95 deci | s) ecibels) | |
| Note: to calculate the degre | e of hearing loss, | add all the | Profound (over 95 decibels and divide l | | □ er of data points. |
| Difficulty with intubation | for anaesthesia | . No |) | | |

| No | |
|--------------------------|--|
| Yes | |
| No operation carried out | |

Neurological – Child

| DQ Test: | Done Not Done | |
|-----------------------------------|--|-------|
| Measure date | e: / | / |
| DQ Score | | |
| Hydrocepha Measure date | llus Present Absent Not Recorded e: / | / |
| Carpal Tun | nel Syndrome Present Absent Not Recorded | |
| Measure date | e: / | / |

Bone & Joint – Child

Patient Mobility

| Test: | Applicable \Box Not Applicable due to age \Box |
|-----------|---|
| Measure d | late: / / |
| | can walk / stand unaided (i.e. can stand for 6 mins or walk for 5 meters) can walk aided one stick (i.e. can't stand for 6 mins without a stick) can walk aided more than one stick is wheelchair bound is bed-bound (i.e. can't get into wheelchair) |
| 6 Minute | Walk Test |

6

| Done Not Done | | | |
|---------------------|---|------------------|--|
| Measure date: / | / | _ | |
| Distance walked (m) | | Aided Unaided | |

Liver & Spleen – Child

Liver

| Enlarged or normal from scan? | Enlarged Normal Not recorded | |
|---|------------------------------------|--|
| Measure date: / / / | 100110001404 | |
| Size or volume available from scan? | No Yes Not recorded | |
| Liver organ size (cm) | | |
| And/ Or | | |
| Liver volume: ml | | |
| Measure date:/// | | |
| Enlarged on palpation | No Yes Not recorded | |
| Measure date:/// | Not recorded | |
| Spleen Enlarged or normal from scan? | Enlarged Normal | |
| Measure date: / / / | Not recorded | |
| Size or volume available from scan? | No Yes | |
| Spleen organ size (cm) | Not recorded | |
| And/Or | | |
| Spleen volume: ml | | |
| Measure date: / / | | |
| Enlarged on palpation | No Yes Not recorded | |
| Mangura data: / / | | |

Measure date: ____/ ___/ ____

Ophthalmology – Child

Visual Acuity

| Using any age-appropriate test, eyesight is: | Normal Abnormal | |
|--|--------------------|--|
| Visual Acuity Test (Snellen eye chart) | Done Not Done | |

Measure date: ____ / ___ / ___ __ __

Left Eye ____ / ____ Right Eye ____ / ____

The first number given is the distance in metres from the chart. Usually this is a 6 (for 6 meters). The second number could be 60, 36, 24, 18, 12, 9, 6 or 5

| Corneal Cloud | ing | | | | | | |
|--|---------|-----------|--|-----------|-------|-----------|--|
| Recorded Not recorded | | | | | | | |
| Measure date: _ | / | / | | | | | |
| Left Eye | | No Yes | | Righ | t Eye | No Yes | |
| Intra Ocular P Recorded Not recorded | ressure | | | | | | |
| Measure date: _ | /_ | / | | | | | |
| Left Eye | | _ mmHg | | Right Eye | | _ mmHg | |

Other Measures

Urine GAG _____ mg/mmol of creatine

Measure date: ____ / ___ / ____ / ____

| Bone Marrow | | | | |
|--|--|-----------|----------|--|
| Not c | | | | |
| Date of first transplant: | :/// | | | |
| | □ sib □ MUD □ UCB □ Other Please Specify | | - | |
| First transplant rejectio No Yes Reject | on ction date:/ | / | | |
| ERT used before transp | plant? No Yes | | | |
| | | Duration: | mths yrs | |
| Date of second transpla | ant: / / | · | | |
| | □ sib □ MUD □ UCB □ Other Please Specify | | _ | |
| Second transplant rejec No Yes Rejec | etion | / | | |
| Date of third transplant | ::// | | | |
| | □ sib □ MUD □ UCB □ Other Please Specify | | - | |
| Third transplant rejecti No Yes Rejec | on ction date: / | / | | |
| | ns: acute GvHD Chronic GvHD | | | |

□ Viral reactivation

 \Box VOD

□ Pulmonary haemorrhage

□ Other Please Specify_____

Enzyme activity at 12 months post BMT ______ Unit: _____ milli units / unit of hexosaminidase at 37°C \square µmol/min/mg of protein

% donor chimerism at 12 months post BMT _____%

Heart Measures - Adult

| Echocardiogram: Done | Yes No | | Measure date: | // | |
|---------------------------|-----------|--------------------|------------------------------------|----|--|
| Valve Disease as reported | by cardi | iologist (on echo) | None Mild Moderate Severe | | |
| Valve replacements | | | No Yes | | |
| Date of valve replacement | t: | // | | | |

Airway / Lung / ENT – Adult

| Ventilation Recorded Not recorded | |
|---|---|
| Measure date: | // |
| The patient: | is free of ventilation is nocturnally ventilated only has intermittent daytime ventilation is ventilator-dependent (continuous) (drop down menu) |
| Average total nu | Imber of hours on ventilator per 24 hours |
| Sleep Study | Done Not done |
| Measure date: | // |
| | v saturation of 90% entage of time of duration of the study) |
| Lowest saturation (the value in perc | n recorded (%) ent of lowest recording that was not due to an artifact) |
| Pulmonary Fun | ction Test (best of 3 if there is more than one) |
| Patient upright | Test done□Test not done□Can't do test□ |
| Measure date: | // |
| FVC (%) | _ percentage of predicted |
| FEV1 (%) | _ percentage of predicted |
| Has patient had | surgical ENT intervention? No □ Yes □ please specify |
| Date of surgical i | ntervention:// |
| Audiometry Hearing Test: | Done \Box Not done \Box |
| Hearing Normal | No \Box Yes \Box |
| Measure date: | // |

Type of hearing loss (pick one)

| | over tested frequencies) (pick or | ie) |
|--|-----------------------------------|-----|
| Conductive | Mild (0-40 decibels) | |
| Sensorineural | Moderate (41-70 decibels) | |
| Mixed (combination of conductive & sensorineural | Severe (71-95 decibels) | |
| | Profound (over 95 decibels) | |

Note: to calculate the degree of hearing loss, add all the decibels and divide by the number of data points.

Hearing Aid Used

No□Yes□Not Recorded□

Type of hearing aid_____

Degree of hearing loss (average decibels

Neurological – Adult

| Neurological involvement | |
|-------------------------------|--|
| No Yes | |
| Not Recorded | |
| Measure date: / | / |
| Carpal Tunnel Syndrome | |
| Present | |
| Absent Not Recorded | |
| Measure date: / | / |
| Has patient had surgery for c | carpal tunnel syndrome? |
| Yes | How many times? |
| | Date of last Carpal Surgery:/// |
| Cervical Cord Compressio | n |
| Present Absent | |
| Not Recorded | |
| Measure date: / | / |
| Has patient had surgery for c | cervical cord compression? |
| No | |
| Yes Date of last Ce | L rvical Cord Compression Surgery://// |
| | |

Bone & Joint – Adult

Patient Mobility

Measure date: ____ / ___ / ___ __ __

 \Box can walk / stand unaided (i.e. can stand for 6 mins or walk for 5 meters) \Box can walk aided one stick (i.e. can't stand for 6 mins without a stick)

 \Box can walk aided more than one stick

□ is wheel chair bound

 \Box is bed bound (i.e. can't get into wheelchair)

| 6 Minute Walk Test | | |
|--|------------------|------------|
| Done Not Done | | |
| Measure date:/ // | _ | |
| Distance walked (m) | Aided Unaided | |
| Muscle Testing – limited MRC scale Done Not Done | – 0-5, whole nu | mbers only |
| Measure date://// | _ | |
| Muscle Test | Left | Right |
| Upper limb: | | |
| Shoulder abduction | | |
| Shoulder adduction | | |
| Elbow flexion | | |
| Elbow extension | | |
| Wrist flexion | | |
| Wrist extension | | |
| Lower limb: | | |
| Hip flexion | | |
| Hip extension | | |
| Knee flexion | | |

Muscle Test Score ____ (maximum score 120)

The patient was:

TOTAL

Knee extension Plantar flexion Dorsi flexion

□ during muscle testing

Onbthalmalagy Adult

| Ophthalm Visual Acuity (Sr | nellen e | | | | | | |
|---|-----------------|-----------|-----------|-------|---------------------|---------------|-----|
| | | | | | | | |
| | | | | | | | |
| Measure date: | / | / | | | | | |
| Left Eye/_ | | | Right Eye | / | | | |
| The first number § The second number | | | | | art. Usually this i | is a 6 (for 6 | m). |
| Corneal Clouding Recorded Not recorded | g □ □ | | | | | | |
| Measure date: | / | / | | | | | |
| Left Eye | | No Yes | | | Right Eye | No Yes | |
| Intra Ocular Pre Recorded Not recorded | ssure □ □ | | | | | | |
| Measure date: | / | / | | | | | |
| Left Eye | | mmHg | | Right | Eye | _ mmHg | |
| Retinal Disease - Recorded Not recorded | - Ad | ult | | | | | |
| Measure date: | / | / | | | | | |
| Left Eye | | No Yes | | | Right Eye | No Yes | |

Significant Co-morbidity

Does the patient have any co-morbidities? Yes / No

How many? _____

Please enter significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

| 1 | | | | | |
|--|----------------------|--|--|--|--|
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Heart Yes / No Lungs/respirato Yes / No Neurological Yes / No Skeletal/muscle Yes / No Opthamology Yes / No | Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No |
| Children Only | : | | | | |

Children Only:

| Liver and spl | een | | | | |
|---------------|----------|----------|----------|----------|----------|
| Yes / No | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No |
| Growth | | | | | |
| Yes / No | Yes / No | Yes / No | Yes / No | Yes / No | Yes / No |

Con-meds

Is the patient on any con meds?

| Medication Prescription? Dose | Frequency | Date started | Date finished Ongoing? |
|-------------------------------|-----------|--------------|------------------------|
|-------------------------------|-----------|--------------|------------------------|

Other Measures - Adult

Urine GAG _____ mg/mmol of creatine

Measure date: ____ / ___ / ___ _ _ _ _

Record of Therapy (Enzyme Replacement Therapy, etc.):

| Is patient on treatment | No □ Yes □ | |
|--|--|----------------|
| Initial Treatment Initially on | ERT clinical trial? | |
| Date of first Infusion: | / | / |
| Age when first infusion | received: | _ |
| Initial type of treatment | : | |
| Initial dose (Internation | al Units):(mg | () |
| Initial frequency: w e C | very 2 weeks \Box | Please Specify |
| Current treatment | | |
| Currently on ERT or cli | nical trial? | |
| Date started current trea | tment:/ | _/ |
| Current type of treatment | nt: | - |
| Current dose (Internatio | nal Units):mg | |
| | very 2 weeks \Box | Please Specify |
| Hospital/ home infusior | n: Infusion in Hosp Infusion at Hom | |
| Is the patient currently e | experiencing: | |
| Febrile reactions? | No Yes | |
| Anaphylactoid reactions | s? No Yes | |

| Other pre-medication: | No | |
|-----------------------|-----|--|
| - | Yes | |
| | | |

Antibody status

Measure date: ____ / ___ / ___ __ __

| Antibody status to infused product, Tested No | |
|---|-------|
| | _ |

Yes 🗆

Antibody status Test Result Positive No \Box

Yes \Box Don't know \Box

Record of Therapy (Enzyme Replacement Therapy, etc):

| Is patient on treatmen | nt No □ Yes □ | | | |
|---|-------------------------------------|-------------|-------------------------------------|--|
| Has patient stopped t | reatment since their | last visit? | No Yes | |
| Has patient started tro | eatment since their | last visit? | No Yes | |
| Initial Treatment Initially on ERT or c | linical trial? | | | |
| Date of first Infusion | : | //_ | | |
| Age when first infusi | on received: | | | |
| Initial type of treatme | ent: | | | |
| Initial dose (Internati | | ng | | |
| Initial frequency: | every 2 weeks | | e Specify | |
| Current treatment | | | | |
| Currently on ERT or | clinical trial? | | | |
| Date started current t | reatment:/_ | / | | |
| Current type of treatm | nent | | | |
| Current Dose (Interna | ational Units): | _mg | | |
| Current frequency: | weekly every 2 weeks Other | | e Specify | |
| Hospital/ home infus | ion: Infusion in H Infusion at H | | If Home: pick Nurse i Nurse o | |
| Is the patient currentl | y experiencing: | | | |
| Febrile reactions? | No Yes | | | |

| Anaphylactoid reactions? | No Yes | | | | |
|---|----------------------------------|----------------------|---------|---|---|
| Other pre-medication: | No Yes | | | | |
| Antibody status | | | | | |
| Measure date: / | _/ | | | | |
| Antibody status to infused | product, Teste | d No Yes | | | |
| Antibody Status Test Resul | t Positive | No Yes | | | |
| Stopped Treatment Final treatment on ERT or | clinical trial (d | rop down r | nenu) | | |
| Date of last infusion: | / | _/ | | | |
| Final type of treatment | | | | | |
| Final dose (International U | nits):m | g | | | |
| | 2 weeks [| □ □ □ Please S | Specify | | |
| Hospital/ home infusion: | Infusion in Ho Infusion at Ho | | If Hom | e: pick list: Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | |
| Why was treatment stopped | !? | | | | |
| Please specify: | | | | | |
| Visit date: | | | | current age: | _ |

Appendix 11d Clinical Record Form for MPS II patients

MPS II

Patient ID:

Date of visit ___/ ___/

MPS II CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached?

| No Do not continue Yes D | | | | | | | |
|---|--|--|--|--|--|--|--|
| Has the patient given informed signed consent? | | | | | | | |
| No Do not continue Yes D | | | | | | | |
| Has the parent/carer given informed signed consent? | | | | | | | |
| No \Box Do not continue Yes \Box | | | | | | | |
| Reason for not giving consent (if given): | | | | | | | |
| The patient is consented for: | | | | | | | |
| Records OnlyIRecords and QuestionnairesI | | | | | | | |
| Hospital ID | | | | | | | |
| Patient Identification number | | | | | | | |
| Date of consent// | | | | | | | |
| Version of consent form: | | | | | | | |

Patient Information

| Date of | birth | | // |
|-------------------|--|-------------------|--------------------------------------|
| Patient | age, in years, at consent | | |
| Gender | Male □ Female □ | | |
| | MPS II neurological involvement | | With neurological involvement \Box |
| Does the | e patient have a carer? | No Yes | |
| Onset o | f first symptoms Roughly / | exactly / | can't remember: / |
| Any oth | er family members affected? | | |
| | | Relation | ship to patient: |
| Date of | diagnosis: month and year: | / | _ |
| Method | of diagnosis: | | |
| □ Reco □ Not 1 | orded recorded | | |
| Iduurona | ate-2-sulfatase activity | □ Norm □ Defic | |
| Iduuron | ate-2-sulfatase cDNA | □ Done □ Not I | |
| cDNA r | esult as amino acid change | | |
| | | | |

Skin Biopsy – Enzyme Assay

| Prenatal Diagnosis (chorion villus biopsy) | □ No □ Yes | | | | |
|---|---|---------------|---------|-----------|--------------------------------|
| Enzyme Assay Results | | | _ | | |
| Urine GAG test | □ No □ Yes | | | | |
| Urine GAG test Results | | | _ (mg/m | mol of cr | eatine) |
| Reason for diagnosis Was patient detected by family so | creening? | □ No □ Yes | | | |
| Did the patient present with symp | ptoms? | □ No □ Yes | | | |
| If so, what? | | | | | |
| Current Employment Status | Paid Employed Unemployed Unpaid Employn | nent | | If emplo | oyed Full time Part time |

Body Measurements – Adults & Child

Measure date: ____ / ___ / ___ __

Height (cm)

Weight (kg)

Children only:

Head Circumference (cm)

Heart Measures - Adult

| Echocardiogram: Done | Yes No | | Measure date: | _// | |
|------------------------------|-----------|-------------------|------------------------------------|-----|--|
| Valve Disease as reported by | v cardio | ologist (on echo) | None Mild Moderate Severe | | |
| Valve replacements | | | No Yes | | |

Date of replacement: ____ / ___ / ___ _ _ _

Airway / Lung / ENT – Adult

| Ventilation | | Recorded Not recorded | | |
|---|---------------|---|-----------------------|-------------|
| Measure date: / | / | | | |
| The patient: | | is free of ventilat is nocturnally ven has intermittent of is ventilator-dep | ntilated o laytime | ventilation |
| Average number of hou | ırs on ventil | ator per 24 hours | | |
| Sleep Study | | Done Not done | | |
| Measure date: / | / | | | |
| Time spent below satur (Given as a percentage | | | ly) | - |
| Lowest saturation record (the value in percent of | | ation of the study) | | - |
| Pulmonary Function | Fest (best o | f 3 if there is mor | e than o | one) |
| Patient upright | | Test Done Test not done Can't do test | | |
| Measure date: / | / | | | |
| FVC (%) perc | entage of p | redicted | | |
| FEV1 (%) perc | entage of pr | redicted | | |
| Has patient had surgio | cal ENT int | tervention? | No Yes | |
| Please specify | | | | |
| Date of surgical interve | ntion: | _// | | |

Audiometry

| Hearing Test: | Done Not D | one | | | |
|--|--|-----|----------------------|-----------------------------|--|
| Measure date: / | _/ | | | | |
| Hearing Normal: | No Yes | | | | |
| Type of hearing loss (pick one)Degree of hearing loss (average decibels over tested frequencies) (pick one) | | | cibels | | |
| Conductive | | | Mild (0-40 decibels) | | |
| Sensorineural | | | | Moderate (41-70 decibels) | |
| Mixed (combination of con | nductive & | | | Severe (71-95 decibels) | |
| sensorineural | | | | Profound (over 95 decibels) | |
| Note: to calculate the degree of h | Note: to calculate the degree of hearing loss, add all the decibels and divide by the number of data points. | | | | |
| Hearing Aid Used | No Yes Not Recorded | | Ty | pe of hearing aid | |

| 0 | L |
|--------------|---|
| es | Ľ |
| lot Recorded | |

Neurological – Adult

| Neurological involvement | | |
|-------------------------------|-------------------------|-----------------------------|
| | No | |
| | Yes | |
| | Not Recorded | |
| Measure date: / / | / | |
| Carpal Tunnel Syndrome | | |
| ourpur runner synur onne | Present | |
| | Absent | |
| | Not Recorded | |
| Measure date: / | / | |
| Has patient had surgery for | carpal tunnel syndrome? | |
| | No 🛛 | |
| | Yes 🗖 | How many times? |
| | | Date of last surgery: / / / |
| Cervical Cord Compressio | | |
| | Present | |
| | Absent | |
| | Not Recorded | |
| Measure date:/ | / | |
| Has patient had surgery for | | |
| No | | |

 Yes
 Image: Constraint of last surgery:

 Date of last surgery:
 _____/ ____/

Bone & Joint – Adult

Patient Mobility

Recorded Not recorded

Measure date: ___ / ___ / ___ __

 \Box can walk / stand unaided (i.e. can stand for 6 mins or walk for 5 meters)

 \Box can walk aided one stick (i.e. can't stand for 6 mins without a stick)

 \Box can walk aided more than one stick

 \Box is wheelchair bound

□ is bed-bound (i.e. can't get into wheelchair)

6 Minute Walk Test

Done Not Done

Measure date: ___ / __ / __ __ /

Distance walked (m) _____ Aided Unaided Unaided

Ophthalmology – Adult

| Visual Acuity (Done Not Done | Snellen eye chart) □ □ | | | | |
|--|------------------------------|---------------------|--------------------|------------|---|
| Measure date: _ | // | | | | |
| Left Eye/ | / | Right Eye | / | | |
| The first number give | ven is the distance in m | etres from the char | t. Usually this is | 6m. The se | econd number could be 60, 36, 24, 18, 12, 9, 6 or 5 |
| Corneal Cloud Recorded Not recorded | ing □ □ | | | | |
| Measure date: _ | // | | | | |
| Left Eye No Yes | | Righ | nt Eye | No Yes | |
| Intra Ocular P Recorded Not recorded | ressure | | | | |
| Measure date: | // | | | | |
| Left Eye | mmHg | | Right Ey | ye | mmHg |
| Retinal Disease Recorded Not recorded | | | | | |
| Measure date: _ | // | | | | |
| Left Eye No Yes | | Righ | nt Eye | No Yes | |

Heart Measures - Child

| Echocardiogram: | Done Not done | Measure date: | .// |
|-------------------------------|--------------------------|--|-----|
| Left Ventricular Ejection fra | action <60% | No Yes | |
| Valve Disease as reported b | oy cardiologist (on echo |) None □ Mild Moderate Severe | |
| Valve Disease severe enoug | gh to require medication | n No Yes | |
| Valve replacements | | No Yes | |

Airway / Lung / ENT - Child

| Sleep Study | Done Not done | | | | |
|--|---------------------------------|-------------|--|------------------|--|
| Measure date: / | / | | | | |
| Time spent below saturation (Given as a percentage of time | | f the study | ý) | | |
| Lowest saturation recorded (the value in percent of time | | he study) | | | |
| Pulmonary Function Test | (best of 3 if the | re is more | e than one) | | |
| Patient upright | Test Do Test not Can't do | done | | | |
| Measure date: / | / | | | | |
| FVC (%) percenta | ge of predicted | | | | |
| FEV1 (%) percentag | ge of predicted | | | | |
| Audiometry Using any age-appropriate audiometry test, hearing is: Normal Abnormal Not done | | | | | |
| Measure date:// | | | | | |
| Type of hearing loss (pick one)Degree of hearing loss (average decibels over tested frequencies) (pick one) | | | | | |
| Conductive Sensorineural Mixed (combination of cond sensorineural | luctive & | | Mild (0-40 d Moderate (41 Severe (71-9 | I-70 decibels) | |
| sensormeurar | | | Profound (ov | ver 95 decibels) | |
| Note: to calculate the degree of hearing loss, add all the decibels and divide by the number of data points. | | | | | |

Difficulty with intubation for anaesthesia?
DNo

| stnesia: | |
|----------|------------------------------------|
| | □ Yes |
| | \square No operation carried out |
| | |

Date of operation: ____/ ___/ ____/

Neurological – Child

| DQ Test: | Done Not Done | |
|-------------------|------------------|---|
| Measure dat | e: / | / |
| DQ Score | | |
| IQ Test: | Done Not Done | |
| Measure date: / / | | |
| IQ Score | | |

Hydrocephalus

| cephanus | | |
|----------|--------------|--|
| | Present | |
| | Absent | |
| | Not Recorded | |

Measure date: ____ / ___ / ____ / ____

Carpal Tunnel Syndrome

| Present | |
|--------------|--|
| Absent | |
| Not Recorded | |

Measure date: ____ / ___ / ___ __

Bone & Joint – Child

Patient Mobility

| Test: | Applicable Not Applicable due to age | |
|------------|---|--|
| Measure of | late: / / | |
| | | |

6 Minute Walk Test

| | Done Not Done | | | |
|---------------|------------------|----|------------------|--|
| Measure date | :/ | ./ | | |
| Distance wall | xed (m) | | Aided Unaided | |

Liver & Spleen – Child

Liver

| Enlarged or normal from scan? | Enlarged Normal Not recorded | |
|---|------------------------------------|--|
| Measure date:/// | | |
| Size or volume available from scan? | No Yes Not recorded | |
| Liver organ size (cm) | | |
| And/Or | | |
| Liver volume: ml | | |
| Measure date: / / | | |
| Enlarged on palpation | No Yes Not recorded | |
| Measure date:/// | Not recorded | |
| Spleen Enlarged or normal from scan? | Enlarged Normal | |
| Measure date: / / | Not recorded | |
| Size or volume available from scan? | No Yes Not recorded | |
| Spleen organ size (cm) | 1 lot locoldou | |
| And/ Or | | |
| Spleen volume: ml | | |
| Measure date: / / | | |
| Enlarged on palpation | No | |
| Measure date: / / | Yes Not recorded | |

| Ophthal | lmology – | Child |
|----------------|-----------|-------|
| Visual Acuity | V | |

| Using any age-ap | opropriat | e test, eyesight is: | Normal Abnormal | | |
|--|-----------------------|------------------------------------|------------------------|------------|--|
| Visual Acuity Te Done Not Done | est (as tes □ □ | sted by an appropriate test f | for age and DQ) | | |
| Measure date: | / | / | | | |
| Left Eye/ | | Right Eye | / | | |
| The first number give | en is the di | stance in metres from the chart. U | sually this is 6m. The | second num | ber could be 60, 36, 24, 18, 12, 9, 6 or 5 |
| Corneal Cloudin Recorded Not recorded | ng □ □ | | | | |
| Measure date: | / | / | | | |
| Left Eye | No Yes | | Right Eye | No Yes | |
| Intra Ocular Pr Recorded Not recorded | essure | | | | |
| Measure date: | / | / | | | |
| Left Eye | | mmHg | Right Eye | r | nmHg |
| Optic disc swell Recorded Not recorded | ing □ □ | | | | |
| Measure date: | / | / | | | |
| Left Eye Yes | No □ | | Right Eye Yes | No 🗖 | |
| Retinopathy Optic disc swells Recorded Not recorded | ing □ □ | | | | |
| Measure date: | / | / | | | |
| Left Eye | No Yes | | Right Eye | No Yes | |

Other Measures – Adult & Child

Urine GAG _____ mg/mmol of creatine

Measure date: ___ / ___ / ___ _ __

Bone Marrow Transplant - Child

| Done Not done | | | | |
|---|--|--|--|--|
| Date of first transplant: | // | | | |
| Type of first transplant | □ sib □ MUD □ UCB □ Other Specify | | | |
| First transplant rejection | n No \square Yes \square Date of rejection:// | | | |
| ERT used before transp | lant? No □ Yes □ | | | |
| | If Yes: Duration:mthsyrs | | | |
| Date of second transplan | nt: / / | | | |
| |] sib] MUD] UCB] Other Specify | | | |
| Rejection No Yes | □ Date of rejection:// | | | |
| Date of third transplant | and type if needed: / / | | | |
| |] sib] MUD] UCB] Other Specify | | | |
| Rejection No Yes | □ □ Date of rejection:// | | | |
| Transplant complications: acute GvHD Chronic GvHD Viral reactivation VOD Pulmonary haemorrhage | | | | |
| | Other Please Specify | | | |
| Enzyme activity at 12 m Unit: | milli units / unit of hexosaminidase at 37°C | | | |

Significant Co-morbidity Does the patient have any co-morbidities? Yes / No

How many? _____

Please enter significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

| - | | | | | |
|---|--|--|--|--|--|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Heart Yes / No Airway Yes / No Neurological Yes / No Skeletal/muscle Yes / No Opthamology Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No | Yes / No Yes / No Yes / No Yes / No Yes / No |
| Children Only: | | | | | |
| Liver and spleen | X / X | | N7 / N1 | | X / X |

| Yes / No |
|----------|----------|----------|----------|----------|----------|
| Growth | | | | | |
| Yes / No |

Con-meds

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on treatmen | t No □ Yes □ |
|--|---|
| Initial Treatment Initially on | ERT □ clinical trial? □ |
| Date of first treatment | ::// |
| Age when first infusio | on received: |
| Initial type of treatme | nt: |
| Initial dose: | (mg/kg) |
| Initial frequency: | 3 x each weekI2 x each weekIWeeklyIEvery 2 weeksIEvery 3 weeksIMonthlyI |
| Current treatment | |
| Currently on | ERT clinical trial? |
| Date started on currer | t treatment / / |
| Current type of treatm | ient |
| Current dose: | mg/kg |
| Current frequency: | 3 x each weekI2 x each weekIWeeklyIEvery 2 weeksIEvery 3 weeksIMonthlyI |
| Hospital/ home infusi | on: Infusion in Hospital □ Infusion at Home □ If Hom |

| If Home: pick list: | |
|---------------------------------|--|
| Nurse infuses | |
| Nurse cannulates and infuses | |
| Patient cannulates and infuses | |
| Relative cannulates and infuses | |

Is the patient currently experiencing:

| Febrile reactions? | No Yes | | | | | |
|--|-------------|-----------|---------|----------|-------------------------|--|
| Analphylactoid reactions? | No Yes | | | | | |
| Other pre-medication: | No Yes | | | | | |
| Antibody status | | | | | | |
| Measure date: // / / / // // // // // / / | | | | | | |
| Antibody status to infused produ | uct, Tested | No Yes | If Yes, | Positive | No Yes Don't know | |

Withdrawal from the study

| Is the patient still in the full study? | | No Yes | | | | |
|--|---|-----------|---------------|--|--|--|
| With | drawal date:/// | | | | | |
| Reaso | on for Withdrawal | | | | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't reconsent Other | Please | e specify | | | |
| | | | | | | |
| Conti | nue in the study notes only? | No Yes | | | | |
| Reco | rd of death | | | | | |
| Date | of death: / / | | | | | |
| Did clinician certify this death as condition related? | | | No □ Yes □ | | | |
| Pleas | e record the wording from the dearth certifica | ite: | | | | |
| Part 1a Free text (Disease or condition directly leading to death) | | | | | | |
| Part 1 | Part 1b Free text (Other disease or condition, if any, leading to 1a) | | | | | |
| Part 1 | Part 1c Free text (Other disease or condition, if any, leading to 1b) | | | | | |

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Appendix 11e Clinical Record From for Pompe patients

Pompe

Patient ID:

Date of visit ___/ ___ / ____

Pompe CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached?

No \square Do not continue Yes \square

Has the patient given informed signed consent?

No \square Do not continue Yes \square

Has the parent / carer given informed signed assent?

No \square Do not continue Yes \square

Reason for not giving consent:

The patient consented for CRecords Only CRecords and Questionnaires

___/__/____

Patient Identification number

Date of consent

Version of consent form:

General Patient Information for non-cardiomyopathy and cardiomyopathy

| Date of birth | // | | | |
|---|---|----------|---|--|
| Gender: | Male □ Female □ | | | |
| Type of Pompe | Non-cardiomyopat Cardiomyopathy | hy | | |
| Does the patient have a carer? | No □ Yes □ | | | |
| Onset of first symptoms is: Roughly Exactly Can't remember | | Month _ | Year | r |
| Other family members affected? No Yes | If Yes how many Relationship/s to pa | | Mother Father Sibling Other (enter un | □ □ □ Please specify nique ID no of relations) |
| Month & Year of diagnosis Month | Unknown 🛛 | If Mont | h unknow | vn: Year |
| Method of diagnosis (tick one o | f more below if do | ne) | | |
| Recorded Not recorded | | | | |
| GAA activity: | Normal Deficient | | (also kn | own as: acid maltose, acid-alpha glucosidase) |
| GAA cDNA | Not Done Done | | results: | |
| | | Allele 1 | | |
| | | Allele 2 | | |
| Muscle biopsy | □ result: | | ative itive | (=glycogen in vacuoles or staining for enzyme acid phosphotase, depending on test) |
| Employment Status | Paid Employed Unemployed Unpaid Employr | nent | | If employed Full time Part time |

Reason for diagnosis:

Non cardiomyopathy – adult

| Was the patient detected by family screening | No Yes | | | |
|--|-----------|------------------------------|----------------------------------|--|
| Did the patient present with symptoms | No Yes | If Yes did the patient have: | | |
| Proximal Myopathy | No Yes | pick one: | Upper Limb Lower Limb Both | |
| Breathing Difficulties | No Yes | | | |
| Other symptoms | No Yes | | | |
| Please specify: | _ | | | |

Reason for diagnosis: Non cardiomyopathy – children (juvenile)

| Was the patient detected by family screening? | No Yes | |
|---|-----------|------------------------------|
| Did the patient present with symptoms? | No Yes | If Yes did the patient have: |
| Abnormal muscle weakness | | No Yes |
| Poor Growth | | No Yes |
| Recurrent chest infections | | No Yes |
| Other symptoms | | □ Please specify: |

Reason for diagnosis: Cardiomyopathy (infantile)

| With which of the following symptoms did the patient present: Failure to thrive | | No Yes | |
|---|-----------------|-----------|--|
| Ν | luscle weakness | No Yes | |
| C | ardiomyopathy | No Yes | |

Withdrawal from the study

| Is the | patient still in the full study? | No Yes | | | | |
|---------|---|-----------|--------------------------|--|--|--|
| Withd | rawal date:/// | | | | | |
| Reaso | n for Withdrawal | | | | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't reconsent Other | Please | e specify | | | |
| _ | | 1 10400 | | | | |
| Contii | nue in the study notes only? | No Yes | | | | |
| Recor | rd of death | | | | | |
| Date of | of death: / / | | | | | |
| Did cl | inician certify this death as condition related | ? | No Yes | | | |
| Please | record the wording from the dearth certifica | te: | | | | |
| Part 1 | a Free text (Disease or condi | tion di | rectly leading to death) | | | |
| Part 1 | Part 1b Free text (Other disease or condition, if any, leading to 1a) | | | | | |
| Part 1 | Part 1c Free text (Other disease or condition, if any, leading to 1b) | | | | | |

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Bone & Joint

Patient Mobility

Test: Recorded □ Not recorded □

Measure date: ___ / ___ / ___ __

can walk / stand unaided (i.e. can stand for 6 mins or walk for 5 meters)
can walk aided one stick (i.e. can't stand for 6 mins without a stick)
can walk aided more than one stick
is wheelchair bound
is bed-bound (i.e. can't get into wheelchair)

6 Minute Walk Test

| | Done Not Done | | | |
|-------------|------------------|--------|------------------|--|
| Measure dat | e: / | / | | |
| Distance wa | lked (m) | | Aided Unaided | |
| Timed Gow | er's test for ch | ildren | | |
| | Done Not Done | | | |

| Measure | date: | , | / | / | / | | |
|---------|-------|------|---|---|---|------|--|
| | | | | | | | |
| | | | | | | | |

| Positive | |
|--------------------|--|
| Negative | |
| Gave up / can't do | |

Seconds to complete _____

Muscle Testing – limited MRC scale – 0-5, whole numbers only

Done Not Done

Measure date: ___ / ___ / ___ _ _ _

| Muscle Test | Left | Right |
|--------------------|------|-------|
| Upper limb: | | |
| Shoulder abduction | | |
| Shoulder adduction | | |
| Elbow flexion | | |
| Elbow extension | | |
| Wrist flexion | | |
| Wrist extension | | |
| Lower limb: | | |
| Hip flexion | | |
| Hip extension | | |
| Knee flexion | | |
| Knee extension | | |
| Plantar flexion | | |
| Dorsi flexion | | |
| TOTAL | | |

| Muscle Test Score (max | imum score 120) |
|------------------------|-----------------|
|------------------------|-----------------|

The patient was:

| Passive | 0 |
|---------|---|
| Active | [|

□ □ during muscle testing

| Dynanometry Test | |
|------------------|--|
| Done | |
| Not Done | |

| Measure date: / | / |
|-----------------|---|
|-----------------|---|

Grip Strength (kg) _____ (best of three)

Respiratory

| Respirato | J | | | |
|---|----------------|--------------|---|--------------|
| Ventilation Recorded Not recorded | | | | |
| Measure date: | /_ | / | | |
| The patient: | | has interm | ventilation ally ventilated onl attent daytime ven or-dependent (con | ntilation |
| Average number | of hou | rs on ventil | ator per 24 hours | |
| | | | | |
| Pulmonary Fun | ction T | ſest (best o | f 3 if there is mo | re than one) |
| Patient lying do | wn | | Test Done Test not done Can't do test | |
| Measure date: | /_ | / | | |
| FVC (%) | _ perc | entage of p | redicted | |
| FEV1 (%) | _perce | entage of pi | redicted | |
| | | | | |
| Patient upright | | | Test Done Test not done Can't do test | |
| Measure date: | /_ | / | | |
| FVC (%) | _ perc | entage of p | redicted | |

FEV1 (%) _____ percentage of predicted

Swallowing difficulties

Recorded □ Not recorded □

Measure date: ____ / ___ / ___ __

| Does the patient have swallowing difficulties – | No | |
|---|-----|--|
| | Yes | |

Sleep study(Children under 8)Done \Box Not Done \Box If Done:

Measure date: ____ / ___ / ___ __

Time spent below saturation of 90% ___% (Given as a percentage of time of duration of the study)

Lowest saturation recorded _____% (the value in percent of lowest recording that was not due to an artifact)

Other measures

| Body Measurements – Height Recorded Not recorded | |
|---|--------|
| Measure date: / / / | |
| Height (m) | |
| Body Measurements – Weight Recorded Not recorded | |
| Measure date: / / | |
| Weight (Kg) | |
| Vitamin DRecordedINot recordedI | |
| Measure date:/// | |
| Does the patient have clinically significant Vitamin D deficiency | Y N |

| Yes | |
|------------|--|
| No | |
| Not tested | |

Heart

Echocardiogram:

| Done Not Done | | | |
|------------------|--------------------------|----------|------------------|
| Measure date: | // | | |
| Left V | Ventricular Mass ind | dex | g/m ² |
| Left V | entricular Ejection | fraction | 0⁄/0 |
| Fracti | on Shortening | | % |
| Arrhy | thmias present absent | | |

Bone & Joint – Children

| Using any parent reported Motor m Recorded Not recorded Not recorded | ilestones scal | e, is the patient able to | do the following? |
|---|---------------------------|---------------------------|-------------------|
| Measure date: / / / / / | | | |
| Sit unsupported: | Able Unable | | Months |
| Stand independently: | Able Unable | | Months |
| Walk: | Able Unable | | Months |
| Walk upstairs one step at | a time: Able Unable | | Months |
| Muscle strength - Gross Motor F | unctional Me | easure (GMFM-66) | |
| Not done□Done□ | | | |
| Measure date: / / / / / | | | |
| Score:% | | | |
| Fractures Recorded □ Not Recorded □ | | | |
| Measure date:/// | | | |

No of fractures in the last 6 months:

Airway / Lung / ENT

| Swallowing difficulties Recorded Not recorded I |
|--|
| Measure date: / / / |
| Does the patient feed orally? No \Box Yes \Box |
| Can patient swallow liquid? |
| Can patient swallow pureed food? |
| Can patient swallow solid food? |
| Ventilation Recorded □ Not recorded □ Measure date: // |
| The patient:Iis free of ventilationIis nocturnally ventilated onlyIhas intermittent daytime ventilationIis ventilator-dependent (continuous) |

Average number of hours on ventilator per 24 hours _____

Sleep studyNot Done□Done□ If Done:

Measure date: ____ / ___ / ___ __

Time spent below saturation of 90% ____% (Given as a percentage of time of duration of the study)

Lowest saturation recorded _____% (the value in percent of lowest recording that was not due to an artifact)

Audiometry

Hearing Test done: Yes No

| Measure date: | _/ / | | | | |
|--|-----------------|----------------------|------------|--|--|
| Hearing Normal: | Yes No | □ □ If No | | | |
| Type of hearing los | ss (pick on | 2) | | Degree of hearing loss (average do over tested frequencies) (pick one | |
| Conductive Sensorineural Mixed (combination sensorineural | of conduc | tive & | | Mild (0-40 decibels) Moderate (41-70 decibels) Severe (71-95 decibels) | |
| sensormeurar | | | | Profound (over 95 decibels) | |
| Note: to calculate the deg | gree of hearing | loss, add all the de | cibels and | divide by the number of data points. | |
| Type of hearing aid: | | | | | |
| Pulmonary Function | on Test (be | st of 3 if there i | s more | than one) | |
| Detient lying down | | Tost Dono | | 7 | |

| r atient lying down | Test not done Can't do test | |
|---------------------|--------------------------------|--|
| Measure date: / / | | |
| FVC (%) percentage | e of predicted | |

| FEV1 (% |) percentage | of predicted |
|---------|--------------|--------------|
|---------|--------------|--------------|

| Patient upright | Test Done | |
|-----------------|---------------|--|
| | Test not done | |
| | Can't do test | |

FVC (%) _____ percentage of predicted

FEV1 (%) _____ percentage of predicted

Growth & Diet

| Feeding Recorded Not Recorded | |
|---|---------------|
| Measure date: / | _/ |
| High protein diet | No □ Yes □ |
| Body measurements Recorded Not Recorded | |
| Measure date: / | _/ |
| Height cm | |
| Weight Kg | |
| Head circumference (cm) | |

Significant Co-morbidity

Please enter up to three significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

| 1 | | | |
|---|--|--|--|
| 2 | | | |
| | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| | | | |

6

| Non-cardiomyopathy | 1 | 2 | 3 |
|---------------------|----------|----------|----------|
| Muscle | Yes / No | Yes / No | Yes / No |
| Lungs / respiratory | Yes / No | Yes / No | Yes / No |
| Growth | Yes / No | Yes / No | Yes / No |

Cardiomyopathy

| Heart | Yes / No | Yes / No | Yes / No |
|-------------------|----------|----------|----------|
| Skeletal / muscle | Yes / No | Yes / No | Yes / No |
| Respiration | Yes / No | Yes / No | Yes / No |
| Growth | Yes / No | Yes / No | Yes / No |

Con-meds

| Medication | Prescription? | Dose | Frequency | Date started | Date finished | Ongoing ? |
|------------|---------------|------|-----------|--------------|---------------|------------------|
| | | | | | | |

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on ERT | No □ Yes □ | | | | |
|---|--|------|---------------|--|--|
| Initial Treatment Initially on | 2111 | | | | |
| Date of first infusion: | | | | | |
| Age when first infusion | received: | | | | |
| Initial type of treatment: | Myozyme | | | | |
| Initial dose: | _mg | | | | |
| | eekly □ very 2 weeks □ | | | | |
| Current treatment Is patient currently on | | | | | |
| Date started current treat | tment?// | | | | |
| Current type of treatmen | t | | | | |
| Current dose: | mg | | | | |
| | eekly □ very 2 weeks □ | | | | |
| Hospital/ home infusion | Infusion in Hospit Infusion at Home | al 🗆 | | Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | |
| Is the patient currently experiencing: | | | | | |
| Febrile reactions? | 1.0 | | | | |
| Analphylactoid reactions | | | | | |
| Does the patient require | any pre-medication: | | No □ Yes □ | | |

Antibody status

Measure date: ___ / __ / __ __ /

Antibody status to infused product, Tested No

Yes D If Yes, Positive No Yes

Don't know \Box

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on ERT | No Yes | | | | | |
|--|--------------------------|------------|----------|----|---------------------|--|
| Has patient stopped tre | eatment since | their la | st visi | t? | No Yes | |
| Has patient started trea | atment since | their last | t visit? | ? | No Yes | |
| Initial Treatment Initially on | ERT clinical t | rial? | | | | |
| Date of first infusion: | | // | | | | |
| Age when first infusio | n received: | | | | | |
| Initial type of treatmen | nt: | | | | | |
| Initial dose: | mg | | | | | |
| | weekly every 2 week | as 🗆 | | | | |
| Current treatment | | | | | | |
| Is patient currently on | ERT clinical t | rial | | | | |
| Date started current tre | eatment? | | | | | |
| Current type of treatme | ent | | | | | |
| Current dose: | mg | | | | | |
| | weekly every 2 week | as 🗆 | | | | |
| Hospital/ home infusio | on: Infusion Infusion | | | | If Home: pick list: | Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses |
| Is the patient currently Febrile reactions? | Ν | | | | | |
| Analphylactoid reaction | | o es | | | | |

| Does the patient require any pre-medication: | No Yes |
|--|---------------------------------------|
| Antibody status | |
| Measure date:/// | |
| Antibody status to infused product, Tested No Yes | □ □ If Yes, Positive No □ Yes □ |
| Stopped TreatmentFinal treatment onERTclinical trial□ | |
| Date of last infusion:// | |
| Final type of treatment | |
| Final dose:mg | |
| Final frequency:weekly \Box every 2 weeks \Box | |
| Hospital/ home infusion: Infusion in Hospital Infusion at Home | |

Why was treatment stopped?

Appendix 11f Clinical Record Form for NPC patients

NPC

Patient ID:

Date of visit ___/ ___/

NPC CRFs

Inclusion Criteria

Has Clinician given consent for the patient or their carer to be approached?

No \Box Do not continue Yes \Box

Has the patient given informed signed consent?

No \Box Do not continue Yes \Box

Has the parent/carer given informed signed consent?

No \Box Do not continue Yes \Box

Reason for not giving consent (if given):

Hospital ID:

Patient Identification number

Date of consent ____/ ___/ ____

Version of consent form:

Patient Information

General Patient Information for MPS1 Adults and Children

| Date of birth | | | / | _// | | | |
|--|---|--|--------------------|--|--|--|--|
| Gender | | | Male □ Female □ | | | | |
| Does the patient have a carer | | | Yes No | | | | |
| Onset of first symptoms | Roughly exactly can't rer | | | // | | | |
| Any other family membe | ers affected? | | | | | | |
| Month and Year of Diag | No Yes Unknown If so, how many? nosis Month and | Relation Mother Father Sibling Other | □ □ □ Plea | o patient: ease Specify | | | |
| Method of diagnosis | Recorded Not recorded | | | | | | |
| Cultured skin fibroblast | s: | | | | | | |
| Studies of filipin staining | | □ Norr □ Abn | | | | | |
| LDL-induced cholesteryl Formation | ester | □ Norr □ Abn | | | | | |
| | | □ Don □ Not | | | | | |
| NPC1 cDNA results as amino acid change | | | Please 1 | e use the following format e.g. Thr1036Met/Gln928Pro | | | |
| NPC2 cDNA | | □ Done □ Not e | | | | | |
| NPC2 cDNA results as an | nino acid change | | Please u | e use the following format e.g. Glu20Ter/Ser67pro | | | |

| Reason for diagnosis Was patient detected by family so | creening? | □ No □ Yes | | |
|---|---------------------------------------|--|--|--|
| Did the patient present with symp | ptoms? 🗆 No | □ Yes If so, what? | | |
| What symptoms did they present | with? □ Hepa | tic Splenic Pulmonary Neurological Psychiatric Ophthalmic Haematological Other Please specify | | |
| Physician of initial presentation: | | | | |
| Please specify | | □ GP □ Neonatal obstetrician / specialist □ Psychiatrist □ Haematologist □ Other | | |
| Current Employment Status | Paid Employed Unemployed Unpaid | Employment | | |
| Select as appropriate | Full time Part time | | | |

Neonatal Symptoms

Cholestatic jaundice/ hepatomegaly

| □Present | |
|---------------------|--|
| □Absent | |
| \Box Not recorded | |

Measure Date:

___/___/____

This was detected Antenatally from scan Postnatally

Is treatment required? \Box No \Box Yes

Liver volume (ml) _____ from MRI/CT

And / or:

Liver size (cm) _____ No. of cm below the costal margin on the mid clavicular line

Splenomegaly

□ Present □ Absent □ Not recorded

Measure Date:

___/___/

This was detected Antenatally from scan Postnatally

Is treatment required?

□No □Yes

Spleen volume (ml) _____ from MRI/CT

And / or:

Spleen size (cm) _____ No. of cm below the costal margin on the mid clavicular line

Hydrops fetalis (Abnormal accumulation of fluid)

□Present □Absent □Not recorded

Measure Date:

___/__/____

Ascites present

□No □Yes

Oedeama present

| □No | |
|------|--|
| □Yes | |

Is Special Care Baby Unit (SCBU) Care required? □No □Yes

Liver function/ failure - is the Prothrombin Time (PT) greater than 100?
No
Yes
Not recorded

Measure Date: ____/ ____/

CNS measures

Learning Difficulties / Cognitive impairment

□Recorded □Not recorded

Measure Date: ____/ ___/ ____

Severity of learning difficulties:

- $\Box 0$ No learning difficulties
- □1 Mild language and/or memory impairment, school or work difficulties, but still attending school or working
- **2** Moderate to severe impairment of school or work function, but still at school or work, able to converse. Obvious memory impairment
- □3 Unable to attend school or work, but able to perform most self care and function at home. Severe language and memory impairment
- \Box **4** No functional memory or language.

Seizures / Epilepsy

□Recorded □Not recorded

Measure Date:

____/ ____/ _____

On anti epileptic medication? □Yes □No □Not recorded

Severity of Seizures:

- $\Box 0$ No seizures
- **Provoked** seizures only (i.e. with fever or intercurrent illness)
- **D2** One seizure per month or less frequently
- **3** One seizure per week to one seizure per month
- **4** More than one seizure per week

Other Cortical Signs:

Present

□Absent

 \Box Not recorded

___/___/_____

Please specify:

Vertical supranuclear gaze palsy

□Recorded □Not recorded

Measure Date:

___/___/____

Severity of Vertical supranuclear gaze palsy:

- **0** Normal
- □1 Prolonged saccadic latency only
- □ 2 Mildly to moderately slowed saccades
- □ 3 Marked slowing of saccades
- □4 Absent saccades

Ataxia

□Recorded □Not recorded

Measure Date:

___/___/_____

Severity of ataxia:

 $\Box 0$ Normal

□1 Apparent only on tandem walking

- □2 Ataxia on straight gait
- \Box 3 Able to walk only with assistance
- \Box 4 Unable to walk

Pyramidal tract dysfunctions (sic!) (movement disorders)

- Recorded
- \Box Not recorded

Measure Date:

___/___/____

Severity of Pyramidal tract dysfunction:

- $\Box 0$ Normal
- □1 Normal tone with increased reflexes
- □ 2 Mildly to moderately increased tone and reflexes
- □3 Marked spasticity with gait impairment (scissoring)
- □4 Severe spasticity with inability to walk.

Dystonia / difficulty in positioning limbs

- \Box Recorded
- \Box Not recorded

Measure Date:

/ /

Severity of Dystonia:

- **0** Normal
- □1 Dystonia apparent only with action (e.g. posturing of hands or feet with walking, stressed or unstressed)
- □2 Dystonia of one limb, apparent at rest
- □3 Dystonia of two or more limbs, sparing axial muscles
- □4 Generalised dystonia

Speech – Dysarthia "slurred or irregular"

- Recorded
- \Box Not recorded

Measure Date:

___/___/_____

Severity of Speech problems:

0 Normal

□1 mild dysarthria, not impairing intelligibility

□2 moderate dysarthria, impairing intelligibility of more than 50% of spoken words to independent observer

- \Box 3 Severe dysarthria, with most speech unintelligible to independent observer
- □4 Anarthria

Swallowing difficulties/Dysphagia

□ Recorded □ Not recorded

Measure Date:

____/ ____/ _____

Severity of swallowing difficulties/Dysphagia:

- $\Box 0$ Normal
- □1 choking/regurgitation with thin liquids
- \Box **2** occasional choking on dry solids
- □3 choking/regurgitation with thick liquids
- \Box **4** unable to swallow

Cataplexy: Recorded Not recorded

Measure Date:

___/___/_____

Severity of Cataplexy:

0 Normal

 \Box **1** head nodding episodes only

2 Episodes impairing tone beyond head nodding, with or without falls, not more than three times weekly

 \Box 3 Episodes impairing tone beyond head nodding, with or without falls, more than three times weekly to daily

 \Box 4 Episodes impairing tone beyond head nodding, with or without falls, one or more per day

Myclonic jerks present

□No □ Yes □Not recorded

Measure Date:

___/___/_____

Visceral

Splenomegaly (Abnormal enlargement of the spleen)

□Recorded □Not recorded

Measure Date: ____/ ___/ ____

Severity of Splenomegaly:

- \Box **0** No spleen enlargement
- \Box **1** just palpable at costal margin
- $\Box 2$ up to 5 cm palpable
- \Box **3** 5-10 cm palpable
- $\Box 4 > 10 \text{ cm palpable}$

Hepatomegaly (Abnormal enlargement of the liver)

Recorded

 \Box Not recorded

Measure Date:

___/___/____

Severity of Hepatomegaly:

- \Box **0** No liver enlargement
- □1 Palpable just below costal margin, not accounted for by hepatoptosis
- **2** Up to 5 cm palpable below costal margin, not accounted for by hepatoptosis
- \Box 3 Enlarged > 5 < 15 cm below costal margin, not accounted for by hepatoptosis
- \Box 4 Enlarged > 15 cm below costal margin, not accounted for by hepatoptosis

Audiometry

| Evidence of hearing loss: | No Yes | | | |
|--|-------------------|--------------|--|--------|
| Hearing Test: | Done Not Done | | | |
| Measure date: / / / / / | | | | |
| Type of hearing loss (pick one) | | | Degree of hearing loss (average dec over tested frequencies) (pick one) | cibels |
| Conductive Sensorineural Mixed (combination of conductive sensorineural | & | | Mild (0-40 decibels) Moderate (41-70 decibels) Severe (71-95 decibels) | |
| sensormeurar | | | Profound (over 95 decibels) | |
| Note: to calculate the degree of hearing loss | s, add all the de | cibels and c | livide by the number of data points. | |
| Hearing Aid Used No | |] | | |

| Hearing Aid Used | No | | |
|------------------|--------------|---------------------|--|
| | Yes | Type of hearing aid | |
| | Not Recorded | | |
| | | | |

Measure date: ____/ ___/ ____

Other measures

Does the patient have Inflammatory Bowel Disease?

Present
Absent
Not recorded

Measure date: ____ / ___ / ___ __

Does the patient have Psychiatric Symptoms?

PresentAbsentNot recorded

Measure date: ____/ ___ / ____ / ____

Please specify:

Does the patient have urinary incontinence?

□ Yes □ No □Not recorded

Measure date: ____/ ___ / ____ / ____

Does the patient have faecal incontinence? □ Yes □ No □ Not recorded

Measure date: ___ / __ / __ __ /

Body Measurements

Height current age ______ Recorded current age ______ Not recorded Measure date: ___/ ___/ ____ Height (cm) _____ Weight Recorded

 \Box Not recorded

Measure date: ____ / ___ / ___ __ __

Weight (kg)

Significant Co-morbidity

Does the patient have any co-morbidities? Yes / No

How many? ____

Please enter significant co-morbidities in the spaces below, and then answer yes or no to the organs affected

| 1 | | | |
|---|--|--|--|
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| | | | |

6

| | 1 | 2 | 3 | 4 | 5 |
|------------------------|---------------------|----------|--------------|--------|----------|
| | | | | | |
| CNS Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Visceral Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Audiometry Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Bowels Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Psychiatric | X / X | 37 / NT | N (N) | | |
| symptoms Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Incontinence Yes/No | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |

Children Only:

| Neonatal | | | | | |
|----------|----------|----------|----------|--------|----------|
| Symptoms | Yes / No | Yes / No | Yes / No | Yes/No | Yes / No |
| Yes/No | | | | | |
| Growth | Yes / No | Yes / No | Yes/No | Yes/No | Yes / No |
| Yes/No | | | | | |

Con-meds

| Is the patient taking any con-meds? | | | | | |
|-------------------------------------|----------------|------|-----------|--------------|--|
| Medication | Prescription / | Dose | Frequency | Date started | |
| Non prescription | | | | | |

Withdrawal from the study

| Is the | patient still in the full study? | No Yes | | | | |
|--|--|-----------|-----------------------------|--|--|--|
| With | lrawal date: / / | | | | | |
| Reaso | on for Withdrawal | | | | | |
| | Patient has life threatening disease Failure to comply (due to medication) Evidence of disease progression Patient is pregnant Death Patient is on a clinical trial Questionnaire burden Patient turned 16 and didn't re-consent Other | Plans | specify | | | |
| | Other | Please | e specify | | | |
| Conti | nue in the study notes only? | No Yes | | | | |
| Reco | rd of death | | | | | |
| Date | of death:// | | | | | |
| Did clinician certify this death as condition related? | | | No □ Yes □ | | | |
| Please | e record the wording from the dearth certifica | te: | | | | |
| Part 1 | a Free text (Disease or condi | ition di | rectly leading to death) | | | |
| Part 1 | Part 1b Free text (Other disease or condition, if any, leading to 1a) | | | | | |
| Part 1 | c Free text (Other disease or | condit | ion, if any, leading to 1b) | | | |

Part 2 ----- Free text (Other significant conditions CONTRIBUTING TO THE DEATH but not related to the disease or condition causing it)

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on SRT | No □ Yes □ | | | | |
|---|--|---------|----------------|--|--|
| Initial Treatment Initially on | SRT clinical trial? | | | | |
| Date of first Infusion | :/_ | / | | | |
| Age when first infusi | on received: | | | | |
| Initial type of treatme | ent: | | | | |
| Initial dose: | (units) | | | | |
| Initial frequency: | weekly | | | | |
| Please specify: | every 2 weeks | | | | |
| Initial type of treatme | ent (substrate reduction | therapy |) | | |
| Initial dose: | mg | | | | |
| Initial frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | |
| | other | | Trease specify | | |
| Current treatment Currently on SRT or clinical treatment? (drop down menu) | | | | | |
| Date started current treatment? | | | | | |
| Current type of treatment | | | | | |
| Current dose: | units | | | | |
| Current frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | |

| Hospital/ home infusion | : Infusion in Hosp Infusion at Home | | If Home: pick list: Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | | | |
|--|--|-----------|---|--|--|--|
| Is the patient currently e | experiencing: | | | | | |
| Febrile reactions? | No Yes | | | | | |
| Anaphylactoid reactions | ? No Yes | | | | | |
| Does the patient require any pre-medication: No \Box Yes \Box | | | | | | |
| Current type of treatmer | nt (substrate reduction | on therap | y) | | | |
| Current Dose | | | (mg) | | | |
| 2 1 2 | times per week times per week time per week weekly Other | | Please Specify | | | |
| Antibody status | | | | | | |
| Measure date: / | / | | | | | |
| Antibody status to infus | ed product, Tested N | No Yes | □ □ If Yes, | | | |
| Antibody Status Test Result Positive No Yes Don't know | | | | | | |

Record of Therapy (Enzyme Replacement Therapy, substrate reduction therapy etc):

| Is patient on SRT | No □ Yes □ | | | | | |
|---|--|------------|----------------|--|--|--|
| Initial Treatment Initially on | SRT clinical trial? | | | | | |
| Date of first Infusion: | / | ′ <u> </u> | / | | | |
| Age when first infusio | on received: | | | | | |
| Initial type of treatme | nt: | | | | | |
| Initial dose: | (units) | | | | | |
| Initial frequency: | | | | | | |
| Please specify: | | | | | | |
| Initial type of treatme | nt (substrate reduct | ion ther | rapy) | | | |
| Initial dose: | mg | | | | | |
| Initial frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | | |
| Current treatment Currently on SRT or clinical treatment? (drop down menu) | | | | | | |
| Date started current tr | eatment? | _ | | | | |
| Current type of treatm | ent (ERT) | | | | | |
| Current dose: | units | | | | | |
| Current frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | | |

| Hospital/ home infusion: | Infusion in Hospital Infusion at Home | | If Home: pick list: Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | | |
|---|---|------|---|---|--|
| Is the patient currently ex | periencing: | | | | |
| Febrile reactions? | No □ Yes □ | | | | |
| Anaphylactoid reactions? | No □ Yes □ | | | | |
| Does the patient require a | any pre-medication: | | No Yes | | |
| Current type of treatment | (substrate reduction th | erap | y) | | |
| Current Dose | | | (mg) | | |
| 2 t 1 t 2 v | imes per week □ imes per week □ ime per week □ veekly □ her □ | | Please Specify | - | |
| Antibody status | | | | | |
| Measure date: / | / | | | | |
| Antibody status to infused product, Tested No Yes If Yes, | | | | | |
| Antibody Status Test Res | sult Positive | | No □ Yes □ Don't know □ | | |
| Stopped Treatment Final treatment on SRT of | r clinical trial (drop do | wn n | nenu) | | |
| Date of last Infusion:/// | | | | | |
| Final type of treatment | | | | | |
| Final weight | kg | | | | |
| Final dose: | _units | | | | |

| Final frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | |
|-------------------------|--|-----------|---------------------|--|--|
| Hospital/ home infus | ion: Infusion in Hosp Infusion at Home | | If Home: pick list: | Nurse infuses Nurse cannulates and leaves Patient cannulates and infuses | |
| Final type of treatment | nt (substrate reduction | therapy)_ | | | |
| Final dose: | mg | | | | |
| Final frequency: | 3 times per week 2 times per week 1 time per week 2 weekly Other | | Please Specify | | |

Why was treatment stopped? Please specify:_____