

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 consent

Date of birth ___ / ___ / _____

Patient age, in years, at date of consent _____

Gender: Male
 Female

Type of Gaucher
 Type 1 (Adult onset, no abnormal eye movement)
 Type 3 (Abnormal eye movement)

Does the patient have a carer? No
 Yes

Onset of first symptom

The date of onset of first symptom is:
Roughly / exactly / can't remember: 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 appropriate)
 Recorded
 Not recorded

Glucocerebrosidase Enzyme Normal
 Deficient
 Not recorded

DNA mutation

Yes No Not known

If yes amino acid effect:
Pick one

- N370S/L444P
- N370S/N370S
- N370S/84GG
- N370S/D409H
- N370S/IVS2+1
- N370S/unknown
- L444P/unknown
- L444P/D409H
- L444P/L444P

Other please specify: -----

Bone marrow Biopsy

negative positive Not recorded

Current Employment Status

- Paid Employed
- Unemployed
- Unpaid Employment
- Full time
- Part time

Reason for diagnosis:

Was the patient detected by family screening

No
Yes

Chitotriosidase genotype

+/+ normal
+/-
-/- no chito, null

Measure date: ___ / ___ / _____ (moved)

Did the patient present with symptoms

No
Yes

What symptoms did the patient present with?

Type 1: (pick one or more)

Organomegaly

Bone pain

Unexpected finding in biopsy

Other (please specify) _____

During pregnancy

Full blood count: Thrombocytopenia

Complications during delivery

Antenatal test- Family screening

(Previous child with LSD)

Type 3:

Is presentation:

Visceral

Neurological

Withdrawal from the study

Is the patient still in the full study?

No
Yes

Withdrawal date: ___ / ___ / _____

Reason 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 specify _____

Continue in the study notes only?

No
Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related? No
Yes

Please record the wording from the death 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)

Haematological

Spleen

Enlarged or normal from scan? No
Yes

Measure date: ___ / ___ / _____

Size or volume available from scan? No
Yes

Volume: ___ ml

And/Or

Size (cm) _____

Measure date: ___ / ___ / _____

Enlarged on palpation No
Yes

Measure date: ___ / ___ / _____

Has the patient been Splenectomised? No
Yes

Reason for Splenectomy: _____

Date of splenectomy ___ / ___ / _____

Splenectomy: full
partial

Platelet count

Done
Not done

Platelet count _____ $10^9/l$ Measure date: ___ / ___ / _____

Haemoglobin

Done
Not done

Haemoglobin ___ g/dl (on Full Blood Count) Measure date: ___ / ___ / _____

Bleeding Episodes - has the patient had unexplained bleeding or bruising in the previous 12 months?

Yes
No

Chitotriosidase level _____ Pick units _____

Bone, bone marrow

Bone pain – has the patient had bone pain in the last 12 months? Yes
No
Not recorded

If yes is it constant
sporadic

Analgesia required – has the patient had to use analgesia in the last 6 months? Yes No
If yes have they had to use opiate analgesic? Yes No

MRI

Avascular necrosis - are there any new avascular necrosis on MRI in the last 12 months? Yes
No
Not done

Date of MRI scan ___ / ___ / ____

Bone Marrow Burden on MRI

Done
Not done

BMB Score: _____ Measure date: ___ / ___ / ____

Bone crises - has the patient had doctor-diagnosed bone crisis in the last 12 months?

Yes
No
Not recorded
How many? _____

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 visit to the clinic)

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 _____ (number)

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 _____

Is the patient on Bisphosphonates ? Yes No

Neurological

Any abnormal eye movement? Yes No

Cognitive measures –

IQ Test

done not done IQ score (whole number) ____

Measure date: ____ / ____ / _____

Developmental Quotient Test

done not done DQ score (whole number) ____

Measure date: ____ / ____ / _____

Has the patient had fits in the last 12 months? Yes No

Does the patient have extrapyramidal involvement? Yes No

Other Measures

Lung

Does the patient have pulmonary hypertension - from Echo?

Yes

No

Not done

Measure date: ___ / ___ / _____

Does the patient have malignancies?

No

Yes If Yes, please specify:

Has a severity score been recorded?

Yes

No Measure date: ___ / ___ / _____

If yes, with:

Zimran Severity Score

Other severity Score

Severity score: ____ (Whole number)

Neurological - Child

Any abnormal eye movement? Yes No

IQ Test

done not done IQ score (whole number) ____

Measure date: ____ / ____ / _____

Developmental Quotient Test

done not done DQ score (whole number) ____

Measure date: ____ / ____ / _____

Has the patient had fits in the last 12 months? Yes No

Does the patient have extrapyramidal involvement? Yes No

Using any parent reported Motor milestones scale, are the patients able to do the following? If they are able, what age in months was the milestone met?

Recorded

Not recorded

Measure date: ____ / ____ / _____

Patient currently able to sit unsupported: Able Months ____
Unable

Patient currently able to stand independently: Able Months ____
Unable

Patient currently able to walk: Able Months ____
Unable

Patient currently able to walk upstairs one step at a time: Able Months ____
Unable

Does the patient have a squint? Yes No

Are Brainstem evoked responses normal? Yes No

Measure date: ____ / ____ / _____

Audiometry

Hearing Test:

Done

Not done

Measure date: ___ / ___ / _____

Hearing Normal: Yes

No If No....

Type of hearing loss (pick one)

Conductive

Sensorineural

Mixed (combination of conductive & sensorineural)

Degree of hearing loss (average decibels over tested frequencies) (pick one)

Mild (0-40 decibels)

Moderate (41-70 decibels)

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.

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

Ophthalmology

- Normal
- Cranial nerve palsy (previously corrected or not)
- 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)

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

Haematological	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Bone, bone marrow	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Neurological	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Lungs	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No

Children Only:

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

Is patient on treatment No
 Yes

Initial Treatment

Initially treatment ERT
 clinical trial?

Date of first treatment: ___ / ___ / _____

Age when first treatment received: _____

Initial type of treatment (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 treatment (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 _____

Current treatment

Current treatment

Date started current treatment ___ / ___ / _____ (dd/mm/yyyy)

Current type of treatment (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 Hospital
Infusion at Home
- Home infusion Nurse infuses
Nurse cannulates and leaves
Patient cannulates and infuses

Is the patient currently experiencing:

- Febrile reactions? No
Yes

- Anaphylactoid reactions? No
Yes

Does the patient require any pre-medication:

- No
Yes

Current type of treatment (substrate reduction therapy) _____

Current Dose _____(mg)

- Current frequency: 3 times per week
2 times per week
1 time per week
2 weekly

Other
Please Specify _____

Antibody status

Measure date: __ __ / __ __ / __ __ __ __

- Antibody status to infused product, Tested No
Yes

- Antibody Status, Test Result Positive No
Yes
Don't know

Current frequency: 3 times per week
2 times per week
weekly
every 2 weeks
every 3 weeks
monthly

Hospital/ home infusion: Infusion in Hospital
Infusion at Home

Home infusion Nurse infuses
Nurse cannulates and leaves
Patient cannulates and infuses

Is the patient currently experiencing:
Febrile reactions? No
Yes

Anaphylactoid reactions? No
Yes

Does the patient require any pre-medication: No
Yes

Current type of treatment (substrate reduction therapy) _____ -

Current dose: ____mg

Current frequency: 3 times per week
2 times per week
1 time per week
2 weekly

Antibody status

Measure date: ____ / ____ / _____

Antibody status to infused product, Tested No
Yes

Antibody Status Test Positive No
Yes

Stopped Treatment

Final treatment ERT
clinical trial

Date of last treatment: ____ / ____ / _____

Final type of treatment (ERT) _____

Final weight ____kg

Final dose: ____units

Final frequency: 3 times per week
2 times per week
weekly

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?

No Do not continue
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: _____

Reason for diagnosis

Was patient detected by family screening? No
Yes

Did patient present with symptoms? No
Yes

Which symptoms?

- Angiokeratoma
- Cornea verticilata
- Sweating abnormality
- GI symptoms
- Stroke, cardiomyopathy
- Renal failure
- Other – please specify _____

Physician of initial presentation

- cardiologist
- neurologist
- dermatologist
- ophthalmologist
- geneticist
- paediatrician
- gastroenterologist
- Other – please specify _____

Employment Status

Paid Employed	<input type="checkbox"/>	If employed	
Unemployed	<input type="checkbox"/>	Full time	<input type="checkbox"/>
Unpaid Employment	<input type="checkbox"/>	Part time	<input type="checkbox"/>

Withdrawal from the study

Is the patient still in the full study?

No
Yes

Withdrawal date: ___ / ___ / _____

Reason 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 specify _____

Continue in the study notes only?

No
Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related?

No
Yes

Please record the wording from the death 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

Height

Recorded

Not recorded

Measure date: ___ / ___ / _____

Height (cm) _____

Weight

Recorded

Not recorded

Measure date: ___ / ___ / _____

Weight (Kg) _____

Heart Measures

Echocardiogram Done
Not done Measure date: ___ / ___ / _____

LVEDD _____ mm LV End Diastole
Left Ventricular Diastolic diameter (LVDd)

IVSd _____ mm Interventricular septal diastolic diameter

PWTd _____ mm Posterior Wall thickness /
posterior LV Wall diastole diameter

Result (Calculated by database)

LVmass _____ g

Body Surface Area (BSA) _____ m squared

Result

LVMI _____ g /m squared

Measure of Hypertrophy

Does the patient have clinically significant Arrhythmia? No
Yes

Does the patient have a pacemaker? 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 1st stroke ___

Does the patient have any persistent neurological impairment from the stroke?

- No
- Yes

Has the patient had a TIA/stroke since their last assessment?

- No
- Yes

Is there evidence of cognitive impairment?

- No
- Yes

Kidney

Spot Protein / Creatinine Ratio

Done

Not done

Measure date: ___ / ___ / _____

Results _____ mg/mmol

Albumin / Creatinine Ratio

Done

Not done

Measure date: ___ / ___ / _____

Results _____ mg/mmol

Serum Creatinine

Done

Not done

Measure date: ___ / ___ / _____

Results _____ micromoles / l

Estimated Glomerular Filtration Rate (eGFR)

Done

Not done

Measure date: ___ / ___ / _____

Results _____

Dialysis

No

Yes

Start date: ___ / ___ / _____

Is the patient still on dialysis?

No

Yes

End date: ___ / ___ / _____

Type of dialysis Peritoneal

Haemo

Has the patient had a kidney transplant?

No

Yes

Date of transplant: ___ / ___ / _____

Audiometry

Evidence of hearing loss? No
 Yes

Hearing Test: Done
 Not done

Measure date: ___ / ___ / _____

Type of hearing loss (pick one)

Conductive
Sensorineural
Mixed (combination of conductive & sensorineural)

Degree of hearing loss (average decibels over tested frequencies) (pick one)

Mild (0-40 decibels)
Moderate (41-70 decibels)
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

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 Inventory

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 three months has the patient experienced quality of life limiting GI symptoms?

No
Yes
Not recorded

Mood

Are the clinical team aware of any suicide attempts in the 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
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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 received: _____

Initial type of treatment: Fabrazyme
 Replagal

Initial dose: ___ (mg)

Initial frequency: _____

Current treatment

Currently on ERT
 Clinical trial?

Current dose: ___ mg

Current frequency: 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
 Relative cannulates and infuses

Is the patient currently experiencing:

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

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 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

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 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 If so, how many? ____
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 _____ (drop down menu)

Please specify _____

Allele 2 _____ (drop down menu)

Please specify _____

Skin Biopsy – Enzyme Assay

Normal

Abnormal

If abnormal, Result: _____ (put in own units)

Prenatal Diagnosis
(chorion villus biopsy)

No

Yes

Enzyme Assay Results

_____ (put in own units)

Urine GAG test

No

Yes

Urine GAG test Results

_____ (mg/mmol of creatine)

Reason for diagnosis

Was patient detected by family screening?

No

Yes

Did the patient present with symptoms?

No

Yes

If Yes, what symptoms did they present with?

Current Employment Status

Select as appropriate

Employed

Unemployed

Unpaid Employment

Full time

Part time

Withdrawal from the study

Is the patient still in the full study?

No
Yes

Withdrawal date: ___ / ___ / _____

Reason 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 specify _____

Continue in the study notes only?

No
Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related?

No
Yes

Please record the wording from the death 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: _____

Neurological – Child

DQ Test:

Done
Not Done

Measure date: ___ / ___ / _____

DQ Score _____

Hydrocephalus

Present
Absent
Not Recorded

Measure date: ___ / ___ / _____

Carpal Tunnel Syndrome

Present
Absent
Not Recorded

Measure date: ___ / ___ / _____

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: ___ / ___ / _____

Spleen

Enlarged or normal from scan? Enlarged
Normal
Not recorded

Measure date: ___ / ___ / _____

Size or volume available from scan? No
Yes
Not recorded

Spleen organ size (cm) _____

And/Or

Spleen volume: ___ ml

Measure date: ___ / ___ / _____

Enlarged on palpation No
Yes
Not recorded

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 Clouding

Recorded
Not recorded

Measure date: ___ / ___ / _____

Left Eye	No	<input type="checkbox"/>	Right Eye	No	<input type="checkbox"/>
	Yes	<input type="checkbox"/>		Yes	<input type="checkbox"/>

Intra Ocular Pressure

Recorded
Not recorded

Measure date: ___ / ___ / _____

Left Eye _____ mmHg Right Eye _____ mmHg

Other Measures

Urine GAG _____ mg/mmol of creatine

Measure date: ____ / ____ / _____

Bone Marrow Transplant

Done

Not done

Date of first transplant: ___ / ___ / _____

Type of transplant sib
 MUD
 UCB
 Other
Please Specify _____

First transplant rejection
No
Yes
Rejection date: ___ / ___ / _____

ERT used before transplant? No
Yes

Duration: _____ mths _____ yrs

Date of second transplant: ___ / ___ / _____

Type of transplant sib
 MUD
 UCB
 Other
Please Specify _____

Second transplant rejection
No
Yes
Rejection date: ___ / ___ / _____

Date of third transplant: ___ / ___ / _____

Type of transplant sib
 MUD
 UCB
 Other
Please Specify _____

Third transplant rejection
No
Yes
Rejection date: ___ / ___ / _____

Transplant complications:
 acute GvHD
 Chronic GvHD

- Viral reactivation
- VOD
- Pulmonary haemorrhage
- Other

Please Specify _____

Enzyme activity at 12 months post BMT _____

Unit: milli units / unit of hexosaminidase at 37°C
 $\mu\text{mol}/\text{min}/\text{mg}$ of protein

% donor chimerism at 12 months post BMT _____ %

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 number of hours on ventilator per 24 hours _____

Sleep Study Done
Not 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)

Pulmonary Function 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 intervention: ___ / ___ / _____

Audiometry

Hearing Test: Done
Not done

Hearing Normal No
Yes

Measure date: ___ / ___ / _____

Type of hearing loss (pick one)

- Conductive
- Sensorineural
- Mixed (combination of conductive & sensorineural)

Degree of hearing loss (average decibels over tested frequencies) (pick one)

- Mild (0-40 decibels)
- Moderate (41-70 decibels)
- 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 _____

Neurological – Adult

Neurological involvement

- No
- Yes
- Not Recorded

Measure date: ___ / ___ / _____

Carpal Tunnel Syndrome

- Present
- Absent
- Not Recorded

Measure date: ___ / ___ / _____

Has patient had surgery for carpal tunnel syndrome?

- No
- Yes How many times? _____

Date of last Carpal Surgery: ___ / ___ / _____

Cervical Cord Compression

- Present
- Absent
- Not Recorded

Measure date: ___ / ___ / _____

Has patient had surgery for cervical cord compression?

- No
- Yes

Date of last Cervical Cord Compression Surgery: ___ / ___ / _____

Bone & Joint – Adult

Patient Mobility

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 bedbound (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 – 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 _____ (maximum score 120)

The patient was: Passive
Active during muscle testing

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	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Lungs/respiratory					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Neurological					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Skeletal/muscle					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Ophthalmology					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No

Children Only:

Liver and spleen					
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 (International Units): ___(mg)

Initial frequency: weekly
 every 2 weeks
 Other Please Specify _____

Current treatment

Currently on ERT or clinical trial?

Date started current treatment: ___ / ___ / _____

Current type of treatment: _____

Current dose (International Units): ___mg

Current frequency: weekly
 every 2 weeks
 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 experiencing:

Febrile reactions? No
 Yes

Anaphylactoid reactions? No
 Yes

Anaphylactoid reactions? 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
Yes

Stopped Treatment

Final treatment on ERT or clinical trial (drop down menu)

Date of last infusion: ___ / ___ / _____

Final type of treatment _____

Final dose (International Units): ___mg

Final frequency: weekly
every 2 weeks
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

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

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

Date of birth _____ / _____ / _____

Patient age, in years, at consent _____

Gender Male
Female

Type of MPS II Without neurological involvement With neurological involvement

Does the patient have a carer? No
Yes

Onset of first symptoms Roughly / exactly / can't remember: ____ / ____

Any other family members affected?

No
Yes If so, how many? ____

Relationship to patient:

Mother
Father
Sibling
Other Please Specify _____
(enter Unique ID no.s of relations)

Date of diagnosis: month and year: ____ / ____

Method of diagnosis:

Recorded
 Not recorded

Iduronate-2-sulfatase activity Normal
 Deficient

Iduronate-2-sulfatase cDNA Done
 Not Done

cDNA result as amino acid change _____

Skin Biopsy – Enzyme Assay Normal
 Abnormal If abnormal, result: _____

Prenatal Diagnosis No
(chorion villus biopsy) Yes

Enzyme Assay Results _____

Urine GAG test No
 Yes

Urine GAG test Results _____ (mg/mmol of creatine)

Reason for diagnosis

Was patient detected by family screening? No
 Yes

Did the patient present with symptoms? No
 Yes

If so, what? _____

Current Employment Status	Paid Employed	<input type="checkbox"/>	If employed	
	Unemployed	<input type="checkbox"/>		Full time
	Unpaid Employment	<input type="checkbox"/>	Part time	<input type="checkbox"/>

Body Measurements – Adults & Child

Measure date: __ __ / __ __ / __ __ __ __

Height (cm) _____

Weight (kg) _____

Children only:

Head Circumference (cm) _____

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)

Average number of hours on ventilator per 24 hours _____

Sleep Study Done
Not 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 time of duration of the study) _____

Pulmonary Function 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 intervention: ___ / ___ / _____

Audiometry

Hearing Test: Done
Not Done

Measure date: ___ / ___ / _____

Hearing Normal: No
Yes

Type of hearing loss (pick one)

Conductive
Sensorineural
Mixed (combination of conductive & sensorineural)

Degree of hearing loss (average decibels over tested frequencies) (pick one)

Mild (0-40 decibels)
Moderate (41-70 decibels)
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 _____

Neurological – Adult

Neurological involvement

- No
- Yes
- Not Recorded

Measure date: ___ / ___ / _____

Carpal Tunnel Syndrome

- 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 Compression

- Present
- Absent
- Not Recorded

Measure date: ___ / ___ / _____

Has patient had surgery for cervical cord compression?

- No
- Yes

Date of last surgery: ___ / ___ / _____

Bone & Joint – Adult

Patient Mobility

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 date: ___ / ___ / _____

Distance walked (m) _____ Aided
Unaided

Neurological – Child

DQ Test:

Done
Not Done

Measure date: ___ / ___ / _____

DQ Score _____

IQ Test:

Done
Not Done

Measure date: ___ / ___ / _____

IQ Score _____

Hydrocephalus

Present
Absent
Not Recorded

Measure date: ___ / ___ / _____

Carpal Tunnel Syndrome

Present
Absent
Not Recorded

Measure date: ___ / ___ / _____

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: ___ / ___ / _____

Spleen

Enlarged or normal from scan?

Enlarged
Normal
Not recorded

Measure date: ___ / ___ / _____

Size or volume available from scan?

No
Yes
Not recorded

Spleen organ size (cm) _____

And/ Or

Spleen volume: ___ ml

Measure date: ___ / ___ / _____

Enlarged on palpation

No
Yes
Not recorded

Measure date: ___ / ___ / _____

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 No
Yes Date of rejection: ___ / ___ / _____

ERT used before transplant? No
Yes

If Yes: Duration: ___ mths ___ yrs

Date of second transplant: ___ / ___ / _____

Type of transplant 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 months post BMT _____

Unit: milli units / unit of hexosaminidase at 37°C
 µmol/min/mg of protein

% donor chimerism at 12 months post BMT _____ %

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	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Airway					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Neurological					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Skeletal/muscle					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Ophthalmology					
Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No

Children Only:

Liver and spleen					
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

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

Withdrawal from the study

Is the patient still in the full study?

No

Yes

Withdrawal date: ___ / ___ / _____

Reason 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 specify _____

Continue in the study notes only?

No

Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related?

No

Yes

Please record the wording from the death 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)

Appendix 11e Clinical Record Form 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 Do not continue
Yes

Has the patient given informed signed consent?

No Do not continue
Yes

Has the parent / carer given informed signed assent?

No Do not continue
Yes

Reason for not giving consent:

The patient consented for Records Only
 Records 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-cardiomyopathy
Cardiomyopathy

Does the patient have a carer? No
Yes

Onset of first symptoms is:
Roughly
Exactly
Can't remember Month ____ Year ____

Other family members affected?
No
Yes If Yes how many --
Relationship/s to patient Mother
Father
Sibling
Other Please specify _____
(enter unique ID no of relations)

Month & Year of diagnosis
Month--
Unknown If Month unknown: Year ____

Method of diagnosis (tick one of more below if done)

Recorded
 Not recorded

GAA activity: Normal (also known as: acid maltase, acid-alpha glucosidase)
Deficient

GAA cDNA Not Done
Done results:
Allele 1 _____
Allele 2 _____

Muscle biopsy result: negative
positive (=glycogen in vacuoles or staining for enzyme acid phosphatase, depending on test)

Employment Status Paid Employed If employed
Unemployed Full time
Unpaid Employment 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: _____

Withdrawal from the study

Is the patient still in the full study?

No

Yes

Withdrawal date: ___ / ___ / _____

Reason 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 consent
- Other

Please specify _____

Continue in the study notes only?

No

Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related?

No

Yes

Please record the wording from the death 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)

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 date: ___ / ___ / _____

Distance walked (m) _____ Aided
Unaided

Timed Gower's test for children

Done
Not Done

Measure date: ___ / ___ / _____

Positive
Negative
Gave up / can't do

Seconds to complete _____

Sleep study (Children under 8)

Done

Not 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)

Other measures

Body Measurements – Height

Recorded

Not recorded

Measure date: ___ / ___ / _____

Height (m) _____

Body Measurements – Weight

Recorded

Not recorded

Measure date: ___ / ___ / _____

Weight (Kg) _____

Vitamin D

Recorded

Not recorded

Measure date: ___ / ___ / _____

Does the patient have clinically significant Vitamin D deficiency

Yes

No

Not tested

Heart

Echocardiogram:

Done

Not Done

Measure date: ___ / ___ / _____

Left Ventricular Mass index _____ g/m²

Left Ventricular Ejection fraction _____ %

Fraction Shortening _____ %

Arrhythmias present

absent

Bone & Joint – Children

Using any parent reported Motor milestones scale, is the patient able to do the following?

Recorded

Not recorded

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 Functional Measure (GMFM-66)

Not done

Done

Measure date: ___ / ___ / _____

Score: _____%

Fractures

Recorded

Not Recorded

Measure date: ___ / ___ / _____

No of fractures in the last 6 months: _____

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 ERT
 clinical trial?

Date of first infusion:

Age when first infusion received:

Initial type of treatment: Myozyme

Initial dose: ___mg

Initial frequency: weekly
 every 2 weeks

Current treatment

Is patient currently on ERT
 clinical trial

Date started current treatment? --/--/---

Current type of treatment

Current dose: ___mg

Current frequency: weekly
 every 2 weeks

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 experiencing:

Febrile reactions? No
 Yes

Anaphylactoid reactions? No
 Yes

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
Don't know

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

Is patient on ERT No
 Yes

Has patient stopped treatment since their last visit? No
 Yes

Has patient started treatment since their last visit? No
 Yes

Initial Treatment

Initially on ERT
 clinical trial?

Date of first infusion: --/--/---

Age when first infusion received:

Initial type of treatment:

Initial dose: ___mg

Initial frequency: weekly
 every 2 weeks

Current treatment

Is patient currently on ERT
 clinical trial

Date started current treatment?

Current type of treatment

Current dose: ___mg

Current frequency: weekly
 every 2 weeks

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 experiencing:

Febrile reactions? No
 Yes

Anaphylactoid reactions? No
 Yes

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 Treatment

Final treatment on ERT
clinical trial

Date of last infusion: ___ / ___ / _____

Final type of treatment

Final dose: ___mg

Final frequency: weekly
every 2 weeks

Hospital/ home infusion: Infusion in Hospital
Infusion at Home If Home: pick list: Nurse infuses
Nurse cannulates and leaves
Patient cannulates and infuses

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 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):

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 remember _____ / _____ / _____

Any other family members affected?

No
Yes
Unknown
If so, how many? _____

Relationship to patient:

Mother
Father
Sibling
Other Please Specify _____

Month and Year of Diagnosis Month and year: ____ / ____

Method of diagnosis

Recorded
Not recorded

Cultured skin fibroblasts:

Studies of filipin staining Normal
 Abnormal

LDL-induced cholesteryl ester Formation Normal
 Abnormal

NPC1 cDNA Done
 Not done

NPC1 cDNA results as amino acid change _____
Please use the following format e.g. Thr1036Met/Gln928Pro

NPC2 cDNA Done
 Not done

NPC2 cDNA results as amino acid change _____
Please use the following format e.g. Glu20Ter/Ser67pro

Reason for diagnosis

Was patient detected by family screening?

- No
- Yes

Did the patient present with symptoms? No

Yes

If so, what? _____

What symptoms did they present with? Hepatic

- 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

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:

- 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
- 4 No functional memory or language.

Seizures / Epilepsy

- Recorded
- Not recorded

Measure Date: ___ / ___ / _____

On anti epileptic medication?

- Yes
- No
- Not recorded

Severity of Seizures:

- 0 No seizures
- 1 Provoked seizures only (i.e. with fever or intercurrent illness)
- 2 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
- Not recorded

Measure Date: ___ / ___ / _____

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:

- 0 Normal
- 1 Apparent only on tandem walking
- 2 Ataxia on straight gait
- 3 Able to walk only with assistance
- 4 Unable to walk

Pyramidal tract dysfunctions (sic!) (movement disorders)

- Recorded
- Not recorded

Measure Date: ___ / ___ / _____

Severity of Pyramidal tract dysfunction:

- 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

- Recorded
- 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 – Dysarthria “slurred or irregular”

- Recorded
- 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
- 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:

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

Cataplexy:

- Recorded
- Not recorded

Measure Date: ___ / ___ / _____

Severity of Cataplexy:

- 0** Normal
- 1** head nodding episodes only
- 2** Episodes impairing tone beyond head nodding, with or without falls, not more than three times weekly
- 3** Episodes impairing tone beyond head nodding, with or without falls, more than three times weekly to daily
- 4** Episodes impairing tone beyond head nodding, with or without falls, one or more per day

Myoclonic jerks present

- No
- Yes
- Not recorded

Measure Date: ___ / ___ / _____

Visceral

Splenomegaly (Abnormal enlargement of the spleen)

- Recorded
- Not recorded

Measure Date: ___ / ___ / _____

Severity of Splenomegaly:

- 0 No spleen enlargement
- 1 just palpable at costal margin
- 2 up to 5 cm palpable
- 3 5-10 cm palpable
- 4 > 10 cm palpable

Hepatomegaly (Abnormal enlargement of the liver)

- Recorded
- Not recorded

Measure Date: ___ / ___ / _____

Severity of Hepatomegaly:

- 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
- 3 Enlarged > 5 < 15 cm below costal margin, not accounted for by hepatoptosis
- 4 Enlarged > 15 cm below costal margin, not accounted for by hepatoptosis

Other measures

Does the patient have Inflammatory Bowel Disease?

- Present
- Absent
- Not recorded

Measure date: ___ / ___ / _____

Does the patient have Psychiatric Symptoms?

- Present
- Absent
- Not 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: ___ / ___ / _____

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
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 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 / Non prescription	Dose	Frequency	Date started
------------	------------------------------------	------	-----------	--------------

Withdrawal from the study

Is the patient still in the full study?

No
Yes

Withdrawal date: ___ / ___ / _____

Reason 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 specify _____

Continue in the study notes only?

No
Yes

Record of death

Date of death: ___ / ___ / _____

Did clinician certify this death as condition related?

No
Yes

Please record the wording from the death 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)

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 infusion received: ____

Initial type of treatment: _____

Initial dose: ____ (units)

Initial frequency: weekly
 every 2 weeks

Please specify: _____

Initial type of treatment (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 _____

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 Hospital
Infusion at Home

If Home: pick list:

Nurse infuses

Nurse cannulates and leaves

Patient cannulates and infuses

Is the patient currently experiencing:

Febrile reactions? No
Yes

Anaphylactoid reactions? No
Yes

Does the patient require any pre-medication: No
Yes

Current type of treatment (substrate reduction therapy) _____

Current Dose _____(mg)

Current frequency: 3 times per week
2 times per week
1 time per week
2 weekly
Other

Please Specify _____

Antibody status

Measure date: ___ / ___ / _____

Antibody status to infused product, Tested 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: ___ / ___ / _____

Age when first infusion received: _____

Initial type of treatment: _____

Initial dose: ___ (units)

Initial frequency: weekly
 every 2 weeks

Please specify: _____

Initial type of treatment (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 _____

Current treatment

Currently on SRT or clinical treatment? (drop down menu)

Date started current treatment? _____

Current type of treatment (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 experiencing:

Febrile reactions? No
Yes

Anaphylactoid reactions? No
Yes

Does the patient require any pre-medication: No
Yes

Current type of treatment (substrate reduction therapy) _____

Current Dose _____(mg)

Current frequency: 3 times per week
2 times per week
1 time per week
2 weekly
Other Please Specify _____

Antibody status

Measure date: ___ / ___ / _____

Antibody status to infused product, Tested No
Yes If Yes,

Antibody Status Test Result Positive No
Yes
Don't know

Stopped Treatment

Final treatment on SRT or clinical trial (drop down menu)

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 infusion: Infusion in Hospital
Infusion at Home

If Home: pick list: Nurse infuses
Nurse cannulates and leaves
Patient cannulates and infuses

Final type of treatment (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: _____