

# 1, 25-dihydroxyvitamin D

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	125VITD
<b>Other information required</b>	
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

# 11-deoxycortisol

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Stable for 5 days at 2-8C or 2 months at -18C
<b>Meditech Code</b>	
<b>Other information required</b>	Please state if part of a SST test.
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days (48hrs urgent)
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479</a>

## 17-hydroxyprogesterone (17-OHP) (bloodspot)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	1 full spot (ideally 2); 3.2mm minimum size
<b>Storage</b>	Room temp
<b>Meditech Code</b>	17OHP-BS (Timed test code available: 17OHP-BST)
<b>Other information required</b>	
<b>Postal Address</b>	Blood Sciences, Royal Victoria Infirmary, Newcastle upon Tyne Hospitals Foundation Trust, Newcastle upon Tyne, NE1 4LP
<b>Contact Name</b>	Christopher Boot
<b>Contact Telephone Number</b>	0191 282 4513
<b>Contact Email Address</b>	<a href="mailto:christopherboot@nhs.net">christopherboot@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## 17-hydroxyprogesterone (17-OHP) (serum)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Stable for 5 days at 2-8C or 2 months at -18C
<b>Meditech Code</b>	OHP17 (Timed test codes available: OHP0, OHP30, OHP60)
<b>Other information required</b>	Please state if part of a SST test. Test must not be performed at <48hrs of age.
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days (48hrs urgent)
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479</a>

## 5-hydroxyindole acetic acid (5-HIAA) (serum)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	125uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Sample should be taken after overnight fast. Avoid serotonin containing foods.
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## 5-hydroxyindole acetic acid (5-HIAA) (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	24hr Urine (30mls 2.5M sulphuric acid preservative in the container)
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	HIAA
<b>Other information required</b>	Note 24hr urine volume in Meditech and on SAS form.
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## 7-dehydrocholesterol (7-DHC)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	DHCHOL7
<b>Other information required</b>	Measurement of cholesterol should be performed prior to sending and result noted on SAS form.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## $\alpha$ -1-acid glycoprotein (orosomuroid)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AAG
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## **$\alpha$ -1-antitrypsin (faecal) (FAAT)**

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Faeces
<b>Sample Volume</b>	1g (formed stool)
<b>Storage</b>	Frozen
<b>Meditech Code</b>	AATF
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Laboratory and Protein Reference Unit, SWLP, Ground Floor Jenner Wing, St George's Hospital, SW17 0QT.
<b>Contact Name</b>	Aimee Rhodes
<b>Contact Telephone Number</b>	0208 725 0025
<b>Contact Email Address</b>	<a href="mailto:stgh-tr.stgeorgespru@nhs.net">stgh-tr.stgeorgespru@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://www.swlpath.nhs.uk/home/what-we-do/pathology-services-handbook/">https://www.swlpath.nhs.uk/home/what-we-do/pathology-services-handbook/</a>

## $\alpha$ -1-antitrypsin activity (AAT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AAT
<b>Other information required</b>	Testing not valid within 2 weeks of blood transfusion.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## α-1-antitrypsin genotyping (AAT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Testing not valid within 2 weeks of blood transfusion.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	28 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## $\alpha$ -1-antitrypsin phenotyping (AAT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	A1AT
<b>Other information required</b>	Testing not valid within 2 weeks of blood transfusion.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## $\alpha$ -2-macroglobulin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AMG
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## $\alpha$ -aminoadipic semialdehyde (AASA)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	AASA
<b>Other information required</b>	
<b>Postal Address</b>	Biochemistry Department, Institute of Child Health, 30 Guildford Street, London, WC1N 1EH.
<b>Contact Name</b>	Prof. Peter Clayton
<b>Contact Telephone Number</b>	020 7905 2628
<b>Contact Email Address</b>	
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	8 weeks
<b>External Website</b>	<a href="https://www.ucl.ac.uk/child-health/research/genetics-and-genomic-medicine/biological-mass-spectrometry-centre/bioanalytical-services">https://www.ucl.ac.uk/child-health/research/genetics-and-genomic-medicine/biological-mass-spectrometry-centre/bioanalytical-services</a>

## α-galactosidase (Fabry disease)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)/Dried Bloodspot
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged (whole blood)/Room temp (bloodspot)
<b>Meditech Code</b>	FABRY/ a-GAL
<b>Other information required</b>	DBS samples should be used as a screening test. Sample must reach referral lab within 72hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	Special delivery (whole blood)/First class post (bloodspot)
<b>Turnaround Time</b>	1 week
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## α-glucosidase (Pompe disease)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)/Dried Bloodspot
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged (whole blood)/Room temp (bloodspot)
<b>Meditech Code</b>	POMPE/ POMPE FOLLOW UP
<b>Other information required</b>	DBS samples should be used as a screening test. Liquid blood sample must reach referral lab within 48hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	Special delivery (whole blood) / First class post (bloodspot)
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Active B12 (holotranscobalamin)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Haemostasis and Thrombosis Department, 4th Floor, North Wing, St Thomas' Hospital, Westminster Bridge Road, London, SE1 7EH.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0207 188 6815
<b>Contact Email Address</b>	<a href="mailto:agata.malefora@viapath.co.uk">agata.malefora@viapath.co.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Acute Proyelocytic Leukaemia (APML)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Bone Marrow
<b>Sample Volume</b>	8mL (Bone Marrow, EDTA) with 16mL (Blood, EDTA)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Samples need to be sent immediately by first class post (special delivery) as they are unsuitable after 24-48hrs. 20-30mL blood may also be required and should be specified at time of collection. Special request form should be completed.
<b>Postal Address</b>	Yashma Patel, Department of Haematology, University College, 2nd Floor, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Dr. Yvonne Morgan
<b>Contact Telephone Number</b>	0207 188 1275
<b>Contact Email Address</b>	<a href="mailto:yvonne.g.morgan@gstt.nhs.uk">yvonne.g.morgan@gstt.nhs.uk</a>
<b>Dispatch</b>	Special delivery (next day)
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## Acylcarnitine (Post Mortem - Bile)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Guthrie card, 2 full spots.
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Bile with paired blood spot
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4-6 weeks
<b>External Website</b>	

## Acylcarnitine (Derivatised)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Blood spot
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	Use only for confirmation of Newborn Screening results or other equivocal acylcarnitine profiles.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Teresa Wu
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 working weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Acylcarnitine (Post Mortem - Blood)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	Ideally 2 full spots
<b>Storage</b>	Room temp or fridged with desiccant
<b>Meditech Code</b>	ACYLCARN PM
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Blood Sciences, Royal Victoria Infirmary, Queen Victoria Road, Newcastle Upon Tyne, Tyne and Wear, NE1 4LP.
<b>Contact Name</b>	Dr. Ann Bowron
<b>Contact Telephone Number</b>	0191 282 4566
<b>Contact Email Address</b>	<a href="mailto:annbowron@nhs.net">annbowron@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 week
<b>External Website</b>	<a href="http://secure.newcastlelaboratories.com/test-directory/test/acyl-carnitines-blood/">http://secure.newcastlelaboratories.com/test-directory/test/acyl-carnitines-blood/</a>

# Acylcarnitine (Urine)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Test no longer available at Newcastle Hospital
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## ADA2 (adenosine deaminase 2)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Serum (Li Hep samples are not suitable)
<b>Sample Volume</b>	
<b>Storage</b>	Fridged (if being sent same/next day) / separate serum & freeze at -800 C if delay in sending
<b>Meditech Code</b>	
<b>Other information required</b>	Specific request form needs completing
<b>Postal Address</b>	Supraregional Service for Molecular Diagnosis of Primary Immune Deficiencies Department of Immunology Level 2 Camelia Botnar Laboratories, Great Ormond Street Hospital, London WC1N 3JH
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0207 829 8835
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post (if sending same / next day) / dry ice if sending frozen sample
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="https://media.gosh.nhs.uk/documents/Immunology_Request_Form_-_Molecular_PID.doc">https://media.gosh.nhs.uk/documents/Immunology_Request_Form_-_Molecular_PID.doc</a>

## ADAMTS-13

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Plasma (Citrated)
<b>Sample Volume</b>	500uL (3 aliquots)
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Sample should be double spun.
<b>Postal Address</b>	Coagulation Department, Haematology, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Mariam Waite
<b>Contact Telephone Number</b>	0151 706 4967
<b>Contact Email Address</b>	<a href="mailto:mariam.waite@rlubt.nhs.uk">mariam.waite@rlubt.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

# Aldosterone

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA/Lithium Heparin)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen with 30mins of collection
<b>Meditech Code</b>	ALDO
<b>Other information required</b>	
<b>Postal Address</b>	Specialist Biochemistry, Level C, Lab and Path Block, Southampton General Hospital, Tremona Road, Southampton, SO16 6YD
<b>Contact Name</b>	Robert Stevens
<b>Contact Telephone Number</b>	02381 206434
<b>Contact Email Address</b>	<a href="mailto:labresults@uhs.nhs.uk">labresults@uhs.nhs.uk</a> / <a href="mailto:UHS.dutybiochemist@uhs.nhs.uk">UHS.dutybiochemist@uhs.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Alloisoleucine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Send original NBS screening sample.
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	For confirmation of Newborn Screening suspected MSUD
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Teresa Wu
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Alkaline Phosphatase (ALP) Isoenzymes

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ALPISO
<b>Other information required</b>	Test only required if ALP raised. Supply ALP result and reference range on SAS form.
<b>Postal Address</b>	Central Specimen Reception, c/o Clinical Biochemistry, Clinical Sciences Building 3, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	Adult: 0161 701 8891 Paediatric: 0161 701 2255 (or 0161 276 1234 - bleep 8013)
<b>Contact Email Address</b>	<a href="mailto:duty.biochemist@mft.nhs.uk">duty.biochemist@mft.nhs.uk</a> <a href="mailto:duty.paedbiochemist@mft.nhs.uk">duty.paedbiochemist@mft.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Alpha-subunit

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged (stable for 5 days)
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Queen Elizabeth Hospital Birmingham, Mindelsohn Way, Edgbaston, Birmingham, B15 2GW.
<b>Contact Name</b>	Briony Johnson
<b>Contact Telephone Number</b>	0121 371 6543
<b>Contact Email Address</b>	<a href="mailto:briony.johnson2@uhb.nhs.uk">briony.johnson2@uhb.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	

# Aluminium

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AL
<b>Other information required</b>	
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	Nicola Barlow
<b>Contact Telephone Number</b>	0121 507 3517
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## Amiodarone/Desethylamiodarone

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA, no gel)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AMIO
<b>Other information required</b>	
<b>Postal Address</b>	Cardiff Toxicology Laboratories, 4th Floor, Routledge Academic Centre, University Hospital Llandough, Penlan Road, Llandough, CF64 2XX.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	029 2071 6894
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Amylase Isoenzymes/Macroamylase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Chemical Pathology Reception, Level 1, Camelia Botnar Building, Great Ormond Street Hospital, Great Ormond Street, London, WC1N 3JH
<b>Contact Name</b>	Katie Harvey
<b>Contact Telephone Number</b>	0207 762 6751/0207 405 9200 ext. 1785
<b>Contact Email Address</b>	<a href="mailto:BainbK@gosh.nhs.uk">BainbK@gosh.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	5 weeks
<b>External Website</b>	

# Amyloid A

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	AMYLOID
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Androstenedione/ A4

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ANDRO (DHEAS and Androstendione: DHEASA4)
<b>Other information required</b>	
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/ download.cfm?doc=docm93jjjm4n5479</a>

## Angiotensin Converting Enzyme (ACE)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (preferred)/Plasma (Lithium Heparin)
<b>Sample Volume</b>	300uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	ACE
<b>Other information required</b>	Sample must be separated and frozen within 2hrs of collection. Samples can be transported on ice packs; dry ice not required. Stable for 4 weeks at 4 degrees C, 6 months at -20 degrees C
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport (frozen on ice packs)
<b>Turnaround Time</b>	28 working days
<b>External Website</b>	

## Angiotensin Converting Enzyme (ACE) (CSF)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	CSF
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	CSF ACE
<b>Other information required</b>	
<b>Postal Address</b>	Neurometabolic Unit, 6th Floor, Institute of Neurology, Queen Square House, Queen Square, London WC1N 3BG
<b>Contact Name</b>	Mr. Nana Ghansah
<b>Contact Telephone Number</b>	0203 44 83835/83818
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.neurometabolic@nhs.net">uclh.enquiry.neurometabolic@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Anti-Acetylcholine Receptor Antibodies (ACHR)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	50uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ACRAB
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm">https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm</a>

## Anti-Adrenal Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ADABS
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-C1q Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	C1QABS
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Cyclic Citrullinated (CCP) Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ANTI CCP
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-fungal drugs (Flucytosine, Fluconazole, Isavuconazole, Itraconazole, Posconazole, Voriconazole)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	50uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	VORICON/ POZACON/ FLUCON/ ITRACON
<b>Other information required</b>	
<b>Postal Address</b>	Mycology Reference Centre Manchester, 2nd Floor Laboratories, Education & Research Centre, Wythenshawe Hospital, Southmoor Road, Wythenshawe, Manchester, M23 9LT.
<b>Contact Name</b>	Nichola Duddy
<b>Contact Telephone Number</b>	0161 291 2124/5839
<b>Contact Email Address</b>	<a href="mailto:mrcm@mft.nhs.uk">mrcm@mft.nhs.uk</a>
<b>Dispatch</b>	DX Number: 332601, DX Exchange: Manchester 96 M
<b>Turnaround Time</b>	96 hours
<b>External Website</b>	

## Anti-GAD Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	GAD
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Ganglioside Antibodies (including anti-glycolipid antibodies)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Anti-ganglioside & anti-glycolipid antibodies: GM1, GM2, GD1a, GD1b, Gq1B. Used as part of the Ix into conditions such as multifocal neuropathy, Miller-Fisher syndrome and Guillain-Barre syndrome
<b>Postal Address</b>	Neuroimmunology and CSF Laboratory, Institute of Neurology (NHNN) Box 76, Queen Square, London, WC1N 3BG.
<b>Contact Name</b>	Dr. Melanie Hart
<b>Contact Telephone Number</b>	020 3448 3812
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.nhnn-nicl@nhs.net">uclh.enquiry.nhnn-nicl@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://www.ouh.nhs.uk/immunology/diagnostic-tests/tests-catalogue/ganglioside-antibodies.aspx">https://www.ouh.nhs.uk/immunology/diagnostic-tests/tests-catalogue/ganglioside-antibodies.aspx</a>

## Anti-IA2 Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	IA2
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRU@sheffield.nhs.net">sht-tr.enquiriesPRU@sheffield.nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-IL1-RA Antibodies

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Department of Clinical Biochemistry and Immunology, Level E4, Box 109, Addenbrooke's Hospital, Cambridge, CB2 0QQ
<b>Contact Name</b>	Dr Raine Doffinger
<b>Contact Telephone Number</b>	01223 217441 / 348145
<b>Contact Email Address</b>	<a href="mailto:r.doffinger@nhs.net">r.doffinger@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## Anti-Insulin Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	INSULINABS
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Islet Cell Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ISLET
<b>Other information required</b>	NB. Since 1st July 2021, this test is no longer part of the diabetes auto-antibody panel test.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-MOG Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	MOG
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, Churchill Hospital, Churchill Drive, Old Road, Headington, Oxford, OX3 7LE.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	01865 225995
<b>Contact Email Address</b>	<a href="mailto:Immunologylab.enquiries@ouh.nhs.uk">Immunologylab.enquiries@ouh.nhs.uk</a>
<b>Dispatch</b>	NPEX via First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Anti-Mullerian Hormone (AMH)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged (freeze if not being sent within 7 days of collection)
<b>Meditech Code</b>	AMH
<b>Other information required</b>	Send samples frozen if not sent within 7 days of sample collection
<b>Postal Address</b>	Central Specimen Reception, c/o Clinical Biochemistry, Clinical Sciences Building 3, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	Adult: 0161 701 8891 Paediatric: 0161 701 2255 (or 0161 276 1234 - bleep 8013)
<b>Contact Email Address</b>	<a href="mailto:duty.biochemist@mft.nhs.uk">duty.biochemist@mft.nhs.uk</a> <a href="mailto:duty.paedbiochemist@mft.nhs.uk">duty.paedbiochemist@mft.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Anti-MuSK Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	MUSK
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Anti-Neuronal Antibodies (aka Anti-paraneoplastic antibodies)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum or CSF
<b>Sample Volume</b>	50uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ANEUROABS
<b>Other information required</b>	Serum is preferred sample type as CSF samples are rarely found to be positive. This test is also known as Anti-paraneoplastic antibodies.
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	<a href="https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm">https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm</a>

## Anti-Neutrophil Cytoplasmic Antibodies (ANCA)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## Anti-NMDA Antibodies (Fixed)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum with paired CSF
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	NMDA
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Anti-Nuclear Factor

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## Anti-Ovarian Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	OVAB
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Phospholipase A2 Receptor Antibodies (PLA2R)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Testicular Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TESTAB
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Thyroglobulin Antibodies (ATG)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	THYROGLOBULIN
<b>Other information required</b>	The presence of thyroglobulin antibodies must be assessed when using the tumour marker thyroglobulin in patients with thyroid carcinoma, as they may interfere with the assay.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Anti-Thyroid Receptor Antibodies (TRAb)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TRAB
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Anti-TNF alpha drugs (Infliximab/Adalumimab/Vedolizumab)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	INFLIXMAB/ ADALIMUMAB/ VEDOLIZUMAB
<b>Other information required</b>	Please ensure both drug and antibody levels are detailed on SAS request form.
<b>Postal Address</b>	Blood Sciences Template A2, Royal Devon and Exeter NHS Foundation Trust, Barrack Road, Exeter, EX2 5DW.
<b>Contact Name</b>	Adrian Cudmore
<b>Contact Telephone Number</b>	01392 402935
<b>Contact Email Address</b>	<a href="mailto:rde-tr.biochem@nhs.net">rde-tr.biochem@nhs.net</a>
<b>Dispatch</b>	NPEX via First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Anti-Voltage Gated Calcium Channel Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	VGCC
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	21 working days
<b>External Website</b>	

## Anti-Voltage Gated Potassium Channel Antibodies (includes 'Anti-LGI1 Abs & Anti-CASPR2 Abs)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	VGKC
<b>Other information required</b>	Updated to reflect Oxofrd lab change 19/10/20 to add anti Caspr2 and aLGI1 abs
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Anti-Zinc Transporter 8 (ZnT8) Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ZNT8
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## APML (MRD Patients)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Bone Marrow
<b>Sample Volume</b>	Paied BM (5mL EDTA), PB (20mL EDTA)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Also send appropriate BM ti Lynn Quek in Paresb Vyas Lab: Tissue Bank Technician, Room 320 MHU, Weatherall Inst Mol Med, John Ratcliffe.
<b>Postal Address</b>	Molecular Oncology Diagnostics Unit, GSTS Pathology, 4th Floor, Guys Hospital, Great Maze Pond, London, SE1 9RT.
<b>Contact Name</b>	Dr. Yvonne Morgan
<b>Contact Telephone Number</b>	0207 188 7188 ext. 51060
<b>Contact Email Address</b>	<a href="mailto:yvonne.g.morgan@gstt.nhs.uk">yvonne.g.morgan@gstt.nhs.uk</a>
<b>Dispatch</b>	Special delivery (next day)
<b>Turnaround Time</b>	
<b>External Website</b>	

## Apo E genotyping

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	10-30mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	North Scotland Genetic Laboratory, Polwarth Building, Foresterhill, Aberdeen, AB25 2ZD.
<b>Contact Name</b>	Caroline Clark
<b>Contact Telephone Number</b>	0122 455 3983
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	28 working days
<b>External Website</b>	

# Apolipoprotein A-1

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0141 211 4003/4004
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

# Apolipoprotein B

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0141 211 4003/4004
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

## Aquaporin 4 Antibodies (NMO)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	NMOAB
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, Churchill Hospital, Churchill Drive, Old Road, Headington, Oxford, OX3 7LE.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	01865 225995
<b>Contact Email Address</b>	<a href="mailto:Immunologylab.enquiries@ouh.nhs.uk">Immunologylab.enquiries@ouh.nhs.uk</a>
<b>Dispatch</b>	NPEX via First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

# Arsenic

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (2 x 1.3ml Lithium Heparin Teklab tubes) / Urine
<b>Sample Volume</b>	2mL (blood) / 1mL (urine)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Provide urine creatinine result. (Cost £3.50 if measured at referral lab).
<b>Postal Address</b>	Trace Element Unit, Southampton General Hospital, Tremona Road, Southampton, SO16 6YD.
<b>Contact Name</b>	Christine Sieniawska
<b>Contact Telephone Number</b>	02387 206675
<b>Contact Email Address</b>	<a href="mailto:labresults@uhs.nhs.uk">labresults@uhs.nhs.uk</a> / <a href="mailto:UHS.dutybiochemist@uhs.nhs.uk">UHS.dutybiochemist@uhs.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Auto Antibodies

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## β2-glycoprotein 1 antibodies IgG and IgM (B2GP)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	BCAROT
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## β2-microglobulin (B2M)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Urine (adjusted to pH>6 with 0.1M NaOH)
<b>Sample Volume</b>	2mL (serum)/20mL (urine)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ANTI B2 GP1 IGG/ ANTI B2 GP1 IGM
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## β-carotene

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma or whole blood (EDTA or lithium heparin)
<b>Sample Volume</b>	250ul (plasma), 500ul (whole blood)
<b>Storage</b>	Fridged if being sent within 72 hrs of collection. If not, separate sample and freeze plasma until sending by 1st class post
<b>Meditech Code</b>	B2MGU
<b>Other information required</b>	Fasting sample preferred. Sample must be protected from light.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9578
<b>Contact Email Address</b>	<a href="mailto:STEMDRL@ggc.scot.nhs.uk">STEMDRL@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 days
<b>External Website</b>	

## β-trace protein (BTP) (1st line screening test for investigation replacing previously used Beta 2 transferrin test)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Fluid
<b>Sample Volume</b>	10uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	BTPCSF
<b>Other information required</b>	Paired serum sample preferred. Fluid samples received without a paired serum will be processed but it may only be possible to provide a limited interpretation.
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	Local Transport/First class post
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm">https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm</a>

## Basal Ganglia Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	BASALGABS
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology and CSF Laboratory, Institute of Neurology (NHNN) Box 76, Queen Square, London, WC1N 3BG.
<b>Contact Name</b>	Dr. Melanie Hart
<b>Contact Telephone Number</b>	020 3448 3812
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.nhnn-nicl@nhs.net">uclh.enquiry.nhnn-nicl@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Battens Disease (Neuronal Ceroid Lipofuscinoses (NCL))

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Whole blood (EDTA)
<b>Sample Volume</b>	3 mls
<b>Storage</b>	Room temp (can be stored re Fridgerated for 72 hrs max (if received on Friday pm))
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Heather Church / Karen Tylee
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## BCR ABL Gene

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	4mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Haematology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Bence Jones Protein / Urine Free Light Chains (FLC)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Early morning urine sample / 24 hr urine (no preservative)
<b>Sample Volume</b>	20 mls (random)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Bile acids (plasma)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	BILEAP
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Bile acids (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	BILEAU
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Biopterin including dihydropteridine reductase (DHPR)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	6 spots
<b>Storage</b>	Room temp
<b>Meditech Code</b>	BIOP
<b>Other information required</b>	Biopterin testing includes biopterin and neopterin analysis Please include phenylalanine result on request form to aid result interpretation. Not valid within 6 weeks of a blood transfusion.
<b>Postal Address</b>	Newborn Screening and Biochemical Genetics, Birmingham Children's Hospital, Steelhouse Lane, B4 6DH.
<b>Contact Name</b>	Philippa Goddard
<b>Contact Telephone Number</b>	0121 333 9905
<b>Contact Email Address</b>	<a href="mailto:nsbg.bch@nhs.net">nsbg.bch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	

# Biotinidase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma
<b>Sample Volume</b>	250uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	BIOT
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Blood Sciences, Royal Victoria Infirmary, Queen Victoria Road, Newcastle Upon Tyne, Tyne and Wear, NE1 4LP.
<b>Contact Name</b>	Dr. Ann Bowron
<b>Contact Telephone Number</b>	0191 282 4566
<b>Contact Email Address</b>	<a href="mailto:annbowron@nhs.net">annbowron@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="http://secure.newcastlelaboratories.com/test-directory/test/biotinidase-plasma/">http://secure.newcastlelaboratories.com/test-directory/test/biotinidase-plasma/</a>

## Bone specific ALP

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	BONE ALP
<b>Other information required</b>	
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Bromide

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (plain) NB. Gel/clot activity/any form of anti-coagulant tubes are NOT acceptable.
<b>Sample Volume</b>	
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Samples should be centrifuged and stored at 4 degrees C prior to sending Only for use in patients on Tazemetostat requiring bromide monitoring. Bromide salt potential toxic levels > 15.6 mmol/L Significant toxicity >35 mmol/L
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	Nicola Barlow
<b>Contact Telephone Number</b>	0151 507 3517 / 2947
<b>Contact Email Address</b>	<a href="mailto:nicola.barlow1@nhs.net">nicola.barlow1@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## C3 Nephritic Factor (C3NEF)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	C3NF
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Cadmium (Blood)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 5345
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Cadmium (Urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	20mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 5345
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

# Calcitonin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	CALC
<b>Other information required</b>	Samples should be collected on ice and separated within 30 mins of collection.
<b>Postal Address</b>	SAS Endocrine Laboratory, Ground Floor Specimen Reception, Clinical Biochemistry, Charing Cross Hospital, Fulham Palace Road, London, W6 8RF.
<b>Contact Name</b>	Dr. Emma Walker
<b>Contact Telephone Number</b>	020 311 30348/020 331 35910
<b>Contact Email Address</b>	<a href="mailto:imperial.nwlpcustomerservice@nhs.net">imperial.nwlpcustomerservice@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

# Carbamazepine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (preferred)/Plasma
<b>Sample Volume</b>	500uL
<b>Storage</b>	Stable for 2 days at RT, 7 days at 2-8C or 4 weeks at -20C
<b>Meditech Code</b>	CBZ
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4011
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	<72 hrs
<b>External Website</b>	

## Carbohydrate deficient transferrin (CDT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Cardiolipin (MLCL/CL ratio) /Monocardiolipin) (Barth's Syndrome)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried bloodspot
<b>Sample Volume</b>	2 spots, ideally 4 spots
<b>Storage</b>	Room temp
<b>Meditech Code</b>	CARDIOLIPINS
<b>Other information required</b>	Referral laboratory to be contacted prior to sending of sample Ensure that request form indicates that analysis is for the investigation of Barth syndrome
<b>Postal Address</b>	Neurometabolic Unit, 6th Floor, Institute of Neurology, Queen Square House, Queen Square, London WC1N 3BG
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0203 44 83835/83818
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.neurometabolic@nhs.net">uclh.enquiry.neurometabolic@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## CH50/AP100

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	4mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	CH100
<b>Other information required</b>	<p>Sample to reach referral lab within 24hrs of collection so ideally collect samples Mon-Wed only. If not store frozen and send on dry ice. Inform BMS of receipt of sample.</p> <p>If sufficient volume, separate &amp; freeze 4 x 300ul aliquots immediately upon receipt (or 1 x 300ul &amp; 3 x 100ul if less volume). Sample to remain frozen until receipt at referral lab.</p> <p>Haemolysed samples are unsuitable. Ensure that CH50 &amp; AP100 is written on the request form.</p>
<b>Postal Address</b>	Greater Manchester Immunology Service, Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Hannah Holland
<b>Contact Telephone Number</b>	0161 276 6440
<b>Contact Email Address</b>	<a href="mailto:hannah.holland@mft.nhs.uk">hannah.holland@mft.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	6 working days
<b>External Website</b>	

## Chimerism Studies (Manchester Transplant Lab)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Transplant Laboratory, 2nd Floor, Purple Zone, Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Julie Johnson
<b>Contact Telephone Number</b>	0161 276 6397
<b>Contact Email Address</b>	<a href="mailto:julie.johnson2@mft.nhs.uk">julie.johnson2@mft.nhs.uk</a>
<b>Dispatch</b>	Special delivery (next day)
<b>Turnaround Time</b>	
<b>External Website</b>	

## Chimerism Studies (RLUH only check)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	All sample should be accompanied by a form detailing the donor. If no form, contact Helen Webster for details.
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	1 weeks
<b>External Website</b>	

# Cholestanol

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Cholinesterase/pseudocholinesterase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA, no gel)
<b>Sample Volume</b>	0.5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	CHOLINEST
<b>Other information required</b>	If sample is being collected after a prolonged apnoea, please wait $\geq 48$ hrs post surgery. A warning card will be issued if the phenotype shows any unusual results.
<b>Postal Address</b>	Cardiff Toxicology Laboratories, 4th Floor, Routledge Academic Centre, University Hospital Llandough, Penlan Road, Llandough, CF64 2XX.
<b>Contact Name</b>	Emma Taylor
<b>Contact Telephone Number</b>	02921 826894
<b>Contact Email Address</b>	<a href="mailto:emma.taylor6@wales.nhs.uk">emma.taylor6@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 days
<b>External Website</b>	

## Chromosome Studies

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Lithium Heparin
<b>Sample Volume</b>	1-5mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Cytogenetics Department, Liverpool Woman's Hospital, Crown Street, Liverpool, L8 7SS
<b>Contact Name</b>	Dr. Peter Howard
<b>Contact Telephone Number</b>	0151 702 4234
<b>Contact Email Address</b>	
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Citrate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr) (acidified or plain)
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	UCITRATE
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume.
<b>Postal Address</b>	Clinical Biochemistry, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Krithika Subramaniam
<b>Contact Telephone Number</b>	0203 447 9405
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.biochemhelpdesk@nhs.net">uclh.enquiry.biochemhelpdesk@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Clobazam/Desmethyloclobazam

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	200uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	CLOBAZAM
<b>Other information required</b>	Ideal sampling time is immediately before next dose. An Antiepileptic Drug Form (NSE01 3/13) is available to be downloaded from the Epilepsy Society website: <a href="http://www.epilepsysociety.org.uk/">http://www.epilepsysociety.org.uk/</a> and must be completed prior to sample collection.
<b>Postal Address</b>	Therapeutic Drug Monitoring Unit (TDM Unit), Chalfont Centre for Epilepsy, Chesham Lane, Chalfont St Peter, SL9 0RJ.
<b>Contact Name</b>	Petros Kampanis Sharon Allen-Phillips
<b>Contact Telephone Number</b>	01494 601423
<b>Contact Email Address</b>	<a href="mailto:TDM_Unit@epilepsysociety.org.uk">TDM_Unit@epilepsysociety.org.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## Coagulation Molecular Genetics

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Includes: FVIII, FIX, VW. Other coagulation factors maybe requested. Requests should be accompanied by a letter with signed consent. If letter has space for lab data and data not yet available, then photocopy and file letter in 'Molecular Genetics Forms and Letter' box in Coag. Lab. Mark original letter with 'results to follow'.
<b>Postal Address</b>	Sheffield Molecular Genetics Service, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Dr. A Goodeve
<b>Contact Telephone Number</b>	0114 271 7003
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## Collagen type-1 cross linked C-telopeptide (CTX)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	CTX
<b>Other information required</b>	
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## Collagen type-1 cross linked N-telopeptide (NTX)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridge
<b>Meditech Code</b>	NTX
<b>Other information required</b>	Ideally second void of the day. Samples should be protected from light.
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Complement C1q

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	C1Q
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	20 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Constitutional DNA Storage/Molecular Genetics

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	5-10mL (DNA storage), 2-5mL (molecular genetics)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	If cytogenetics and DNA storage are requested together, then two separate samples are required.
<b>Postal Address</b>	Merseyside and Cheshire Regional Genetics Laboratory, Liverpool Woman's Hospital NHS Trust, Crown Street, Liverpool, L8 7SS.
<b>Contact Name</b>	Mr Roger Mountford
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

# Copeptin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma
<b>Sample Volume</b>	500uL
<b>Storage</b>	Stable for 7 days at RT, 14 days at 2-8oC.
<b>Meditech Code</b>	COPEPTIN
<b>Other information required</b>	Copeptin results are of most value when under taken under osmotic stimulus. Please include clinical details and concurrent urine and plasma sodium and osmolality results on SAS form.
<b>Postal Address</b>	Dept of Blood Sciences, Royal Victoria Infirmary, Queen Victoria Road, Newcastle Upon Tyne, Tyne and Wear, NE1 4LP.
<b>Contact Name</b>	Dr. Chris Boot
<b>Contact Telephone Number</b>	0191 282 4153
<b>Contact Email Address</b>	<a href="mailto:christopher.boot@nuth.nhs.uk">christopher.boot@nuth.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

## Cortisol (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	24hr Urine
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	UCORT
<b>Other information required</b>	Note 24hr urine volume in Meditech and on SAS form.
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Cortisol (mass spec)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum / Plasma
<b>Sample Volume</b>	50uL
<b>Storage</b>	Separate and store in fridge or freezer
<b>Meditech Code</b>	CORTISOL MS
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	James Hawley
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 working days - <24hrs if urgent and ir prior discussion with Duty Biochemist
<b>External Website</b>	

## Cortisol and Cortisone (saliva)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Saliva
<b>Sample Volume</b>	125uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	EMSC
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## Cryoglobulin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	2x 2ml EDTA and 2x 2ml serum at 370C
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	CRYOGLOB
<b>Other information required</b>	Separate samples at 35 - 41 0C and send at ambient temperature. Store at 4 0C if not sending on day of separation.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://www.immqas.org.uk/TestItem.asp?id=244">https://www.immqas.org.uk/TestItem.asp?id=244</a>

## CSF Cytokines

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Please refer to Cytokine Profile (Functionel (TH1)) record as CSF cytokines is available under this test
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

# Cyclosporin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole blood (EDTA)
<b>Sample Volume</b>	1ml
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Samples to be processed upon collection and pass to BMS staff for sending with next courier transport
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Cystatin C

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	CYSTC
<b>Other information required</b>	
<b>Postal Address</b>	Central Specimen Reception, c/o Clinical Biochemistry, Clinical Sciences Building 3, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	Adult: 0161 701 8891 Paediatric: 0161 701 2255 (or 0161 276 1234 - bleep 8013)
<b>Contact Email Address</b>	<a href="mailto:duty.biochemist@mft.nhs.uk">duty.biochemist@mft.nhs.uk</a> <a href="mailto:duty.paedbiochemist@mft.nhs.uk">duty.paedbiochemist@mft.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Cytogenetics/Chromosomal Analysis

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Lithium Heparin/Transport Media for Bone Marrow
<b>Sample Volume</b>	1-2mL (newborns), 2-5mL (older children), 1-2mL (bone marrow aspirate into culture media bottle).
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	If cytogenetics and DNA storage are requested together, then two separate samples are required. Urgent samples should be send via taxi immediately.
<b>Postal Address</b>	Cytogenetics Department, Liverpool Woman's Hospital, Crown Street, Liverpool, L8 7SS
<b>Contact Name</b>	Dr. Peter Howard
<b>Contact Telephone Number</b>	0151 702 4229
<b>Contact Email Address</b>	<a href="mailto:peter_howard@lwh.nhs.uk">peter_howard@lwh.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Cytokine Profile (Functional (TH1))

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Lithium Heparin Whole Blood / EDTA Whole Blood DO NOT centrifuge. Clotted Blood to be centrifuged. CSF also suitable. DO NOT refrigerate or freeze blood samples.
<b>Sample Volume</b>	3-5mL (lithium heparin), 2.7mL (EDTA), 2.5mL (Clotted)
<b>Storage</b>	Room Temperature (blood samples) CSF samples to be frozen immediately
<b>Meditech Code</b>	
<b>Other information required</b>	Samples MUST reach referral laboratory within 24hrs of collection so should not be sent Thurs-Sun. Ideally referral laboratory should be contacted BEFORE sample collection. CSF samples should be collected into endotoxin free tubes and be frozen ASAP. No control samples required with CSF samples. Appropriate form needs to be completed. Cytokine proforma June 2023
<b>Postal Address</b>	Department of Clinical Biochemistry and Immunology, Level E4, Box 109, Addenbrooke's Hospital, Cambridge, CB2 0QQ.
<b>Contact Name</b>	Dr. Raine Doffinger
<b>Contact Telephone Number</b>	01223 217441 (office) / 01223 348145 (lab)
<b>Contact Email Address</b>	<a href="mailto:r.doffinger@nhs.net">r.doffinger@nhs.net</a>
<b>Dispatch</b>	Next day delivery ambient temperature (blood samples) CSF to be sent on dry ice
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

# Cytotoxic Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	10mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	In patients approaching adult age, the clinician may ask for samples to be sent to Liverpool. Deliver samples directly to laboratory to be received within 48 hours of collection
<b>Postal Address</b>	Transplant Laboratory, 2nd Floor, Purple Zone, Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Julie Johnson
<b>Contact Telephone Number</b>	0161 276 6397
<b>Contact Email Address</b>	<a href="mailto:julie.johnson2@mft.nhs.uk">julie.johnson2@mft.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	Not stated
<b>External Website</b>	

## Cytotoxic Antibodies

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	10mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Unless stated otherwise, samples for cytotoxic antibodies should be sent to the Transplant Lab at Manchester.
<b>Postal Address</b>	Histocompatibility and Immunogenetics Laboratory, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Fontini Partheniou
<b>Contact Telephone Number</b>	0151 706 4366
<b>Contact Email Address</b>	<a href="mailto:fotini.partheniou@liverpoolft.nhs.uk">fotini.partheniou@liverpoolft.nhs.uk</a>
<b>Dispatch</b>	First class post/Local Transport
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

# Daptomycin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	DAP
<b>Other information required</b>	
<b>Postal Address</b>	North Bristol NHS Trust, Antimicrobial Reference Laboratory, Microbiology Department, Level 2 Phase 1, Southmead Hospital, Bristol, BS10 5NB
<b>Contact Name</b>	Alan Noel
<b>Contact Telephone Number</b>	0117 414 6220
<b>Contact Email Address</b>	<a href="mailto:ARLEnquiries@nbt.nhs.uk">ARLEnquiries@nbt.nhs.uk</a>
<b>Dispatch</b>	DX Number: 6121301, DX Exchange: WESTBURY TRYM 90BS
<b>Turnaround Time</b>	3 days
<b>External Website</b>	

## Dehydroepiandrosterone Sulphate (DHEAS)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	DHEAS (DHEAS and Androstendione: DHEASA4)
<b>Other information required</b>	
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/ download.cfm?doc=docm93jjjm4n5479</a>

# Digoxin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (preferred)/Plasma
<b>Sample Volume</b>	500uL
<b>Storage</b>	Stable for 7 days at RT, 14 days at 2-8C or 6 months at -20C
<b>Meditech Code</b>	DIG
<b>Other information required</b>	Samples to be processed upon collection and pass to BMS staff for sending with next courier transport
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4011
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	<24 hrs
<b>External Website</b>	

## Dihydropyrimidine Dehydrogenase (DPYD genotype)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	EDTA whole blood
<b>Sample Volume</b>	3mL
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	For patients on 5-Fluorouracil to exclude DPD deficiency
<b>Postal Address</b>	Central Specimen Reception Synnovis Friars Bridge Court 41-43 Blackfriars Road London SE1 8NZ
<b>Contact Name</b>	Erin Emmett
<b>Contact Telephone Number</b>	0207 188 7652
<b>Contact Email Address</b>	<a href="mailto:erin.emmett@gstt.nhs.uk">erin.emmett@gstt.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## Dihydrotestosterone (DHT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	800uL
<b>Storage</b>	Stable for 24 hours at 2-8C or 6 months at -18C
<b>Meditech Code</b>	DHTT
<b>Other information required</b>	Please state if part of a hCG stimulation test as, in these cases, testosterone should also be measured by mass spectrometry to allow accurate calculation of ratio.
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	21 working days
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479</a>

## Disaccharidase, Intestinal

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Test no longer available at MFT since 1st August 2025
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## D-lactate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	300uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	DLAC
<b>Other information required</b>	Sample must be separated within 1hr of collection and are then stable at 4 0C for 7 days..
<b>Postal Address</b>	Blood Sciences, Clinical Biochemistry, Birmingham Children's Hospital, Steelhouse Lane, B4 6DH.
<b>Contact Name</b>	Dr. Sarah Heap
<b>Contact Telephone Number</b>	0121 333 9999 - bleep 55271
<b>Contact Email Address</b>	<a href="mailto:bwc.biochemist@nhs.net">bwc.biochemist@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## DNA for Storage (Individual Tests for e.g. Rett, Angelman Syndrome)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	3mL (1mL neonates)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Cytogenetics Department, Liverpool Woman's Hospital, Crown Street, Liverpool, L8 7SS
<b>Contact Name</b>	Mr Roger Mountford/Dr. Vicky Stanton
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## ds DNA & ENA

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Before sending, spin sample down and separate off 100uL into two tubes for dsDNA and ENA. Record this in red folder located in specimen reception. Store aliquots on top shelf of coag freezer. Send original sample to referral lab.
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## Faecal elastase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Faeces
<b>Sample Volume</b>	Pea-sized (5g)
<b>Storage</b>	Stable for 7 days at room temperature, 7 days at 4 degrees C and 4 weeks frozen
<b>Meditech Code</b>	ELAST
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Endomysial antibodies IgA

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ENDOMYS IGA
<b>Other information required</b>	
<b>Postal Address</b>	Blood Sciences, Countess of Chester, Liverpool Road, Chester, CH2 1UL.
<b>Contact Name</b>	Kevin Clooney
<b>Contact Telephone Number</b>	01244 365 030
<b>Contact Email Address</b>	<a href="mailto:kevin.clooney@nhs.net">kevin.clooney@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Endomysial antibodies IgG

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ENDOMYS IGG
<b>Other information required</b>	
<b>Postal Address</b>	Blood Sciences, Countess of Chester, Liverpool Road, Chester, CH2 1UL.
<b>Contact Name</b>	Kevin Clooney
<b>Contact Telephone Number</b>	01244 365 030
<b>Contact Email Address</b>	<a href="mailto:kevin.clooney@nhs.net">kevin.clooney@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Enhanced Liver Fibrosis test (ELF)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	ELF
<b>Other information required</b>	Stable for 48hrs at room temperature.
<b>Postal Address</b>	Dept. of Clinical Biochemistry, Royal Stoke University Hospital, Newcastle Road, Stoke-On-Trent, ST4 6QG.
<b>Contact Name</b>	Dr. Chris Duff
<b>Contact Telephone Number</b>	01782 674 265
<b>Contact Email Address</b>	<a href="mailto:biochemistry.uhns@nhs.net">biochemistry.uhns@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Erythropoietin (EPO)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (Lithium heparin plasma also acceptable)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Stable for 7 days at 2-8oC
<b>Meditech Code</b>	
<b>Other information required</b>	Haemolysed samples are unsuitable.
<b>Postal Address</b>	Biochemistry Department, King's College Hospital, Denamrk Hill, London, SE5 9RS
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0204 513 7300 option 1
<b>Contact Email Address</b>	<a href="mailto:customerservices@synnovis.co.uk">customerservices@synnovis.co.uk</a>
<b>Dispatch</b>	DX number: 6570203, DX Exchange: PECKHAM 90SE
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://www.synnovis.co.uk/our-tests/erythropoietin-epo">https://www.synnovis.co.uk/our-tests/erythropoietin-epo</a>

## Essential Fatty Acids (Red Cell)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried blood spots (kit provided)
<b>Sample Volume</b>	
<b>Storage</b>	Room Temperature
<b>Meditech Code</b>	EFA
<b>Other information required</b>	Minimum patient age is 2 years It is advisable for samples to be collected following an 8hrs fast.
<b>Postal Address</b>	Genova Diagnostics Europe, 46-50 Coombe Road, New Maiden, KT3 4QF
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0207 336 7750
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="http://www.gdx.net/uk">www.gdx.net/uk</a>

## Ethosuximide

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	200uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Ideal sampling time is immediately before next dose. An Antiepileptic Drug Form (NSE01 3/13) is available to be downloaded from the Epilepsy Society website: <a href="http://www.epilepsysociety.org.uk/">http://www.epilepsysociety.org.uk/</a> and must be completed prior to sample collection.
<b>Postal Address</b>	Therapeutic Drug Monitoring Unit (TDM Unit), Chalfont Centre for Epilepsy, Chesham Lane, Chalfont St Peter, SL9 0RJ.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	01494 601423
<b>Contact Email Address</b>	<a href="mailto:TDM_Unit@epilepsysociety.org.uk">TDM_Unit@epilepsysociety.org.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## Ethylene Glycol (Toxic Alcohols)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	MULTIPLE
<b>Sample Volume</b>	1ml
<b>Storage</b>	Fridged
<b>Meditech Code</b>	MISC
<b>Other information required</b>	<p>All requests to be emailed to <a href="mailto:rwh-tr.bcps.ethyleneglycolservice@nhs.net">rwh-tr.bcps.ethyleneglycolservice@nhs.net</a>, containing expected arrival time, patient information and laboratory contact details</p> <p>Delivery is now to a "lock-box" with instructions online - <a href="https://www.bcpathology.org.uk/bcps-services/clinical-biochemistry-specialist/toxic-alcohols-service/">https://www.bcpathology.org.uk/bcps-services/clinical-biochemistry-specialist/toxic-alcohols-service/</a></p> <p>Samples received before 15:30 processed same day, after 15:30 the following day. Out of hours requests considered on a case-by-case basis and MUST be discussed with senior toxicology staff member - 0121 507 4138</p>
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 5345
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	Special delivery (next day) or taxi/courier (if clinically indicated). Must use special postage label from website
<b>Turnaround Time</b>	1 working day
<b>External Website</b>	<a href="http://www.cityassays.org.uk/ethyleneglycol.html">http://www.cityassays.org.uk/ethyleneglycol.html</a>

# Everolimus

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole blood (EDTA)
<b>Sample Volume</b>	500ul
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	James Hawley
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Factor H

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Sample must be received by referral lab within 24hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Immunology Department, Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Mo Moody
<b>Contact Telephone Number</b>	029 2074 8350
<b>Contact Email Address</b>	<a href="mailto:mo.moody@wales.nhs.uk">mo.moody@wales.nhs.uk</a>
<b>Dispatch</b>	Special delivery (next day)
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Factor V Leiden

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	2mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Coagulation Department, Haematology, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Mariam Waite
<b>Contact Telephone Number</b>	0151 706 4967
<b>Contact Email Address</b>	<a href="mailto:mariam.waite@rlubt.nhs.uk">mariam.waite@rlubt.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Faecal Immunochemical Test (FIT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Faeces
<b>Sample Volume</b>	N/A
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	<p>Samples must be transferred into a special FIT green top sample tube before sending Collection device is stable until expiry date stated on device. Devices are stored in the main laboratory drawer by the blood gas analyser. Order collection kits from <a href="mailto:fit_enquiriesSTHK@merseywestlancs.nhs.uk">fit_enquiriesSTHK@merseywestlancs.nhs.uk</a></p>
<b>Postal Address</b>	Biochemistry Department, Whiston Hospital, Nightingale House, Warrington Road, Rainhill, Prescot, L35 5DR
<b>Contact Name</b>	Lesley Mather
<b>Contact Telephone Number</b>	0151 290 4507
<b>Contact Email Address</b>	<a href="mailto:lesley.mather@merseywestlancs.nhs.uk">lesley.mather@merseywestlancs.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="http://www.sthk.nhs.uk/pathology">www.sthk.nhs.uk/pathology</a>

## Fanconi Anaemia

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (Lithium Heparin)
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Completed genetics form should be sent with sample: <a href="http://www.guysandstthomas.nhs.uk/resources/our-services/grida/genetics/genetics-specimen-form.pdf">http://www.guysandstthomas.nhs.uk/resources/our-services/grida/genetics/genetics-specimen-form.pdf</a>
<b>Postal Address</b>	Genetics Laboratory, 5th Floor, Tower Wing, Guys Hospital, Great Maze Pond, London, SE1 9RT.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	<a href="mailto:stefan.meyer-2@manchester.ac.uk">stefan.meyer-2@manchester.ac.uk</a>
<b>Dispatch</b>	Courier
<b>Turnaround Time</b>	
<b>External Website</b>	

## Fenfluramine & norfenfluramine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (no anticoagulant) / Plasma (EDTA) and/or saliva
<b>Sample Volume</b>	200ul
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	There is no single established therapeutic reference range for patients with epilepsy
<b>Postal Address</b>	Therapeutic Drug Monitoring Unit (TDM Unit), Chalfont Centre for Epilepsy, Chesham Lane, Chalfont St Peter, SL9 0RJ.
<b>Contact Name</b>	Petros Kampanis Sharon Allen-Phillips
<b>Contact Telephone Number</b>	01494 601 300
<b>Contact Email Address</b>	<a href="mailto:TDM_Unit@epilepsysociety.org.uk">TDM_Unit@epilepsysociety.org.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## FIB-4 (Fibrosis-4 Index)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	ELF testing is the preferred test for liver fibrosis investigation in paediatric populations
<b>Postal Address</b>	
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## FGF-23

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	600uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	FGF23
<b>Other information required</b>	
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

## Fructosamine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Queen Elizabeth Hospital Birmingham, Mindelsohn Way, Edgbaston, Birmingham, B15 2GW.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 371 6543
<b>Contact Email Address</b>	<a href="mailto:biolink@uhb.nhs.uk">biolink@uhb.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

# Galactitol

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	UGALACTITOL
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Clinical Biochemistry, Core Clinical Services Directorate, Pathology Sciences Laboratory, Southmead Hospital, Westbury on Trym, Bristol, BS10 5NB
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0117 414 8418
<b>Contact Email Address</b>	<a href="mailto:nbn-tr.ClinicalBiochemistryNBT@nhs.net">nbn-tr.ClinicalBiochemistryNBT@nhs.net</a>
<b>Dispatch</b>	DX Number: 6121301, DX Exchange: WESTBURY TRYM 90BS
<b>Turnaround Time</b>	28 days (24-48hrs if urgent)
<b>External Website</b>	

# Galactokinase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (Lithium Heparin)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	GALK
<b>Other information required</b>	Sample must reach referral lab within 24hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Dept of Clinical Biochemistry, Core Clinical Services Directorate, Pathology Sciences Laboratory, Southmead Hospital, Westbury on Trym, Bristol, BS10 5NB
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0117 414 8418
<b>Contact Email Address</b>	<a href="mailto:nbn-tr.ClinicalBiochemistryNBT@nhs.net">nbn-tr.ClinicalBiochemistryNBT@nhs.net</a>
<b>Dispatch</b>	DX Number: 6121301, DX Exchange: WESTBURY TRYM 90BS
<b>Turnaround Time</b>	28 days (24-48hrs if urgent)
<b>External Website</b>	

## Galactosaemia Mutation Analysis (GALT gene)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	3mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Refer requests to Duty Biochemist to check suitability.
<b>Postal Address</b>	Molecular Genetics Service, Bristol Genetics Laboratory, Southmead Hospital, Bristol, BS10 5NB.
<b>Contact Name</b>	Hilary Sawyer
<b>Contact Telephone Number</b>	0117 323 5565/5518/6271
<b>Contact Email Address</b>	<a href="mailto:hilary.sawyer@nbt.nhs.uk">hilary.sawyer@nbt.nhs.uk</a> / <a href="mailto:maggie.williams@nbt.nhs.uk">maggie.williams@nbt.nhs.uk</a>
<b>Dispatch</b>	DX Number: 6121301, DX Exchange: WESTBURY TRYM 90BS
<b>Turnaround Time</b>	40 days (full screen), 3 days (urgent, known mutation)
<b>External Website</b>	

## Galactose-1-phosphate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Lithium Heparin
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	GAL1P
<b>Other information required</b>	Sample must reach referral lab within 24hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	Courier or Special Delivery
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

# Gastrin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	GASTRIN
<b>Other information required</b>	Samples should be collected on ice and separated within 15mins of collection. Patients must be fasted overnight. If possible cease H2 agonist medication for 2 weeks prior to test.
<b>Postal Address</b>	SAS Endocrine Laboratory, Ground Floor Specimen Reception, Clinical Biochemistry, Charing Cross Hospital, Fulham Palace Road, London, W6 8RF.
<b>Contact Name</b>	Dr. Emma Walker
<b>Contact Telephone Number</b>	020 311 30348/020 331 35910
<b>Contact Email Address</b>	<a href="mailto:imperial.nwlpcustomerservice@nhs.net">imperial.nwlpcustomerservice@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Gilberts Genotyping

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	GILBERTS
<b>Other information required</b>	Please ensure that request form states 'Unconjugated hyperbilirubinaemia in the absence of haemolysis, where a molecular diagnosis will contribute to management as per the National Genomics Directory for R176' Samples now acceptable from GP requests
<b>Postal Address</b>	Genetic Laboratories - Level 2, Liverpool Women's Hospital, Crown Street, Liverpool, L8 7SS
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:mft.genomics@nhs.net">mft.genomics@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	20 working days
<b>External Website</b>	

## Glomerular Basement Membrane Antibodies (GBM)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## Glycine receptor antibodies

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Testing is indicated for investigation of spinal and brain stem disorders (Stiff person syndrome and PERM).
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Clare Del-Duca
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://sheffieldlaboratorymedicine.nhs.uk/search-test.php?search=2878">https://sheffieldlaboratorymedicine.nhs.uk/search-test.php?search=2878</a>

# Glycolate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr) (plain) NB. If shared sample with oxalate analysis need to acidify to pH 2.5-5
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	UOXALATER/ UOXALATE24
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume. 24 hr samples received in plain urine containers must be acidified within 24 hrs of receipt
<b>Postal Address</b>	Clinical Biochemistry, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Krithika Subramaniam
<b>Contact Telephone Number</b>	0203 447 9405
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.biochemhelpdesk@nhs.net">uclh.enquiry.biochemhelpdesk@nhs.net</a>
<b>Dispatch</b>	DX Number: 6630800, DX Exchange: TOTTENHAM CT RD 90W
<b>Turnaround Time</b>	1 month
<b>External Website</b>	

## Guanidinoacetate and Creatine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)/Urine
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen (Whole blood stable for 6hrs, serum/plasma stable for 24hrs and urine stable for 2hrs at RT)
<b>Meditech Code</b>	GUANIDINAC/ GUANACETU
<b>Other information required</b>	
<b>Postal Address</b>	Biochemical Genetics Unit, c/o Clinical Biochemistry, Pathology Block, Level 4, Addenbrooke's Hospital, Hills Road, Cambridge, CB2 0QQ.
<b>Contact Name</b>	Sarah Hogg
<b>Contact Telephone Number</b>	01223 805000 / 245151
<b>Contact Email Address</b>	<a href="mailto:sarah.hogg@nhs.net">sarah.hogg@nhs.net</a>
<b>Dispatch</b>	Send frozen (plasma & urine)
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Gut hormone screen (profile inc: Vasointestinal polypeptide, Pancreatic Polypeptide, Gastrin, Glucagon, Somatostatin, Chromogranin A and B)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	6mL required in 2 x 4ml EDTA tubes
<b>Storage</b>	Frozen
<b>Meditech Code</b>	GUT
<b>Other information required</b>	Samples should be collected on ice and separated within 15mins of collection. Patients must be fasted overnight.
<b>Postal Address</b>	SAS Endocrine Laboratory, Ground Floor Specimen Reception, Clinical Biochemistry, Charing Cross Hospital, Fulham Palace Road, London, W6 8RF.
<b>Contact Name</b>	Dr. Emma Walker
<b>Contact Telephone Number</b>	Results: 020 3313 3949 Clin Advice:020 331 35910
<b>Contact Email Address</b>	<a href="mailto:imperial.nwlpcustomerservice@nhs.net">imperial.nwlpcustomerservice@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

## Haptoglobin/Haemopexin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	HAPTO
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRU@sheffield.nhs.net">sht-tr.enquiriesPRU@sheffield.nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

# Hepcidin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Test currently unavailable. If requested, contact the referral lab for further information.
<b>Postal Address</b>	Dept of Clinical Biochemistry, Birmingham Heartlands Hospital, Bordesley Green East, Birmingham, B9 5SS
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## Hermansky-Pudlak Syndrome (Platelet Electron Microscopy Service)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	3-5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Essential that test is booked in advance.
<b>Postal Address</b>	Histopathology Department, Electron Microscopy Unit, Camelia Botnar Laboratories, Level 3, Great Ormond Street Hospital for Children, London, WC1N 3JH.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0207 829 8663
<b>Contact Email Address</b>	
<b>Dispatch</b>	Courier
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## HLA – B\* 5710

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	4mL
<b>Storage</b>	
<b>Mediatech Code</b>	
<b>Other information required</b>	Samples should be anonymised. If transport is later than 5 days after collection, store sample at -20C to -40C (not packed). (Sample allowed to thaw in transit).
<b>Postal Address</b>	Delphic Laboratories Ltd, 1030 Heeley Close, Kent Science Park, Sittingbourne, Kent, ME9 8HL.
<b>Contact Name</b>	Nick Gardner
<b>Contact Telephone Number</b>	01795 436 688
<b>Contact Email Address</b>	<a href="mailto:enquiries@delphicdiagnostics.com">enquiries@delphicdiagnostics.com</a>
<b>Dispatch</b>	DX Number: 646688, DX Exchange: SITTINGBOURNE 91M
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## HLA Antibodies

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## HLA B27

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	1mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

## HLA Tissue Typing

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA and Serum
<b>Sample Volume</b>	5-10ml (EDTA), 1mL (serum)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Samples may be duplicated for family studies for HLA typing. Book samples into Meditech as 'MISCH' with details in clinical comment. Sample arriving after 4pm should be stored at room temp. and posted the next day.
<b>Postal Address</b>	Clinical Services, Antony Nolan Trsut, Histocompatibility Lab, Fleet Road, Hampstead, London, NW3 2QG.
<b>Contact Name</b>	Helen Ogilvie/Sandra Frater
<b>Contact Telephone Number</b>	2072848303
<b>Contact Email Address</b>	
<b>Dispatch</b>	Special delivery
<b>Turnaround Time</b>	
<b>External Website</b>	

# HLA Typing

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	4mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Double check when sending samples off for tissue typing for potential transplant patients as they usually go to Antony Nolan Trust with sibling and parent samples going to Liverpool.
<b>Postal Address</b>	Immunology Department, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Catherine Keymer
<b>Contact Telephone Number</b>	0151 706 4355/4350
<b>Contact Email Address</b>	<a href="mailto:catherine.keymer@rlbuht.nhs.uk">catherine.keymer@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	11 working days
<b>External Website</b>	

## Hypoxanthine guanine phosphoribosyltransferase (HGPRT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	3mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	HGPRT
<b>Other information required</b>	
<b>Postal Address</b>	Central Specimen Reception Synnovis Friars Bridge Court 41-43 Blackfriars Road London SE1 8NZ
<b>Contact Name</b>	Mariam Abbasi
<b>Contact Telephone Number</b>	0207 188 1266
<b>Contact Email Address</b>	<a href="mailto:mariam.abbasi@viapath.co.uk">mariam.abbasi@viapath.co.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## IGF binding protein 3 (IGF-BP3)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	200uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	IGFBP3
<b>Other information required</b>	
<b>Postal Address</b>	SAS Peptide Hormones Section, Clinical Laboratory, Royal Surrey County Hospital, Egerton Road, Guildford, Surrey, GU2 7XX.
<b>Contact Name</b>	Nick Porter
<b>Contact Telephone Number</b>	01483 406 715
<b>Contact Email Address</b>	<a href="mailto:gwen.wark@nhs.net">gwen.wark@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## IgD (immunoglobulin D)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	IGD
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## IGF-2

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Supply IGF-1 result.
<b>Postal Address</b>	SAS Peptide Hormones Section, Clinical Laboratory, Royal Surrey County Hospital, Egerton Road, Guildford, Surrey, GU2 7XX.
<b>Contact Name</b>	Nick Porter
<b>Contact Telephone Number</b>	01483 406 715
<b>Contact Email Address</b>	<a href="mailto:gwen.wark@nhs.net">gwen.wark@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## IgG subclasses

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	IGSUB
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

# Inhibin A

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma
<b>Sample Volume</b>	2mL
<b>Storage</b>	Stable for 24hrs 2-8C or 30 days at -20C.
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Inhibin B

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	INHIBINB
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Interferon signature gene expression assay (R&D assay)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	PAX gene tubes required. These need to be requested in advance of sample collection.
<b>Sample Volume</b>	PAX tubes are vacutainers and require 2-5mls blood
<b>Storage</b>	Stand tubes upright for min 2 hrs and freeze upright within 72 hrs of collection
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Chemical Pathology Reception, Level 1, Camelia Botnar Building, Great Ormond Street Hospital, Great Ormond Street, London, WC1N 3JH
<b>Contact Name</b>	Annabelle Mai Mark Davis
<b>Contact Telephone Number</b>	0207 829 8835
<b>Contact Email Address</b>	<a href="mailto:gos-tr.Immunology@nhs.net">gos-tr.Immunology@nhs.net</a> <a href="mailto:immunology@gosh.nhs.uk">immunology@gosh.nhs.uk</a>
<b>Dispatch</b>	Send next day delivery to ensure receipt within 70 hours of sample collection. Send on dry ice if shipping frozen.
<b>Turnaround Time</b>	30 days
<b>External Website</b>	

## Interleukin 6 (IL-6)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	IL6
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	4 weeks (24hr urgent)
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

# Iodine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)/Urine
<b>Sample Volume</b>	500uL (serum/plasma)/1mL (urine)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	I / UI
<b>Other information required</b>	Provide urine creatinine result. (Cost £3.50 if measured at referral lab).
<b>Postal Address</b>	Trace Element Unit, Southampton General Hospital, Tremona Road, Southampton, SO16 6YD.
<b>Contact Name</b>	Christine Sieniawska
<b>Contact Telephone Number</b>	023807 96237
<b>Contact Email Address</b>	<a href="mailto:labresults@uhs.nhs.uk">labresults@uhs.nhs.uk</a> / <a href="mailto:UHS.dutybiochemist@uhs.nhs.uk">UHS.dutybiochemist@uhs.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

# Iohexol

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum / Li Hep plasma
<b>Sample Volume</b>	250ul serum/Li Hep plasma. Absolute minimum 150uL.
<b>Storage</b>	Fridged
<b>Meditech Code</b>	IOHEXOL
<b>Other information required</b>	Samples collected a2hr, 3hr & 4hrs (+/- 6hrs) and received under a single sample number. Please ensure each sample is labelled with a time point. A complete Iohexol GFR record form should accompany the sample Out of hours contact for courier: 01865 220465
<b>Postal Address</b>	Department of Clinical Biochemistry, Level 4, John Radcliffe Hospital, Headley Way, Headington, Oxford OX3 9DU
<b>Contact Name</b>	Zoe Maunsell, 01865 220335, zoe.maunsell@ouh.nhs.uk
<b>Contact Telephone Number</b>	01865 857791
<b>Contact Email Address</b>	<a href="mailto:clinicalbiochemistry.advice@ouh.nhs.uk">clinicalbiochemistry.advice@ouh.nhs.uk</a>
<b>Dispatch</b>	Special delivery
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## JSLENEUT (Lupus Neutophil Study)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Heparin
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Lupus Neutophil Study. Bloods need to be received by lab for audit trail. Inform Angela of sample.
<b>Postal Address</b>	Institute of Child Health, Alder Hey Hospital, Liverpool, L12 2AP.
<b>Contact Name</b>	Angela Midgley
<b>Contact Telephone Number</b>	ext. 2436/2438 (07751124148)
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

# Lamotrigine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	LAMO
<b>Other information required</b>	
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 4138
<b>Contact Email Address</b>	<a href="mailto:swbh.toxicology@nhs.net">swbh.toxicology@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	

## Laxative screen

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	LAXATIVE
<b>Other information required</b>	
<b>Postal Address</b>	Department of Biochemistry, Salford Royal Foundation Trust, Stott Lane, Salford, M6 8HD.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 206 8212
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## Leucocyte Adhesion Defect CD11, CD18

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	1mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Immunology Dept. Royal Victoria Infirmary, Queen Victoria Road, Newcastle Upon Tyne, NE1 4LP.
<b>Contact Name</b>	Dawn Barge
<b>Contact Telephone Number</b>	0191 282 5078
<b>Contact Email Address</b>	
<b>Dispatch</b>	Special delivery (next day)
<b>Turnaround Time</b>	
<b>External Website</b>	

## Levetiracetam (Keppra)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA) / Serum - no gel
<b>Sample Volume</b>	200uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Trough sample
<b>Postal Address</b>	Cardiff Toxicology Laboratories, 4th Floor, Routledge Academic Centre, University Hospital Llandough, Penlan Road, Llandough, CF64 2XX.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	029 2071 6894
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

# Lipase

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	200uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	LIPASE
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Lipoprotein (a)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0141 211 4003/4004
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

## Lipoprotein profile

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Make it clear on SAS form which lipid fraction is required.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0141 211 4003/4004
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 week
<b>External Website</b>	

# Lithium

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	LI
<b>Other information required</b>	Samples to be processed upon collection and pass to BMS staff for sending with next courier transport Sample should be taken pre-dose or at least 12hrs post-dose.
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	24 hours
<b>External Website</b>	

## Malaria Parasites ID

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	500uL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Complete malaria reference laboratory form available from LSTM website.
<b>Postal Address</b>	Clinical Diagnostic-Parasitology Laboratory, Liverpool School of Tropical Medicine, Pembroke Place, Liverpool, L3 5QA.
<b>Contact Name</b>	Jayne Jones
<b>Contact Telephone Number</b>	0151 705 3220
<b>Contact Email Address</b>	<a href="mailto:diagpara@liverpool.ac.uk">diagpara@liverpool.ac.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

# Mercury

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA or Lithium Heparin)/Urine
<b>Sample Volume</b>	500uL (blood)/1mL (urine)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Provide urine creatinine result. (Cost £3.50 if measured at referral lab).
<b>Postal Address</b>	Trace Element Unit, Southampton General Hospital, Tremona Road, Southampton, SO16 6YD.
<b>Contact Name</b>	Christine Sieniawska
<b>Contact Telephone Number</b>	02387 206675
<b>Contact Email Address</b>	<a href="mailto:labresults@uhs.nhs.uk">labresults@uhs.nhs.uk</a> / <a href="mailto:UHS.dutybiochemist@uhs.nhs.uk">UHS.dutybiochemist@uhs.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Metadrenalines/ metanephrines (plasma)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Fasting sample preferred. Samples should ideally be collected and transported on ice, if possible, to aid sample stability. Sample should be separated and frozen within 1hr of collection.
<b>Postal Address</b>	Department of Biochemistry, Salford Royal Foundation Trust, Stott Lane, Salford, M6 8HD.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 206 8212
<b>Contact Email Address</b>	
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Metadrenalines/ metanephrines (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	24hr Urine (50mL 1.0M sulphuric acid preservative)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	UMETADRENALINES
<b>Other information required</b>	Samples with pH $\geq 6.5$ are unsuitable for analysis. Note 24hr urine volume in Meditech and on SAS form.
<b>Postal Address</b>	Department of Biochemistry, Salford Royal Foundation Trust, Stott Lane, Salford, M6 8HD.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 206 8212
<b>Contact Email Address</b>	
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Methylmalonic acid (MMA)/ methylmalonate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	MMA
<b>Other information required</b>	
<b>Postal Address</b>	Neurometabolic Unit, 6th Floor, Institute of Neurology, Queen Square House, Queen Square, London WC1N 3BG
<b>Contact Name</b>	Mr. Nana Ghansah
<b>Contact Telephone Number</b>	0203 44 83835/83818
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.neurometabolic@nhs.net">uclh.enquiry.neurometabolic@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

# Mexiletine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA, no gel)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	MEX
<b>Other information required</b>	
<b>Postal Address</b>	Cardiff Toxicology Laboratories, 4th Floor, Routledge Academic Centre, University Hospital Llandough, Penlan Road, Llandough, CF64 2XX.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	029 2071 6894
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## MRD (ALL, AML, CLL)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)/Bone Marrow/Lymph Node/Body Fluids
<b>Sample Volume</b>	3mL (blood), 5mL (bone marrow)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Paul Virgo, Dept. of Immunology and Immunogenetics, Pathology Science Building, Southmead Hospital, Bristol, BS10 5NB.
<b>Contact Name</b>	Paul Virgo
<b>Contact Telephone Number</b>	0177 414 8377
<b>Contact Email Address</b>	<a href="mailto:nbn-tr.nbtimmunology@nhs.net">nbn-tr.nbtimmunology@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 days
<b>External Website</b>	

## MRD Samples

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	ACD Bottle (Bone Marrow)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	<p>Samples taken Wenesday should be sent by first class post in blue royal mail boxes. Samples taken Thursday should be sent via special delivery.</p> <p>Trial form should be completed on patient notes on Meditech. If no form contact requestor.</p> <p>Sometimes in relapse cases, if child in R3 trial, then 3 MRD samples taken-snd one to Glasgow, one to Manchester and other Birmingham Children's. Check with consultant before sending.</p>
<b>Postal Address</b>	Sandra Chudleigh, Molecular Haematology, Haematology Department, Royal Hospital for Sick Children, Yorkhill, Glasgow, G3 8SJ.
<b>Contact Name</b>	Sandra Chudleigh
<b>Contact Telephone Number</b>	0141 201 9281
<b>Contact Email Address</b>	<a href="mailto:sandra.chudleigh@ggc.scot.nhs.uk">sandra.chudleigh@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	28 days
<b>External Website</b>	

## MRD Samples-Interfant

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	ACD Bottle (Bone Marrow)
<b>Sample Volume</b>	3-5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	For samples on children <1yr old who are entered in the ALL Trial see 'MRD samples' (send to Glasgow).
<b>Postal Address</b>	Gerry Hancock, Bristol MRD Group, Bristol Genetic Lab, Lewis Laboratories, Southmead Hospital, Bristol, BS10 5NB.
<b>Contact Name</b>	Gerry Hancock
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## Mucopolysaccharidoses (MPS) enzymes

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	State on SAS form which enzyme/condition is to be investigated. Sample must reach referral lab within 72hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Mycophenolate (MPA)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	200uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	MPA
<b>Other information required</b>	
<b>Postal Address</b>	Analytical Services International, St George's Hospital University of London, Cranmer Terrace, London, SW17 0RE.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0208 725 5345
<b>Contact Email Address</b>	<a href="mailto:laboratory@bioanalytics.co.uk">laboratory@bioanalytics.co.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Neurone Specific Enolase (NSE)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	NSE
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Neurotransmitters (monoamine metabolites, 5-methyltetrahydrofolate, pterins, PLP)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	CSF
<b>Sample Volume</b>	See protocol (special tubes required)
<b>Storage</b>	Sample must be placed in dry ice as soon as collected to stabilise for transport to the lab. Store frozen upon receipt in lab.
<b>Meditech Code</b>	CSFNEURO
<b>Other information required</b>	Neurotransmitter request form should be completed prior to collection. Form is available on website: <a href="http://www.uclh.nhs.uk">www.uclh.nhs.uk</a> Patient should ideally be off L-Dopa for monoamine metabolites.
<b>Postal Address</b>	Central Specimen Reception, Synnovis, Friars Bridge Court, 41-43 Blackfriars Road, London, SE1 8NZ
<b>Contact Name</b>	Mr. Nana Ghansah
<b>Contact Telephone Number</b>	0203 44 83835/83818
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.neurometabolic@nhs.net">uclh.enquiry.neurometabolic@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	30 working days
<b>External Website</b>	<a href="https://www.uclh.nhs.uk/application/files/2816/3102/6037/NMU-FORM-CSF_Neurotransmitter_Request_Form.pdf">https://www.uclh.nhs.uk/application/files/2816/3102/6037/NMU-FORM-CSF_Neurotransmitter_Request_Form.pdf</a>

## Neutrophil Oxidative Burst and Neutrophil Function

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Heparin
<b>Sample Volume</b>	5mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Must reach referral lab by 1pm.
<b>Postal Address</b>	Immunology Department, Clinical Sciences Centre, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0161 276 6440
<b>Contact Email Address</b>	<a href="mailto:andrew.moran@sfc.nhs.uk">andrew.moran@sfc.nhs.uk</a>
<b>Dispatch</b>	Transport will be allocated by Hotel Services
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Newborn Screening (NBS) CFTR genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	CFTR
<b>Other information required</b>	Sample sent by NBS.
<b>Postal Address</b>	Northwest Genomic Laboratory Hub, Manchester Centre for Geneomic Medicine, Liverpool Woman's Hospital, Crown Strret, Liverpool, L8 7SS.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	24 hours
<b>External Website</b>	

## Newborn Screening (NBS) extended MCADD genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	2 spots
<b>Storage</b>	Room temp
<b>Meditech Code</b>	MCADD XTDNA
<b>Other information required</b>	Sample sent by NBS. Bloodspot should be stabled to a photocopy of the NBS bloodspot card.
<b>Postal Address</b>	Sheffield Diagnostic Genetics Service, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Rachel Hetherington
<b>Contact Telephone Number</b>	0114 271 7021
<b>Contact Email Address</b>	<a href="mailto:rachel.hetherington@nhs.net">rachel.hetherington@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Newborn Screening (NBS) GA1 genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	Sample sent by NBS. Sample sent to Liverpool for DNA extraction only. Analysis performed by Sheffield Genetics Lab.
<b>Postal Address</b>	Northwest Genomic Laboratory Hub, Manchester Centre for Geneomic Medicine, Liverpool Woman's Hospital, Crown Strret, Liverpool, L8 7SS.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Newborn Screening (NBS) haemoglobinopathy genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	2 spots
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	Sample sent by NBS. Bloodspot should be stabled to a photocopy of the NBS bloodspot card.
<b>Postal Address</b>	Sheffield Diagnostic Genetics Service, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Nikolas Niksic
<b>Contact Telephone Number</b>	0114 305 3641
<b>Contact Email Address</b>	<a href="mailto:nikolas.niksic@nhs.net">nikolas.niksic@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	14 working days
<b>External Website</b>	

## Newborn Screening (NBS) IVA genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	Sample sent by NBS. Sample sent to Liverpool for DNA extraction only. Analysis performed by Sheffield Genetics Lab.
<b>Postal Address</b>	Northwest Genomic Laboratory Hub, Manchester Centre for Geneomic Medicine, Liverpool Woman's Hospital, Crown Strret, Liverpool, L8 7SS.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Newborn Screening (NBS) MCADD genetics

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot
<b>Sample Volume</b>	
<b>Storage</b>	Room temp
<b>Meditech Code</b>	MCADD GENE
<b>Other information required</b>	Sample sent by NBS.
<b>Postal Address</b>	Northwest Genomic Laboratory Hub, Manchester Centre for Geneomic Medicine, Liverpool Woman's Hospital, Crown Strret, Liverpool, L8 7SS.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0151 702 4228
<b>Contact Email Address</b>	<a href="mailto:dna.liverpool@nhs.net">dna.liverpool@nhs.net</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	24 hours
<b>External Website</b>	

## Nitisionone (NTBC) with Succinylacetone

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Dried Bloodspot or plasma (Lithium Heparin)
<b>Sample Volume</b>	2 x 10mm bloodspots, 200ul plasma
<b>Storage</b>	Store dried bloodspots at room temperature / store plasma frozen
<b>Meditech Code</b>	NTBC
<b>Other information required</b>	
<b>Postal Address</b>	Blood Sciences, Clinical Biochemistry, Birmingham Children's Hospital, Steelhouse Lane, B4 6DH.
<b>Contact Name</b>	Chris Stockdale / Adam Gerrard
<b>Contact Telephone Number</b>	0121 333 9942
<b>Contact Email Address</b>	<a href="mailto:bwc.imdlab@nhs.net">bwc.imdlab@nhs.net</a>
<b>Dispatch</b>	First class post (dried bloodspots) Courier for plasma (send frozen)
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	

## Nitroblue Tetrazolium (NBT)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (Lithium Heparin)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Room Temperature
<b>Meditech Code</b>	
<b>Other information required</b>	Must reach referral lab within 24hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Immunology Department, Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Mo Moody
<b>Contact Telephone Number</b>	029 2074 8350
<b>Contact Email Address</b>	<a href="mailto:mo.moody@wales.nhs.uk">mo.moody@wales.nhs.uk</a>
<b>Dispatch</b>	Courier
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	

## Oligoclonal bands

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	CSF and Serum
<b>Sample Volume</b>	50uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	OLIGO
<b>Other information required</b>	Serum/plasma should ideally be taken $\leq 24$ hours of LP to ensure accurate picture of IgG within each compartments. However, samples taken within 2 weeks of each other are acceptable. Paired samples taken outside of this time limit have limited clinical significance.
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm">https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm</a>

# Oligosaccharides

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	3mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## 3-O-Methyldopa (3-OMD)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Dried blood spot
<b>Sample Volume</b>	4 blood spots
<b>Storage</b>	Room temp
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Neurometabolic Unit, 6th Floor, Institute of Neurology, Queen Square House, Queen Square, London WC1N 3BG
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0203 44 83835/83818
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.neurometabolic@nhs.net">uclh.enquiry.neurometabolic@nhs.net</a>
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## Orexin (hypocretin)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	CSF
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Bloodstained CSF samples are acceptable.
<b>Postal Address</b>	Immunology Department, Churchill Hospital, Churchill Drive, Old Road, Headington, Oxford, OX3 7LE.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	01865 225995
<b>Contact Email Address</b>	<a href="mailto:Immunologylab.enquiries@ouh.nhs.uk">Immunologylab.enquiries@ouh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	42 working days
<b>External Website</b>	

## Organic acids (Post Mortem)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine/Bladder wash
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	OA PM
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## Orotic acid

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr)
<b>Sample Volume</b>	10mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	OROTIC
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume.
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

## OTOBLOT or hsp70 or KD68

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Test for protein linked to deafness.
<b>Postal Address</b>	Danielle Mack, Cambridge Life Science Plc, 14 St Thomas Place, Cambridge Business Park, Elys Cambs, CB7 4EX.
<b>Contact Name</b>	Danielle Mack
<b>Contact Telephone Number</b>	01353 645207
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

## Oxalate (plasma)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Sample must be separated and frozen within 2hrs of collection.
<b>Postal Address</b>	Clinical Biochemistry, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Robin Pryke
<b>Contact Telephone Number</b>	0203 447 9405
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.biochemhelpdesk@nhs.net">uclh.enquiry.biochemhelpdesk@nhs.net</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Oxalate (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr) (acidified pH 2.5-5)
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	UOXALATER/ UOXALATE24
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume. 24 hr samples received in plain urine containers must be acidified within 24 hrs of receipt
<b>Postal Address</b>	Clinical Biochemistry, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Robin Pryke
<b>Contact Telephone Number</b>	0203 447 9405
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.biochemhelpdesk@nhs.net">uclh.enquiry.biochemhelpdesk@nhs.net</a>
<b>Dispatch</b>	
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

# Oxysterols

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	NIE
<b>Other information required</b>	
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	Transport frozen
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Phosphoethanolamine (PEA)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	21 days
<b>External Website</b>	

## Pipecholic acid

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma/CSF/Urine
<b>Sample Volume</b>	500uL (serum/plasma)/500uL (CSF)/5mL (urine)
<b>Storage</b>	Frozen
<b>Meditech Code</b>	PIPA/ PIPACSF/ UIPA
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Phenytoin (free)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (Lithium heparin plasma also acceptable)
<b>Sample Volume</b>	100uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Neuroimmunology, The Walton Centre NHS Foundation Trust, Lower Lane, Fazakerley, Liverpool, L9 7LJ
<b>Contact Name</b>	Mr. Edward Jackson
<b>Contact Telephone Number</b>	0151 556 3262
<b>Contact Email Address</b>	<a href="mailto:wcf-tr.neurobiochemistry@nhs.net">wcf-tr.neurobiochemistry@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm">https://www.thewaltoncentre.nhs.uk/neuroscience-laboratories.htm</a>

## Plasma Palmitoyl Phosphocholinesterase (PPCS)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA) / Separated plasma (if transport likely to be delayed by >2 days)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Room temperature
<b>Meditech Code</b>	
<b>Other information required</b>	No obvious interference from haemolysis, lipaemia or icterus
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	James Cooper
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:james.cooper@mft.nhs.uk">james.cooper@mft.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Plasmalogens

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	PLASMALOGENS
<b>Other information required</b>	Sample must reach referral lab within 24hrs of collection. Ideally samples should be collected Mon-Wed only.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## Platelet Nucleotides

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (Citrated)
<b>Sample Volume</b>	10mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Inform St James Hospital. Sample must arrive at referral lab within 2hrs of collection. (Liaise with HTC, referral lab and courier).
<b>Postal Address</b>	Specialist Haemostais Lab, Pathology Dept. Block 32, Chancellors Wing, St. James University Hospital, Beckett Street, Leeds, LS9 7TF.
<b>Contact Name</b>	Gillian Stevens
<b>Contact Telephone Number</b>	0113 206 5620
<b>Contact Email Address</b>	<a href="mailto:gillian.stevens@leedsth.nhs.uk">gillian.stevens@leedsth.nhs.uk</a>
<b>Dispatch</b>	Courier
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	

## PLP / PA Ratio

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	600ul
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	Testing is indicated for investigation of hypophosphatasia Sample should be protected from light from time of collection (direct sunlight is of concern - samples exposed to ambient light should still be sent for analysis).
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## Polyol Analysis (Ribose-5-phosphate isomerase deficiency)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	2-5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Department of Clinical Chemistry, Metabolic Unit PK-1-X-00G, VU University Medical Centre, DE Boeleaan 1117, 1081 HV Amsterdam, The Netherlands.
<b>Contact Name</b>	Cornelis Jakobs
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	Frozen
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="https://www.amsterdamumc.nl/en/care/polyols_and_sugars.htm">https://www.amsterdamumc.nl/en/care/polyols_and_sugars.htm</a>

## Porphobilinogen (PBG)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	3mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	PBG
<b>Other information required</b>	Sample should be taken at the time of an acute attack. Sample must be protected from light. It is important to include all available clinical details on the request form.
<b>Postal Address</b>	Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Jackie Woolf
<b>Contact Telephone Number</b>	029 2184 3565
<b>Contact Email Address</b>	<a href="mailto:CAV_porphyria@wales.nhs.uk">CAV_porphyria@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Porphyrin screen (faeces)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Faeces
<b>Sample Volume</b>	5g
<b>Storage</b>	Frozen
<b>Meditech Code</b>	FPORPH
<b>Other information required</b>	Sample must be protected from light. It is important to include all available clinical details on the request form.
<b>Postal Address</b>	Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Jackie Woolf
<b>Contact Telephone Number</b>	029 2184 3565
<b>Contact Email Address</b>	<a href="mailto:CAV_porphyria@wales.nhs.uk">CAV_porphyria@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	

## Porphyrin screen (plasma)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	PORPHBLOOD
<b>Other information required</b>	Sample must be protected from light. It is important to include all available clinical details on the request form.
<b>Postal Address</b>	Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Jackie Woolf
<b>Contact Telephone Number</b>	029 2184 3565
<b>Contact Email Address</b>	<a href="mailto:CAV_porphyria@wales.nhs.uk">CAV_porphyria@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Porphyrin screen (red cell)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	PORPHBLOOD
<b>Other information required</b>	Sample must be protected from light. It is important to include all available clinical details on the request form.
<b>Postal Address</b>	Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Jackie Woolf
<b>Contact Telephone Number</b>	029 2184 3565
<b>Contact Email Address</b>	<a href="mailto:CAV_porphyria@wales.nhs.uk">CAV_porphyria@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	

## Porphyrin screen (urine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	2mL (Ideally taken at time of acute attack)
<b>Storage</b>	Frozen
<b>Meditech Code</b>	UPORPHYRINS
<b>Other information required</b>	Sample must be protected from light. It is important to include all available clinical details on the request form.
<b>Postal Address</b>	Department of Medical Biochemistry and Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW
<b>Contact Name</b>	Jackie Woolf
<b>Contact Telephone Number</b>	029 2184 3565
<b>Contact Email Address</b>	<a href="mailto:CAV_porphyria@wales.nhs.uk">CAV_porphyria@wales.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	15 working days
<b>External Website</b>	

## Pre-albumin (transthyretin)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Procalcitonin (PCT)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged, but must be frozen if not sent within 24 hours of collection.
<b>Meditech Code</b>	PCT
<b>Other information required</b>	Must analyse within 2 days if collection, unless frozen. Stable for 24 hrs at room temperature, and upto 2 days at 4oC. Add-ons not advised due to short stability. Refer to Biochemsit if unsure.
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Lisa Bailey
<b>Contact Telephone Number</b>	0151 706 4230
<b>Contact Email Address</b>	<a href="mailto:lisa.bailey@rlbuht.nhs.uk">lisa.bailey@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	24 hours
<b>External Website</b>	

# Progesterone

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	PROG
<b>Other information required</b>	To assess ovulation, samples should be taken on day 21 of 28 day cycle (or 7 days before start of period).
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

## Prothrombin Gene Mutation (PGM)

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	EDTA
<b>Sample Volume</b>	2mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Coagulation Department, Haematology, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Mariam Waite
<b>Contact Telephone Number</b>	0151 706 4967
<b>Contact Email Address</b>	<a href="mailto:mariam.waite@rlubt.nhs.uk">mariam.waite@rlubt.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Purine and Pyrimidine screen

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	PURINE
<b>Other information required</b>	
<b>Postal Address</b>	Biochemical Sciences, 1st Floor, Synnovis Friars Bridge Court 41-43 Blackfriars Road London SE1 8NZ
<b>Contact Name</b>	Rachel Carling
<b>Contact Telephone Number</b>	0207 188 1266
<b>Contact Email Address</b>	<a href="mailto:rachel.carling@viapath.co.uk">rachel.carling@viapath.co.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	21 working days
<b>External Website</b>	

## Pyridinoline/Deoxypyridinoline cross links (DPD/PYD)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	10mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	DPYPYRRATIO
<b>Other information required</b>	Sample must be protected from light.
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	8 weeks
<b>External Website</b>	

## Pyrophosphate (PPI)

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	Li Hep blood
<b>Sample Volume</b>	10mL
<b>Storage</b>	Blood must be centrifuged using a Centristart 300,000 kD mass cut off filter (Sartorius), available from referral laboratory.
<b>Meditech Code</b>	MISC
<b>Other information required</b>	For diagnosis of GACI (Generalised Arterial Calcification of Infancy)
<b>Postal Address</b>	Klinik fuer Knider - und Jugendmedizin, Allgemeine Paediatric, Universitaetsklinikum Muenster, Albert-Schweitzer-Campus 1, Gbde, A1, D-48149 Muenster, Germany
<b>Contact Name</b>	Prof Frank Rutsch
<b>Contact Telephone Number</b>	+49 (0)251 83 40013
<b>Contact Email Address</b>	<a href="mailto:frank.rutsch@ukmuesnster.de">frank.rutsch@ukmuesnster.de</a> , <a href="mailto:yvonne.nitschke@ukmuenster.de">yvonne.nitschke@ukmuenster.de</a>
<b>Dispatch</b>	Frozen on dry ice
<b>Turnaround Time</b>	
<b>External Website</b>	

## Pyruvate/lactate ratio

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Lith Hep Whole Blood (special tube required - ask metabolic BMS)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Freeze immediately after preparation
<b>Meditech Code</b>	MISC
<b>Other information required</b>	Requires 1ml of blood sample adding to special 10ml tube containing 5ml 0.46 mol/L perchloric acid within 10 minutes of sample collection. Tubes prepared by Metabolic (LS). Immediately after collection, thoroughly mix +placed on an ice pack before centrifugation. The sample is spun 5 min 3K rpm at 4oC. The supernatant is separated and kept in the freezer until analysis and analysed within 2 weeks of collection.
<b>Postal Address</b>	Chemical Pathology, Camilia Botnar Laboratories, Great Ormond Street Hospital for Children, Great Ormond Street, London, WC1N 3JH
<b>Contact Name</b>	Helen Aitkenhead
<b>Contact Telephone Number</b>	020 7405 9200, x5009 or bleep 0589
<b>Contact Email Address</b>	<a href="mailto:helen.aitkenhead@gosh.nhs.uk">helen.aitkenhead@gosh.nhs.uk</a>
<b>Dispatch</b>	Courier on dry ice
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="http://www.labs.gosh.nhs.uk/">http://www.labs.gosh.nhs.uk/</a>

## R3 MRD by Flow Cytometry

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	ACD (Bone Marrow)
<b>Sample Volume</b>	3-5mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Contact referral lab to inform them sample is being sent. Research investigation (ALL2003/R3 Leukaemia)-results not reported back to lab. If samples arrive over weekend contact referral lab regarding transport.
<b>Postal Address</b>	Jenny Jesson/Sue Jones, Haematology Department, Medical Laboratory Block, Birmingham Children's Hospital, Whittall Street, Birmingham, B4 6NH
<b>Contact Name</b>	Jenny Jesson/Sue Jones
<b>Contact Telephone Number</b>	0121 333 9865/9868
<b>Contact Email Address</b>	<a href="mailto:jennifer.jesson@bch.nhs.uk">jennifer.jesson@bch.nhs.uk</a> / <a href="mailto:s.jones@bch.nhs.uk">s.jones@bch.nhs.uk</a>
<b>Dispatch</b>	Use pre-paid blue royal mail boxes. First class post.
<b>Turnaround Time</b>	
<b>External Website</b>	

## R3 MRD Samples CIGMR

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	ACD (Bone Marrow)
<b>Sample Volume</b>	5mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Please notify the trial manager when sending samples.
<b>Postal Address</b>	Genevive Pridden/Catriona Parker, CIGMR, Stopford Building, Oxford Road, Manchester, M13 9PT.
<b>Contact Name</b>	Genevive Pridden
<b>Contact Telephone Number</b>	0161 275 1622
<b>Contact Email Address</b>	<a href="mailto:catriona.parker@cancer.org.uk">catriona.parker@cancer.org.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	48 hours
<b>External Website</b>	

## Renal stones (calculi)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Stone
<b>Sample Volume</b>	10mg
<b>Storage</b>	Fridged
<b>Meditech Code</b>	STONE
<b>Other information required</b>	
<b>Postal Address</b>	Clinical Biochemistry, 60 Whitfield Street, London, W1T 4EU.
<b>Contact Name</b>	Krithika Subramaniam
<b>Contact Telephone Number</b>	0203 447 9405
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.biochemhelpdesk@nhs.net">uclh.enquiry.biochemhelpdesk@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	

# Renin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	RENIN
<b>Other information required</b>	
<b>Postal Address</b>	Specialist Biochemistry, Level C, Lab and Path Block, Southampton General Hospital, Tremona Road, Southampton, SO16 6YD
<b>Contact Name</b>	Robert Stevens
<b>Contact Telephone Number</b>	02381 206434
<b>Contact Email Address</b>	<a href="mailto:labresults@uhs.nhs.uk">labresults@uhs.nhs.uk</a> / <a href="mailto:UHS.dutybiochemist@uhs.nhs.uk">UHS.dutybiochemist@uhs.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	

## Retinol binding protein (RBP)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Urine
<b>Sample Volume</b>	2mL (serum)/5mL (urine)
<b>Storage</b>	Fridged
<b>Meditech Code</b>	RBPU
<b>Other information required</b>	
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	10 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Selenium (red cell)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Red Cells (Serum/Lithium Heparin/Trace Metal Tube)
<b>Sample Volume</b>	100uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	RCSE
<b>Other information required</b>	Plasma selenium is the first line test (measured in-house). All samples with plasma selenium below the lower limit of the reference range should be reflexed for measurement of red blood cell selenium.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	<a href="https://www.trace-elements.co.uk">https://www.trace-elements.co.uk</a>

## Serum Protein Electrophoresis

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	ELECT
<b>Other information required</b>	Transport samples at ambient temperature
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	3 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Sex Hormone Binding Globulin (SHBG)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin)
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	SHBG
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:Yvonne.Stewart@ggc.scot.nhs.uk">Yvonne.Stewart@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	

# Sirolimus

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	SIROLIMUS
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Biochemistry, Clinical Sciences Building, Wythenshawe Hospital, Manchester University NHS Foundation Trust, Southmoor Road, Wythenshawe, Manchester M23 9LT.
<b>Contact Name</b>	Duty Biochemist
<b>Contact Telephone Number</b>	0161 291 2136
<b>Contact Email Address</b>	<a href="mailto:mft.biochemistry.wythenshawe@nhs.net">mft.biochemistry.wythenshawe@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 working day
<b>External Website</b>	

## Steroid profile

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr)
<b>Sample Volume</b>	20mL (10mls minimum ideally). All samples collected will be analysed regardless of volume.
<b>Storage</b>	Fridged
<b>Meditech Code</b>	USTERIODS/ USTERIODS24
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume. It is preferable to collect samples prior to correction of any electrolyte abnormality.
<b>Postal Address</b>	Central Specimen Reception Synnovis Friars Bridge Court 41-43 Blackfriars Road London SE1 8NZ
<b>Contact Name</b>	Dr David Taylor
<b>Contact Telephone Number</b>	0203 299 4131
<b>Contact Email Address</b>	<a href="mailto:kch-tr.steroidlaboratory@nhs.net">kch-tr.steroidlaboratory@nhs.net</a>
<b>Dispatch</b>	First class post within 4 days of sample collection
<b>Turnaround Time</b>	3 weeks Urgent results can usually be given over the phone within 3 working days.
<b>External Website</b>	

# Sulphocysteine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine
<b>Sample Volume</b>	1mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	SULPHOCYS
<b>Other information required</b>	
<b>Postal Address</b>	Central Specimen Reception Synnovis Friars Bridge Court 41-43 Blackfriars Road London SE1 8NZ
<b>Contact Name</b>	Mariam Abbasi
<b>Contact Telephone Number</b>	0207 188 1266
<b>Contact Email Address</b>	<a href="mailto:mariam.abbasi@viapath.co.uk">mariam.abbasi@viapath.co.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	21 working days
<b>External Website</b>	

## Sulphonylureas

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	500uL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	SAS Peptide Hormones Section, Clinical Laboratory, Royal Surrey County Hospital, Egerton Road, Guildford, Surrey, GU2 7XX.
<b>Contact Name</b>	Gwen Wark
<b>Contact Telephone Number</b>	01483 406 715
<b>Contact Email Address</b>	<a href="mailto:gwen.wark@nhs.net">gwen.wark@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 - 8 weeks
<b>External Website</b>	<a href="https://www.sas-centre.org/centres/hormones/guildford">https://www.sas-centre.org/centres/hormones/guildford</a>

## Surfactant Genotype

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)/Other e.g. buccal swab
<b>Sample Volume</b>	5mL (blood)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	DNA Specimen Reception, Level 6, York House, Great Ormond Street Hospital, 37 Queen Square, London, WC1N 3BH.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7762 6888
<b>Contact Email Address</b>	
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	
<b>External Website</b>	

## TFT Interference Studies / Total T3 & T4 (mass spec)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	1ml
<b>Storage</b>	Fridged
<b>Meditech Code</b>	
<b>Other information required</b>	Interference testing includes FT4 by AutoDELFIA, TBG, TSH, FT3, Total T4 and FT4 by Siemens Atellica, diltuoin & PEG studies
<b>Postal Address</b>	REFTFT Service, Department of Clinical Biochemistry, Box 232, Addenbrooke's Hospital, Hills Road, Cambridge, CB2 0QQ
<b>Contact Name</b>	Susan Oddy David Halsall
<b>Contact Telephone Number</b>	01223 517157 / 256656
<b>Contact Email Address</b>	<a href="mailto:susan.oddy@nhs.net">susan.oddy@nhs.net</a> <a href="mailto:david.haslsall@nhs.net">david.haslsall@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4-6 weeks
<b>External Website</b>	

# Teicoplanin

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (Lithium heparin plasma also acceptable)
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TEICO
<b>Other information required</b>	Samples to be processed upon collection and pass to BMS staff for sending with next courier transport
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Lisa Bailey
<b>Contact Telephone Number</b>	0151 706 4230
<b>Contact Email Address</b>	<a href="mailto:lisa.bailey@rlbuht.nhs.uk">lisa.bailey@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	24 hours
<b>External Website</b>	

## Telomere length by flow-FISH

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5-10mL
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	<p>Inform Repeat Diagnostics by email at <a href="mailto:request@repeatdx.com">request@repeatdx.com</a> of date shipped                      It is very important to collect and ship the blood specimen in the morning and only from Monday to Wednesday                      Fill in Repeat Diagnostics Requisition Form available @ <a href="http://www.repeatdx.com/order-telomere-test/">http://www.repeatdx.com/order-telomere-test/</a></p>
<b>Postal Address</b>	<p>Telomerdiagnostik, Hamatologisches Labor                      Klinik fur, Hamatologis, Onkologie,                      Hamostaseologie und                      Stammzelltransplantation, Pauwelsstrasse 30,                      52074 Aachen</p>
<b>Contact Name</b>	Frau Lucia Vankann
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	Send immediately (within 2 days)
<b>Turnaround Time</b>	
<b>External Website</b>	

## Testosterone (mass spec)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	250uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TESTOMS
<b>Other information required</b>	
<b>Postal Address</b>	Clinical Biochemistry, 4th Floor Pathology and Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES.
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	020 7377 7000 - bleep 1611 07821 666732
<b>Contact Email Address</b>	<a href="mailto:bhnt.clinbiochemadvice-barts@nhs.net">bhnt.clinbiochemadvice-barts@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479">https://www.eselpathology.nhs.uk/download.cfm?doc=docm93jjjm4n5479</a>

## Thiopental

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (Lithium heparin plasma also acceptable)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	THIO
<b>Other information required</b>	<p>Sample should be separated immediately upon collection and frozen.</p> <p>Analysis is only available Monday - Friday following prior communication with Paediatric Duty Biochemist at MRI. Samples received by midday will be reported by end of that day. Any samples collected on a Friday or over the weekend should be separated, fro</p> <p>Must note if patient is taking carbamazepine. This test is not suitable for therapeutic drug monitoring but can be used for determining drug levels for end of life or in patients once drug has been withdrawn.</p>
<b>Postal Address</b>	Central Specimen Reception, c/o Clinical Biochemistry, Clinical Sciences Building 3, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Paediatric Duty Biochemist / Chris Reeves
<b>Contact Telephone Number</b>	0161 701 2255
<b>Contact Email Address</b>	<a href="mailto:duty.paedbiochemist@mft.nhs.uk">duty.paedbiochemist@mft.nhs.uk</a>
<b>Dispatch</b>	Send frozen
<b>Turnaround Time</b>	24 hours (Mon-Fri)
<b>External Website</b>	<a href="https://mft.nhs.uk/app/uploads/2020/01/Thiopental-serum.pdf">https://mft.nhs.uk/app/uploads/2020/01/Thiopental-serum.pdf</a>

## Thiopurine metabolites (6-TGN/6-MMPN)/ AZA metabolites

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	2ml
<b>Storage</b>	Fridged (do not freeze)
<b>Meditech Code</b>	AZA
<b>Other information required</b>	Sample must reach referral laboratory within 10 days of collection.
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 5025
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	First class post (recorded if close to 10 day cutoff)
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="http://www.cityassays.org.uk/6-TGN.html">http://www.cityassays.org.uk/6-TGN.html</a>

## Thrombophilia Screen-includes PROTEIN C, AND S, ATIII,APCR,APCRV, FVL, PGM

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Plasma (Citrated) (If FVL and PGM required need EDTA also)
<b>Sample Volume</b>	2mL (3x1.3mL coag samples)
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	Sample should be separated immediately upon collection and frozen. FVL.PGM samples send daily. Thrombophilia screen samples send weekly (store in H1 freezer).
<b>Postal Address</b>	Coagulation Department, Haematology, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Mariam Waite
<b>Contact Telephone Number</b>	0151 706 4967
<b>Contact Email Address</b>	<a href="mailto:mariam.waite@rlubt.nhs.uk">mariam.waite@rlubt.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	
<b>External Website</b>	

## Thyroglobulin (Tg)

**NB. This is not the same as anti- thyroglobulin antibodies**

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	THYROGLOBULIN
<b>Other information required</b>	Some samples will need to be sent to Birmingham Queen Elizabeth. Check with DB prior to sending.
<b>Postal Address</b>	PRU and Immunology Dept, Laboratory Medicine Building, North Lane, Northern General Hospital, Herries Road, Sheffield, S5 7AU.
<b>Contact Name</b>	Mr. Kevin Green
<b>Contact Telephone Number</b>	0114 271 5552
<b>Contact Email Address</b>	<a href="mailto:sht-tr.enquiriesPRUsheffield@nhs.net">sht-tr.enquiriesPRUsheffield@nhs.net</a>
<b>Dispatch</b>	DX Address: Protein Reference Unit, PO Box 894, Sheffield, S5 7YT. DX Number: 6261402
<b>Turnaround Time</b>	2 working days
<b>External Website</b>	<a href="https://pru-sheffield.org.uk/">https://pru-sheffield.org.uk/</a>

## Toxicology screen

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine preferred (Serum/plasma (Lithium Heparin) samples are also acceptable).
<b>Sample Volume</b>	5mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TOXICBSCREEN/ TOXICFLSCREEN/ TOXICUSCREEN
<b>Other information required</b>	No weekend/OOH service is available for urgent Tox requests. Samples received after 4pm will be despatched next working day. Please advise of urgent requests. All OOH requests MUST be discussed by the requesting consultant with the on-call toxicology Cons
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 4138
<b>Contact Email Address</b>	<a href="mailto:swbh.toxicology@nhs.net">swbh.toxicology@nhs.net</a>
<b>Dispatch</b>	First class Recorded (not on Fridays as post room is shut over WE).
<b>Turnaround Time</b>	1 working day
<b>External Website</b>	<a href="http://www.cityassays.org.uk/Urine%20Drugs%20of%20Abuse.html">http://www.cityassays.org.uk/Urine%20Drugs%20of%20Abuse.html</a>

# TPMT

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	2mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TPMT
<b>Other information required</b>	<p>Sample must reach referral laboratory within 14 days of collection.</p> <p>Samples from patients who have received a recent blood transfusion can give misleading results. Provide details of recent transfusions (within 90 days).</p> <p>TPMT genotyping is reflexed for all results &lt;35 mU/L. If a TPMT genotype is required regardless of TPMT activity state TPMT genotype on request form.</p>
<b>Postal Address</b>	Postal Reception, Sandwell General Hospital, Lyndon, West Bromwich, B71 4HJ
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	0121 507 5025
<b>Contact Email Address</b>	<a href="mailto:BCPSpathology.info@nhs.net">BCPSpathology.info@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	1 working day
<b>External Website</b>	

## Transferrin (TRF) Glycoforms (aka transferrin isoelectric focusing)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	100uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	GLYCOFORM
<b>Other information required</b>	<p>Plasma samples are also suitable for analysis if not EDTA plasma. Haemolysed samples are unsuitable.</p> <p>Test may be unreliable in neonates younger than three weeks due to the presence of maternal transferrin.</p> <p>Recent transfusion may invalidate the result - do not accept samples &lt;3 weeks post transfusion.</p>
<b>Postal Address</b>	Neuroimmunology and CSF Laboratory, Institute of Neurology (NHNN) Box 76, Queen Square, London, WC1N 3BG.
<b>Contact Name</b>	Dr. Melanie Hart
<b>Contact Telephone Number</b>	020 3448 3812
<b>Contact Email Address</b>	<a href="mailto:uclh.enquiry.nhnn-nicl@nhs.net">uclh.enquiry.nhnn-nicl@nhs.net</a>
<b>Dispatch</b>	Send recorded
<b>Turnaround Time</b>	9 working days
<b>External Website</b>	

# Trimethylamine

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Urine (random/24hr)
<b>Sample Volume</b>	10mL
<b>Storage</b>	Acidify to pH2 with HCl. Store frozen
<b>Meditech Code</b>	UTMA
<b>Other information required</b>	Note whether random or 24hr urine collection on Meditech and SAS form. If 24hr urine, also note urine volume.
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	8 weeks
<b>External Website</b>	

## Tryptase (Mast Cell Tryptase)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum
<b>Sample Volume</b>	3mL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	TRYPTASE
<b>Other information required</b>	
<b>Postal Address</b>	Clinical Immunology, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Ian Robinson
<b>Contact Telephone Number</b>	0151 706 4350
<b>Contact Email Address</b>	<a href="mailto:Trevor.Robinson@rlbuht.nhs.uk">Trevor.Robinson@rlbuht.nhs.uk</a>
<b>Dispatch</b>	First class post/Local Transport
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Tumour markers (CA125, CA19-9, CA153, CEA, PSA)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	300uL
<b>Storage</b>	Fridged
<b>Meditech Code</b>	CA125/ CA19-9/ CA15-3/ CEA/ PSA
<b>Other information required</b>	
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4755
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	7 working days
<b>External Website</b>	

## Type-1 procollagen peptide (P1NP)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	P1NP
<b>Other information required</b>	
<b>Postal Address</b>	Eastern Pathology Alliance, Laboratory Medicine East Block, Level 1, Norfolk and Norwich University NHS Foundation Trust, Colney Lane, Norwich, NR4 7UY.
<b>Contact Name</b>	Dr. Allison Chipchase
<b>Contact Telephone Number</b>	01603 289419 Duty biochemist: 01603 646685
<b>Contact Email Address</b>	<a href="mailto:SAASBoneMetabolism@nnuh.nhs.uk">SAASBoneMetabolism@nnuh.nhs.uk</a> <a href="mailto:nnuh.labmedresults@nnuh.nhs.uk">nnuh.labmedresults@nnuh.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	2 weeks
<b>External Website</b>	

# Valproate

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum (preferred)/Plasma
<b>Sample Volume</b>	500uL
<b>Storage</b>	Stable for 2 days at RT, 7 days at 2-8C or 3 months at -20C
<b>Meditech Code</b>	VALP
<b>Other information required</b>	Samples to be processed upon collection and pass to BMS staff for sending with next courier transport
<b>Postal Address</b>	Dept of Clinical Biochemistry, LCL Clinical Support Services Building, Mount Vernon Street, Liverpool, L7 8YE
<b>Contact Name</b>	Anna Milan
<b>Contact Telephone Number</b>	0151 706 4011
<b>Contact Email Address</b>	<a href="mailto:anna.milan@rlbuht.nhs.uk">anna.milan@rlbuht.nhs.uk</a>
<b>Dispatch</b>	Local Transport
<b>Turnaround Time</b>	<72 hrs
<b>External Website</b>	

## Very Long Chain Fatty Acids (VLCFA) including Phytanic and Pristanic Acid

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Serum/Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	500uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	VLCFA
<b>Other information required</b>	
<b>Postal Address</b>	Dept. of Clinical Chemistry and Newborn Screening, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield, S10 2TH.
<b>Contact Name</b>	Claire Hart
<b>Contact Telephone Number</b>	0114 271 7307
<b>Contact Email Address</b>	<a href="mailto:scn-tr.metabolic.sch@nhs.net">scn-tr.metabolic.sch@nhs.net</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 weeks
<b>External Website</b>	

## Vitamin B1 (Thiamine)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (Lithium Heparin/EDTA)
<b>Sample Volume</b>	350uL
<b>Storage</b>	Fridged but freeze if not sent immediately). Ask Biochemsitry BMS.
<b>Meditech Code</b>	VITB1
<b>Other information required</b>	In TPN Patients, a fasting sample or sample collected 8 hours after last feed. Sample should reach referral lab within 72hrs of collection. If not possible, store whole blood frozen until sending and then send by first class post (ice or dry ice not required).
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-b1.asp">https://www.trace-elements.co.uk/vitamin-b1.asp</a>

## Vitamin B2

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (Lithium Heparin/EDTA) (PROTECT FROM LIGHT)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged (freeze packed red cells if not sent immediately). Ask Biochemistry BMS.
<b>Meditech Code</b>	
<b>Other information required</b>	Sample should reach referral lab within 72hrs of collection. If not possible, prepare red cells (minimum volume 300 µL) by removing and discarding plasma and buffy layer (mark clearly on tube that they are red cells) and store frozen until sending and then Samples should be protected from light.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-b2.asp">https://www.trace-elements.co.uk/vitamin-b2.asp</a>

## Vitamin B6

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (Lithium Heparin/EDTA) (PROTECT FROM LIGHT)
<b>Sample Volume</b>	1mL
<b>Storage</b>	Fridged (freeze packed red cells if not sent immediately). Ask Biochemistry BMS.
<b>Meditech Code</b>	VITB6
<b>Other information required</b>	Sample should reach referral lab within 72hrs of collection. If not possible, prepare red cells (minimum volume 300 µL) by removing and discarding plasma and buffy layer (mark clearly on tube that they are red cells) and store frozen until sending and then Samples should be protected from light.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-b6.asp">https://www.trace-elements.co.uk/vitamin-b6.asp</a>

## Vitamin B6 (PLP) (plasma)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	600uL
<b>Storage</b>	Protect from light.+ fridged (store frozen packed cells if not sent imediately - Ask BMS senior).
<b>Meditech Code</b>	VITB6
<b>Other information required</b>	Used in the investigation of hypophosphataesia. Sample should reach referral lab within 72hrs of collection. If not possible, prepare red cells (minimum volume 300 µL) by removing and discarding plasma and buffy layer (mark clearly on tube that they are red cells) and store frozen until sending and th Samples should be protected from light.
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	5 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-b6.asp">https://www.trace-elements.co.uk/vitamin-b6.asp</a>

## Vitamin C

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	250uL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	VITC
<b>Other information required</b>	<p>Specimen reception staff to centrifuge and separate sample then pass to BMS staff for acidification.</p> <p>Stabilise plasma by adding equal volumes of plasma and 6% metaphosphoric acid (Metabolic fridge, B3). Mix for 30secs and freeze in the -80 degrees C freezer (samples have limited stability at -20 degrees C). Rejected samples must be stored at -80 degrees C pending subsequent analysis. Acidified samples are stable at -80 for 3 months.</p>
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	John Wadsworth
<b>Contact Telephone Number</b>	0141 242 9560
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	4 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-c.asp">https://www.trace-elements.co.uk/vitamin-c.asp</a>

## Vitamin K

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Plasma (Lithium Heparin/EDTA)
<b>Sample Volume</b>	500ul
<b>Storage</b>	Protect from light
<b>Meditech Code</b>	
<b>Other information required</b>	Sample should reach referral lab within 72hrs of collection. If not possible, store plasma frozen until sending and then send by first class post (ice or dry ice not required).
<b>Postal Address</b>	Dept.of Clinical Biochemistry, MacEwan Building, Glasgow Royal Infirmary, Castle Street, Glasgow, G4 0SF
<b>Contact Name</b>	Louise Boughen
<b>Contact Telephone Number</b>	0141 242 9578
<b>Contact Email Address</b>	<a href="mailto:Michelle.Barclay@ggc.scot.nhs.uk">Michelle.Barclay@ggc.scot.nhs.uk</a>
<b>Dispatch</b>	First class post
<b>Turnaround Time</b>	6 working days
<b>External Website</b>	<a href="https://www.trace-elements.co.uk/vitamin-k.asp">https://www.trace-elements.co.uk/vitamin-k.asp</a>

## VW Binding Assay and VW Multimers

<b>Discipline Responsibility</b>	Haematology
<b>Sample Type</b>	Plasma (Citrated)
<b>Sample Volume</b>	2 x 0.5mL
<b>Storage</b>	Frozen
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	Royal Hallamshire Hospital, Glossop Road, Sheffield.
<b>Contact Name</b>	Annetee Bowyer/Karen Goodfellow
<b>Contact Telephone Number</b>	0114 271 2955
<b>Contact Email Address</b>	
<b>Dispatch</b>	Frozen
<b>Turnaround Time</b>	
<b>External Website</b>	

## White Cell and Plasma Lysosomal Enzyme Screen (WCE)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Whole Blood (EDTA)
<b>Sample Volume</b>	5mL (ideal) Please consult Duty Biochemist if sample <5mls in volume
<b>Storage</b>	Fridged
<b>Meditech Code</b>	WCE
<b>Other information required</b>	Sample must reach referral lab within 72hrs of collection. (Ideally collect sample Mon-Wed only). Contains chitotriosidase, $\beta$ -hexosaminidase A+B, $\beta$ -mannosidase, $\beta$ -hexosaminidase A, aspartylglucosaminidase, $\beta$ -glucuronidase, $\beta$ -galactosidase, $\alpha$ -mannosidase, $\alpha$ -galactosidase, $\alpha$ -fucosidase, acid esterase, arylsulphatase A, $\beta$ -glucosidase, sphingomyelinase, galactocerebrosidase, N-acetyl- $\alpha$ -galactosaminidase.
<b>Postal Address</b>	Willink Biochemical Genetics Laboratory, Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University NHS Foundation Trust, Oxford Road, Manchester, M13 9WL.
<b>Contact Name</b>	Robert Gibson
<b>Contact Telephone Number</b>	0161 701 2137/8612
<b>Contact Email Address</b>	<a href="mailto:mft.willink-enquiries@nhs.net">mft.willink-enquiries@nhs.net</a>
<b>Dispatch</b>	Special delivery
<b>Turnaround Time</b>	4 weeks
<b>External Website</b>	<a href="https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc">https://www.mangen.co.uk/wp-content/uploads/2023/05/Willink-Biochemical-Genetics-Laboratory-Handbookv19.doc</a>

## White cell cystine (WCC)

<b>Discipline Responsibility</b>	Biochemistry
<b>Sample Type</b>	Lithium Heparin Whole blood
<b>Sample Volume</b>	5mL
<b>Storage</b>	Ambient temperature
<b>Meditech Code</b>	WCC
<b>Other information required</b>	Samples to arrive at referral laboratory within 30 hours of sample collection.
<b>Postal Address</b>	Genetics Laboratory, 5th Floor, Tower Wing, Guys Hospital, Great Maze Pond, London, SE1 9RT.
<b>Contact Name</b>	Philip Crook / Catherine Bradford
<b>Contact Telephone Number</b>	0207 188 1969 / 2582
<b>Contact Email Address</b>	<a href="mailto:metabolicsenzymes@synnovis.co.uk">metabolicsenzymes@synnovis.co.uk</a> / <a href="mailto:catherine.bradford@synnovis.co.uk">catherine.bradford@synnovis.co.uk</a>
<b>Dispatch</b>	Special delivery next day by 9am. Discuss with Duty Biochemist if special delivery by 9am next day cannot be arranged.
<b>Turnaround Time</b>	3 weeks
<b>External Website</b>	

<b>Discipline Responsibility</b>	
<b>Sample Type</b>	
<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
<b>Postal Address</b>	
<b>Contact Name</b>	
<b>Contact Telephone Number</b>	
<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

<b>Discipline Responsibility</b>	
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<b>Sample Volume</b>	
<b>Storage</b>	
<b>Meditech Code</b>	
<b>Other information required</b>	
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<b>Contact Email Address</b>	
<b>Dispatch</b>	
<b>Turnaround Time</b>	
<b>External Website</b>	

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<b>External Website</b>	

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<b>External Website</b>	