

Pathology Laboratory User Manual

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1 INTRODUCTION

The Pathology service in Roscommon University Hospital (RUH) is part of the Diagnostic Directorate of the <u>HSE West and North West Region</u>. It is organised into a Blood Sciences Department (combined Haematology and Biochemistry) and Blood Transfusion. This manual is designed to provide a guide to services provided by the Pathology Laboratory of Roscommon University Hospital.

1.1 Services available at RUH Pathology Laboratory:

The pathology department provides a routine and emergency diagnostic service in Blood Sciences and Transfusion to all clinical areas at Roscommon University Hospital. It also provides a diagnostic services to other healthcare institutions and to the community of General Practitioners (GPs) supported by the hospital. A Haemovigilence Service is available in the hospital; see Table 1 for contact details.

1.2 Services unavailable at RUH Pathology Laboratory:

All samples for Immunology, Histology and Microbiology are referred to the Laboratory Medicine Department at Galway University Hospital (GUH). All results are available on the Laboratory Information system but access to some results especially Histology will be restricted to certain users. In the event that a specific Immunology, Histology or Microbiology test is not available in GUH then the sample may be referred to an outside laboratory for testing.

All Biochemistry and Haematology tests not available in the Pathology Laboratory at Roscommon Hospital are referred to Laboratory Medicine Department at Galway University Hospital. All results are available on the Laboratory Information system. In the event that a specific Biochemistry or Haematology test is not available in GUH then the sample may be referred by either GUH or RUH to an outside laboratory for testing. For these samples the laboratory operates a tracking system for all tests referred out. When samples are referred out they are booked into the LIS with details of the test name and referral centre. When reports are returned from the referral laboratory, RUH dispatches the original report to the requestor.

Details of all tests referred to GUH can be obtained in the current version of the Laboratory Medicine User Guide University Hospital Galway.

See https://www.saolta.ie/documents/guh-laboratory-medicine-user-guide-version-313

A full list of tests available, laboratory opening hours and contact details for all consultants are available in this publication.

All samples for referral to GUH are sent by courier at 13:00 each day Monday to Friday and should be received in the Laboratory no later than 12:50 to be included in the routine dispatch. If there is a need to send samples urgently to GUH please contact the Laboratory to arrange delivery. For Blood Cultures taken between 12 midnight and 09:00 am please use the transport boxes provided on the Wards. Full instructions and contact details are included on the box.

1.3 ACCREDITATION:

- The Haematology Laboratory, Blood Transfusion Laboratory and Haemovigilance Service are accredited by the Irish National Accreditation Board (INAB) in compliance with the International Standard ISO/IEC 15189 and AML-BB (Minimum Requirements for Blood Bank Compliance with Article 14 (Traceability) and Article 15 (Notification of Serious Adverse Reactions and Events) of EU Directive 2002/98/EC).
- All activities are performed in accordance with the requirements of the above standards.
- INAB Registration number: 238MT.

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Details of the scope of accreditation can be seen at <u>https://www.inab.ie/fileupload/medical-testing/roscommon-university-hospital-saolta-university-healthcare-group-238mt.pdf</u>

All laboratory activities are subject to continuous review through quality assurance and audit. The laboratory participates in a number of external quality assessment schemes, all of which are accredited. A list of assays and relevant schemes is available on request.

1.4 **CONFIDENTIALITY:**

All Laboratory staff are bound by the Health Service Executive Codes of Standards and Behaviour which states:

"Employees must not improperly disclose, during or following termination of employment, information gained in the course of their work.

Employees may have access to or hear information concerning the medical or personal affairs of patients and/or employees, or other health service business. Such records and information are strictly confidential and can only be divulged or discussed in the performance of normal duty. Disclosure of records or information under various statutory provisions (e.g. Freedom of Information Acts 1997 and 2003; Data Protection Acts 2001 and 2003; the Health Acts 1947 to 2007) will be made in accordance with HSE policies, procedures and protocols."

GDPR provides for high standards of data protection for individuals and imposes increased obligations on organisations that process personal data. All HSE staff must comply with all applicable data protection, privacy and security laws and regulations including the HSE Data Protection Policy which sets out the requirements of the HSE relating to the protection of personal data where we act as a Data Controller and / or Data Processor, and the measures to be taken to protect the rights of data subjects, in line with EU and Irish legislation. HSE Data Protection Policy is available from: https://www.hse.ie/eng/gdpr/hse-data-protection-policy/hse-data-protection-policy.pdf.

Section	Telephone
Laboratory Office (all enquiries)	09066 32258 or 09066 32176
Roscommon University Hospital – Switchboar	d09066 32000
Emergency out of hours on call service	9 (switchboard) – and request to be connected to mobile of
	scientist on-call.
Chief Medical Scientist	09066 32131
Blood Transfusion	09066 32023
Quality Manager	09066 32131
Haemovigilance Office	09066 32350 or bleep 335
Consultant Haematologist	091 524222 and request to speak to the Haematology
	consultant on call.
Other Galway University Hospital Laboratory	Refer to https://www.saolta.ie/documents/guh-laboratory-
Medicine Consultants	medicine-user-guide-version-313
Postal Address	Pathology Laboratory, Roscommon University Hospital,
	Athlone Road, Roscommon, F42 AX61.
email	denise.lally@hse.ie
Complaints:	denise.lally@hse.ie
Feedback on Services	denise.lally@hse.ie
GP Supplies:	orders@cruinn.ie
Haemovigilance Officer	mary.mimnagh@hse.ie
Table 1 Contact details	

2 CONTACT DETAILS

 Table 1. Contact details.

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3 LOCATION

The Laboratory is located on the first floor of the hospital. The external door is controlled via swipecard access. Please ring bell for access.

4 **OPENING HOURS**

Department/Activity

Routine Laboratory Diagnostic Service Mon. to Fri.09:00 to 20:0Routine Laboratory Diagnostic Service Sat. a.m.09:30 to 12:0On call Mon. to Fri. (Contact Med. Scientist on call via
switchboard before sending samples)20:00 to 09:0On call Sat. (Contact Med. Scientist on call via switchboard
before sending samples)12:00 to 09:0On call Sun. & Bank Holidays. (Contact Med. Scientist on call
via switchboard before sending samples)09:30 to 09:0On call Sun. & Bank Holidays. (Contact Med. Scientist on call
via switchboard before sending samples)09:30 to 09:0

Table 2. Opening Hours

Opening Hours 09:00 to 20:00 09:30 to 12:00 20:00 to 09:00 (next morning)

12:00 to 09:30 (Sunday morning) 09:30 to 09:00 (next morning)

To facilitate efficient processing of requests, samples should be delivered to the laboratory before 19:00. The "On-call" service should not be used to run routine bloods for elective cases.

5 ON-CALL SERVICE

An emergency out of hours service (on call) is in place for emergency work, i.e. non deferrable tests necessary for decisions regarding patient treatment. During these hours, the laboratory is staffed by one medical scientist on call. The scientist must be contacted when urgent samples are being sent to the laboratory (via switch – dial '9' from within RUH).

All tests listed in Section 10 are available on call with the exception of Urinary chemistries.

For advice on any test not included in these lists, please contact the medical scientist on-call.

Blood gases can be analysed on the blood gas instrument. Lactate, ionised Calcium, Sodium, Potassium, Chloride, Haemoglobin and Carboxyhemoglobin are also available on this instrument. The Blood Gas analyser is password controlled. Please contact the Pathology Laboratory if you require a password.

6 LABORATORY SUPPLIES

All users must use approved specimen containers, which can be obtained from the Laboratory or directly from Cruinn Diagnostics.

6.1 HOSPITAL

Collect supplies from Laboratory as required during routine opening hours. Please do a complete stock check on a monthly basis and send order for any products required rather than submitting multiple orders for one or two items.

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6.2 **GENERAL PRACTITIONERS**

Cruinn Diagnostics centrally process and supply all requisitions from external service users as per the Roscommon order form available from Cruinn.

All supply orders received by 12pm will be delivered by the next working day.

Cruinn Diagnostics Ltd Email: orders@cruinn.ie Telephone: 01 629 7400 Fax: 01 629 7401

For added convenience Cruinn Diagnostics Ltd will also supply a number of ancillary items such as Request Forms, bags, swabs, urine containers etc.

7 SAMPLE AND REQUEST FORM REQUIREMENTS

The Pathology Laboratory has 2 request forms:

• Blood transfusion request form (RCH/BT/F001) is used for blood transfusion requests, including group and screen, group and cross match, direct coomb's test, transfusion reaction investigation, blood component requests. For Blood Transfusion samples refer to **Positive identification** of the patient prior to sample collection is detailed in Haemovigilance procedure RCH/HVIG/CP/003.

Patient Consent for transfusion must be documented on Transfusion Prescription and Administration Document for Blood and Blood Components RCH/HVIG/CF009 following discussion between doctor and patient who provide the patient with the information detailed in policy for Provision of Information to Patients Regarding the Administration of Blood Component or Product RCH/HVIG/CP/001.

• Blood Sciences request form (RCH/BS/F001) used for all non Transfusion requests. This is a triplicate request form and if using pre printed patient ID labels ensure a copy of the label is placed on all 3 copies. Note for RUH patients the ward and consultant are not specified on pre printed labels and **MUST BE** handwritten on form. This request form may be utilised for all non-Transfusion requesting, ensuring the appropriate number of specimens are provided. Once collected, submit the entire specimen to the laboratory with the fully completed request form

	Information Required	Requirements	Action if non-compliant
on Specimen	on Request Form		
Surname & Forename	Surname & Forename	Details on specimen must match details on	
DOB	DOB	request form.	
Unique ID (PID (Patient	Unique ID	All specimens from within RUH should be	Request will be rejected.
Identification) number)	(PID (Patient	labelled with Blood Tack label generated at	Request will be rejected.
		the bedside except OPD or theatre specimens	
		which may be handwritten or in exceptional	(If Blood Track label / patient ID label is offline or
	to provide the troopidat	circumstances when all Blood Track PDA /	any of the required information is missing then
	PID Number' applicable		request will be rejected.)
	to the patient on the	situation.	request will be rejected.)
	request form if		Note: In Transfusion the urgent need for blood
		in the case of samples not originating within	overrides the strict sample labelling requirements.
Date and time of		KUH it is the responsibility of the requesting	If the situation is critical, blood samples shall be
specimen collection	specimen collection	Doctors/Finebotomists who opt to use printed	identified with sufficient information to identify
Gender	Gender	labels to have safe procedures in place for	the patient, two independent identifiers (e.g.
	Sample type	controlling and printing, affixing and	patient full name and PID number) and the
Blood Track COLLECT	Blood Track COLLECT		individual who drew the blood. Specimen may be
label (if applicable)	label		processed.
	(if applicable)	NEVER use felt tip pens to label samples or	
		complete request forms.	A comment will be included in the printed test
			report detailing the nature of the non-conformance.
°	÷ 1	Blood Track COLLECT label is acceptable as	
taker	taker	signature of the taker on specimens and	
		request forms from within RUH	

Table 3: Specimen / Request Form Acceptance/Rejection Criteria

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Information Required	Information Required	Requirements	Action if non-compliant
on Specimen	on Request Form		
Ward/Location	Ward/Location	Must be on specimen or form.	If absent from request form sender will be asked to
(RUH in-patients and		Details on specimen should match details on	confirm before sample can be processed
OPD patients only)		request form.	Sample is processed.
	Consultant / Requesting	Must be on request form.	A comment will be included in the test report
	G.P.		detailing the nature of the non-conformance.
	Test Request/Product	Must be on request form.	If absent from request form sender will be asked to
	required (in the case of		confirm before sample can be processed
	Transfusion request		Sample is processed.
	form)		A comment will be included in the printed test
			report detailing the nature of the non-conformance.
	Clinical Details or	All Blood Transfusion special requirements	If absent from Transfusion request form sender
	Special Requirements	e.g. CMV Neg or Irradiated must be specified	will be asked to confirm before sample can be
		on form.	processed
			Sample is processed.
			A comment will be included in the printed test
			report detailing the nature of the non-conformance.
			Requesting Doctor or nominee may amend the
			Request form.
	contact phone number	request form and must be traceable via user	
		ID from the Blood Track label.	

Table 4: Transfusion specific requirements

Tuble 4. Translusion specific requirements			
Information Required on	Requirements	Action if non-compliant	
Request Form			
Type of Blood Component			
Quantity of Blood Component		If absent from Transfusion request form sender	
required.		will be asked to confirm before sample can be	
Date required		processed	
Time required		Sample is processed.	
Previous Transfusion history		A comment will be included in the printed test	
Clinical Details or Special		report detailing the nature of the non-conformance.	
Requirements	Irradiated must be specified on form.	report detaining the nature of the non-comormance.	
Signature of requestor + Bleep	For Transfusion request forms all fields must be complete on	Requesting Doctor or nominee may amend the	
or Ext. No. or contact phone	bottom left section of request form and must be traceable via	Request form.	
number	user ID from the Blood Track label.		

Table 5: Additional Specimen Rejection Criteria

Issue	Action
Current patient details relating to patients name, date of birth, hospital number or PID (Patient Identification) number do not match with historical details on file.	Requestor will be contacted and if current details are correct request will be accepted. If incorrect it will be rejected.
Haemolysed Blood Transfusion Samples (<i>Haemolysis in the</i> patient sample may mask antibody-induced haemolysis and therefore may significantly affect the interpretation of transfusion results)	Request will be rejected. Requestor will be informed.
Clotted FBC, ESR or Coagulation samples	Request will be rejected. Requestor will be informed.
Incorrect sample container, under filled, grossly haemolysed, sample leaked, or no sample Specimen containers that are externally contaminated with body fluids Details on sample illegible Request form contaminated / blood stained Use of correction fluid on sample or request form or sample Empty sample container	Request will be rejected. Requestor will be informed.
Expired sample container	
Urgent samples or samples that cannot be repeated.	Due to the nature of histology and CSF samples, incorrectly labelled samples or request forms may be amended. The requesting doctor will be informed and if he/she is confident that the sample can be correctly identified, it may be accepted once the amendments have been made. The doctor must sign the request form to confirm that he/she has amended the sample or form and is satisfied that both sample and form are now correct. Amendments are also permitted on 24 hr Urine Collection samples.

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A list of factors known to affect the performance of Haematology examinations or the interpretation of Haematology results are available on request

Please remember that inadequately completed request forms can cause delays in issuing reports. Some requests for biochemistry and haematology are listed on the request form and requested by means of a 'tick box'. All other investigations required must be clearly handwritten on form.

These criteria for sample acceptance are essential for patient safety. They are in place to decrease the risk of potential harm caused by labelling errors. Samples not meeting the minimum requirements may be rejected. Only addressograph labels generated by the Blood Track handheld system are acceptable on Blood Transfusion samples. If a sample is to be submitted to the Blood Transfusion Laboratory and the Blood Track handheld system is not available the sample label must be handwritten and must contain all the mandatory information detailed in table 3.

Addressograph labels are acceptable on all other samples.

The laboratory reserves the right to reject specimens that are improperly labelled or are accompanied by forms that are incompletely filled. Consistent practices for specimen rejection are employed across the laboratory.

The laboratory recognises that, in certain cases where the specimen, involves an invasive procedure, or could not otherwise be easily recollected, it may be acceptable to apply an exception of specimen rejection. Exceptions are applied using strict and explicit criteria in accordance with established procedures. The person who collected the specimen will be required to come to the laboratory to identify the specimen and record reason for acceptance and sign the request form, assuming responsibility for the identification of the specimen. Reports relating to such samples will carry a disclaimer stating the nature of the non conformance.

If insufficient specimen is received for all tests requested and the specimen is easily re collectable (e.g. urine, stool, sputum, blood), a repeat collection will be requested. Test(s) for which there is sufficient specimen will be performed.

If the specimen is not easily re-collectable (e.g. CSF, fluids), the ordering clinician will be contacted to establish priority order of tests to be performed.

8 SPECIMEN COLLECTOIN AND PATIENT CONSENT

Refer to CLN-NM-0460 Hospital Venepuncutre Policyfor instructions on specimen collection. Always ensure positive patient identification prior to venepuncture.

For most routine laboratory procedures, consent can be inferred when the patient willingly submits to the sample collecting procedure, for example, venepuncture.

Patient Consent for transfusion must be documented on Transfusion Prescription and Administration Document for Blood and Blood Components RCH/HVIG/CF009 following discussion between doctor and patient who provide the patient with the information detailed in policy for Provision of Information to Patients Regarding the Administration of Blood Component or Product RCH/HVIG/CP/001.

Any further patient consent requirements are outlined in the alphabetical test directory contained in section 16 of this document. Patient consent remains the responsibility of the requesting clinician and the laboratory cannot accept responsibility for referral laboratory rejection of requests due to patient consent being unavailable.

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ORDER OF DRAW, SAMPLE VOLUMES FOR BLOOD SAMPLES 9

The order of draw is important to minimize carry-over of anticoagulant. Note: Blood cultures must be drawn first to avoid contamination.

Please note, it is preferable that blood tubes, especially those containing preservatives, are filled to their stated capacity. This avoids the risk of insufficiency or interferences from excess concentrations of preservative. This is mandatory for some tests (e.g. coagulation), where an imbalance of preservative due to under-filling or overfilling would invalidate the test. Ensure all blood collection tubes are in date before use.

Submit the entire specimen to the laboratory. Never pour samples from one bottle to another. Table 6: Order of venipuncture.

Specimen Type or Tube Colour and Order of Draw	Additive	Laboratory Use
BLOOD CULTURES	Soya broth	Blood cultures aerobic & anaerobic. Send to Laboratory immediately. For Blood Cultures taken between 12 midnight and 09:00 am please use the transport boxes provided on the Wards. Full instructions and contact details are included on the box.
	Trisodium Citrate	Coagulation Studies & D Dimers. If using butterfly needles and a coagulation sample is the first sample to be taken then a discard sample must be taken before the coagulation sample. Fill to mark on tube.
	5ml plain gel tube	Serum determinations.
	Na+. EDTA	Trace Elements
	Lithium Heparin	Contact lab for list of tests
	K3EDTA 6.0 mL blood	Blood Transfusion Group & Hold, X Match, DCT & Transfusion Reaction Investigation.
	3.0 mL K3 EDTA	Full Blood count, ESR & DCT. Fill to mark on tube.
	Sodium fluoride/Potassium oxalate	Blood glucose
	Urine in plain vacutainer – part of Griener urine collection system Transfer urine into <i>Yellow Top</i> Vacuette (Z Urine No Additive)	Urine ACR (albumin:creatinine ratio) and any other spot urine biochemistry assays.
Always ensure sample of	Plain urine container (white top) Boric acid container (red top)	

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Following sample collection discard all materials used in collection safely according to local policy for disposal of healthcare risk waste. Contaminated sharps are potentially hazardous and must be disposed of in a rigid, leak-proof container.

10 TRANSFUSION SPECIFIC INFORMATION:

- 9.1. Collected specimens should be sent at room temperature immediately, or as soon as practically possible, to the Blood Transfusion laboratory. Specimens must arrive in the Laboratory within 5 hours of being taken. It is the policy of the Transfusion department to process all specimens received to the blood transfusion laboratory immediately, or as soon as practically possible depending on workload and urgency of sample.
- 9.2. Blood transfusion specimens are valid for ordering additional testing/ blood components for a period of 72 hours from the time the sample was drawn. Cross matched blood is held for a patient for a period of not more than 72 hours. Laboratory will contact ward to inform of crossmatched units that may be de reserved for a given patient before the 72 hours have elapsed, e.g. blood needed for another patient during an emergency bleed.
- 9.3. Patients that are transfused within the 72 hour time frame of the original specimen need not be re drawn; however a new sample is required after the 72 hours post time of sample draw has elapsed.
- 9.4. Urgent specimens for blood transfusion may be sent by the chute system (number 2 for laboratory), alternatively, the specimen may be delivered by designated hospital staff to the medical scientist "on call" and the person generating the request must contact the scientist on call.
- 9.5. Blood Transfusion samples from outside agencies will be processed Mon-Fri 09.00-20.00 and a report will issued on the same day.
- 9.6. Blood transfusion requests from outside agencies must be accompanied by 2 samples see table 2 and table 3 for labelling requirements.
- 9.7. A Haemovigilance service is available in the hospital. Further information can be got from the Haemovigilance Officer or by contacting the hospital blood bank (see contact details in table 1).
- 9.8. The following products are stocked in the Blood Transfusion Laboratory:
 - Red Cells
 - LG Plasma (Octoplas)
 - Albumin 20%
 - Octaplex
 - Fibrinogen 1g
 - Platelets are ordered from the IBTS on a named patient basis only and are not stocked at RUH.
- 9.9. The special coagulation factors shown in Table 7 can be supplied by the Blood and Tissue Establishment (BTE) GUH. Administration of these products must be approved by the patient's consultant after discussion with the Haematologist on call in GUH. Contact the Blood Transfusion Lab. RUH to arrange delivery. As transfusion of these products is likely to be an extremely rare event these products will be administered as specified in relevant policies supplied by BTE GUH.

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Table 7. Special coagulation factors available from BTE GUH

Product	Supplier	Apex Product Code	Supplier Code/ Stock Source	Purpose
Activated PCC/FEIB. 1000IU	ABaxalta	FEIBA1000	Х	Activated PCC product (Human) for treatment of patients with Haemophilia A who have antibodies
Activated PCC/FEIB. 500IU	ABaxalta	FEIBA500	х	to Factor VIII
Wilate 500IU	Octapharma	WILA500		Van Willehrend fester/Coog, fester VIII compley
Wilate 1000IU	Octapharma	WILA300 WILA1000	0	Von Willebrand factor/Coag. factor VIII complex (Human) for treatment of patient's with Von Willebrand's disease
Alprolix 250 IU	Sobi	ALP250	S	Alprolix is used for the treatment and prevention of
Alprolix 500 IU	Sobi	ALP500	S	bleeding in all age groups of patients with
Alprolix 1000 IU	Sobi	ALP1000	S	haemophilia B (inherited bleeding disorder caused
Alprolix 2000 IU	Sobi	ALP2000	S	by factor IX deficiency)
Alprolix 3000 IU	Sobi	ALP3000	~ S	
Novoseven 1mg	Uniphar	NS50	n	Coagulation Factor VIIa recombinant. Treatment of
Novoseven 2mg	Uniphar	NS100	n	patients with haemophilia A or B who have inhibitors, congenital Factor VII deficiency and patients with Glanzmann's Thrombasthenia who have a decreased or absent response to platelet transfusions.
ELOCTA 250IU	Sobi	ELOC250	S	Recombinant coagulation factor VIII, Fc fusion
ELOCTA 500IU	Sobi	ELOC500	S	protein. Treatment and prevention of bleeding in al
ELOCTA 750IU	Sobi	ELOC750	S	age groups of patients with haemophilia A (factor
ELOCTA 1000IU	Sobi	ELOC1000	S	VIII deficiency). ELOCTA is prepared by
ELOCTA 1500IU	Sobi	ELOC1500	S	recombinant technology without addition of any
ELOCTA 2000IU	Sobi	ELOC2000	S	human- or animal-derived components in the
ELOCTA 3000IU	Sobi	ELOC3000	S	manufacturing process.
Fibrinogen	IBTS	RIASTAP	q	RiaSTAP, Fibrinogen Concentrate (Human) indicated for the treatment of acute bleeding episodes in patients with congenital fibrinogen deficiency, including afibrinogenemia and hypofibrinogenemia. RiaSTAP is not indicated for dysfibrinogenemia.
Praxbind				narmacy RUH who will obtain from BTEGUH or PUF not be stored on Apex.

9.10. All activities relating to transfusion of red blood cells and platelets are monitored using the Blood Track System. Data relating to all blood, platelet and product transfusions are maintained on the Laboratory Information system.

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10.1 LIFE THREATENING EMERGENCY NLEED:

- 9.1.1. The blood transfusion department has 2 units of group confirmed O Rh D negative, phenotype CE and Kell negative red blood cells for emergency transfusion only, when the risk of not transfusing outweighs the risk of waiting for fully crossmatched compatible blood.
- 9.1.2. Staff should be advised that supply of group specific uncross matched blood will take 10 minutes from time of specimen receipt for patients with a known history. Patient's history unknown & blood required sooner than 40 mins, give the emergency uncrossmatched O Rh (D) Negative units.
- 9.1.3. Supply of fully crossmatched blood will take 40 -60 minutes.
- 9.1.4. Supply of compatible blood is compromised if the patient has irregular antibodies, laboratory will advise on availability.
- 9.1.5. The two units of O negative red blood cells are located in the Roscommon Issue Fridge at the Pathology laboratory specimen reception area. Units are clearly labelled as "Emergency Blood". Use only in extreme emergency. A blood transfusion report form is kept with these units, please complete patient details on this form and keep in patient's chart.
- 9.1.6. Plasma is also available on request from the laboratory. Plasma can be issued from the laboratory within 30 minutes on receipt of request.
- 9.1.7. Fibrinogen 1g is also available on request from the laboratory. Fibrinogen can be issued from the laboratory within 15 minutes on receipt of request.
- 9.1.8. Platelets are not available on site but can be ordered as required. Please note that the transport time for platelets on request is approximately 90 minutes.
- 9.1.9. In a life threatening bleed/ multiple trauma, it is imperative that the Medical Officer or deputy, contacts the blood transfusion laboratory, or "on call" scientist as soon as possible to advise of the clinical situation.
- 9.1.10. A properly labelled transfusion specimen must be drawn, before transfusing the 2 O Rh negative units. This is imperative for accurate patient blood grouping.
- 9.1.11. To prevent the risk of samples being lost in the air chute system, it may be advisable to send a member of staff with the sample, directly to the transfusion laboratory.

10.2 TRANSFUSION REACTION INVESTIGATION

If a transfusion reaction is suspected then:

- Stop the Transfusion immediately
- Notify a senior member of the clinical team immediately
- Notify the Laboratory and Haemovigilance immediately

The following samples must be sent to the Laboratory if indicated:

- ABO/ Rh group and antibody screen
- Blood cultures
- First voided urine sample for haemosiderin test
- SMAC
- Direct Antiglobulin Test (DAT)
- FBC
- Coagulation
- MSU
- Return implicated unit to laboratory

All Transfusion reaction investigations are treated as urgent.

Send all samples to the Laboratory as soon as possible after phlebotomy to ensure sample integrity is maintained.

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11 BLOOD SCIENCES TEST PROFILES:

Haematology Test Profiles:

Full Blood Count (FBC): White Cell Count, Red Cell Count, Haemoglobin, HCT (Haematocrit), Mean Cell Volume, Mean Cell Haemoglobin, Mean Cell Haemoglobin Concentration, Platelet count, Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils (may also include Nucleated Red Blood Cell count and / or Reticulocytes as appropriate).

Coagulation Screen: INR, Prothrombin Time, Activated Partial Thromboplastin Time and Fibrinogen (Clauss).

Other Haematology tests available: Infectious Mononucleosis (Monospot), D-Dimers and ESR.

Biochemistry Test Profiles:

Renal Profile (U+E): Sodium, Potassium, Chloride, Urea, Creatinine and eGFR (where appropriate).

Liver Profile (LFT): Albumin, Alkaline Phosphatase (ALP), Alanine aminotransferase (ALT), Total Bilirubin, Gamma-Glutamyl transferase (GGT), Total Protein

Bone profile: Calcium, Calcium (adjusted), Inorganic Phosphate, Albumin and Alkaline Phosphatase (ALP)

Haematinics: Vitamin B12, Folate and Ferritin.

Other Biochemistry tests available:

C-Reactive Protein (CRP)	Aspartate Aminotransferase (AST)
Creatine Kinase (CK)	Amylase
Troponin T	pro B-Type Natriuretic Peptide (pBNP)
Magnesium	Urate
Bicarbonate	Glucose
Human Chorionic Gonadotropin (HCG)	

Urine Chemistries:

Urine SodiumUrine Potassium,Urine CalciumUrine CreatinineUrine AlbuminUrine Albumin:Creatinine RatioUrine Total ProteinUrine Protein:Creatinine RatioCalculation of Calcium Excretion rateCalculation of Calcium: Creatinine Molar Ratio24 hr Creatinine ClearanceUrine Creatinine Clearance

Faecal Analysis: Faecal Occult blood.

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Many clinicians request the profile 'SMAC' on request forms, which includes (*depending on the origin of the specimen*):

Biochemistry (SMAC) Profile for RUH hospital patients	Biochemistry (SMAC) Profile for GP and other non-RUH patients.	Biochemistry (SMAC) Profile for aged samples.
Sodium	Sodium	Sodium
Potassium	Potassium (must arrive <4hrs post phlebotomy)	Chloride
Chloride	Chloride	Urea
Urea	Urea	Creatinine ± eGFR
Creatinine ± eGFR	Creatinine ± eGFR	Calcium
Glucose	Calcium	Calcium (adjusted),
Calcium	Calcium (adjusted)	Alkaline Phosphatase
Calcium (adjusted)	Total Bilirubin	Alanine Aminotransferase
Total Bilirubin	Alanine Aminotransferase	Total Protein
Inorganic phosphate	Alkaline Phosphatase	Albumin
Alanine Aminotransferase	Total Protein	Gamma –Glutamyl Transferase will
Gamma –Glutamyl Transferase	Albumin	be added if Alkaline Phosphatase result is >104 U/L
Alkaline Phosphatase	Gamma –Glutamyl Transferase	1 = 104 U/L
Total Protein	will be added if Alkaline	
Albumin	Phosphatase result is >104 U/L.	

12 PATIENT INSTRUCTIONS FOR 24-HOUR URINE COLLECTION

Important points

- 11.1. It is very important that all urine passed in an exact 24 hour period is collected. Loss of any urine or a collection made for either more or less than 24 hours will invalidate the tests and might lead to an incorrect diagnosis
- 11.2. Do not void urine directly into the 24-hour container, but into a suitable clean detergent-free jug and then pour into the 24-hour container.
- 11.3. If the container contains acid (used as a preservative) or has a warning label, then care needs to be exercised when adding urine from the collection vessel. Hydrochloric acid causes burns and is irritating to eyes, skin and respiratory system. If it comes in contact with skin, wash the affected area immediately with plenty of water and seek medical advice. Keep out of reach of children. Not to be taken internally would cause severe irritation and damage.
- 11.4. Ensure that the container is correctly labelled as per table 3.

12.1 INSTRUCTIONS TO PATIENT FOR SAMPLE COLLECTION

- 11.1.1. Empty your bladder on rising and throw away the sample. The collection is started after this sample has been passed. Write the start time on the specimen container label.
- 11.1.2. Collect all urine in the container provided on every occasion that it is passed during the following 24 hours and store refrigerated if possible.
- 11.1.3. Empty your bladder on rising the next morning and add this sample to the collection.
- 11.1.4. Write the finish time on the container label.
- 11.1.5. Bring the container to the laboratory on the day of completion.

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12.2 INCOMPLETE COLLECTIONS

- 11.2.1. If a sample is forgotten or lost down the toilet, then all the urine collected to this point should be thrown away and the collection re-started the following morning.
- 11.2.2. If the incomplete sample is an acid collection, the original container should be returned to the laboratory and a new one requested.

12.3 ADDITIONAL REQUESTS / SAMPLE RETENTION

If further additional testing is required after the specimen has been sent to the laboratory, please contact the relevant department to investigate the feasibility of using the initial specimen for analysis. If test is feasible you will be requested to forward an additional request form with details of additional tests required.

12.4 URGENT REQUESTS

All Blood Sciences requests from UCC, MDS, MAU, Radiology and RAC are treated as urgent and are fasttracked through the laboratory's system. Once authorized, results are available for reviewing on the Ward Enquiry module of the Laboratory Information System (see section 17 for details on accessing results electronically).

All other urgent requests should be labelled as such **AND** the laboratory phoned to advise of the urgency. Please note that during on-call times **all requests should be phoned to the Medical Scientist on call.** See section 2 of this manual for contact details.

For tests that require urgent referral to Galway University Hospital or another institution please contact the Laboratory to arrange transport.

13 SAMPLE TRANSPORTATION

13.1 HEALTH AND SAFETY

It is the policy of the Laboratory to treat all samples as potentially infectious or high risk.

Therefore, we advise that universal precautions are taken in the collection process, packaging, and delivery of specimens to the Laboratory for analysis.

Specimens should always be placed in a biohazard transport bag with the request form placed in the pouch and the bag should be sealed. All samples should be sent to the Laboratory as soon as possible.

13.2 SAMPLE DELIVERY WITHIN THE HOSPITAL

Samples may be sent to the Laboratory via the Pneumatic Tube System (PTS). The following samples must **never** be sent in the PTS:

- Histology specimens
- CSFs

NOTE: The Laboratory is responsible for the maintenance of the PTS. In the event of System failure please notify the Laboratory @ ext. 2258.

13.3 PACKAGING OF DIAGNOSTIC SPECIMENS FROM OUTSIDE RUH

It is the responsibility of all persons sending samples to the laboratory to adhere to national and international regulations ensuring that specimens sent to the laboratory do not present a risk to anyone coming in contact with them during transportation or on receipt in the laboratory. Carriage of goods by road must comply with the European Agreement Concerning the International Carriage of Dangerous Goods by Road regulations (ADR) (2012). See Health and Safety Authority website <u>www.hsa.ie</u> for a copy of the regulations.

Specimens may be brought directly to the laboratory and placed in the locked GP SAMPLE BOX.

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13.4 INSTRUCTIONS:

- 12.4.1. The packaging must be of good quality, strong enough to withstand the shocks and loadings normally encountered during carriage.
- 12.4.2. The packaging must consist of at least three components:
 - a. A leak proof primary receptacle e.g. blood collection tube, MSU container;
 - b. A secondary sealable package to enclose and protect the primary container(s), e.g. plastic specimen bag, approved GP transport containers.
 - c. Outer package: the secondary package is placed in an outer transport container with suitable cushioning that protects it and its contents from external influences such as physical damage and water while in transit. This must conform to ADR regulations.
- 12.4.3. For carriage, the outer packaging must be marked with UN 3373 and 'Biological Substances, Category B' marked adjacent to the diamond shaped mark.



BIOLOGICAL SUBSTANCE, CATEGORY B

Sending of samples through the post is not permitted.

13.5 STORAGE OF SAMPLES PRIOR TO TRANSPORT TO THE LABORATORY

Samples should be transported to the Laboratory as soon as possible after collection. **Samples should not be stored in ward areas or in GP practices overnight or over the weekend.** Samples that are not transported in a timely manner to the laboratory may be rejected if there is any doubt about the sample integrity.

14 PROCEDURE FOR THE TRANSPORT OF INFECTIOUS OR SUSPECTED INFECTIOUS SPECIMENS

- 13.1. Specimens or samples to be sent should be stored in a secure (preferably plastic) primary container, containing absorbent material.
- 13.2. Place primary container containing the specimen into a plastic biohazard bag, seal bag.
- 13.3. State clearly on the request form RCH/BT/F001 or RCH/BS/F001 that the sample is from a possible or confirmed "High Risk" patient.
- 13.4. Place the request from on the plastic sleeve on the bio hazard bag. Place the name, address and contact number of the originator on the outside of the box.

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15 REFERENCE RANGES

15.1 FACTORS THAT INFLUENCE THE REFERENCE RANGE INCLUDE:

- The manufacturer of the reagents
- Technology utilised to carry out the examination
- Population/laboratory studies
- Literature/reference books
- Clinical advice

Where appropriate reference ranges are age and gender related and are available on all reports both electronic and paper formats.

Any changes to reference ranges are notified to the clinician for a minimum of a 3 month period following the change and included as a comment on all reports. Any changes to reference ranges will not apply to historical results.

16 REPORTS & ENQUIRIES

16.1 ELECTRONIC ACCESS TO REPORTS

As soon as reports are authorized, they may be viewed within the Ward Enquiry module of the Laboratory Information System. The LIS is a shared system between Roscommon University Hospital, Galway University Hospital and Mayo University Hospital and most results generated and authorised on these sites are available for review on the LIS. Histology results are only available to approved clinicians who require access to these results. Some tests are deemed confidential and are only available to the patients clinician e.g. Genetic testing, HIV testing.

Upon authorisation, Blood Sciences reports for GP patients are released to Healthlink (for all GPs registered with Healthlink).

16.2 INSTRUCTIONS FOR ACCESSING REPORTS ELECTRONICALLY WITHIN ROSCOMMON HOSPITAL AND SHH:

Authorised results (for Roscommon University Hospital, Galway University Hospital or Mayo University Hospital) from the following departments may be accessed as described below:

- a) Biochemistry
- b) Haematology
- d) Microbiology
- e) Immunology

Access to results is password controlled. Each staff member who requires access to Laboratory results must have their own unique User ID and Password. This is issued to each individual who completes a Lab User Access Form and sends same to colm.walsh2@hse.ie

This unique username and password can be used to access all results using the Web based ward Enquiry option. A shortcut is available in the GUH Useful Resources folder. Double click on shortcut to display log on screen or follow link below:

http://guh-limsweb/apex/mgwms32.dll?MGWLPN=APEX&APP=PCOMB&APPDIR=/APEX

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Figure 5. Log on screen for Web ward enquiry.

After entry of username and password the user can search using either the PID (Patient Identification) number and first 2 letters of surname or an unknown search using a combination of name/DOB/Sex . See Figure 6 below.

← → C () guh-limsweb/apex/mgwms32.dll?MGW	LPN=APEX&CTOKEN=nRkjOWFuHm&APP=PCOMB		☆ :
i.Laboratory			
Patient Number		Enter ID number, minimum 2 characters of sumame or correct surname and specify number type.	Patient No NHS No
Surname		респу полост турс.	Old NHS No O Service No O
			Number Search
Surname Forename Dob/Age		Or search using combinations of these parameters.	Name S <u>w</u> ap
<u>E</u> xtended Age Search Se <u>x</u>			
		<u>S</u> earch	<u>R</u> e-set <u>H</u> elp Log <u>O</u> ff
User: 1Kenny Tadg Dec 22 2016 2:39 PM			
	C ₂		
	V		

Figure 6. Patient enquiry screen

16.3 APPEARANCE OF HAEMATOLOGY AND BIOCHEMISTRY UNAUTHORISED REPORTS:

If a sample has been received in the Laboratory and testing is not complete then no results will be displayed and a message "In Progress" or "Not Fully Authorised" will be displayed until the all results have been validated.

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16.4 HARDCOPY REPORTS

16.4.1 RUH hardcopy reports

To facilitate identification, hospital reports are colour-coded as follows: **Department Report colour** Biochemistry White with Green Haematology White with Purple Transfusion Pink Hardcopy reports are delivered to ward areas via the chute system throughout the day. For all other areas (OPD etc), reports are delivered to Medical Records.

16.4.2 Hardcopy reports for patients outside of RUH

Electronic reporting is available via Healthlinks for all registered GP's. For further information on Healthlinks contact 091 775909.

For GPs who receive hardcopy reports and any other organisations who do not have access to electronic reports, they are sent via an Post.

Any reports received in error should be returned to the laboratory.

16.4.3 Reports for referred samples

Reports for specimens that have been referred out for testing will be on hardcopy and in the reporting format as defined by the referral laboratory. Such reports will contain patient demographics, results and interpretations.

For Blood Transfusion details of blood group, antibody investigation results and relevant compatible units will be included.

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17 PHONING OF CRITICAL RESULTS

Abnormal results defined in the critical limits table below will be telephoned to the requesting source. Please note that it is laboratory policy to ask for name of recipient and that results be repeated back when phoned to ensure accurate transfer of information.

Discipline	Test code	RESULTS TO BE PHONED IF
Haematology	Hb	\leq 9.0 g/dl <i>first time</i> presentation at RUH and all GP's
		$\leq 8.0 \text{ g/dl}$ every time
		≥19 g/dl Males
		≥ 17 g/dl Females
	Plt	$\leq 100 \times 10^{9/1}$ first time presentation at RUH and all GP's
		$\leq 20 \times 10^{9/1}$ every time
		$\geq 1000 \times 10^{9/1}$ every time
		≤3.0X10^9/L <i>first time</i> presentation at RUH and all GP's
		\geq 30X10^9/L every time
	NEUTS	≤1.5X10^9/L first time presentation for RUH patients and all GP's
	Monocytes	≤0.1X10^9/L first time presentation
	Blasts	After confirmation for <i>first time</i> patients only.
	PT	\geq 30 secs. and no evidence of anticoagulant therapy.
	APTT	\geq 50 secs. and no evidence of anticoagulant therapy.
	INR	24
	FIB	≤1.5
Haematinics	Vit B12	
Biochemistry	CRP	\geq 300 mg/L (Unless > 300 mg/L in previous 24 hours and phoned)
	Na	$\leq 120 \text{ or} \geq 150 \text{ mmol/l}$
	K	$\leq 2.5 \text{ or } \geq 6.0 \text{ mmol/l}$
	Urea	For first time presentation \geq 30 mmol/l
		>50% change in 30 hours (Delta check)
	Creatinine	≥345µmol/L
	eGFR	≤15 ml/min
GLUC $\leq 2.5 \& \geq 25 \text{ mmol/l Not known diabetic}$		
		≥30 mmol/l Known diabetics
	CALCIUM	$\leq 1.8 \text{ or} \geq 3.0 \text{ mmol/l}$
	Adjusted CA	$\leq 1.8 \text{ or} \geq 3.0 \text{ mmol/l}$
	ALT	≥ 600 U/L
	AMY	≥ 200 U/L
	СК	\geq 700 U/L for ext. patients (GP's, etc.)
		≥ 3000 U/L in-patients
	Phos	$\leq 0.45 \text{ mmol/l}$
	Mg	$\leq 0.4 \text{ mmol/l}$
	TT	\geq 20 ng/L for ext. patients (GP's, etc.)
		\geq 100 ng/L for <i>first time</i> in patients at RUH
Transfusion	Group and Hol	d Positive antibody screen.
	or X Match	Discrepancy between current results and historical results.
		Difficulty in determining patients group.
		Any other reason that could result in significant delay in providing products requested.
Other e.g. factors	known to	Unsuitable blood samples. If a sample cannot be fully processed for whatever
		of reason e.g. incorrectly labelled, under filled, haemolysed etc. the Lab staff will
the examination o	r the interpretation	attempt to contact the Ward or GP. If unsuccessful the result will be available vi
of the results	L.	the LIS or healthlink.
		Any written or verbal requests to phone results when available.
		Amended reports.

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18 E MAILING OF RESULTS

The laboratory follows the HSE Electronic Communications policy regarding transmission of patient information. See <u>http://www.hse.ie/eng/services/Publications/pp/ict/Electronic_Communications_Policy.pdf</u>. And the HSE Data Protection policy <u>https://www.hse.ie/eng/gdpr/hse-data-protection-policy/hse-data-protection-policy.pdf</u>

19 TELEPHONE ENQUIRIES

Telephone enquiries for reports should be directed to the laboratory ext. 2258 (09066 32258) Please note that electronic reports are available as described in section 17 above. Staff should first check for the availability of electronic reports on the LIS or Healthlink before contacting the Lab.

20 TURNAROUND TIMES

The Laboratory has set target turnaround times for all tests performed. See section 26 Alphabetical Test Directory for details.

Turnaround times are determined from the date and time of receipt of the sample in the laboratory to the date and time of authorization. Turnaround times are subject to regular audit.

21 ADVICE AND CONSULTATION

Scientific and medical advice on issues within the laboratory's range and competence is available. Refer to Section 2 for a list of all contacts.

22 SATISFACTION & COMPLAINTS

The pathology laboratory welcomes feedback from clinical users and patients, both positive and negative. All feedback is communicated to management and staff to allow us to shape our processes.

There are a number of channels by which comments and complaints may be identified to the Laboratory. In all cases, it is department policy to respond in an open, positive and professional manner to issues raised. Where necessary, adjustment to process may ensue. Complaints should be referred to the Chief Medical Scientist, e-mail <u>denise.lally @hse.ie</u> or by telephone and request to speak to the medical scientist in charge.

The laboratory performs annual surveys of user satisfaction. The survey results are circulated and discussed at the annual quality management review.

23 MANAGEMENT OF PATIENT INFORMATION

The laboratory has implemented processes to ensure that patient information is maintain confidentially at all times. No patient information is placed in the public domain by the laboratory. Information regarding the patient is only released to the clinician/clinical team responsible for the care of the patient. In the case of Blood Transfusion patients, where a Serious Adverse Event or Reaction is identified, anonymised information (medical record number and details of the occurrence) may be shared with the National Haemovigilance Office as part of mandatory reporting of Serious Adverse Events and Reactions. A definition of Serious Adverse Events and Reactions is available at https://www.hpra.ie/safety-information/how-we-monitor-safety/blood

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24 POINT OF CARE TESTING

ABL Flex 90: Arterial Blood Gas Analyser is available in Laboratory Reception. The blood gas analyser is maintained and quality controlled by laboratory staff. User password is required. Contact the laboratory at 2258 if any problems noted.

Storage time and temperature recommendations

Plastic syringe

- If it is not possible to analyse the sample immediately, analyse it within 30 minutes
- Recommended sample storage temperature is room temperature
- Samples with expected high pO_2 values should be analysed immediately or within five minutes (Refer to ABL90 FLEX Operator's manual section 12 Sampling)

The parameters available are: **Measured:** pH, ChC+, pCO2, pO2, Na+, K+, Cl-, Ca++, HB, Glu, Lactate, Bili **Derived:** TCO2, BEecf, tHb(c), BE(B), AG, sO2(c), HCO3-(c), HCO3-std.

Abbott Blood Glucose and Ketone testing: Meters available on all Wards and Out Patient Departments for Blood Glucose Testing. The blood glucose meters are maintained and quality controlled by laboratory staff. User password is required and password is renewed automatically if the user has run and passed the required internal Quality Control samples at least once in past year. Contact the laboratory at 2258 if any problems noted or if re certification is required or user badge ID has changed. Note Ketones are only available on selected meters and these meters will be labelled as "Ketones enabled". It will be necessary to run and pass Ketone controls before any patient tests can be run.

Clinitech Status Urinary HCG testing: Available on St. Bridgets Ward and Endoscopy. The Clinitech status analyser is maintained and quality controlled by laboratory staff. User password is required. Contact the laboratory at 2258 for password setup or if any problems noted.

25 MUSCLE BIOPSIES OR LYMPH NODES.

The Histopathology laboratory GUH, telephone 091524425, must always be notified by the consultant performing the biopsy at least 24 hours in advance.

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26 Alphabetical Test Directory

АСТН	
Laboratory:	Clinical Biochemistry GUH
Specimen:	x2 3mL k ⁺ EDTA FBC samples . Send to lab immediately, lab to separate and freeze
Furnaround:	1 week
Ref. Range:	On report form
Activated Partia	l Thromboplastin Time (APTT)
Laboratory:	Haematology RUH
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube
Comment:	Must fill bottle to mark. Note : do not refrigerate, send to labortry with 6 hrs of draw
Furnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	Refer to report
	n C Resistance (APC-R) (see Thrombophillia Screen)
Laboratory:	Haematology GUH
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube
Comment:	Fresh specimen required. Must fill bottle to mark.
Furnaround:	5 weeks
Ref. Range:	Refer to report
Adenovirus / Ro	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Adiponectin	
Laboratory:	Referred to Eurofins SCDL
Specimen:	5 mL blood in a plain gel tube, Send to lab immediately, lab to separate and freeze
Furnaround:	2 weeks
Ref. Range:	On report form
Adrenaline / Noi	adrenaline / Dopamine
See " Catecholan	ines/Fractionated Metanephrines"
Adjusted Calciu	m
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Calculated parameter
Furnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Alanine amino T	'ransferase (ALT)
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Furnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Albumin	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Furnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form

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Laboratory:) / Microalbumin, Albumin/Creat Ratio (ACR)		
	Biochemistry, RUH		
Specimen:	Urine in plain vacutainer – part of Griener urine collection system		
Comment:	Date of collection must be stated on the request form. 1 day from receipt in RUH.		
Turnaround:			
Ref. Range:	Refer to report form.		
Alcohol (Ethano	l)		
Laboratory:	Clinical Biochemistry, GUH		
Specimen:	5 mL blood in a plain gel tube filled completely & delivered immediately to the laboratory. For RUH, 4.0mL blood collected into a fluoride oxalate (grey top) tube filled completely is the preferred sample as transport time will delay receipt of sample in GUH.		
Comment:	Do not use alcohol wipes. Analysis for medical use only		
Turnaround:	From receipt in GUH lab : Urgent: 1hour. All other requests : 3hours		
Interpretation :	On report form		
Aldosterone			
Laboratory:	Clinical Biochemistry, GUH		
Specimen:	2 x 5 mL: k ⁺ EDTA FBC samples. Send to lab immediately, lab to separate and freeze		
Comment: Turnaround:	Please provide clinical/antihypertensive medication details. 3 weeks		
Ref. Range:	5 weeks On report form		
Laboratory:	sma Renin Activity Ratio Clinical Biochemistry, GUH		
Specimen:	2 x 5ml mL: k ⁺ EDTA FBC samples. Send to lab immediately, lab to separate and freeze		
Comment:	Please provide clinical/antihypertensive medication details		
Turnaround:	3 weeks		
Ref. Range:	On report form		
ALK Transloca	tion (EML4-ALK translocation)		
Laboratory:	Department of Histopathology, Cytopathology and Molecular pathology, GUH		
Specimen:	Tissue samples already processed by the Histopathology Laboratory, arrange via consultant pathologist.		
Comment:	Testing available on request by Pathologist.		
Referrals:	Contact the Department of Histopathology, Cytopathology and Molecular pathology on 091 544078		
Turnaround;	5 – 10 working days after request from Pathologist received.		
Report:	Integral part of Histopathology report issued by Division of Anatomic Pathology, Department o		
	Histopathology, Cytopathology and Molecular Pathology.		
Alkaline phosph	natase (Alk Phos)		
Laboratar			
Laboratory:	Biochemistry, RUH		
Specimen:	5 mL blood in a plain gel tube		
Specimen: Turnaround:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours.		
Specimen: Turnaround: Ref. Range:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form		
Specimen: Turnaround: Ref. Range: Allergen Specifi	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast)		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history.		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitr	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitr Laboratory:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitr Laboratory: Specimen: Turnaround:	 5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitr Laboratory: Specimen: Turnaround: Ref. Range:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Not restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 0.9 - 2.0 g/L		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory: Specimen: Turnaround: Ref. Range: Alpha-1-Antitry	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 0.9 - 2.0 g/L rpsin Phenotyping		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory: Specimen: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 0.9 - 2.0 g/L rpsin Phenotyping Immunology, GUHSpecimen: 5.0 mL blood in plain gel tube		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory: Specimen: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory: Turnaround:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Note restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 0.9 - 2.0 g/L rpsin Phenotyping Immunology, GUHSpecimen: 5.0 mL blood in plain gel tube 6 weeks		
Specimen: Turnaround: Ref. Range: Allergen Specifi Laboratory: Specimen: Comment: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory: Specimen: Turnaround: Ref. Range: Alpha-1-Antitry Laboratory:	5 mL blood in a plain gel tube Urgent: 1 hour. Routine 4 hours. On report form c IgE (Rast) Immunology, GUH 5 mL blood in a plain gel tube. Must specify allergen according to history. Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield. Not restrictions in place for referral requests. 7 working days 0 - 0.35 kUA/L ypsin Immunology, GUH 5.0 mL blood in a plain gel tube 5 working days 0.9 - 2.0 g/L rpsin Phenotyping Immunology, GUHSpecimen: 5.0 mL blood in plain gel tube		

ROSCOMMON UNIVERSITY HOSPITAL	
PATHOLOGY LABORATORY	
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Alpha fetoprotei	in (AFP)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
17-Alpha-OH-P	rogesterone
Laboratory:	Referred to Eurofins SCDL
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1 week
Ref. Range:	On report form
Aluminium	
Laboratory:	Referred to Eurofins SCDL
Specimen:	5.0 mL lithium heparin (request sample tube from lab)
Turnaround:	1-3 weeks
Ref. Range:	On report form
Amikacin	
Laboratory:	Medical Microbiology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1 day
Comment :	Specify time specimen collected, peak or trough
Ref. Range:	On report form
Amphetamine	
See "Toxicology	Screen"
Amylase	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Androstenedion	e
Laboratory:	Referred to to Eurofins SCDL
Specimen:	5.0 mL blood in a plain gel tube. Send to lab immediately. Lab to separate and freeze
Turnaround:	1 week
Ref. Range:	On report form
Angiotensin Cor	verting Enz (ACE)
Laboratory:	Referred to to Eurofins SCDL
Specimen:	5.0 mL blood in a plain gel tube. Send to lab immediately, lab to separate and freeze
Turnaround:	1 week
Ref. Range:	On report form
Angiotensin II	
Laboratory:	Referred to to Eurofins SCDL
Specimen:	x2 3mL k ⁺ EDTA FBC samples . Send to lab immediately, lab to separate and freeze
Turnaround:	1 week
Ref. Range:	On report form

PATHO	LOGY LABORATORY	
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ntibody Titrat	ion	
aboratory:	Blood & Tissue Establishment, GUH	
pecimen:	6.0 mL EDTA K ² E blood	
urnaround:	Within 1 day, with the exception of weekends and bank ho	lidays and in the event of additional te
•	requires extensive investigation	
ef. Range:	N/A	
Anti IgA Antibo		
aboratory:	Referred to NHS Blood & Transplant, Sheffield	
Specimen: Furnaround:	5.0 mL blood in plain gel tube	
l'urnaround: Report:	6 weeks Positive/Negative	
•	Positive/Negative	
	ine Receptor Antibodies	wford OV2 7L I
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	viora UA3 /LJ.
Specimen: Furnaround:	5.0 mL blood in a plain gel tube 6 weeks	
Report:	Positive/Negative	
Anti-Adrenal A		
Laboratory:	Referred to Immunology Dept, Northern General Hospital,	Shaffiald
Specimen:	5.0 mL blood in a plain gel tube	Sicilicia
urnaround:	6 weeks	
Report:	Positive/Negative	
	coprotein-1 Antibodies	
aboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
Ref. Range:	Refer to report	
	feron Neutralising Antibodies	
Laboratory:	Referred to UCL, London.	
Specimen:	5.0 mL blood in plain gel tube	
urnaround:	6 weeks	
Report:	Positive/Negative	
nti Basal Gang	glia Antibodies	
Laboratory:	Referred to UCL, London.	
Specimen:	5.0 mL blood in plain gel tube	
furnaround:	6 weeks	
Report:	Positive/Negative	
Anti-Cardiac M	uscle Antibodies	
Laboratory:	Referred to Immunology Dept, Northern General Hospital,	Sheffield
Specimen:	5.0 mL blood in plain gel tube	
urnaround:	6 weeks	
Report:	Positive/Negative	
Anti Cardiolipin	1 Antibodies IgG, IgM, Cardiolipin Beta 2 glycoprotein	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
Ref. Range:	On report form including interpretative comment	
nti-CASPR2 a	ntibodies	
	Referred Immunology Dept, Churchill Hospital, Oxford O2	X3 7LJ.
.aboratory:	Referred minunology Dept, Churchin Hospital, Oxford Oz	
Laboratory: Specimen:	5.0 mL blood in plain gel tube. CSF analysis also available	
pecimen:	5.0 mL blood in plain gel tube. CSF analysis also available	

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Anti CCP (Citru	Illinated Cyclic Peptide)	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Comment :	Requests for Anti-CCP will also be tested for Rheumatoid	Factor
Turnaround:	7 working days	
Report:	Negative <10 U/mL	

Anti-Centromere Antibodies

Immunology, GUH Laboratory: Specimen: 5.0 mL blood in plain gel tube Turnaround: 7 working days Report: Positive/Negative Anti-C1q Antibody Laboratory: Referred to Immunology Dept, Northern General Hospital, Sheffield Specimen: 5.0 mL blood in plain gel tube Turnaround: 6 weeks Positive/Negative Report: Anti-D Quantitation Blood Transfusion, referred to IBTS, St James's Street, Dublin 8 Laboratory: Specimen: 6.0 mL EDTA K²E blood

 Turnaround:
 Test performed Tuesdays and Thursdays only

 Ref. Range:
 N/A

 Anti-dsDNA Antibody

 Laboratory:
 Immunology, GUH

Eucoratory.	minunology, een
Specimen:	5.0 mL blood in plain gel tube
Comment :	Only performed in the context of positive ANA
Turnaround:	7 working days
Ref. Range:	Refer to report

Anti-ENA Screen (Extractable Nuclear Antigens: Sm / RNP / Ro / La / Scl-70 / Jo-1)

Laboratory:	Immunology , GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	7 working days
Report:	Refer to report.

Anti-Endomysial Antibodies

•	
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Comment:	IgA anti-endomysial antibody test if IgA anti-tTG screening test positive.
Turnaround:	10 working days
Report:	Positive/Negative

Anti-GABA (anti-glutamate receptor antibodies)

Laboratory:	Referred to Immunology Dept, Churchill Hospital, Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube. CSF analysis also available.
Turnaround:	6 weeks
Report:	Refer to report

Anti-Ganglioside Antibodies

oup, Institute of Molecular Medicine, John Radcliffe Hospital, Oxford
ioside antibodies occur please specify test required and provide clinical details.
5

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Anti-Gastric Pa	rietal Cell Antibodies	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
- 1		

Laboratory.	Ininunology, GOH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	7 working days
Report:	Positive/Negative
Anti-GBM Glon	nerular Basement Membrane (GBM) Antibodies
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 working days
Report:	0 - 10 U/mL
Anti-Glutamic A	Acid Decarboxylase (GAD) Antibodies
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	3 weeks
Ref Range:	0-9 IU/mL
Anti-Glycine Re	ceptor Antibodies
Laboratory:	Referred to Immunology Dept, Churchill Hospital, Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube. CSF analysis also available.
Turnaround:	6 weeks
Report:	Refer to report
Anti-Histone An	itibodies
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	3 weeks
Report:	Positive/Negative
Anti-HMGCR a	ntibodies (anti-HMG-CoA Reductase antibodies)
Laboratory:	Referred to Immunology Dept, Churchill Hospital, Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube.
Turnaround:	6 weeks
Report:	Refer to report
Anti-IA2 Antibo	dies
Laboratory:	Referred to Immunology Dept, Northern General hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	6 weeks
Report:	Positive / Negative
Anti-Insulin An Laboratory:	
Specimen:	Referred to Immunology Dept, Northern General hospital, Sheffield 5.0 mL blood in plain gel tube
Turnaround:	6 weeks
Ref. Range:	0-5 mg/l
Kei. Kalige.	
	actor Antibodies
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnground	2 weeks

Turnaround:2 weeksReport:0 - 6 U/mL

Anti-Islet Cell Antibodies

Laboratory:	Referred to Immunology Dept, Northern General hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	6 weeks
Report:	Positive / Negative

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1480 27 0		
nti-Jo–1 Antib	odies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	10 working days	
eport:	Positive/Negative	
nti-La (SS-B) A		
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	10 working days	
eport:	Positive/Negative	
nti-LGil antibo		
aboratory: pecimen:	Referred to Immunology Dept, Churchill Hospital, Oxford 5.0 mL blood in plain gel tube. CSF analysis also available	
omment:	Refer to anti-VGKC	
urnaround:	6 weeks	
eport:	Refer to report	
•		
aboratory:	ey Microsomal (LKM) Antibodies Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
eport:	Positive/Negative	
nti-Myelin Ass	ociated Glycoprotein (MAG) Antibodies	
aboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	6 weeks	
eport:	Positive/Negative	
nti-Mitochond	rial Antibodies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
eport:	Positive/Negative	
nti-M2 Mitoch	ondrial (Pyruvate Dehydrogenase) Antibodies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	3 weeks	
eport:	Positive/Negative	
ntiMUSK An		
aboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	6 Weeks	
eport:	Positive/Negative	
	xidase (MPO) Antibodies	
boratory:	Immunology, GUH	
ecimen:	5.0 mL blood in plain gel tube	
urnaround: ef Range:	5 working days 0 - 3 5 IU/ml	
er K ange'		

Ref. Range: 0 - 3.5 IU/ml

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Anti-Natalizuma	ab (Tysabri) Antibodies	
Laboratory:	Referred to Barts Hospital, London	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	4 weeks	
Report:	Positive/Negative	
Anti-Neuromyel	itis Optica Antibodies	
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	6 weeks	
Report:	Positive/Negative	
Anti-Neuronal N	Nuclear Cell (Hu Ri) Antibodies	
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube	
Comment:	Supply clinical details and specify if other neuronal antibod	dy tests required.
Furnaround:	6 weeks	
Report:	Positive/Negative	
Anti-Neutrophil	Cytoplasmic Antibodies (ANCA)	
Laboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
Report:	Positive/Negative. See report form for interpretative comm	ent

Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	7 working days
Report:	Screened at 1/80
-	Negative/Positive. Positive results titre 1/80 to $\geq 1/1280$. ANA Pattern reported.

Anti NMDA Receptor Antibodies

	Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, Oxford OX3 7LJ.
	Specimen:	5.0 mL blood in plain gel tube
	Turnaround:	6 weeks
	Report:	Positive/Negative
1		

Anti-Ovarian Antibodies

Laboratory:	Referred to Immunology Dept, Northern General Hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	6 weeks
Report:	Positive/Negative

Anti-Paraneoplastic Antibodies: See anti-Hu Ri Yo

Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, Oxford OX3 7LJ.	
Specimen:	n: 5.0 mL blood in plain gel tube. CSF analysis also available.	
Comment:	Supply clinical details and specify if other paraneoplastic antibody tests (CV2/CRMP5, Ma1/Ma2, anti-	
	amphiphysin) required.	
Turnaround:	6 weeks	
Report:	Positive/Negative	

	LOGY LABORATORY	
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nti-Pemphigus	& Pemphigoid Autoantibodies	
aboratory:	Referred to Immunology Dept, St James Hospital, Dublin	12
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	6 weeks	
Report :	Positive/Negative	
	ase 2A receptor (PLA2R) antibodies	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	3 weeks	
Ref. Range:	0-14 RU/mL	
	tibody investigation	
Laboratory:	Blood Transfusion: - referred to IBTS, St James's Street, D	Jublin 8
Specimen:	$6.0 \text{ mL EDTA } \text{K}^2\text{E} \text{ blood}$	
Furnaround:	Variable	
Ref. Range:	N/A	
	3 (PR3) Antibodies	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	5 working days	
Ref. Range:	0 -2 IU/ml	
	ell (Yo) Antibodies	
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	
Specimen:	5.0 mL blood in plain gel tube. CSF analysis also available	
Comment: Furnaround:	Supply clinical details and specify if other neuronal antibo 6 weeks	dy tests required.
Report:	Positive/Negative	
Laboratory:	P Protein Antibodies Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	3 weeks	
Report:	Positive/Negative	
Anti-Ro (SS-A)	Antibodies	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	10 working days	
Report:	Positive/Negative	
•	and Antibodies	
Laboratory:	Referred to Immunology Dept, Northern General Hospital,	, Sheffield
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	6 weeks	
Report:	Positive/Negative	
	poisomerase 1) Antibodies	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	10 working days Positive/Negative	
Report:		

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nti-Skeletal (St	riated) Muscle Antibodies	
aboratory:	Referred to Immunology Dept, Northern General Hosptial,	Sheffield
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	6 weeks	
Report:	Positive/Negative	
Anti-Sm (Smith)	Antibody	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	10 working days	
Report:	Positive/Negative	
nti-Smooth Mu	iscle Antibodies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	7 working days	
Ref. Range:	Positive/Negative	
nti-Soluble Liv	er Antigen (SLA) Antibodies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	3 weeks	
Report:	Positive/Negative	
Anti-Streptolysii	n-O (ASO)	
aboratory:	Virology, GUH	
pecimen:	7.0 mL blood in plain gel tube	
Comment:	Available in specific cases only and by prior arrangement v	with a Consultant Microbiologist.
urnaround:	1 week	
Report:	Reported in International Units. Normal Range <200 IU.	
ntithrombin (s	ee Thrombophilia Screen)	
aboratory:	Haematology, GUH	
pecimen:	2.7 mL blood in a 0.109m Sodium Citrate tube.	
Comment:	Requests should be sent to the laboratory immediately, for	
	If recieved after 1pm Mon-Fri, samples will be separated a	
	Details of anticoagulant therapy required. Must fill bottle to	o mark.
Surnaround:	5 weeks	
Ref. Range:	Refer to report	
nti-Thyroid Pe	roxidase (TPO) Antibodies	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
urnaround:	5 working days	
Ref. Range:	0 – 25 IU/ml	
nti-TSH Recep	tor Antibodies (TRAB see TSH Receptor antibodies)	
aboratory:	Biochemistry, GUH	
pecimen:	5.0 mL blood in plain gel tube	
pecimen: Comment :	Lab staff : if ordered with Anti TPO, send Anti TPO and A	nti TSH to Medlab.
pecimen:		nti TSH to Medlab.

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	nsGlutaminase (tTG) Antibodies (Coeliac Screen)	
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Comment:	IgA anti-tTG antibody test. If selective IgA deficienc	y then IgG anti-tTG test performed. Conta
—	Immunology GUH for further information	
Turnaround:	7 working days	
Ref. Range:	IgA anti tTG : 0-10 IU/ml. IgG anti-tTG : 0-7 IU/ml	
Anti-U1-RNP A		
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Turnaround:	10 working days	
Report:	Positive/Negative	
Anti-Voltage Ga	ted Calcium Channel (VGCC) Antibodies	
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
Specimen:	5.0 mL blood in plain gel tube. CSF analysis also available	
Turnaround:	6 weeks	
Report:	Positive/Negative	
Anti-Voltage Ga	ted Potassium Channel (VGKC) Antibodies	
Laboratory:	Referred to Immunology Laboratory, Churchill Hospital, C	Oxford OX3 7LJ.
Specimen:	4.0 mL blood in a plain gel tube. CSF analysis also availab	
Turnaround:	6 weeks	
Report :	Positive/Negative	
Ascitic Fluid - C	'vtology	
See " Effusions"		
Ascitic Fluid (se	e Fluid / Tissue / Pus)	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
	• Transferase (AST)	
Laboratory:	Biochemistry RUH	
•	5 mL blood in a plain gel tube	
Specimen:	June plan genting 4 hours	

Aspirates - Cytology

Urgent: 1 hour. Routine 4 hours.

On report form

Turnaround:

Ref. Range:

Aspirates - Cytolog	J
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology
Specimen:	Cells obtained from any palpable lump/mass or cyst
Comment:	Prepare immediately on site: Clearly label 2 frosted coded slides with patient name, DOB or BN. Air dry one smear, label this slide' Air Dried', and fix the second one with cytofix spray. Wash any fluid remaining in syringe/needle into green cyto fixtative in a Universal container. In the case of pathology assisted F.N.A's this collection of specimens is performed by lab staff. For pathologist assisted FNA, please telephone the laboratory to prebook. Ref FNA.
Turnaround: Report:	80% by 5 working days Neoplastic / Non-neoplastic cells

	MMON UNIVERSITY HOSPITAL	
	o: RCH/PATH/PD/001 Pathology Laboratory	Version: 16
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utoantibody To	ata	
aboratory:	Immunology, GUH	
pecimen:	5.0 mL blood in plain gel tube	
Comment:	Select specific autoantibody test(s) pending clinical picture	e. Please contact Immunology GUH.
Curnaround: equired.	1-3 weeks depending on individual autoantibody and whet	
	NA Panel – Profile includes anti-: nRNP, Sm, SS-A, Ro-52, S Nucleosomes, Histones, Ribosome-P protein and AMA-M2	S-B, Scl-70, PM-Scl, Jo-1, Centromere,
aboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	3 weeks	
Report:	Positive / Negative	
	flammatory Myopathy panel includes anti-: Mi-2 alpha, Mi- and PM-Scl75, OJ, EJ, Jo-1, PL-7, PL-12, SRP and Ro-52	-2 beta, TIF1 gamma, MDA5, NXP2, SAE1,
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Furnaround:	3 weeks	
Report:	Positive / Negative	
aboratory: pecimen: 'urnaround:	Immunology, GUH 5.0 mL blood in plain gel tube 3 weeks	
Report:	Positive / Negative	
Autoimmune Sy	Positive / Negative stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a	
Autoimmune Syand 155), Fibrill	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH	
Autoimmune Syand 155), Fibrill Laboratory: Specimen:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube	
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks	
Autoimmune Syand 155), Fibrilla Laboratory: Specimen: Furnaround:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube	
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative	
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH	nd Ro-52
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative	nd Ro-52
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH	nd Ro-52
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrill aboratory: Specimen: Curnaround: Report: Bartholin's Abso aboratory: Details: BCR-ABL aboratory: Specimen:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative cess (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment: Furnaround:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment: Furnaround:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrilla aboratory: pecimen: Purnaround: Report: Bartholin's Abso aboratory: Details: BCR-ABL aboratory: pecimen: Comment: Purnaround: Ref. Range: Bence - Jones pr	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains)	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Curnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment: Curnaround: Ref. Range: Bence - Jones pr Laboratory:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Curnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment: Curnaround: Ref. Range: Bence - Jones pr Laboratory:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains)	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml
Autoimmune Sy: and 155), Fibrill aboratory: becimen: burnaround: Curnaround: Ceport: Bartholin's Abso aboratory: Details: BCR-ABL aboratory: becimen: Comment: burnaround: Cef. Range: Bence - Jones pr baboratory: becimen:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH Early morning sample preferred. 24h urine for quantificat plain universal container for screening. Plain container, no	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml
Autoimmune Sy: nd 155), Fibrill aboratory: pecimen: 'urnaround: Report: Bartholin's Abso aboratory: Details: BCR-ABL aboratory: pecimen: Comment: 'urnaround: Ref. Range: Bence - Jones pr aboratory: pecimen: 'urnaround: Comment: 'urnaround: Comment: 'urnaround: Comment: 'urnaround: Comment: 'urnaround: Comment: 'urnaround: 'urnaround: 'urnaround:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH Early morning sample preferred. 24h urine for quantificat plain universal container for screening. Plain container, no lab	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml preservatives. Collect 24hr urine container fro
Autoimmune Sy: and 155), Fibrill Jaboratory: Specimen: Furnaround: Report: Bartholin's Abso Jaboratory: Details: BCR-ABL Jaboratory: Specimen: Comment: Furnaround: Ref. Range: Bence - Jones pr Jaboratory: Specimen: Curnaround: Ref. Range: Bence - Jones pr Jaboratory: Specimen: Curnaround: Report: Beta-hydroxybu	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH Early morning sample preferred. 24h urine for quantificat plain universal container for screening. Plain container, no lab 10 working days Positive/Negative: Typing by Immunofixation. Quantificat	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml preservatives. Collect 24hr urine container fro
Autoimmune Syand 155), Fibrill Jaboratory: Specimen: Furnaround: Report: Bartholin's Abso Jaboratory: Details: BCR-ABL Jaboratory: Specimen: Comment: Furnaround: Ref. Range: Bence - Jones pr Jaboratory: Specimen: Furnaround: Ref. Range: Bence - Jones pr Jaboratory: Specimen: Specimen: Furnaround: Report: Beta-hydroxybu See "Ketones"	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH Early morning sample preferred. 24h urine for quantificat plain universal container for screening. Plain container, no lab 10 working days Positive/Negative: Typing by Immunofixation. Quantificat tyrate	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml preservatives. Collect 24hr urine container from
Autoimmune Syand 155), Fibrill Laboratory: Specimen: Furnaround: Report: Bartholin's Abso Laboratory: Details: BCR-ABL Laboratory: Specimen: Comment: Furnaround: Ref. Range:	stemic Sclerosis Panel – Profile includes anti-Scl-70, Centro arin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR a Immunology,GUH 5.0 mL blood in plain gel tube 3 weeks Positive / Negative ress (see Swab / Pus) Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio Referred to CMD Laboratory, St James Hospital, Dublin 8 3 x 3.0 mL K ³ EDTA blood . Lab to refrigerate if not sent Test available Monday –Thursday only 120 days N/A oteins (Urine Free Light Chains) Immunology, GUH Early morning sample preferred. 24h urine for quantificat plain universal container for screening. Plain container, no lab 10 working days Positive/Negative: Typing by Immunofixation. Quantificat tyrate	nd Ro-52 ns/LM%20MDOC%200009%203%2013.pdf on same day ion and disease monitoring or minimum 15ml preservatives. Collect 24hr urine container from

PAIHUL	OGY LABORATORY	
TITLE N	o: RCH/PATH/PD/001 Pathology Laboratory	Version: 16
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urnaround:	5 working days	
ef. Range:	0.8 - 2.2 mg/l	
eta-2-Transferr	in	
aboratory:	Referred to Immunology Dept, Northern General Hospital,	Sheffield
pecimen:	5.0 mL blood in plain gel tube and ear/nasal discharge in u	
urnaround:	3 weeks	
eport :	on report form	
icarbonate aboratory:	Available on blood gas analyser	
pecimen:	Blood in a Li Heparin syringe	
urnaround:	15 mins	
ef. Range:	On report form	
ile Acids aboratory:	Clinical Biochemistry, GUH	
pecimen:	5.0 mL blood in a plain gel tube	
urnaround:	1 working day Mon to Fri	
ef. Range:	On report form	
ilirubin - Conju		
aboratory:	Clinical Biochemistry, GUH	
pecimen:	5.0 mL blood in a plain gel tube	
urnaround:	Urgent: 1hour. Priority: 3hours. Routine: 2 working days On report form	
ef. Range:	On report form	
ilirubin - Total		
aboratory:	Biochemistry, RUH	
pecimen:	5.0 mL blood in a plain gel tube	
urnaround:	Urgent: 1 hour. Routine 4 hours.	
ef. Range:	On report form	
iopsy		
aboratory:	Department of Histopathology, Cytopathology and Molecu	
pecimen:	Submit specimen intact to laboratory in 10% Neutral Buffe	red Formalin
omment:	Health & Safety precautions	
eport:	Histological diagnosis	
lood Culture		
aboratory:	Medical Microbiology, GUH	
etails:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
lood Film		
aboratory:	Haematology RUH	
pecimen:	3.0 mL K ³ EDTA blood	
omment:	Blood films will be made, examined and reported on patient	
	by this laboratory in the guidelines 'Indications for bloo	
	requests a blood film which falls outside of these guidelin	
	form provides clinical details. Some films require referral t	
urnaround:	form provides clinical details. Some films require referral t criteria laid down by lab will be referred to Haematology, C Where clinical details are supplied urgent requests for blood	GUH

Blood Gases (pH, pCO₂, pO₂, Bicarbonate, Base Excess, Total CO₂)

N/A

Report :

Diood Ouses (pi	, p = = 2, p = 2, 2 = = = = = = = = = = = = = = = =
Laboratory:	Available on Blood Gas analyser located in laboratory
Specimen:	Blood in a Li Heparin syringe
Comment:	If delay between sample collection and processing on analyser is greater than 15 minutes put on ice.
Turnaround:	15 minutes
Ref. Range:	On report form

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Blood Product for	Culture	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pd
Body Cavity Fluid	Cytology (Pleural, Peritoneal, Pericardial, Abdominal and	
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Collect fresh 10 – 20 mL specimens into twist top leak proof Shandon Cytospin Collection Fluid (green fixative solution	
Comment:	Indicate type of primary specimen and site and side of origin (e.g. left lobe BAL). Indicate clinical his on test requisition and reason for test.	
Turnaround:	80% by 5 working days	
Report:	Detection of neoplastic and non neoplastic cells	
Bone Markers	Urine N Telopeptide/GFR, Urine NTer X links, Urine O	
Laboratory:	25OH D, CTX1, P 1NP, Osteocalcin, CTX1, FGF23 (Fibro All tests referred to Clinical Chemistry Lab, St. Vincents U	
Specimen:	x3 5.0 mL blood in a plain gel tube, x2 plain urine sample, X4 3mL k ⁺ EDTA FBC samples	
Comment.	Protocol available from Laboratory	

Laboratory: Details:	Medical Microbiology, GUH Refer to <u>https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf</u>	
Body Cavity Flui	d Cytology (Pleural, Peritoneal, Pericardial, Abdominal and Ascite Fluid).	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Specimen:	Collect fresh 10-20 mL specimens into twist top leak proof 20 mL or 50 mL Universal containers containing	
~	Shandon Cytospin Collection Fluid (green fixative solution). Refrigerate overnight if necessary.	
Comment:	Indicate type of primary specimen and site and side of origin (e.g. left lobe BAL). Indicate clinical history	
Turnaround	on test requisition and reason for test. 80% by 5 working days	
Turnaround: Report:	Detection of neoplastic and non neoplastic cells	
Керон.		
Bone Markers Ionized Ca. PTH.	Urine N Telopeptide/GFR, Urine NTer X links, Urine Creat, Urine Calcium, Urine Phos. Blood : , 250H D, CTX1, P 1NP, Osteocalcin, CTX1, FGF23 (Fibroblast Growth Factor23)	
Laboratory:	All tests referred to Clinical Chemistry Lab, St. Vincents University Hospital, Elm Park, Dublin 4	
Specimen:	x3 5.0 mL blood in a plain gel tube, x2 plain urine sample, X4 3mL k+EDTA FBC samples	
Comment:	Protocol available from Laboratory.	
	Lab staff, give clinican protocol from 'Special Blood Sciences' folder. Send to lab immediatley, lab to	
_	separate and freeze (lab staff, follow protocol from St. Vincents, in Special Blood Sciences folder)	
Turnaround:	4 weeks.	
Ref Range :	On report form	
Bordetella pertus		
Laboratory:	Referred to Atypical Pneumonia Unit, Collindale Avenue, London NW9 5HT	
Specimen: Comment:	5 mL blood in a plain gel tube	
Turnaround:	Available only in very specific cases and following prior arrangement with a Consultant Microbiologist. 2-3 weeks	
Report:	Positive/Negative	
•		
Laboratory:	s (Whooping cough / Pertussis)– culture Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf	
Borrelia burgdor	feri antibodies (Lyme Disease)	
Laboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube. (For CSF-PCR see under Cerebrospinal Fluid)	
Turnaround:	1 - 2 weeks (In-house screen). Samples referred for further testing 2-3 weeks.	
Report:	Not Detected, if negative. A Provisional report will be issued on any sample giving reactive findings on	
	initial testing. These specimens are referred to the PHE, Rare and Imported Pathogens Laboratory, Porton	
	Down for further testing and a final report.	
BRAF mutation		
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Specimen:	Tissue samples already processed by the Histopathology Laboratory, arrange via consultant pathologist.	
Comment; Referrals	Testing available on request by Pathologist.	
Turnaround;	Contact the Department of Histopathology, Cytopathology and Molecular pathology on 4078 5 – 10 working days after request from Pathologist received	
Report:		
Керон.	Histopathology, Cytopathology and Molecular Pathology.	
Bronchial Brush	Specimen	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Specimen:	Sample can be spread on a glass slide, one slide may be air dried and labelled for Diff quik stain, and one slide spray fixed. Label slides and container to include name, date of birth and sample site.	
Comment:	Indicate clinical history on test requisition, and the specific site sampled.	
Turnaround:	80% by 5 working days	
Report:	Detection of neoplastic and non neoplastic cells. Detection of infectious organisms.	
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ROSCOMMON UNIVERSITY HOSPITAL	
PATHOLOGY LABORATORY	
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Bronchial Wash	Specimen
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Collect fresh specimens (0.5 - 50.0 mL) into twist top, leak proof 50 - 100 mL specimen cups. Do not add
	fixative but refrigerate if storage required. Transport to the laboratory, ASAP. Refrigerate or add fixative i
	delay unavoidable.
Comment:	Indicate clinical history on test requisition, and the reason for test.
Turnaround:	80% by 5 working days
Report:	Detection of neoplastic and non neoplastic cells. Detection of infectious organisms.
Broncho Alveola	ar lavage fluid (BAL) - Culture
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Broncho Alveola	ar lavage fluid - Cytology
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Collect fresh 0.5 – 50 mL BAL (indicate if RUL, RLL, LUL, LLL) in a twist top, leak proof 50 – 100 ml
1	specimen container. Submit to laboratory ASAP. Refrigerate or add fixative if delay unavoidable.
Comment:	Indicate clinical history on test requisition form and reason for test.
Turnaround:	80% by 5 working days
Report:	Detection of neoplastic and non neoplastic cells. Detection of infectious organisms.
Brucella abortu	s antibodies
Laboratory:	Referred to Liverpool Clinical Laboratories, Royal Liverpool and Broadgreen University Hospitals Trust
Specimen:	5 mL blood in a plain gel tube
Comment:	Available only in very specific circumstances and with prior approval of a Consultant
	Microbiologist.
Turnaround:	2-3 weeks
Report:	Negative/Positive.
Bursa Fluid	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
CA 125	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Priority : 1 working day. Routine : 2 working days
Ref. Range:	On report form
CA 15-3	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
CA 19-9	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
Cadmium	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Randon urine and/or 2ml whole blood EDTA or Lithium Heparin. Lab to refrigerate
Turnaround:	
Ref. Range:	1 – 3 weeks On report form
Calcitonin	
Laboratory:	Referred to Endocrinology Laboratory, Mater Misericordiae Hospital, Eccles Street, Dublin 7.
Specimen:	5.0 mL blood in a plain gel tube sent to lab immediately, lab to separate and freeze
Comment:	Send fasting specimen. Must be separated and frozen within 15 minutes of phlebotomy.
	This is an internal DIIII controlled document that is desired for sufficient is in
	This is an internal RUH controlled document that is designed for online viewing.

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	MMON UNIVERSITY HOSPITAL LOGY LABORATORY	
User Ma	No: RCH/PATH/PD/001 Pathology Laboratory	Version: 16
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Furnaround:	1-3 weeks	
Ref. Range:	On report form	
Calcium		
Laboratory:	Biochemistry, RUH	
Specimen:	5.0 mL blood in a plain gel tube	
Turnaround:	Urgent: 1 hour. Routine 4 hours.	
Ref. Range:	On report form	
Calcium -ionised	I	
Laboratory:	Available on Blood Gas analysers located in laboratory	
Specimen:	Blood in a balanced heparin syringe	
Comment:	Process within 15 minutes of collection	
Turnaround:	15 mins	
Ref. Range:	On report form	
Calcium (Urine)		
Laboratory:	Biochemistry, RUH	
Specimen:	24 hour acidified (20-30ml acid needed) urine collection or	•
-	Spot sample in plain container to arrive in lab within 2 hou	rs of collection
Turnaround:	1 working day	
Ref. Range:	On report form	
Calcium Excreti	on (Calcium :Creat ratio)	
Laboratory:	Biochemistry, RUH	
Specimen:	Fasting urine sample in plain container to arrive in lab with	in 2 hours of collection, 5.0 mL blood in a pla
•	gel tube. Obtain protocol from laboratory, lab staff to follo	
Turnaround:	1 working day	
Ref. Range:	On report form	
	ctin, Calprotectin/Elastase profile	
Laboratory:	Referred to Eurofins SCDL	
Specimen:	Random faeces	
Furnaround:	1-3 weeks	
Ref. Range:	On report form	
Cannabis		
See "Toxicology	Screen"	
Carbamazepine		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5.0 mL blood in a plain gel tube	
Comment:	Take specimen immediately before next dose (trough speci	man)
Comment: Turnaround:	1 wook	

Turnaround: Therapeutic range: 1 week

On report form

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Laboratory :	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Carboxyhaemog	lobin
Laboratory:	Available on Blood Gas analysers located in UCC
Specimen:	Blood in a Heparinised syringe
Turnaround:	15 minutes
Ref. Range:	On report form
Cardiac biopsy	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions.
Report:	Histological diagnosis
Carotene	
See "Vitamin A"	
Catecholamines	Fractionated Metanephrines (Adrenaline/Noradrenaline/Dopamine/Metanephrine/Normetanphrine/3-
methoxytyramin	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Urine catecholamines : 24 hour urine collection. Collect container from lab
1	Plasma catecholamines : Lithium Haparin sample, send to lab immediately, must be separated and frozen
Turnaround:	1-3 weeks
Ref. Range:	On report form
Catheter / Intra	vascular Cannulae / Tips
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Cat Scratch Dise	ease Antibodies
See "Bartonella h	
CEA	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5. 0 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
Cerebrospinal F	luid (Molecular analysis for Pathogens)
Laboratory:	Medical Microbiology GUH: - referred to Irish Meningococcal and Streptococcal Reference Laborato
	/National Virus Reference Laboratory when unavailable on site.
	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Details:	
	luid – Culture / Microscopy
Details: Cerebrospinal F Laboratory:	luid – Culture / Microscopy Medical Microbiology, GUH

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Cerebrospinal F	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	3ml – 20 mL cerebral spinal fluid, lumbar puncture or ventricular tap in a 20 mL universal container
	Refrigerate overnight if necessary as the cells are sensitive to temperature and cellular degeneration occur
	if left at room temperature for extended periods of time.
Comment:	Indicate clinical history on test requisition and reason for test. Submit immediately to laboratory. Fixativ
	may NOT be added if specimen is to be shared with microbiology for assessment. Please submit t
	microbiology department directly and request Urgentpersonal delivery directlyfrom Microbiology fo
	subsequent Cytological assessment. Please note there is no on call or emergency out of hours servic
	available in the Diagnostic Cytology laboratory. Specimens must be received by 16:00 h for same da
	processing. There is no weekend service available in Diagnostic Cytology.
	Note: Cytology will not be performed on a ?CJD or a CJD sample
Turnaround:	Microscopy 2 hrs once received in GUH, culture 3 days
Report:	Microscopy and culture
Cerebrospinal F	luid - Clucoso
Laboratory:	Clinical Biochemistry, GUH
Specimen:	1.5 mL CSF specimen
Comment:	Send all CSF samples to Micro for processing, send simultaneous plasma glucose specimen
Turnaround:	1-3 hours
Ref. Range:	CSF Glucose level is normal approximately two thirds of the plasma glucose value
Cerebrospinal F	luid - Protein
Laboratory:	Clinical Biochemistry, GUH
Specimen:	1.5 mL CSF specimen
Comment:	Send all CSF samples to Micro for processing
Turnaround:	1 - 3 hours
Ref. Range:	On report form
Cerebrospinal F	luid – Oligoclonal bands and CSF IgG Index
Laboratory:	Immunology, GUH
Specimen:	Minimum of 0.5mL of CSF specimen and 5.0 mL blood in plain gel tube
Turnaround:	3 weeks
Report:	See report form including interpretative comment
Cerebrospinal F	luid Shunt
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Ceruloplasmin	
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 working days
Ref. Range:	Male : 0.15-0.3 g/l Female : 0.16-0.45 g/L
Cervical Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Chlamydia pneu	imoniae Serology
Laboratory:	Referred to The National Virus Reference Laboratory, Dublin.
Specimen:	5.0 mL blood in a plain gel tube
Comment:	By prior arrangement with Microbiology Medical Staff, GUH
Turnaround:	1-3 weeks

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Chlamydia psitta	nci Antibodies
Laboratory:	Referred to Health Protection Agency, Bristol BS2 8EL
Specimen:	5.0 mL blood in a plain gel tube
Comment:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.
Turnaround:	2-5 working days
Report:	Detected / Not Detected
Chlamydia trach	omatis (PCR)
Laboratory:	Virology, GUH
Specimen:	Abbott Multicollect swab preferably delivered to the laboratory within 24 h of collection.
Comment:	If delay refrigerate @ 2-8°C.
Turnaround:	10 working days
Report:	Detected / Not Detected
Chloride	
Laboratory:	Biochemistry, RUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Urgent: 2 hour. Routine 4 hours.
Ref. Range:	On report form
Chloride (Urine)	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	24hr urine collection, plain. Collect container from lab
Turnaround:	1 working day
Ref. Range :	On report form
Cholesterol	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Comment:	Ideally a patient should fast for 12 hours.
Turnaround:	Urgent: 1hour. Priority: 3hours. Routine: 2 working days
	ESCG Target Value:Standard <5.0mmol/L High-Risk <4.0mmol/L
Cholesterol/HDL	. Ratio
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Comment :	Calculated parameter
Turnaround:	Urgent: 1hour. Priority: 3hours. Routine: 2 working days
Interpretation:	High risk >5.0, desirable <3.5.
Chromogranin A	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Red top sample, no gel separator, available from lab
Turnaround:	1-3 weeks
Ref. Range:	On report form
Chromosomal An	•
Refer to Cytogene	etics
Clostridium diffi	cile Toxin B gene detection
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

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Referred directly from Psychiatry dept to external laboratory

Clozapine (Clozaril)

Laboratory:

Specimen: 6 mL K⁺ EDTA blood (x2 FBC) Turnaround: 1-3 weeks Therapeutic Range: On report form Coagulation Factor Assays (incl Factors - II, V, VIII, VIII:C, IX, XI, XII, and FX) Laboratory: Haematology, GUH 2 x 2.7 mL blood specimens in 0.109m Sodium Citrate tubes Specimen: Comment: Prior arrangement with the coagulation laboratory GUH contact 091 544995. It is important that the specimen container is filled to the mark. Turnaround: 1 day for routine specimens. Telephoned requests (to GUH) for faster turnaround time can be accommodated when specifically requested. Ref. Range: See individual assay **Coagulation Screen** Laboratory: Haematology, RUH Specimen: 2.7 mL blood specimens in 0.109m Sodium Citrate tubes. Do not refrigerate specimen. Comment: Profile includes, PT, INR, Fibrinogen and APTT. Details of anticoagulant therapy required. Must fill bottle to mark. Turnaround: Urgent: 1 hour. Routine 4 hours. Ref. Range: Refer to report Cocaine See "Toxicology" **Coeliac Screen** See 'Anti-Tissue TransGlutaminase (tTG) Antibodies' **Cold Agglutinins** Blood & Tissue Establishment, GUH Laboratory: Specimen: 6.0 mL EDTA K²E blood Comment: Specimen needs to be transported to the Blood & Tissue Establishment, GUH in a flask at 37°C before 15.30 Turnaround: Within 12 h Ref. Range: N/A **Complement: C1 Esterase Inhibitor** Laboratory: Immunology, GUH Specimen: 5.0 mL blood in plain gel tube Turnaround: 5 working days 0.15 - 0.43 g/L Ref. Range: **Complement: C1 Esterase Inhibitor Functional Assay** Immunology, GUH Laboratory: Specimen: 5.0 mL blood in plain gel tube.

 Specimical
 Sto init brook in plan get tabe.

 Comment:
 Must arrive in Immunology on the same day it was taken . Time and date of collection must be stated on request form.

 Turnaround:
 5 weeks

 Ref. Range:
 70-130%

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I

Complement: C	1q
Laboratory:	Referred to Immunology Dept, Northern General Hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Comment :	Specimen referred for testing if CH100 functional activity is abnormal.
Turnaround:	11 weeks
Ref. Range:	Refer to Report
Complement: C	2/C5/C6/C7/C8/C9
Laboratory:	Referred to Immunology Dept, Northern General Hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Comment:	Only if abnormal CH100 or CH100A Functional Activity
Turnaround:	6 weeks
Ref. Range:	On report form including interpretative comment
Complement: C	
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 working days
Ref. Range:	C3: $0.75 - 1.86 \text{ g/L}$
Ker. Kunge.	C4: $0.13 - 0.49 \text{ g/L}$
Complement: C	3 Nephritic Factor
Laboratory:	Referred to Immunology Dept, Northern General Hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	6 weeks
Report:	Positive/Negative
	1 Oshivo/ Nogativo
Complement: C Pathway)	H100 (Total Haemolytic Complement) Functional Activity CH100 (Total) and CH100A (Alternate
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Comment:	Must arrive in Immunology on the same day it was taken . Time and date of collection must be stated on the
	request form.
Turnaround:	5 weeks
Ref.range:	Refer to report form
Conjunctivitis (I	Bacterial Culture)
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Conjunctivitis (Chlamydia trachomatis)
Laboratory:	Virology, GUH
Specimen:	Swab of conjunctiva in Abbott Multicollect tube.
Comment:	If delay refrigerate @ 2-8°C.
Turnaround:	10 working days
Report:	Detected / Not Detected
Connective Tiss	ue Disease screening
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 working days
Report:	On report form
Toport.	
Copper	
T 1 4	

Laboratory:Referred to Eurofins SCDLSpecimen:5.0mL blood in royal blue trace element tube , available from laboratory. Lab to refrigerateTurnaround:5 daysRef. Range:On report form

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Copper (Urine)		
Laboratory:	Referred to Eurofins SCDL	
Specimen:	24 hour urine sample (plain). Lab to refridgerate	
Turnaround: $1-3$ weeks		
Ref. Range:	On report form	
Cortisol (Synact	hen Test)	
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5.0mL blood in a plain gel tube	
Turnaround:	Priority: 1 working day. Routine: 2 working days	
Ref. Range:	On report form	
Cortisol (Urine)		
Laboratory:	Referred to Eurofins SCDL	
Specimen:	24 hour urine collection, plain	
Turnaround:	1-3 weeks	
Ref. Range:	On report form	
COVID-19 see S	ARS	
See "SARS CoV-	2 (DCD) "	

Laboratory:	Referred to the Health Protection Agency, South West Laboratory, Bristol
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	2-3 weeks.
Report:	See report form including interpretative comment.

Coxsackie B Virus

See "Enterovirus"

C Peptide

· · · ·	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0mL fasting blood in a plain tube delivered immediately to the laboratory. Lab must separate and freeze
Turnaround:	1 week.
Ref. Range:	On report form

Creatine Kinase (CK)

(-	1
Laboratory:	Biochemistry, RUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form

Creatinine	
Laboratory:	Biochemistry, RUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form

Creatinine (Urine)

· · · · · · · · · · · · · · · · · · ·	
Laboratory:	Biochemistry, RUH
Specimen:	24 hour urine sample, plain
Turnaround:	1 working day
Ref. Range:	On report form

Creatinine Clearance

Laboratory:	Clinical Biochemistry, GUH
Specimen:	24 hour urine in plain container and 5mL blood in plain gel tube taken at some point during the urine
	collection. It is important that the blood and urine are received in the laboratory as a matched pair.
Turnaround:	1 working day
Ref. Range:	On report form
Interpretation:	Creatinine clearance may be higher during normal pregnancy due to glomerular hyperfiltration.
-	

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Creutzfeld-Jako	b Disease (CJD, 14-3-3 Protein)	
Laboratory:	Medical Microbiology, GUH: Referred to Beaumont Hosp	ital and then onwards to Edinburgh
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
CRP (C Reactiv	e Protein)	
Laboratory:	Biochemistry, RUH	
Specimen:	5.0 mL blood in a plain gel tube	
Turnaround:	Urgent: 1 hour. Routine 4 hours.	
Ref. Range:	On report form	
Cryoglobulins		
Laboratory:	Immunology, GUH	
Specimen:	10mL blood in plain tube (provided by Immunology lab),	
	at 37°C. Contact laboratory who will provide suitable flask	
Comment:	Requests accepted Mon – Thurs 8h-16h. Friday 8h -13h. M	lay not be possible to transfer sample from RUH
F 1	clinican must contact Immunology GUH for advice	
Furnaround:	8 working days Positive/Negative.	
Report:	If positive then quantified by Cryocrit and typed by Immur	ofixation
Cryptococcal A		
Laboratory:	Virology, GUH	
Specimen:	5.0 mL blood in a plain gel tube Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	
Comment: Turnaround:	1 week	or approval of a Consultant Microbiologist.
Report:	Detected/Not Detected	
Cryptosporidiu Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
		10/2/17/2011/ 0 0 / 20000 / 7/202 / 2013/par
•	ic acid assessment tes Department of Histopathology, Cytopathology and Molecula	ar Dathology
		ar ramology
	& Microscopy / Glucose / Protein / Lactate	
See "Cerebrospir	nal Fluid – Culture & Microscopy / Protein / Glucose / Lactate"	
CSF – Oligoclor	al bands and CSF IgG Index	
See "Cerebrospir	nal Fluid – Oligoclonal bands and CSF IgG Index"	
CSU – Catheter	Urine	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
Curettings		
-	Department of Historiathology, Cytoriathology and Mology	lar Pathology, GUH
Laboratory: Specimen:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Comment:	Submit specimen to laboratory in 10% Neutral Buffered Formalin. Health & Safety precautions	
Report:	Histological diagnosis	
CV2/ CRMP5 Laboratory:	Referred to Immunology Department, Churchill Hospital,	Oxford OX3 7L I
Laboratory.	5.0 mL blood in plain gel tube. CSE analysis also available	ONIDIA OND / LJ

5.0 mL blood in plain gel tube. CSF analysis also available. Specimen: Turnaround: 6 weeks Report: Positive/Negative

Cyclosporin (Neoral)

Laboratory:	Clinical Biochemistry, GUH
Specimen:	4.0 mL K ⁺ EDTA whole blood (x2 EDTA FBC samples)
Comment:	Collect sample pre-dose. State date/time of sample collection clearly on request form.
Turnaround:	1 week
Ref. Range:	Patient specific
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Cystic Fibrosis – Laboratory:	Referred to Department of Clinical Genetics, CHI, Crumlin, Dublin.
Specimen:	5.0 mL EDTA whole blood. (x2 EDTA FBC samples)
Comment : It is <u>mandatory</u> for all requests to be accompanied by a fully completed CHI Genetic r	
comment.	critical the informed consent section is completed. Testing will not be carried out if forms are not completed
	fully. A CF patient information request form (CF PID), may be submitted, CHI request forms can be
	download from www.olchc.ie
Turnaround:	Up to 10 weeks
Report:	Refer to report- including interpretative comment
Cyst Fluid	
Department of Hi	stopathology, Cytopathology and Molecular Pathology. Please refer to Aspirates/ effusions
Cytogenetics: Cl	rromosome Analysis / KaryotypingAdults (age >5 years)
Laboratory:	Referred to Eurofins SCDL (Mon – Thurs service)
Specimen:	5.0 mL of blood in Lithium Heparin tube (to be kept at room temperature only)
Comment:	MedLab request form to be submitted with samples for testing (available at www.sonichealthcare.ie
	Clinical details must be provided.
Turnaround:	15 working days (MedLab)
Report:	Refer to report- including interpretative comment
	icroarray / aCGH
Laboratory:	Referred to Department of Clinical Genetics, OLCH, Crumlin
Specimen:	5.0 mL of blood EDTA (x2 EDTA FBC samples)
Comment :	It is <u>mandatory</u> for all requests to be accompanied by a fully completed CHI Genetic request form. It is
	critical the informed consent section is completed. Testing will not be carried out if forms are not completed
Turnaround:	fully. CHI request forms can be download from www.olchc.ie up to 5 weeks
Report:	Refer to report- including interpretative comment
	s (CMV-DEAFF)
Laboratory:	Referred by RUH Laboratory to the National Virus Reference Laboratory, Dublin.
Specimen:	Freshly voided urine
Turnaround:	1-3 weeks
Report:	Positive/Negative
Cytomegalovirus	
Laboratory:	Referred to the National Virus Reference Laboratory, Dublin
Specimen:	8ml K2EDTA Greiner tube
Comment:	Specimens must be delivered directly to lab for immediate dispatch to National Virus Reference Laboratory
T 1	Dublin .Request must be approved by the Microbiology Medical Staff, GUH.
Turnaround:	1 – 3 weeks Detected/Not Detected
Report:	Detected/Not Detected
	s (CMV) IgG / IgM Antibodies
Laboratory:	Virology, GUH
Specimen:	5.0 ml blood in a plain gel tube
Turnaround:	1-2 days Detected / Not Detected
Report:	
	s (CMV – PP65 Antigenaemia)
I THORE IN TORUS	Referred to the National Virus Reference Laboratory, Dublin 5.0 mL blood in an EDTA tube
Laboratory:	
Specimen:	
•	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Please call Microbiologist GUH to discuss if this test is required.
Specimen:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Pleas
Specimen: Comment:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Pleas call Microbiologist GUH to discuss if this test is required.
Specimen: Comment: Turnaround: Report:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Please call Microbiologist GUH to discuss if this test is required. 1-3 weeks Positve/Negative
Specimen: Comment: Turnaround: Report: Cytotoxic Antibo	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Pleas call Microbiologist GUH to discuss if this test is required. 1-3 weeks Positve/Negative odies (solid organ transplantation)
Specimen: Comment: Turnaround: Report:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Pleas call Microbiologist GUH to discuss if this test is required. 1-3 weeks Positve/Negative
Specimen: Comment: Turnaround: Report: Cytotoxic Antibo Laboratory:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Pleas call Microbiologist GUH to discuss if this test is required. 1-3 weeks Positve/Negative dies (solid organ transplantation) Referred to Tissue Typing Laboratory, Immunology, Beaumont Hospital, Dublin.

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pecimen:	5 ml blood in plain gel tube		
Turnaround:	4 weeks		
Ref range:	Refer to report form		
)-Dimers			
aboratory:	Haematology, RUH		
pecimen:	2.7 mL blood in a 0.109m Sodium Citrate tube. Specime specimen sufficient for D-Dimer and Coagulation screen.	n must be tested within 2 hours of draw. C	
'urnaround: lef. Range:	Urgent: 1 hour. Routine 4 hours. Refer to report		
) Dengue fever An	tibodies		
aboratory:	Referred to the National Virus Reference Laboratory, Dubl	in.	
Specimen:	5.0 mL blood in a plain gel tube.		
Comment:	Available only in very specific circumstances and with price	or approval of a Consultant Microbiologist.	
urnaround:	1-3 weeks	C C	
Report:	Positive/Negative		
Dermatophytosi	3		
aboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	<u>ls/LM%20MDOC%200009%203%2013.pdf</u>	
OHEA Sulphate			
aboratory:	Referred to Eurofins SCDL		
pecimen:	5.0 mL blood in a plain tube. Lab to refrigerate		
urnaround:	3 weeks		
Ref. Range:	On report form		
Digoxin			
aboratory:	Clinical Biochemistry, GUH		
Specimen:	7.0 mL blood in a plain gel tube		
Comment:	Take specimen six hours post dose, Hypokalaemia is ass		
- 1	Potassium should always be measured when digoxin toxici	ty is suspected.	
furnaround:	Urgent: 1hour. All other requests: same day		
Therapeutic Ran	ge: On report form		
· • •	ine Dehydrogenase (DPD) Activity		
Laboratory:	Referred to Purine Laboratory, 4th Floor, North Wing, St. 7	'homas's Hospital, Lambeth Place Road, Long	
	SE1 7EH, England		
specimen:	x2 FBC blood, and a urine specimen		
Turnaround:	1-3 weeks		
Report:	See report form		
-	aure of Throat swab)		
Laboratory:	Medical Microbiology, GUH Refer to https://www.soulta.io/sites/default/files/publication	AND	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	<u>15/Livi%201v1DOC%20009%203%2013.pdf</u>	
Direct Coombs 7			
Laboratory:	Blood & Tissue Establishment GUH		
pecimen:	6.0 mL EDTA K ² E blood		
Curnaround:	1 day		
Ref. Range:	N/A		
Dopamine			
ee "Catecholam	ines/Fractionated Metanephrines"		
uodenal Aspira			
aboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	<u>18/LM%20MDOC%200009%203%2013.pdf</u>	
uodenal Smear	for Giardia intestinalistrophozoites.		
aboratory:	Medical Microbiology, GUH		
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Ear Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Echinococcus (H	(ydatid cyst) antibodies
Laboratory:	Referred to Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	7.0 mL blood in a plain gel tube
Comment:	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.
Turnaround:	2-3 weeks
Report:	Positive/Negative
Ecstacy	
See "Toxicology	Screen"
Effusions	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Collect 10-20 ml fresh specimen into a twist top leak proof 20ml or 50 ml sample bottle containing Shandor
	Cytospin collection fluid (green fixative solution available from Laboratory). Refrigerate overnight i
	necessary
Comment:	Indicate clinical history on test requisition, and reason for test. Do not submit drainage bags or large volumes
	of fluid for disposal in Laboratory
Turnaround:	80% by 5 working days.
Report:	Detection of neoplasticand non neoplastic cells
eGFR	
Laboratory:	Biochemistry, RUH
Specimen:	7.0 mL blood in plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Comment :	Calculated parameter
Interpretation:	On report form
EGFR Mutation	analysis
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Tissue samples already processed by the Histopathology Laboratory, arrange via consultant pathologist.
Comment:	Testing available on request by Pathologist.
Referrals	Contact the Department of Histopathology, Cytopathology and Molecular pathology on 091 544078
Turnaround:	5 – 10 working days after request by Pathologist received.
Report:	Integral part of Histopathology report issued by Division of Anatomic Pathology, Department of
Electron Micros	Histopathology, Cytopathology and Molecular Pathology.
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Tissue
Comment:	Discuss with appropriate Consultant Histopathologist at least 24 hours in advance of surgery.
Report:	Histological diagnosis
•	
Endocervical Sw Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Dotums.	here to integrat www.sublane.shes/default/mes/publications/Eur/22000007/02007/02015.pdf

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Enterobius verm	icularis (Sellotape slide for Pinworms)
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Enterovirus (PC	R)
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Enstein – Barr V	/irus (EBV) Antibodies
Laboratory:	Virology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1 - 2 days
Report:	Detected/Not Detected
•	
Erythropoietin	
Laboratory:	Referred to Eurofins SCDL.
Specimen:	5 mL blood in a plain gel tube, lab to separate and freeze
Turnaround:	2 weeks
Ref. Range:	Refer to report
	9 IgM + IgG antibodies
Laboratory:	Referred to GUH
Specimen:	5 mL blood in a plain gel tube. Available only in specific circumstances, contact Virology GUH.
Turnaround:	7 days
Report:	Postivie/Negative
ESR (Erythrocy	te Sedimentation Rate)
Laboratory:	Haematology, RUH.
Specimen:	Minimum 2mls blood in EDTA purple top tube for ESR and FBC
Turnaround:	1 day routine specimens. Telephoned requests for faster turnaround time can be accommodated o
	particularly urgent specimens
Ref. Range:	Refer to report
Extended Spectr	rum Beta Lactamase (ESBL) culture
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Eye Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Factor Inhibitor	Studies
Laboratory:	Haematology, GUH
Specimen:	3 x 2.7 mL blood in a 0.109m Sodium Citrate tube
Comment:	Prior arrangement with coagulation laboratory, GUH necessary. Must fill bottle to mark.
Furnaround:	1 week
Ref. Range:	N/A
Factor V Leiden	
Laboratory :	Referred to NCHCD, St James' Hospital, Dublin
Specimen :	5.0 ml blood in EDTA tube (x2 FBC)
Comment :	APCR <2 or positive lupus only will be sent to SJH for testing. This must be written on the Haematolog
	request form. A signed patient consent form for genetic testing is required by the laboratory before analysi
D -	can be processed.
Turnaround : Ref Range :	

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	Essael Colonatoria Electore madile	
Laboratory:	Faecal Calprotectin Elastase profile Referred to Eurofins SCDL	
Specimen:	Random faeces	
Turnaround:	1-3 weeks	
Ref. Range:	On report form	
Faecal Occult B		
Laboratory:	Laboratory, RUH Random faeces	
Specimen:		
Turnaround:	1 day	
Ref. Range:	On report form	
	lar analysis, Microscopy, Culture and Antigen Detection	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
Farmers Lung A	Antibodies (Micropolyspora Faenii)	
Laboratory:	Referred to PHL, Cumberland Infirmary, Carlisle CAZ 7H	Y
Specimen:	7.0 mL blood in a plain gel tube	
Comment:	Available only in specific circumstances and with prior app	proval of a Consultant Microbiologist, GUH
Turnaround:	2-3 weeks	
Report:	Positive/Negative	
FDP's (Fibrinog	en degradation products)	
Laboratory:	Haematology, GUH	
Specimen:	2.0 mL blood in special FDP bottle supplied on request by	coagulation laboratory. GUH
Comment:	Must fill bottle to mark	
Turnaround:	1 day	
Ref. Range:	Refer to report	
Ferritin	•	
Laboratory:	Haematology, RUH	
Specimen:	5.0 mL blood in a plain gel tube	
Turnaround:	1 day	
Ref. Range:	Refer to report	
	*	
Filaria Antibodi		641
Laboratory:	Referred to Hospital for Tropical Diseases, London WCIE	UAU
Specimen:	7.0 mL blood in a plain gel tube	rough of a Congultant Microbiologist CIII
Comment: Turnaround:	Available only in specific circumstances and with prior app	noval of a Consultant Microbiologist, GUH
	2 – 3 weeks	
Report:	Positive/Negative	
-	iration Biopsy - FNAB	
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Submit specimen to laboratory in 10% Neutral Buffered Fo	ormalin.
Turnaround ·	80% by 5 working days	

- 80% by 5 working days Histological diagnosis Turnaround :
- Report:

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Fine Needle Aspirates (FNAS) of breast, thyroid, axilla, parotid, submandular, lymph node and cysts.

	mates (FrAs) of breast, inyrout, axina, particul, submandular, tympi note and cysts.
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Superficial and deep seated lesions. Deep seated lesions that need ultrasonic, CT or fluoroscopic guidance
	may be required. Use a $22 - 25$ gauge fine needle and a $10 - 20$ mL syringe for collection of specimen.
	Clearly label two frosted glass slides with patients name, DOB, and /or BN. Prepare thin even smears. For
	optimal diagnosis, air dry one slide for diff quik stain, please label as 'Air Dried. Immediately after
	preparation, spray a complete even coating of Cell-Fixx onto the other slide(s) from a distance of $25 - 30$ cm
	(10 - 12 inches). Fixed slides should be labelled in pencil with patient Name DOB and or BN. Labelling
	should be carried out before spray fixing. Fixed and air dried slides should be placed in slide mailers clearly
	labelled on the outside with patient's addressograph. Needle wash may be collected into Shandon Cytospin
	Collection Fluid in a Universal container green fixative solution and submitted to the laboratory for
	processing. Please indicate exact location of sample site on request form and specimen container. Pathologist
	assisted FNAs must be prebooked by contacting the laboratory office 091 544078 / 4492 or Cytology
	laboratory Prep 091 544883. Contact with Pathologist rostered on Cytology may also be made via GUH
	switchboard.
Comments	
Comment:	Additional Sample may be taken for Flow cytometry if clinically indicated
Turnaround:	80% by 5 working days
Report:	Correlated with clinical presentation. Allow on site evaluation, rapid turn a round time.
Flow Cytometry	r (Immunotyping of Leukaemias and Lymphomas)
Laboratory:	Haematology, GUH
Specimen:	3.0 mL K ³ EDTA blood or Bone Marrow aspirate in EDTA or Lymph Node Biopsy in RPMI
Comment:	Prior arrangement with consultant Haematologist or SPR
Turnaround:	3 - 5 days
Report:	Contact Consultant Haematologist.
FLT3 – Mutatio	n
Laboratory:	Referred to CMD Laboratory, St James Hospital, Dublin 8.
Specimen:	3.0 mL K ³ EDTA blood, or Bone Marrow in RPMI.
Comment:	Arrange through Haematology Registrar, or Consultant Haematologist, GUH
Turnaround:	1 Month
Report:	See report form.
FISH, HER-2 St	atus Evaluation
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Tissue samples already processed by the Histopathology Laboratory, on Request from Consultant Pathologist
only.	
Comment:	Testing available on request by Pathologist.
Turnaround;	5 - 7 working days after request from Pathologist received
Report:	Integral part of Histopathology report issued by Division of Anatomic Pathology
Folate (Serum)	
Laboratory:	Haematology, RUH
Specimen:	5.0 mL blood in a plain gel tube.
Turnaround:	1 day
Ref. Range:	Refer to report
Fragile X Chron	
Laboratory:	Referred to Department of Clinical Genetics, CHI, Crumlin
Specimen:	5.0 mL blood in EDTA tube (x2 FBC)
Comment :	It is mandatory for all requests to be accompanied by a fully completed CHI Genetic request form. It is
	critical the informed consent section is completed. Testing will not be carried out if forms are not completed
	fully. CHI request forms can be download from www.olchc.ie Turnaround: up to 26 weeks
Ref Range :	See report- including interpretative comment

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Laboratory: Referred to Eurofins SCDL Specimen: 5.0 mL blood in a plain gel tube. Lab to refrigerate Turraround: 1 day Ref. Range: Refer to report Free light chains 1 Laboratory: Immunology, GUH Specimen: 5.0 mL blood in plain gel tube Turnaround: 10 working days Ref. Range: Kappa light chains 5.3 – 19.4 mg/L Lambda light chains 5.7 – 26.3 mg/L Kappa / Lambda Ratio 0.26 – 1.65 Kappa / Lambda Ratio 0.26 – 1.65 Specimen: Submit specimen intact to laboratory UNFIXED. Comment: Lymph nodes for query lymphoma, Frozen section and Muscle biopsy to be confirmed with Consultant Histopathology alboratory staff at least 24 hours in advance. Health & Safety precautions Report: Histopathology, Cytopathology and Molecular Pathology, GUH Specimen: Sec "Thyroxine" Free T4 E Laboratory: Department of Histopathology, Cytopathology and Molecular Pathology, GUH Specimen: Free N issue Turnaround: Same day Comment: Lymph nodes cetion 24 hours in advance. Skin biopsies and renal biopsies for DIF to be confirme	Fructosamine		
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Histopathologist on frozens at least 24 hours in advance. Skin biopsies and renal biopsies for DIF to be confirmed with Histopathology laboratory staff at least 24 hours in advance. Health & Safety precautions Report: Histological diagnosis Free T4 See "Thyroxine" Frozen Sections Laboratory: Department of Histopathology, Cytopathology and Molecular Pathology, GUH Specimen: Fresh tissue Turnaround: Same day Comment: Avoid if there is a danger of infection e.g if tuberculosis is strongly suspected. Frozen sections will not be done where there is a danger of infection. Alternative approaches to rapid diagnosis can be discussed with the Consultant rostered on 'frozens'. Prior Arrangement: Please book frozen section 24 hours in advance with the Consultant Histopathologist rostered for 'frozens' (091 544589). If possible put the operation at the beginning of the operation list. If the operation is delayed or if it is subsequently found that the frozen section is not required, please notify the Histopathology Department without delay at 091 544589. The unfixed tissue sample is transported directly to the laboratory by portering staff in a fully labelled container accompanied by a fully completed request form. Include contact details for immediate call back of frozen section result. Tissue for frozen section must be handed directly to a Medical Scientist, NCHD or Consultant Histopathologist. Unbooked Frozen Sections: Frozen sections that are required but not booked during the 'normal working hours' (09:00-17:00 h) must be discussed with the Consultant Histopathologist. Unbooked Frozen Sections that are required but not booked during the 'normal working hours' (09:00-17:00 h) must be discussed with the Consultant Histopathologist rostered for 'frozens' before any samples are taken. Report: Histological diagnosis FSH Laboratory: Clinical Biochemistry, GUH Specimen: SmL blood in a plain gel tube			
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FSH Laboratory: Clinical Biochemistry, GUH Specimen: 5mL blood in a plain gel tube	D		
Laboratory:Clinical Biochemistry, GUHSpecimen:5mL blood in a plain gel tube	Report:	Histological diagnosis	
Specimen: 5mL blood in a plain gel tube	FSH		
	Laboratory:	Clinical Biochemistry, GUH	
	Specimen:	5mL blood in a plain gel tube	
I urnaround: Priority: 1 working day. Routine: 2 working days	Turnaround:	Priority: 1 working day. Routine: 2 working days	
Ref. Range: On report form	Ref. Range:	On report form	

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Full Blood Count	
Laboratory:	Haematology, RUH
Specimen:	3.0 mL K3 EDTA blood, (1.0 mL Paediatric tubes are available).
Comment:	After 24 hours, WBC differential and red cell indices are affected by EDTA changes. Ensure samples are
	not taken from a drip site as this results in dilution of the sample. In cases of platelet clumping special sample
	bottles (thrombo exact) are available upon request. For use in platelet counting only.
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	Refer to report
Fungal Microscop	•
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
G6PD Quantitatio)n
Laboratory:	Referred to Special Haematology, St James Hospital, Dublin 8
Specimen:	3.0 mL K ³ EDTA blood
Turnaround:	2 weeks
Ref. Range:	See report form
Galactomannan a	
Laboratory:	Referred to the Department of Microbiology, St. James' Hospital, James Street, Dublin 8
Specimen:	5 mL blood in plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	1-2 weeks
Report:	Positive/Negative
Gamma-glutamvl	-transferase (γ-GT)
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Gastrin	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Fasting for a minimum of 10-12 hrs. 5 mL blood in a plain gel tube sent to the lab immediately, lab must
TE 1	separate and freeze
Turnaround:	1 - 3 weeks
Ref. Range:	On report form
Gastrointestinal T	Tract Hormones (GIT Hormones): incl. Pancreatic Polypep, C-Term Glucagon, Vasoactive Polypep,
Somatostatin and	CART
Laboratory:	Clinical Biochemistry: - referred to external laboratory for analysis
Specimen:	x2 3ml K ⁺ EDTA blood per hormone assay, send to lab immediately, lab must separate and freeze. Lab
	staff : see 'special Blood Sciences' folder
Turnaround:	1-3 weeks
Ref. Range:	On report form
Genital Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to <u>https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf</u>
Gentamicin/Genti	
Laboratory :	Clinical Biochemistry, GUH
Specimen :	5 mL blood in a plain gel tube. Delay >2h refrigerate @2-8°C.
Comment :	State time collected and if Peak or Trough specimen
Turnaound :	Analysed during routine working hours only.
Therapeutic Range	: On report form

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Glucagon

See "Gastrointestinal Tract Hormones"

See Gustronnest	
Glucose	
Laboratory:	Biochemistry, RUH
Specimen:	4.0 mL Fluoride Oxalate blood
Comment :	Fasting : Ideally a patient should fast for 12 hours. However, if a patient in unable or unwilling to fast for 12
	hours a specimen taken after a 9 hour fast is acceptable.
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Group and Cros	smatch
Laboratory:	Blood Transfusion Laboratory RUH
Specimen:	EDTA K ² E 6.0 mL blood
Turnaround:	1 Hour (for an urgent crossmatch) 2 Hours (routine crossmatch)
Ref. Range:	N/A
Group and Hold	
-	Blood Transfusion Laboratory RUH
Laboratory: Specimen:	EDTA K^2E 6.0 mL blood
Turnaround:	1 hour (for an urgent Group and Hold) 2 Hours (routine)
Ref. Range:	N/A
Growth Hormon	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube, must arrive in lab before 12pm for referral to GUH. It should only be requested
	as part of a dynamic function test. In general, a random growth hormone measurement has very little
TE 1	diagnostic value.
Turnaround:	3weeks
Interpretation:	On report form
Gut Hormone Pr	
See "Gastrointest	inal Tract Hormones"
Haemochromato	osis – C282Y and H63D Genetic Mutations
Laboratory:	Immunology, GUH:- referred from GUH to Molecular Genetics
Specimen:	x2 3ml blood in EDTA tube. RUH send to GUH for onward referral
Comment:	Must specify genetic test on request form. The patient must be >16 years old and the EDTA sample must be
	fresh and not used for other testing.
Turnaround:	10 days
Ref range:	On report form including interpretative comment. Paper report <u>ONLY</u> .
HbA _{1c}	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	4 mL EDTA blood
Turnaround:	2 working days
Ref. Range:	On report form
Haemoglobin A2	· · · · · · · · · · · · · · · · · · ·
Laboratory:	Referred to St James Hospital.
Specimen:	3.0 mL K ³ EDTA blood
Comment :	Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA ₂ will
comment.	be affected by the presence of iron deficiency.
Turnaround:	4 weeks
Ref. Range:	On report form
iter. itunge.	

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Haemoglobin F	
Laboratory:	Referred to St James Hospital
Specimen:	3.0 mL K ³ EDTA blood
Comment:	Request form must give clinical details, transfusion history and ethnic origin of patient.
Turnaround:	4 weeks
Ref. Range:	On report form
Haemoglobin S	
Laboratory:	Referred to St James Hospital
Specimen:	3.0 mL K ³ EDTA blood
Comment:	Request form must give clinical details, transfusion history and ethnic origin of patient.
Turnaround:	4 weeks
Ref. Range:	On report form
Haemoglobinopa	
Laboratory:	Referred to St James Hospital
Specimen:	x3 3.0 mL K ³ EDTA sample required
Comment:	Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA2 will
	be affected by the presence of iron deficiency. Thalassaemia cannot be excluded in the presence of iron
	deficiency.
Turnaround:	4 weeks
Ref. Range:	On report form
-	uenzae B Antibodies (IgG)
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 weeks
Ref. Range:	Minimum Protective Level >0.15 mg/L Optimum Protective Level >1.00 mg/L
	· · · · · · · · · · · · · · · · · · ·
Haemosiderin (U	,
Laboratory:	Haematology, GUH
Specimen:	First morning urine specimen in a plain universal container.
Turnaround:	3 - 5 days
Ref. Range:	N/A
Hantavirus Antib	
Laboratory:	Referred to HPA, Special Pathogens Reference Unit, Wiltshire SP4 OJG
Specimen:	5 mL blood in plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	1-3 weeks
Report:	Positive / Negative
Haptoglobin	
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 working days
Ref. Range:	0.3-2.0 g/l
HCG, Total	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent requests: 1hour. Priority : 3 hours. Routine : same day
Ref. Range:	On report form
	ri Faecal Antigen Test
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Heinz Bodies	
Laboratory:	Haematology, GUH

PATHOLO	OGY LABORATORY	
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pecimen: Comment:	3.0 mL K ³ EDTA blood Brier authorization by Consultant Haematalagist or SPR	Amongo with Heamstelegy laboratory hafe
.onment.	Prior authorization by Consultant Haematologist or SPR taking specimen.	. Allange with Haematology laboratory berc
Surnaround:	2 days.	
Ref. Range:	N/A	
Iepatitis A IgM A	ntibody	
aboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	
Turnaround:	1 week	
Report:	Detected / Not Detected	
Iepatitis A Virus I	Fotal Antibody	
aboratory:	Virology, GUH	
pecimen:	5 mL blood in plain gel tube	
Furnaround:	1 week	
Report:	Detected / Not Detected	
Iepatitis B Surfac	e Antigen	
aboratory:	Virology, GUH	
pecimen:	5 mL blood in a plain gel tube	
Comment:	Requests for testing post "Needlestick" injury should be no	tified to the laboratory in advance of sending t
- 1	specimen, as these samples are processed urgently.	
Furnaround:	2 working days	
Report:	Detected / Not Detected.	
Iepatitis B Antibo	•	
aboratory:	Virology, GUH	
specimen:	5 mL blood in a plain gel tube	
Comment:	Requests for testing post "Needlestick" injury should be no specimen.	tified to the laboratory in advance of sending t
Furnaround:	2 working days	
unnur ound.	Report: Levels reported as mIU/ml with relevant comment	regarding protective levels and advice on furth
	vaccination	
Hepatitis B Core A	ntibody (anti-HBc)	
Laboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	
Furnaround:	2 working days	
Report:	Detected / Not Detected	
Iepatitis C Antibo Laboratory:	ay Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	
Comment:	Requests for testing post "Needlestick" injury should be no	tified to the laboratory in advance of sending t
	specimen.	,
Furnaround:	2 working days. Samples referred for further testing 1-2 w	veeks.
Report:	Not Detected, if negative. A Provisional report will be iss	
	initial testing. These specimens are referred to the NVRL for	or further testing and a final report.
Iepatitis C Antige		
Laboratory :	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	here Concultant Minut interior
Comment : Furnaround :	Only available in very specific cases and following approva 3-5 working days	ai by a Consultant Microbiologist
Report :	Not Detected/Detected	
Iepatitis C PCR /	Viral Load / Genotype	
_	Virology, GUH	
aboratory:		
Laboratory: Specimen:	x2 6ml K2EDTA Greiner tube. Two tubes if genotype is al	
Laboratory: Specimen: Comment:	x2 6ml K2EDTA Greiner tube. Two tubes if genotype is all Specimen must be delivered to a Virology staff member wi	
Laboratory:	x2 6ml K2EDTA Greiner tube. Two tubes if genotype is al	thin 3 hours of phlebotomy and before 4pm.

Printed copies, although permitted, are deemed <u>Uncontrolled</u> from 24:00 hours on 02/05/25

Degge		
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Hepatitis D Antib	odv	
Laboratory:	Referred to referred to the National Viral Reference Labora	atory, Dublin
Specimen:	5 mL blood in a plain gel tube	
Comment:	Request must be approved by Consultant Microbiologist	
Turnaround:	2-4 weeks	
Report:	Positive/Negative	
Hepatitis E Antib	ody	
Laboratory:	Referred to the National Viral Reference Laboratory, Dubli	n
Specimen:	5 mL blood in a plain gel tube	
Comment:	Request must be approved by Consultant Microbiologist	
Turnaround:	2-4 weeks	
Report:	Positive/Negative	
Herpes Zoster (sh		
Laboratory:	NVRL Dublin	1
Specimen: Turnaround:	PCR Copna swab, ensure date and time is noted on form a	nd specimen
Ref. Range:	2 days on report form	
Kel. Kange.		
	ocytosis Screen (Flow Cytometry)	
Laboratory:	Referred to Crumlin Hospital	
Specimen:	3.0 mL K ³ EDTA blood, at room temperature.	
Comment:	Samples must be received within 24hours. Full clinical info	ormation and reason for request must accompany
Turnaround:	specimen. Consult with haematologist GUH 4 weeks	
Ref. Range:	Interpretation by Consultant Haematologist on report form.	
Herpes simplex vi		
Laboratory:	Referred to HPA, Sexually Transmitted + Blood Borne Vir	us Laboratory, Colindale.
Specimen: Comment:	5 mL blood in a plain gel tube Only referred to Reference Laboratory in exceptional circuit	materia and with prior approval of a Consultant
Microbiologist	Only referred to Reference Laboratory in exceptional circul	instances and with prior approval of a Consultant
Turnaround:	1-3 weeks	
Report:	Positive/Negative	
Herpes simplex vi	· · · · · · · · · · · · · · · · · · ·	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
5-HIAA (Urine)		
Laboratory:	Referred to Eurofins SCDL	
Specimen:	24 hour urine collection, lab to send 30ml frozen aliquot to	Eurofins SCDL (state volume on request form)
Turnaround:	1 - 3 weeks	
Ref. Range:	On report form	
High Density Lipo	oprotein (HDL)	
Laboratory:	Clinical Biochemistry, GUH	

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Ingh Density Li	boprotem (HDL)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment :	Ideally a patient should fast for 12 hours. However, if a patient in unable or unwilling to fast for 12 hours a specimen taken after a 9 hour fast is acceptable".
Turnaround:	Urgent 2 hours. Routine 4 working days
Ref. Range:	On report form

 High Vaginal Swab (HVS)

 Laboratory:
 Medical Microbiology, GUH

 Details:
 Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

 Histoplasma Antibodies

 Laboratory:
 Referred to The Health protection Agency, Mycology Reference Laboratory Bristol BS2 8EL

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	5 ml bland in a mlain cal tuba	
Specimen: Comment:	5 mL blood in a plain gel tube Only available in very specific cases and following approv	al by a Consultant Microbiologist
Furnaround:	1-3 weeks	
Report:	Positive/Negative	
Histology Tissue	e Specimen	
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.	
Comment: Report:	Health & Safety precautions Histological diagnosis	
	Induced Thrombophilia testing)	
Laboratory: Specimen:	, Coagulation lab, St. James' 5 mL blood in a plain gel tube.	
Comment:	Arrange with Haematology team, GUH	
Turnaround:	3 working days (Mon – Fri)	
Ref. Range:	On report form	
HLA B27 Typin	g	
Laboratory:	Referred to Eurofins SCDL	
Specimen:	x2 3 mL EDTA blood	
Comment :	Restricted test-restricted to the following disciplines Rheur	
Furnaround:	phone laboratory if there are exceptional reasons why this 3 weeks	s test is essential
Report:	On report form	
HLA Typing	Deferred to Eurofine CCDI	
Laboratory: Specimen:	Referred to Eurofins SCDL x3 3ml EDTA blood	
Comment :	Restricted test, consult with Haematologist, GUH	
Turnaround:	3 weeks	
Report:	On report form	
Homocysteine		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	4ml EDTA blood delivered to the laboratory immediately,	lab to separate and freeze
Turnaround: Ref. Range:	1 week On report form	
	odeficiency Virus antigen/antibody	
Laboratory: Specimen:	Virology, GUH 5 mL x2 blood in a plain gel tube.	
Furnaround:	2 working days. Samples referred for further testing 1-2 w	reeks.
Report:	Not Detected, if negative. A Provisional report will be is	
	initial testing. These specimens are referred to the NVRL f	or further testing and a final report.
Human Immuno	odeficiency (HIV) PCR / Viral Load / Genotype	
Laboratory:	Virology, GUH	
Specimen:	One 8 ml Greiner K ₂ EDTA Vacuette tube (Ref: 455040) fo GUH, contact lab. Two tubes if Genotype is also required.	
Comment:	Specimen must be delivered to a Virology staff member	
	immedaite dispatch to GUH. Greiner tubes should be used	
_	samples collected in these tubes are suitable for processing	
Furnaround:	1 – 3 weeks	
Report:	Detected/Not detected	
Human T-Lymp	•	
Laboratory:	Referred to National Viral Reference Laboratory, Dublin.	
Specimen: Comment:	5 mL blood in a plain gel tube	the Microbiology Medical staff
Comment:	Only available in specific cases and following approval by $2-4$ weeks	the microbiology Medical stall
Report:	Reported in IU/ml	
•		

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Huntington's Dis Laboratory:	Referred to Department of Clinical Genetics, OLCH, Crumlin, Dublin.
Specimen:	x2 3ml blood in EDTA tube
Comment :	It is <u>mandatory</u> for all requests to be accompanied by a fully completed CHI Genetic request form. It is
comment.	critical the informed consent section is completed. Testing will not be carried out if forms are not completed
	fully. CHI request forms can be download from www.olchc.ie
Turnaround:	Up to 12 weeks
Ref range:	Refer to report- including interpretative comment
Hydatid antibod	
Laboratory:	Referred to the Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	5 mL blood in a plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	2-3 weeks
Report:	Positive/Negative
Hydatid Cyst	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Immunoglobulin	s IgG / IgA / IgM and Serum Protein Electrophoresis
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	10 working days
Ref. Range:	On report form
IgD	
Laboratory:	Referred to Immunology dept, Northern General hospital, Sheffield
Specimen:	5 mL blood in plain gel tube
Turnaround:	6 weeks
Ref. Range:	Refer to report
IgE (Total)	
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	7 working days
Ref. Range:	On report
IgG Subclasses (IgG1, IgG2, IgG3)
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	10 working days
Ref. Range:	On report form
IgG Subclasses (<u>.</u>
Laboratory:	Immunology, GUH

Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	10 working days
Ref. Range:	IgG4 g/L
Adult	0-1.29

IGRA : See Quantiferon Test

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Laboratory: Ref	oformed to National Virgin Defension of Laboratory, UCD
Laboratory. Ref	eferred to National Virus Reference Laboratory, UCD.
Specimen: x3	3 3mL EDTA blood
Turnaround: 4 w	weeks
Ref. Range: Ref	efer to report- including interpretative comment

Immunofluorescence Biopsies - Renal

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Laboratory: Specimen: Comment:	Please notify the Histopathology Department, GUH (ext. 4 Place the biopsy in normal saline to maintain hydration an contact details on request form. Health & Safety precautions	
Report:	Histological diagnosis	
Immunofluores	cence Biopsies - Skin	
Laboratory: Specimen: Comment: Report:	Please notify the Histopathology Department, GUH (ext. 4 Deliver to the laboratory immediately. Include contact det Health & Safety precautions Histological diagnosis	
Immunophenot	yping (Flow Cytometry)	
Laboratory:	Haematology, GUH	
Specimen:	$3.0 \text{ mL K}^3 \text{ EDTA blood or Bone Marrow aspirate in EDTA}$	Aor Lymph Node Biopsy in RPMI. GUH Lab will
	n-Thurs 9am-5pm only	
Comment:	Prior arrangement with Consultant Haematologist or SPR.	
Turnaround:	2-5 days	
Report:	Contact Consultant Haematologist	
	· · · · · · · · · · · · · · · · · · ·	
	Denucleosis (Monospot)	
Laboratory:	Haematology RUH 3.0 mL K3 EDTA blood	
Specimen: Comment:		
Turnaround:	Can be processed on FBC sample if requested. Add on red Urgent: 1 hour. Routine 4 hours	quests require an additional sample.
	N/A	
Ref. Range:	N/A	
Influenza A viru		
Laboratory:	Virology, GUH	
Specimen:	Combined nasal/throat swab in viral transport medium	
Comment:	Seasonal availability only	
Turnaround:	2-3 working days	
Report:	Detected/Not Detected	
Influenza B viru	15	
Laboratory:	Virology, GUH	
Specimen:	Combined nasal/throat swab in viral transportmedium.	
Comment:	Seasonal availability only	
Turnaround:	2 - 3 working days	
Report:	Detected/Not Detected	
INR (Internatio	nal Normalised Ratio)	
Laboratory:	Haematology RUH	
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube.	
Comment:	Fill bottle to mark. Details of anticoagulant therapy require	ed. Do not refrigerate specimens for INR
Turnaround:	1 day	6
Ref Range:	See report form	

Ref. Range: See report form

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Laboratory:	Clinical Biochemistry, GUH
Specimen:	5ml fasting blood in a plain gel tube delivered immediately to the laboratory, lab to separate and freeze
Turnaround:	1 week
Ref. Range:	On report form
Insulin Like Grow	th Factor 1
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL fasting blood in a plain gel tube, delivered to laboratory immediately, lab to separate and freeze
Turnaround:	3 weeks
Ref. Range:	See report form
Interleukin 6	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Specimen must be receievd in the laboratory on the day of venepuncture.
Turnaround:	Urgent: 1hour. Priority: 3hours. Routine: 2 working days
Ref. Range:	See report form
Intraocular Fluids	/ Corneal Scrapings
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Intra – Uterine Co	entraceptive Device (IUCD)
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Intravascular Can	nulae - Culture
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Iron	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	Fasting sample required. 5 mL blood in a plain gel tube
Turnaround:	Urgent: 2hour. Priority: 3hours. Routine: 4 working days
Ref. Range :	On report form
Iron Stain (Perla H	Prussian Blue – Cytochemical Stain)
Laboratory:	Haematology, GUH
Specimen:	Bone marrow spread on a glass slide
Comment:	As for Bone Marrow testing
Turnaround:	2 weeks
Ref. Range:	N/A
JAK -2 Mutation	
Laboratory:	Referred to CMD Laboratory, St James Hospital, Dublin 8
Specimen:	3 x 3.0 mL K ³ EDTA blood
T	

Specimen:	3 x 3.0 mL K ³ EDTA blood
Comment:	Test available Monday-Thursday only
Turnaround:	120 days
Ref. Range:	N/A

ROSCOMMON UNIVERSITY HOSPITALPATHOLOGY LABORATORYTITLE No: RCH/PATH/PD/001 Pathology Laboratory
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Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology
Specimen:	5-10 mls fresh specimen in a universal container. Do not use fixative. Specify if cytology or crystal analysi
1	is required. Please do not inject any material into joint before obtaining joint fluid sample. Submit sample to
	laboratory ASAP. Refrigerate if delay in dispatch to lab >2hrs. Please use powder free gloves to avoid
	contamination of sample by powder.
Comment:	Indicate clinical history on test requisition and reason for test.
Turnaround:	80% by 5 working days
Report:	Detection of inflammatory conditions
Joint Fluid	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Joint Fluid – Uri	c Acid Crystals
Please refer to Joi	nt Aspirates
Karyotyping	
See Cytogenetics	
Ketones	
Laboratory:	Available on point of care glucose meters, call lab for further information
Turnaround:	1 day (Mon – Fri) – not available on weekends.
Ref. Range:	N/A
KRAS Mutation	•
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Tissue samples already processed by the Histopathology Laboratory,
Request from:	Arrange via consultant pathologist.
Comment :	Testing available on request from consultant Pathologist.
Referrals:	Contact the Department of Histopathology, Cytopathology and Molecular pathology on 091 544078
Turnaround :	5 – 10 working days after request from Pathologist received
Report:	Integral part of Histopathology report issued by Division of Anatomic Pathology
Lactate	Ausilable on Dlood Cas analyzan in Jakaratany
Laboratory: Specimen:	Available on Blood Gas analyser in laboratory Blood in a balanced heparin syringe, process within 15 mins of collection
Turnaround:	15 mins
Ref. Range:	On report form
Lactate Dehydro	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube, do not refridgerate
Turnaround:	Urgent: 1hour. Priority : 3 hrs. Routine: same day.
Ref. Range:	On report form
Lead	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Blood in Lithium heparin tube . Lab to refrigerate If urine sample required, random urine
Turnaround:	1 month
Ref. Range:	On report form
Legionella cultur	e
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

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Legionella pneur	mophila Urinary Antigen
Laboratory:	Virology, GUH
Specimen:	Plain random urine specimen in a sterile Universal container or yellow vacuette
Comment:	Specimen to arrive in laboratory within 24 hours of collection
Turnaround:	1 working day
Report:	Detected / Not Detected
Leishmania anti	ibody
Laboratory:	Referred to The Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	5 mL blood in a plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	2-3 weeks
Report:	Positive/Negative
Leptospira antib	body
Laboratory:	Referred to National Virus Reference Laboratory
Specimen:	5 mL blood in a plain gel tube.
Turnaround:	2-3 weeks.
Report:	Positive/Negative
	ine Phosphatase (LAP) Cytochemical Stain
Laboratory:	Haematology, GUH
Specimen:	6.0 mL Li Heparin blood, contact lab for bottle
Comment:	Prior authorization by Haematology SPR.
Turnaround:	2 days
Ref. Range:	Refer to report
Leucocyte Mixed	d-Esterase Stain (Cytochemical Stain)
Laboratory:	Haematology, GUH
Specimen:	Bone marrow slides
Comment:	Prior authorization by Haematology SPR.
Turnaround:	2 days
Ref. Range:	N/A
	ase Stain (Cytochemical Stain)
Laboratory:	Haematology, GUH
Specimen:	3.0 mL K ³ EDTA blood
Comment:	Prior authorization by Haematology SPR.
Turnaround:	2 days
Ref. Range:	N/A
LH	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5ml blood in a plain gel tube
Turnaround:	Priority : 1 working day. Routine : 2 working days
Ref. Range:	On report form
Lipoprotein (a)	
Laboratory:	Referred to Eurofins SCDL
Specimen:	5 mL blood in a plain gel tube. Lab to refrigerate
Turnaround:	1-3 weeks
Ref. Range:	On report form
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Lithium		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5ml blood in a plain gel tube	
Comment:	Sample 12 hours post dose	
Turnaround:	Urgent: 1hour. All other requests: 3hours	
Therapeutic Range:	On report form	
Liver core biopsy-	(Hep C, Primary tumour or metastases)	
Laboratory:	Histopathology, GUH	
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffe	red Formalin.
Comment:	Health & Safety precautions.	
Report:	Histological diagnosis	
Lletz		
Laboratory:	Department of Histopathology, Cytopathology and Molecu	lar Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffe	
Comment:	Health & Safety precautions.	
Report:	Histological diagnosis	

Low Density Lip	poprotein (LDL)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Calculated parameter
Turnaround:	Urgent: 1hour. Priority: 3hours. Routine: 2 working days
Ref. Range:	On report form

Lupus Anticoagulant Screen

Lupus Milleoage	
Laboratory:	Haematology, GUH
Specimen:	2 x 2.7 mL blood in 0.109m Sodium Citrate tubes
Comment:	Details of anticoagulant therapy required. Must fill bottle to mark. Samples must submitted within 6 hours
	of draw. Otherwise RUH must separate and freeze
Turnaround:	5 Weeks.
Ref. Range:	Qualitative Positive/Negative

Lyme Disease Antibodies

See "Borrelia burgdorferi"

Lymph Nodes for Query Lymphoma Laboratory: Department of Histopathology, Cytopathology and Molecular Pathology, GUH Specimen: Fresh Tissue. Submit specimen intact to laboratory UNFIXED Comment: To be confirmed with Consultant Histopathologist at least 24 hours in advance. Immediately Dispatch to the lab. Report: Histological diagnosis. Lymphocyte subsets CD3 (T cell) CD4 (T helper) CD8 (T cytotoxic) CD19 (B cell) CD16/56 (NK cell) Immunology, GUH Laboratory: Specimen: x2 3ml blood in EDTA bottle. Do not refrigerate. Comment: Record time and date of collection on form. Samples must be kept at room temperature, deliver to Immunology within 48 hours. Turnaround: 3 working days Ref. Range: Refer to report Lymphogranuloma venereum antibodies Referred to the Health Protection Agency, South West Lab. Bristol BS" 8EL Laboratory: Specimen: 5 mL blood in a plain gel tube Comment: Only available in very specific cases and following approval by a Consultant Microbiologist Turnaround: 2-4 weeks

Magnesium Laboratory:

Report:

Biochemistry, RUH

Positive/Negative

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Specimen:	5 mL blood in a plain gel tube	
Furnaround:	Urgent: 1 hour. Routine 4 hours.	
Ref. Range:	On report form	
Magnesium (Uri	•	
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	24 h collection, plain	
Turnaround:	1 working day	
Ref. Range:	On report form	
Malaria Screen		
Laboratory:	Haematology, GUH	
Specimen:	3.0 mL K ³ EDTA blood. Fresh sample required.	
Comment:	Blood film is examined microscopically. The blood is teste	
	Positive specimen forwarded to Microbiology Laborator	
	When submitting malarial requests please alert the Laborat	
Turnaround:	1 day (Mon - Fri). Results of this test done out of hours of	r on weekends are confirmed by second scient
	as soon as possible on the next working day.	
Report:	Positive / Negative. Where clinically indicated a negative	e specimen may be referred to a reference cen
	for analysis by PCR.	
Malignancy		
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffe	ered Formalin.
Comment:	Health & Safety precautions	
Report:	Histological diagnosis	
Manganese		
Laboratory:	Referred to Eurofins SCDL	
Specimen:	5.0 mL blood in a plain gel tube. Lab to refrigerate	
Furnaround:	5 days	
i umarounu.		

Laboratory:	Virology	, GUH
Specimen:	5 mL blood in	n a plain gel tube
Turnaround:	1-2 weeks	
Report:	Detected / No	ot Detected

Measles IgM antibody

Laboratory:	Referred to National Virus Reference Laboratory
Specimen:	5 mL blood in a plain gel tube
Turnaround:	2-3 weeks.
Report:	Detected / Not Detected

Meningococcal C vaccine antibodies - Serum

Laboratory:	eferred to Immunology Dept, Meningococcal Reference Unit, Manchester Medical Microbiology	y
Partnership		
Specimen:	0 mL blood in plain gel tube	

Turnaround: 6 weeks Refer to report

Ref range:

Meningococcal PCR

Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Mercury - Urine	

Laboratory:	Referred to Eurofins SCDL
Specimen:	Random urine
Turnaround:	1-3 weeks
Ref. Range:	See report form

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1 age 00 01	50	Effective Date: 02/03/2023
Metabolic Profile	SMAC, lipid profile, Glucose, HbA1c, Insulin, CRP, ad	iponectin
Laboratory:	Clinical Biochemistry: - RUH, GUH. Eurofins SCDL	*
Specimen:	x3 5ml blood in a plain gel tube, x1 3 ml k ⁺ EDTA	
Comment:	Full clinical details must accompany request	
Furnaround:	1-3 weeks	
Ref. Range:	On report form	
	Amino Acid Chromatography)	
Laboratory:	Refer to Biochemistry, Temple street	
Specimen:	Li Heparin blood sample and random urine,	
Comment: Furnaround:	Full clinical details must accompany request $1-3$ weeks	
Ref. Range:	On report form	
	Urine Amino Acid Chromatography)	
Laboratory:	Refer to Biochemistry, Temple street	
Specimen:	Plain random urine specimen	
Comment: Furnaround:	Full clinical details must accompany request $1-3$ weeks	
Ref. Range:	On report form	
-	etanephrine/Normetanphrine/3-methoxytyramine - Plasn	na)
Laboratory:	Referred to Eurofins SCDL	
Specimen:	Blood in Lithium heparin tube	
Comment:	Delivered to laboratory immediately. Lab to separate and f Specimen must be delivered immediately to the lab post pl	
Furnaround:	Specifien must be derivered initiality to the fab post pi 1-3 weeks	nebotomy.
Ref. Range:	On report form	
Metanephrines (Ui See "Catecholamine	es/Fractionated Metanephrines"	
Methadone	,,	
See "Toxicology Sc	reen"	
A. 41	nt Staph aureus (MRSA)	
vietniciiin-Resista		
Laboratory:	Medical Microbiology, GUH	
	Medical Microbiology, GUH Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u>	ns/LM%20MDOC%200009%203%2013.pdf
Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
Laboratory: Details: Methotrexate (Ma x Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
Laboratory: Details: Methotrexate (Ma x Laboratory: Specimen:	Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u> xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott	le
Laboratory: Details: Methotrexate (Ma x Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publicatio xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma : Laboratory: Specimen: Comment:	Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u> xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of init	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma : Laboratory: Specimen: Comment: Furnaround:	Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u> xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma : Laboratory: Specimen: Comment:	Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u> xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of init	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma Laboratory: Specimen: Comment: Comment: Furnaround: Ref. Range: Methylmalonic Ac	Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u> xtrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form d -serum	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma Laboratory: Specimen: Comment: Comment: Furnaround: Ref. Range: Methylmalonic Ac Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publicatio strex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Max Laboratory: Specimen: Comment: Turnaround: Ref. Range: Methylmalonic Act Laboratory: Specimen:	Refer to https://www.saolta.ie/sites/default/files/publicatio strex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Guidance on report form d -serum Referred to Eurofins SCDL	le est form. Measured on patients on high-dos
Laboratory: Details: Methotrexate (Ma Laboratory: Specimen: Comment: Comment: Furnaround: Ref. Range: Methylmalonic Ac Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publicatio strex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of init 1 – 2 hours Guidance on report form Image: Scole Referred to Eurofins SCDL Image: Scole	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Max Laboratory: Specimen: Comment: Turnaround: Ref. Range: Methylmalonic Act Laboratory: Specimen:	Refer to https://www.saolta.ie/sites/default/files/publicatio strex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Guidance on report form d -serum Referred to Eurofins SCDL	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Ma : Laboratory: Specimen: Comment: Furnaround: Ref. Range: MethyImalonic Ac i Laboratory: Specimen: Blood in Lithium he	Refer to https://www.saolta.ie/sites/default/files/publicatio ktrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Image: Collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Image: Collection clearly on report form Methotread to Eurofins SCDL Image: Collection clearly on report form	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Ma : Laboratory: Specimen: Comment: Furnaround: Ref. Range: MethyImalonic Ac i Laboratory: Specimen: Blood in Lithium he	Refer to https://www.saolta.ie/sites/default/files/publicatio ktrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Image: Collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Image: Collection clearly on reque Methotrexate on report form Image: Collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form Image: Collection clearly on reque Methotrexate on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report form Image: Collection clearly on report f	le est form. Measured on patients on high-do iusion on request form.
Laboratory: Details: Methotrexate (Ma: Laboratory: Specimen: Comment: Furnaround: Ref. Range: MethyImalonic Aci Laboratory: Specimen: Blood in Lithium he Furnaround: Ref. Range:	Refer to https://www.saolta.ie/sites/default/files/publication ctrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample both State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form d -serum Referred to Eurofins SCDL eparin tube Delivered to laboratory immediately. Lab to separate and for some set to separate and for some set to separate and for set to separate and for set to set the set to separate and for set to set the set to separate and for set to set to set the set to set to set the set to set to set the set to set the set to se	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Ma Laboratory: Specimen: Comment: Furnaround: Ref. Range: MethyImalonic Ac Blood in Lithium he Furnaround: Ref. Range: MethyImalonic Ac	Refer to https://www.saolta.ie/sites/default/files/publication ctrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample both State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form d -serum Referred to Eurofins SCDL parin tube Delivered to laboratory immediately. Lab to separate and for some server form d (Urine)	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Mar Laboratory: Specimen: Comment: Furnaround: Ref. Range: Methylmalonic Act Laboratory: Specimen: Blood in Lithium he Furnaround: Ref. Range: Methylmalonic Act Laboratory:	Refer to https://www.saolta.ie/sites/default/files/publication ctrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample bott State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of im 1 – 2 hours Guidance on report form d -serum Referred to Eurofins SCDL parin tube Delivered to laboratory immediately. Lab to separate and for 5 weeks On report form d (Urine) Referred to Eurofins SCDL	le est form. Measured on patients on high-dos iusion on request form.
Laboratory: Details: Methotrexate (Ma Laboratory: Specimen: Comment: Furnaround: Ref. Range: MethyImalonic Ac Blood in Lithium he Furnaround: Ref. Range: MethyImalonic Ac	Refer to https://www.saolta.ie/sites/default/files/publication ctrex) Clinical Biochemistry, GUH 5.0mL blood in a non-gel tube, contact lab for sample both State date/time of sample collection clearly on reque Methotrexate. Contact Lab in advance and state time of int 1 – 2 hours Guidance on report form d -serum Referred to Eurofins SCDL parin tube Delivered to laboratory immediately. Lab to separate and for some server form d (Urine)	le est form. Measured on patients on high-do iusion on request form.

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1 age 07 0	<i>J</i> 00	Effective Date: 02/03/2023
/licroalbumin /	Creatinine Ratio	
	Jrine) / Microalbumin'	
```		
Microarray/aCO	: Microarray/aCGH	
	faenii (Farmer's Lung)	
See: "Farmer's L	ung antibodies"	
Morphine (Opia	,	
See "Toxicology	Screen"	
Morphology		
Refer to "Blood I	Film"	
Mouth Swab	Medical Misseshiele av CUU	
Laboratory: Details:	Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publicatio	ng/I_M%20MDOC%200009%203%2013 ndf
	nimum Residual Disease detection of Chronic Lymphocytic I	Leukaemia)
Laboratory:	Haematology, GUH	
Specimen:	3.0ml K ³ EDTA	
Comment:	Samples must be received within 24 hours. Full clinical inf	ormation and reason for request must accompany
Tumonoundu	specimen.	
Turnaround: Report:	3 -5 working days. Interpretation by Consultant Haematologist on report form	
	llin-Resistant Staph aureus)	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
MSU – Midstrea	am Urine	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
Mumps IgG an	tibody	
Laboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	
Furnaround:	1-2 weeks	
Report:	Detected / Not Detected	
Comment:	A Provisional report will be issued on any sample giving re-	active findings on initial testing. These specimen
comment.	are referred to the NVRL for further testing and a final rep	
_		· · · ·
Mumps IgM an		
Laboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	

Luboratory.	vinology, Gen
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1 - 2 weeks.
Report:	Detected / Not Detected

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Muscle Biopsies	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Fresh tissue
Comment:	Immediate dispatch to laboratory where tissue pieces are frozen / formalin fixed. Fresh tissue samples to be
Comment	confirmed with the Consultant Pathologist (on frozens) at least 24 hours in advance.
Report:	Histological diagnosis
Mycobacteria To	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Mycology	Madical Misushialana CUII
Laboratory: Details:	Medical Microbiology, GUH Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Details.	Refer to https://www.saona.ie/snes/default/mes/publications/EW/%20MDOC %200009 %203 %2013.pdf
Mycoplasma pno	eumoniae antibody
Laboratory:	Referred to National Virus Reference Laboratory, Dublin
Specimen:	5 mL blood in a plain gel tube
Comment:	Available only in very specific cases and following prior arrangement with a Consultant Microbiologist
Turnaround:	2-3 weeks
Report:	Positive/Negative
Myoglobin	
Laboratory:	Referred to Eurofins SCDL
Specimen:	5 mL blood in a plain gel tube or random urine. Lab to freeze
Turnaround:	1-2 weeks
Ref. Range:	On report form
Neoplasm	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions
Report:	Histological diagnosis
Neutrophil Func	tion Test – Dihydrorhodamine Flow Cytometry Assay of Respiratory Burst Activity
Laboratory:	Immunology, GUH
Specimen:	x2 3ml blood in EDTA must be kept at room temperature. Do not refrigerate.
	Control sample must also be taken. Samples must be delivered to lab within 24 hours.
Comment:	Testing must be first discussed with immunology medical/scientific staff
Turnaround:	2 days
Report:	Normal/Abnormal
N. meningitidis l	PCR
See "Meningocoo	ecal PCR"
Neisseria gonorr	hoeae PCR
Laboratory:	Virology, GUH
Specimen:	Abbott Multicollect swab delivered to the laboratory within 24 h of collection.
Comment:	If delay refrigerate @ 2-8°C.
Turnaround:	10 working days
Report:	Detected / Not Detected
Noradrenaline (	Adrenaline/Dopamine)
See "Catecholam	
Norovirus detect	tion
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Nose Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
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NRAS	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen :	Tissue samples already processed by the Histopathology laboratory, arrange via Consultant Pathologist
Comment :	Testing available on request by Pathologist
Referrals :	Contact the Department of Histopathology, Cytopathology and Molecular Pathology on 091 544078
Turnaround :	5-10 working days after request from Pathologist received
Report :	Integral part of Histopathology report issued by the Division of Anatomic Pathology, Department of Histopathology, Cytopathology and Molecular Pathology
Oestradiol	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0mL blood in a plain gel tube
Turnaround:	Urgent: 1hour. Priority: 1 working day. Routine : 2 working days
Ref. Range:	On report form
Opiates	
See "Toxicology	Screen"
Organic Acids	
Laboratory:	Clinical Biochemistry:- lab staff, see 'Special Blood Sciences' folder
Specimen:	Plain urine specimen
Turnaround:	1-3 weeks
Ref. Range:	On report form
Osmolality	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5ml blood in a plain gel tube
Turnaround:	Urgent: 1hour. Priority: same day. Routine: 2 working days
Ref. Range:	On report form
Osmolality (Uri	ne)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	Plain random urine specimen
Turnaround:	Urgent : 1hour. Priority : same day. Routine : 2 working days
Ref. Range:	On report form
Osmotic Fragilit	ty
Laboratory:	Haematology, GUH
Specimen:	5.0 mL Li fresh Heparin blood and a normal control specimen in 5.0 mL Li Heparin
Comment:	Authorisation by Haematology SPR and arrangement with laboratory. The specimen must reach the laboratory before 11:00 on day of analysis.
Turnaround:	2 days
Ref. Range:	See report form.
Ova / Cysts / Pa	rasites
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
	wid Naanlastia (Nan Naanlastia Calla
Ovarian Cyst Fl	luid, Neoplastic/Non-Neoplastic Cells
See HITLIGIONS/ H	N A

See Effusions/ FNA

	ION UNIVERSITY HOSPITAL GY LABORATORY	
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aracetamol	Clinical Biochemistry, GUH	
Laboratory: pecimen:	5 mL blood in a plain gel tube	
urnaround:	Urgent: 1hour. All other requests: 3hours.	
nterpretation:	On report form	
Paraneoplastic Anti		
	: Anti-Neuronal Antibodies"	
<b>Parvovirus / B 19 Ig</b> See "Erythrovirus B		
•	(Diaphragm, Gutter or Cul de sac Wash)	
Laboratory:	Department of Histopathology, Cytopathology and Molec	cular Pathology, GUH Specimen:Collect 10 -
aboratory.	mL fresh specimen into a twist top leak proof 20 mL or 50	
	Cytospin Collection Fluid (green fixative solution). Refrig	erate overnight if necessary.
Comment:	Indicate clinical history on test requisition and reason for t	est.
Curnaround:	80% in 5 working days	
Report:	Detection of neoplastic and non neoplastic cells	
enile Swab		
Laboratory: Details:	Medical Microbiology, GUH Refer to <u>https://www.saolta.ie/sites/default/files/publicatio</u>	ns/I M% 20MDOC% 200009% 203% 2013 pdf
		<u>ns/Elii//20000000000000000000000000000000000</u>
<b>Pericardial Fluid</b> – See "Effusions"	Pleural Fluid - Cytology	
	Peritoneal Fluid / Pleural Fluid	
aboratory: Details:	Medical Microbiology, GUH	ng/LM0/20MDOC0/200000/2020/2012 ndf
	Refer to https://www.saolta.ie/sites/default/files/publicatio	<u>IIS/EM%20WIDOC%20009%205%2015.pdf</u>
Peritoneal Fluid - C	⁽ ytology	
See "Effusions"		
Pernasal Swab / Per		
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publicatio	ns/LM%20MDOC%200009%203%2013.pdf
Phenytoin (Epanuti	,	
_aboratory:	Clinical Biochemistry, GUH	
specimen:	7.0 mL blood in a plain gel tube	
Comment:	Take specimen immediately before next dose (trough spec	imen)
Turnaround: Therapeutic Range:	1 week On report form	
Phosphate -inorgan	ic Clinical Biochemistry, RUH	
Laboratory: Specimen:	5 mL blood in a plain gel tube	
Surnaround:	Urgent: 1 hour. Routine 4 hours.	
Ref. Range:	On report form	
Phosphate (Urine)		
aboratory:	Clinical Biochemistry, GUH	
specimen:	24 hour urine collection.	
•	Lab staff RUH: refer to Bone marker section if part of 'Bo	ne Marker' request
Comment:	Used in conjunction with serum inorganic phosphate to cal	
urnaround:	1 working day	
Ref. Range:	On report form	
ippelle Biopsy		
aboratory:	Department of Histopathology, Cytopathology and Molecu	
pecimen:	Submit specimen to laboratory in 10% Neutral Buffered Fe	ormalin.
speetinen.		

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Comment:	Health & Safety precautions
Report:	Histological diagnosis
Pinworm	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Placenta	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions
Report:	Histological diagnosis
Plasma Viscosity	
Laboratory:	Haematology, GUH
Specimen:	3 x 3.0 mL K ³ EDTA blood
Comment:	Must be received in laboratory within 2 hours of phlebotomy so this test must not be taken in RUH as it can
	not be guaranteed to arrive in GUH within 2 hrs
Turnaround:	1 day
Ref. Range:	Refer to report

### Platelet Aggregation Studies

1 100000 11661 050	in studies
Laboratory:	Haematology, GUH
Specimen:	6 x 2.7 mL blood specimens in 0.109m Sodium Citrate tubes. Please supply samples from a normal control
	in conjunction with the test specimens.
Comment:	Prior authorization by Consultant Haematologist or SPR. Arrange with Coagulation laboratory before taking specimen. Patient must not take any anti-platlet medications for 1 week prior to test (incl. aspirin, NSAIDA, Clopidogrel/plavix, cough suppressants). Discard the first specimen when obtaining blood from patient as
	there may be some platlet activation present which will influence the test results. Specimens must reach the
	Coagulation laboratory no later than 11:00 on the day of analysis. Must fill bottles to mark.
Turnaround:	Àssay performed on day of appointment
Ref. Range:	N/A

### **Pleural Fluid - Cytology**

See "Effusions"

Pleural Fluid Microscopy & Culture			
Laboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf		
Pneumococcal P	PCR		
Laboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf		
Pneumococcus I	IgG/ IgG2 antibodies		
Laboratory:	Immunology, GUH		
Specimen:	5.0mL blood in plain gel tube		
Turnaround:	5 weeks		
Ref range:	Pneumococcus IgG: 11.0 - 320.8 mg/L		
	Pneumococcus IgG2: 1.2 – 107.1 mg/L		
Pneumocystis ji	roveci investigation		
Laboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf		
PNH Screening	(Paroxysmal Nocturnal Haemoglobinuria) by Flow Cytometry		
Laboratory:	Haematology, GUH		
Specimen:	3.0 mL K3 EDTA blood		
Comment:	Samples must be received in GUH Mon-Thurs from 9-5pm only and within 24 hours of collection unless otherwise arranged with Flow Cytometry. Full clinical information and reason for request must accompany		
	specimen.		
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Furnaround:	3-5 working days		
Ref Range:	Interpretation by Haematologist		
POC – Products	of Conception		
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH		
Specimen:	Submit specimen to laboratory in 10% Neutral Buffered Fo	ormalin.	
Comment:	See also Foetus. Health & Safety precautions		
Report:	Histological diagnosis		
Porphyrin Scree	n		
Laboratory:	Referred to St. James' Clinical Biochemistry		
Specimen:	x4 3mL k ⁺ EDTA FBC samples, 10.0 mL Li Heparin blood, 5g fresh faeces and a 24 hour urine collection		
Comment:	All specimens must be protected from light.		
T	RUH lab staff, see Special Blood Sciences folder for furthe $1-3$ weeks	er information	
Turnaround: Ref. Range:	1 – 5 weeks On report form		
	*		
Post-Vasectomy	*		
Laboratory:	Department of Histopathology, Cytopathology and Molecu	lar Pathology, GUH	
Specimen: Comment:	Semen Available Monday to Friday 09:00 to 16:00 h. Refrigerate overnight if necessary. Indicate clinical history o		
Comment:	test requisition. Include the collection time and date.	overnight if necessary. Indicate chinical history of	
Report:	Histological diagnosis		
•			
Potassium	D'adaa DIII		
Laboratory: Specimen:	Biochemistry, RUH 5 mL fresh blood in a plain gel tube		
Comment:	GP specimens <b>MUST</b> be received in the laboratory within 4 hours of phlebotomy		
Turnaround:	Urgent: 1 hour. Routine 4 hours.	induits of philebotonity	
Ref. Range:	On report form		
Potassium (Urin	e)		
Laboratory:	Biochemistry RUH		
Specimen:	24 hour urine collection		
Turnaround:	1 working day		
Ref. Range:	On report form		
Pregnancy Test			
See "HCG Total"	,		
Pregnancy Test	(Urine)		
Laboratory:	Biochemistry RUH and Point of Care testing available in S	t. Bridget's Ward and Endoscopy Unit.	
Specimen:	Urine in plain vacutainer	<i>c</i> - <i>r j c</i>	
Turnaround:	N/A		
Ref. Range:	N/A		
Primidone/Myso	line		
Laboratory:	Clinical Biochemistry, GUH		
Specimen:	5 mL blood in a plain gel tube		
Comment:	Take specimen immediately before next dose (trough speci	men)	
Turnaround:	1 week		
Therapeutic Rang	ge: On report form		
ProBNP			
Laboratory:	Biochemistry RUH		
Specimen:	5ml blood in a plain gel tube		
Turnaround:	Urgent: 1 hour. Routine 4 hours.		
Ref. Range:	On report form		
Procalcitonin			
Laboratory: Specimen:	Referred to Eurofins SCDL 5 mL blood in a plain gel tube, send to lab before 12pm Mo	on-Fri for dispatch	
specificii.			
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Furnaround:	2 working days	
Ref. Range:	See report form	
Procollagen 1 Pej		
See 'Bone markers	s'	
Progesterone		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5mL blood in a plain gel tube	
Furnaround:	Priority:1 working day. Routine: 2 working days	
Interpretation:	On report form	
Prograf		
See " Tacrolimus"	·	
Proinsulin		
Laboratory:	Referred to Eurofins SCDL	
Specimen:	x1 3ml EDTA, send to lab immediately, lab to separate and	d freeze
Furnaround:	1-3 weeks	
Ref. Range:	On report form	
Prolactin		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5ml blood in a plain gel tube	
Furnaround:	Priority : 1 working day. Routine : 2 working days	
Ref. Range:	On report form	
Prostatic Core Bi	opsy	
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Submit specimen intact to laboratory in 10% Neutral Bu	
	indicates site and information matches details given on form	m.
Comment:	Health & Safety precautions	
Report:	Histological diagnosis	
Protein		
Laboratory:	Biochemistry RUH	
Specimen:	5 mL blood in a plain gel tube	
Furnaround:	Urgent: 1 hour. Routine 4 hours.	
Ref. Range:	On report form	
Protein (Urine)		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	24 hour urine collection and random urine	
Furnaround:	1 working day	
Ref. Range:	On report form	

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Protein C	
Laboratory:	Haematology, GUH
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube
Comment:	Send to lab immediately, lab to separate and freeze
	Details of anticoagulant therapy required. Must fill bottle to mark.
Turnaround:	5 weeks
Ref. Range:	Refer to report
Protein S and Fr	ree Protein S
Laboratory:	Haematology, GUH
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube
Comment:	Send to lab immediately, lab to separate and freeze. Must fill bottle to mark. Details of anticoagulant therapy
	required.
Turnaround:	5 Weeks
Ref. Range:	Refer to report
Prothrombin Ge	ene Mutation
Laboratory:	Referred to NCHCD, SJH, Dublin
Specimen:	x2 3ml blood in EDTA tube
Comment:	Consent form for genetic analysis must accompany each request for this test and reason for request. Contact
	haematologist GUH
Turnaround:	4 weeks
Ref range:	N/A
Prothrombin Ti	me (PT)
Laboratory:	Haematology, RUH
Specimen:	2.7 mL blood in a 0.109m Sodium Citrate tube.
Comment:	Details of anticoagulant therapy required. Do not regrigerate specimens for PT. Must fill bottle to mark.
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	Refer to report
PSA Total	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
РТН	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5ml blood in a plain gel tube delivered to the laboratory for same day dispatch to GUH, otherwise RUH to
-	separate and freeze
Turnaround:	1 working day
Ref. Range:	On report form
Punch Biopsy	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions. Where specimen is for DIF do not use fixative. See Immunofluorescence.
Report:	Histological diagnosis
Pyruvate Kinase	Screening (PK)
Laboratory:	Referred to Special Haematology, St James Hospital, Dublin 8.
Specimen:	1 x 3.0 mL K ³ EDTA blood
Turnaround:	2 weeks
Report:	Positive / Negative
Q Fever	
See "Coxiella bu	metii"
Quantiferon Tes	
Laboratory :	Referred to the Immunology GUH
Laboratory.	Noterios to the final diology Corr

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Specimen :	Set of 4 specific Quanitferon tubes and Quantiferon reques	
Comment :	The 4 samples must reach the laboratory within 4hrs of co	
	NO Friday samples accepted	
Turnaround:	Lab staff, follow instructions on request form 10 working days	
Report:	Positive/Negative	
RCD 11	Refractory Coeliac Disease Type 11 Detection by Flow	Cytometry
Laboratory:	Haematology, GUH	
Specimen: Comment:	Duodenal biopsies in RPMI. Requires prior arrangement with flowcytometry. RPMI is s	upplied by floweytometry lab Scientist collect
comment.	sample directly from ward.	upplied by howeytometry lab. Scientist conect
Turnaround:	3-5 working days	
Ref. Range:	Interpretation by Consultant Haematologist on report form	
	r Direct Immunofluorescence (DIF)	
Laboratory:	Please notify Histopathology staff, GUH at least 24 hours i	
Specimen:	Place the biopsy in normal saline to maintain hydration and contact details on request form.	a deliver to the laboratory immediately. Includ
Comment:	Health & Safety precautions	
Report:	Histological diagnosis	
Renal Biopsy fo	r Electron Microscopy	
Laboratory:	Please notify Histopathology Staff, GUH at least 24 hours	n advance
Specimen:	Place the biopsy in normal saline to maintain hydration and	d deliver to the laboratory immediately. Includ
<b>a</b>	contact details on request form.	
Comment: Report:	Health & Safety precautions Histological diagnosis	
<b>Renin</b> Laboratory:	Clinical Biochemistry, GUH	
Specimen:	4.0 mL K ⁺ EDTA blood, send to lab immediately, lab to se	parate and freeze
Comment:	Please provide clinical/antihypertensive medication details	-
Turnaround:	3 weeks	
Ref. Range:	On report form	
Respiratory Syr	*	
Laboratory: Specimen:	Virology, GUH	
Comment:	Combined nasal/throat swab in viral transport medium Seasonal availability only	
Turnaround:	2- 3 working days	
Report:	Detected/Not Detected	
Reticulocyte Co	unt	
Laboratory:	Haematology, RUH	
Specimen:	3.0 mL K ³ EDTA blood,	
Turnaround: Ref. Range:	Urgent: 1 hour. Routine 4 hours. Refer to report	
Rheumatoid Fa		
Laboratory:	Immunology, GUH	
Specimen:	5.0 mL blood in plain gel tube	
Comment:	Requests for Rheumatoid Factor will also be tested for Ant	i-CCP
Turnaround:	5 working days 0 – 14 IU/ml	
Ref. Range:		
<b>Rickettsia sp. ar</b> See "Coxiella"	ntibodies	
<b>Ristocetin CoFa</b> Laboratory:	tetor (RiCof) (VW F : RiCof) Haematology, GUH	
Specimen:	2 x 2.7 mL blood in a 0.109m Sodium Citrate tube.	
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	ints is an internal RUH controlled document that is designed to	r onune viewing

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~ ~ ~		
Comment:	Prior authorization by Consultant Haematologist or SPR. A specimen. Must fill bottles to mark.	Arrange with coagulation laboratory before taking
Turnaround:	4 weeks	
Ref. Range:	Refer to report	
0		
ROS-1		
Laboratory:	Department of Histopathology, Cytopathology and Molecu	
Specimen:	Tissue samples already processed by the Histopathology la	aboratory, arrange via Consultant Pathologist
Comment:	Test available on request by Pathologist	and Malacular Dethology are 001 544079
Referrals:	Contact the Department of Histopathology, Cytopathology	and wolecular Pathology on 091 544078
Furnaround:	5-10 working days after request from Pathologist received	inician of Anotomia Defectory Department
Report:	Integral part of Histopathology report issued by the D	ivision of Anatomic Pathology, Department of
	Histopathology, Cytopathology and Molecular Pathology	
	ovirus Faecal Antigen	
Laboratory:	Medical Microbiology, GUH	
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.pdf
Rubella IgG Ant	ibody	
Laboratory:	Virology, GUH	
Specimen:	5.0 mL blood in a plain gel tube	
Turnaround:	2 working days	
Report:	Reported in IU/ml with relevant comment	
Puballa IaM An	tibody - Serology	
Laboratory:	Virology, GUH	
Specimen:	5.0 mL blood in a plain gel tube	
Furnaround:	1 week	
Report:	Detected / Not Detected	
•	Delotad A Alt Delotad	
Salicylate		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5.0 mL blood in a plain gel tube	
Furnaround:	Urgent: 1hour. All other requests: 3hours.	
Interpretation:	On report form	
SARS CoV - 2 (		
Laboratory:	Virology, GUH	
Specimen:	Combined nasal/throat /nasopharyngeal swab in viral trans	sport medium
Comment:	If delay refrigerate @ 2-8°C.	
Furnaround:	1 - 2working days	
Report:	Detected / Not Detected / Indeterminate	
Schistosoma hae	matobium	
Laboratory:	Medical Microbiology, GUH	

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Schistosomal hae	matobium antibodies
Laboratory:	Referred to the Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	5.0 mL blood in a plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	2-3 weeks
Report:	Positive/Negative
Selenium	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Royal blue trace element tube
Turnaround:	5 days
Ref. Range:	On report form
Semen Analysis	
See "Post-Vasecto	omy analysis"
Serum Amyloid A	A (SAA)
Laboratory:	Referred to Immunology dept, Northern General hospital, Sheffield
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	3 weeks
Ref. Range:	refer to report
	lectrphoresis (SPE)
Refer to Immunog	
SHBG	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Female – only analysed where testosterone >1.2nmol/L.
Turnaround:	Priority : 1 working day. Routine : 2 working days
Ref. Range:	On report form
Sickle Screen (Si	ckledex)
Laboratory:	Haematology, GUH
Specimen:	3.0 mL K ³ EDTA blood
Comment:	Must give clinical details, transfusion history and ethnic origin of patient. Test not valid on children under
	six months of age. All sickledex requests are referred for further confirmation of results by HPLC.
Turnaround:	1 day for screen. 4 weeks for confirmation by HPLC
Report:	Positive / Negative
Sirolimus	
Laboratory:	Referred to Biochemistry, Mater Hospital
Specimen:	x2 3ml EDTA blood
Turnaround:	1 – 3 weeks
Ref. Range:	Patient specific
Skin Punch Biop	sy for Direct Immunofluorescence (DIF)
Laboratory:	Please notify Histopathology staff GUH at least 24 hours in advance.
Specimen:	Place the biopsy in a fully labelled suitable sized container without any preservative and deliver to the
	laboratory immediately, with completed request form. Include contact details. If the biopsy is from outside
	University Hospital, Galway, the sample may be sent in a suitable transport medium (e.g Michel's or Zeuss
	medium).
0	
Comment: Report:	Health & Safety precautions Histological diagnosis

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Skin Swab			
Laboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publication	ns/LM%20MDOC%200009%203%2013.	
Sodium			
Laboratory:	Biochemistry RUH		
Specimen:	5 mL blood in a plain gel tube		
Furnaround:	Urgent: 1 hour. Routine 4 hours.		
Ref. Range:	On report form		
Sodium (Urine)			
Laboratory:	Biochemistry, RUH		
Specimen:	Random urine sample		
Turnaround:	1 working day		
Ref. Range:	On report form		
Sodium Valproate (	Epilim)		
Laboratory:	Clinical Biochemistry, GUH		
Specimen:	5 mL blood in a plain gel tube		
Comment :	Take specimen immediately before next dose (trough speci	men)	
Turnaround:	1 week.		
Therapeutic Range:	On report form		
Somatomedin (IGF	1)		
See "Insulin Like Gr	owth Factor 1"		
Sputum Culture			
Laboratory:	Medical Microbiology, GUH		
Details:	Refer to https://www.saolta.ie/sites/default/files/publication		

Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf	
Sputum - Cytology		
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Specimen:	0.5 ml to 20 mL spontaneous or induced fresh specimen collected into a 20 mL or 50 mL twist top leak proof universal container.	
Comment:	Indicate clinical history on test requisition and reason for test. Sputum must be deeply coughed from lungs. Avoid oral contamination and saliva. Early morning upon rising is the preferred collection time. Refrigerate if necessary.	
Turnaround:	80% by 5 working days	
Report:	Detection of neoplastic and non neoplastic cells.Detection of infectious organisms.	
Stem Cell Quantification		

Laboratory:	Haematology, GUH
Specimen:	3.0 mL K ³ EDTA blood or specimen from aphaeresis collection.
Comment:	All Stem Cell quantifications must be preauthorized by Consultant Haematologist or SPR and prearranged with both laboratory and point of clinical activity. Specimen must be accompanied by special request form available from the Haematology laboratory and signed on receipt in the laboratory.
Turnaround:	1 day
Ref. Range:	N/A
Steriod profile (	Urine 24 hour)
Laboratory:	Dept. Of Clinical Biochemistry, Kings College Hospital, London. SE59RS. Phone 00442032994131
<b>C</b>	

#### Specimen: 24hr urine palin urine container

specifien.	24iii uffie paini uffie container
Comment:	Lab to send 20ml aliquot. State volume on request form
Turnaround:	3 weeks
Ref. Range:	on report

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Strongyloides ar	ntibodies Referred to the Hospital for Tropical Diseases, London WC	
Laboratory: Specimen:	5 mL blood in a plain gel tube	LIE OAU
Comment:	Only available in very specific cases and following approv	al by a Consultant Microbiologist
Furnaround:	2-3 weeks	
Report:	Positive/Negative	

Ref. Range: N/A

## Sural Nerve Biopsies

Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Fresh tissue
Comment:	Immediate dispatch to laboratory where tissue pieces are osmicated/formalin fixed.
Report:	Histological diagnosis

## Surgical Specimens for Histological Examination

Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH	
Specimen:	Formalin fixed tissue	
Comment:	Health & Safety precautions	
Report:	Histological diagnosis	
Swab - Culture		

#### Swap - Cultur

Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

## Synovial Fluid

~ J	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

## Synovial Fluid – Cytopathology

See "Joint aspirate"

be some apprace		
Syphilis (Treponema pallidum) antibodies		
Laboratory:	Virology, GUH	
Specimen:	5 mL blood in a plain gel tube	
Turnaround:	2-3 working days	
Report:	Detected/Not Detected	
T3 (Total)		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	5 mL blood in a plain gel tube	
Turnaround:	1 week	
Comment:	Assay only available by request from Endocrine Team or by prior agreement with Dr. Damian Griffin	
Ref. Range:	On report form	
Tacrolimus (Prograf/Advagraf)		
Laboratory:	Clinical Biochemistry, GUH	
Specimen:	4ml K ⁺ EDTA blood	
Comment:	Collect sample pre-dose. State date/time of sample collections clearly on request form.	
Turnaround: 1 week		
Ref. Range:	Patient specific	
Tartrate Resistant Acid Phosphatase (TRAP) Cytochemical Stain		
Laboratory:	Haematology, GUH	
Specimen:	3.0 mL K ³ EDTA blood/Bone marrow slides	
Comment:	Prior authorization by Haematology SPR. To reach lab within 8 hours of phlebotomy.	
Turnaround:	2 days Ref. Range:N/A	
Tear Duct - Culture		
Laboratory:	Medical Microbiology GUH	

Laboratory:	Medical Microbiology, GUH
Details:	$Refer \ to \ https://www.saolta.ie/sites/default/files/publications/LM\% 20MDOC\% 200009\% 203\% 2013.pdf$

# ROSCOMMON UNIVERSITY HOSPITALPATHOLOGY LABORATORYTITLE No: RCH/PATH/PD/001 Pathology Laboratory<br/>User ManualVersion: 16Page 80 of 86Effective Date: 02/05/2025

#### Testosterone

Turnaround:Priority: 1 working day. Routine: 2 working days	Laboratory:	Clinical Biochemistry, GUH
	Specimen:	5mL blood in a plain gel tube collected between 8 -10 am
Ref. Range: On report form	Turnaround:	Priority: 1 working day. Routine: 2 working days
	Ref. Range:	On report form

#### **Tetanus Toxoid IgG Antibodies**

	8
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Turnaround:	5 weeks
Ref. Range:	Minimum Protective Level > 0.01 IU/mL
-	Optimum Protective Level > 0.10 IU/mL

#### Theophylline (Aminophylline)

Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Take specimen immediately before next dose (trough specimen)
Turnaround:	1 week
Therapeutic Range:	On report form

#### Thiopurine methyl transferase (TPMT)

Laboratory:	Referred to Eurofins SCDL
Specimen:	Lithium heparin tube. Lab to refrigerate
Turnaround:	1-3 weeks
Ref. Range:	On report form

#### Throat Swab

Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

## Thrombophilia Screen (incl: PT/INR, APTT, Fibrinogen (derived), Antithrombin, Protein C, Free Protein S,

APCResistance, Lupus inhibitor)	
Laboratory:	Haematology, GUH
Specimen:	4 x 2.7 mL blood in a 0.109m Sodium Citrate tube.
Comment: Requests should be received in the laboratory within 4 hours of phlebotomy Mon – Fri during rout working hours. Clinical details and relevant patient and family history are required. Testing should not done during thrombotic period or while the patient is on anticoagulant therapy. Must fill bottles to ma Please send to RUH before 12pm for dispatch at 1pm, otherwise lab to separate and freeze	
Turnaround:	5 weeks
Ref. Range:	Refer to report
Thyroglobulin and Thyroglobulin Anibodies	
Laboratory:	Referred to Biochemistry Lab, St. James' Hospital, Dublin

#### Specimen: 5 mL blood in a plain gel tube Turnaround: 1-3 weeks

i umatouna.	I = J weeks
Ref. Range:	On report form

## Thyroxine Free (Free T4), Thyroid Function test (Free T4, TSH)

Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form

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Total Iron Bindi	ng Capacity (TIBC)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube. Fasting specimen required.
Turnaround:	Urgent: 1hour. Priority: 3 hours. Routine : 2 working days
Ref. Range:	On report form
Tissue	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions
Report:	Histological diagnosis
Tissue / Biopsy	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Tobramycin	
Laboratory:	Medical Microbiology, GUH.
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
	g Screen Urine (Benzodiazepines, barbiturates, opiates, cocaine, propoxyphene, cannabis, amphetamine, ncyclidine, phenothiazine, alcohol)
Laboratory:	Referred to Eurofins SCDL
Specimen:	Random plain urine
Turnaround:	1 - 3 weeks
Comment:	Parental consent required in patients <18 years old
Report:	On report form
	·
Toxocara Antibo	
Laboratory:	Referred to the Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	5 mL Blood in a plain gel tube
Comment:	Only available in specific cases and following approval by the Microbiology Medical Staff.
Turnaround:	2-3 weeks
Report:	Positive/Negative
	dii IgG antibodies
Laboratory:	Virology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1-2 working days
Report:	Detected/Not Detected.
	dii IgM antibodies
Laboratory:	Virology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1-2 working days
Report:	Not Detected, if negative. A Provisional report will be issued on any sample giving reactive
	findings on initial testing. These specimens are referred to the Health Protection Agency, Singleton Hospital Swansea SA2 8QA for further testing and a final report.
Toxoplasma gon	dii antibody /avidity/dye test
Laboratory:	Referred to the Health Protection Agency, Singleton Hospital, Swansea SA2 8QA
Specimen:	5 mL blood in plain gel tube
Comment:	Available only in specific cases and approval of a Consultant Microbiologist
Turnaround:	1-2 weeks
Report:	Detailed report with relevant comment.
report.	Detailed report with relevant confinent.

## ROSCOMMON UNIVERSITY HOSPITALPATHOLOGY LABORATORYTITLE No: RCH/PATH/PD/001 Pathology Laboratory<br/>User ManualVersion: 16Page 82 of 86Effective Date: 02/05/2025

Transferrin	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5ml blood in plain gel tube. Fasting specimen required.
Turnaround:	Urgent: 1hour. Priority: 3 hours. Routine : 2 working days
Ref. Range:	On report form
% Transferrin S	
Laboratory:	Clinical Biochemistry
Specimen:	5mL blood in a plain gel tube. Fasting specimen required.
Comment:	Calculated Parameter
Turnaround:	Urgent: 1hour. Priority: 3 hours. Routine : 2 working days
Ref. Range:	On report form
	action Investigation (also see Transfusion pack (blood product) for culture below)
Laboratory:	Blood Transfusion Laboratory RUH and Blood & Tissue Establishment GUH
Specimen:	Refer to Transfusion Prescription & Administration Document for Blood & Blood Components
	RCH/HVIG/CF 009 document for list of samples required
Comment:	Ensure labeling as per Haemovigilance procedure. Urine haemosiderin and DCT referred to GUH with
	turnaround times stated under indiviual tests in this document
Turnaround:	1 day (excluding haemisiderin and culture)
Report:	Positve or Negative
Transfusion Pac	ek (Blood product) for culture
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Trichomonas va	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Triglycerides	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube
Comment:	Ideally a patient should fast for 12 hours. However, if a patient in unable or unwilling to fast for 12 hours a
	specimen taken after a 9 hour fast is acceptable".
Turnaround:	Urgent: 1hour. Priority: 3 hours. Routine : 2 working days
Ref. Range:	On report form
Troponin T	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Trypanosoma ci	ruzi Antibodies
Laboratory:	Referred to the Hospital for Tropical Diseases, London WCIE 6AU
Specimen:	5 mL blood in a plain gel tube
Turnaround:	2-3 weeks
Report:	Positive/Negative
-	

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Tryptase (Mast	Cell)
Laboratory:	Immunology, GUH
Specimen:	5.0 mL blood in plain gel tube
Comment:	For investigation of anaphylaxis serial samples are required and the timing must be specified. Timing of
	samples: Immediately after resuscitation (record time); At 1-2 hours post reaction (record time) and at 24
	hours post reaction (baseline)
Turnaround:	3 weeks
Ref. Range:	0-14 units
TSH (Thyroid S	timulating Hormone)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0 mL blood in a plain gel tube
Turnaround:	Priority: 1 working day. Routine: 2 working days
Ref. Range:	On report form
TSH Receptor A	ntibodies
Laboratory:	Immunology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	1 - 3 weeks
Ref. Range:	On report form
Tuberculosis Te	sting
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Tumour	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen intact to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions.
Report:	Histological diagnosis
TURP	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Submit specimen to laboratory in 10% Neutral Buffered Formalin.
Comment:	Health & Safety precautions
Report:	Histological diagnosis
Ulcer Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Urea	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Urea (Urine)	
Laboratory:	Biochemistry, GUH
Specimen:	24 hour urine collection, plain
Turnaround:	1 working day
Ref. Range:	On report form
Urethral Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf

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Uric Acid	
Laboratory:	Biochemistry, RUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	On report form
Uric Acid (Urine	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	24 hour urine collection, plain
Turnaround:	1 working day
Ref. Range:	On report form
	Midstream Urine
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Urine - Diagnosti	
Laboratory:	Department of Histopathology, Cytopathology and Molecular Pathology, GUH
Specimen:	Immediate fixation is necessary. Collect $10 - 20$ mL fresh voided or catheterized urine or bladder wash
	specimen into a universal bottle containing Shandon Cytospin Collection Fluid (greenfixative solution)
	available from the Diagnostic Cytology laboratory.
Comment:	Indicate clinical history on test requisition and reason for test. Patients must be well hydrated before
	collecting urine. Any instrumentation must be noted on the requisition form. For routine urine collection,
	emphasize the need for a clean catch specimen. Random mid-day collection is preferred. First morning
	specimen is not suitable for Cytological analysis. Refrigerate specimens overnight if necessary.
Turnaround:	80% by 5 working days
Report:	Detection of neoplastic and non neoplastic cells
Urine Protein Ele	
Refer to 'Bence Jo	ones Protein'
Urine Protein Cr	reatinine Ratio (PCR)
Laboratory:	Biochemistry RUH
Specimen:	Urine: Early morning sample preferred
Turnaround:	1 working day
Ref. Range:	on report form
Urine Schistoson	niasis (see Schistosoma haematobium)
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Vaginal Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Vancomycin	
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5 mL blood in a plain gel tube. Delay > 2 h refrigerate @ $2-8^{\circ}$ C.
Comment:	State time collected and if Peak or Trough specimen
Turnaround:	Analysed during routine working hours only.
Ref. Range:	On report form

## Vancomycin Resistant Enterococci (VRE)

Laboratory:Medical Microbiology, GUHDetails:Refer to <a href="https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf">https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf</a>

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Varicella-zoster	Virus IgG antibodies
Laboratory:	Virology, GUH
Specimen:	5 mL blood in a plain gel tube.
Turnaround:	5 working days. Samples from pregnant patients who have been in contact with chickenpox are processed urgently if received before 2pm Monday to Friday. The request must be marked as Urgent with clinical details, and the requesting clinician's contact number, clearly stated. The laboratory should be contacted (091 544398) to alert staff that the sample is in transit.
Report:	Reported as Detected/Not detected with relevant comment.
Varicella-zoster	Virus IgM PCR
Laboratory:	Referred to National Virus Reference Laboratory
Specimen:	Vesicular fluid or skin scrapings in a Viral Transport Medium swab
Turnaround:	2 - 3 weeks.
Report:	Detected / Not Detected
Vasculitic Scree	n
Laboratory:	Immunology, GUH
Specimen:	5 mL blood in a plain gel tube
Turnaround:	5 days
Ref. Range:	On report form
Vincent's Angin	a
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Vitamin B12	
Laboratory:	Haematology, RUH
Specimen:	5.0 mL blood in a plain gel tube
Comment:	Specimen to be received within 24hrs of phlebotomy
Turnaround:	1 day
Ref. Range:	Refer to report
	Iydroxy Vitamine D3 / Hydroxycholecalciferol)
Laboratory:	Clinical Biochemistry, GUH
Specimen:	5.0mL blood in a plain gel tube
Turnaround:	2-3 weeks
Ref. Range:	On report form
VMA	
See "Catecholam	ines"
Von Willebrand	ls Factor Antigen (vWF:Ag)
Laboratory:	Haematology, GUH
Specimen:	2 x 2.7 mL blood in 0.109m Sodium Citrate tubes
Comment:	Requests should be received in GUH laboratory within 8 hours of phlebotomy. Must fill bottle to mark.
Turnaround:	4 weeks
Ref. Range:	Refer to report
VRE	n Desistant Entenessesi"

See "Vancomycin Resistant Enterococci"

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	Il & Differential White Cell Count
Laboratory:	Haematology, RUH 3.0 mL K ³ EDTA blood
Specimen: Comment:	White Cell Differential will be done automatically on all fresh FBC specimens. As EDTA artifacts can
Comment.	appear within 2 hours of phlebotomy it is important that films (where neccessary) are made from fresh blood
	(less than one day old).
Turnaround:	Urgent: 1 hour. Routine 4 hours.
Ref. Range:	See report form.
Whooping Coug	•
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Whooping Coug	
See "Bordetella	
Wound Swab	
Laboratory:	Medical Microbiology, GUH
Details:	Refer to https://www.saolta.ie/sites/default/files/publications/LM%20MDOC%200009%203%2013.pdf
Yellow fever and	
Laboratory:	Referred to the Health Protection Agency, Special Pathogens Reference Unit, Porton Down, Salisbury SP4
	OJG.
Specimen:	5.0 mL blood in a plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	1-3 weeks
Report:	Positive /Negative
Yersinia Antibo	
Laboratory:	Referred to the Health Protection Agency, Laboratory of Enteric Pathogens, Colindale, London NW9 5EQ
Specimen:	5.0 ml blood in a plain gel tube
Comment:	Only available in very specific cases and following approval by a Consultant Microbiologist
Turnaround:	2-3 weeks
Report:	Detected/Not Detected
Zinc	
Laboratory:	Referred to Eurofins SCDL
Specimen:	Navy top trace element tube
Turnaround:	3 weeks
Ref. Range:	On report form