



SHROPSHIRE HOUSE

2-10

HCA UK Laboratories user guide

Welcome to HCA UK Laboratories

This handbook tells you about our laboratories and what we can do for you.

It includes lists of all the tests we offer and how to order them. Before you order a test, please take a look at the relevant sample requirements – this will help us to work effectively and provide your results as soon as possible.

We hope you can find all the information you need here. But if there's anything you want to ask, please call us on **020 7486 5091** or email: hcalaboratories@hcahealthcare.co.uk.

We're always happy to help.

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1. Who we are and what we offer:

For over 35 years, we've offered pathology services to all kinds of clients – from private hospitals to NHS primary care services and hospitals, insurers to IVF clinics. We analyse patient specimens such as blood and tissue, using bespoke panels as well as routine tests, to help make diagnoses and pinpoint the right treatment options for patients.

We're part of HCA Healthcare UK, one of the largest providers of privately funded healthcare in the country. So, as well as serving many independent providers, we provide pathology for HCA's hospitals:

- Leaders in Oncology Care
- London Bridge Hospital
- The Harley Street Clinic
- The Lister Hospital
- The Portland Hospital
- The Princess Grace Hospital
- The Wellington Hospital

We cover:

Blood sciences:

- Biochemistry
 - Blood transfusion
 - Haematology
-

Infection and immunity:

- Allergy
 - Immunology
 - Microbiology
 - Serology
 - Virology
-

Cellular pathology:

- Cytopathology
 - Histopathology
-

Genomics and Sarah Cannon Molecular Diagnostics

Rare and bespoke tests

We also work with specialist laboratories to offer rare and bespoke tests. If you have special requirements – or if you just can't find the test you're looking for – please give us a call. We can source the test you need.

2. Our facilities:

Shropshire House

Our main laboratory is at:



Shropshire House

10A Capper Street, London WC1E 6JA

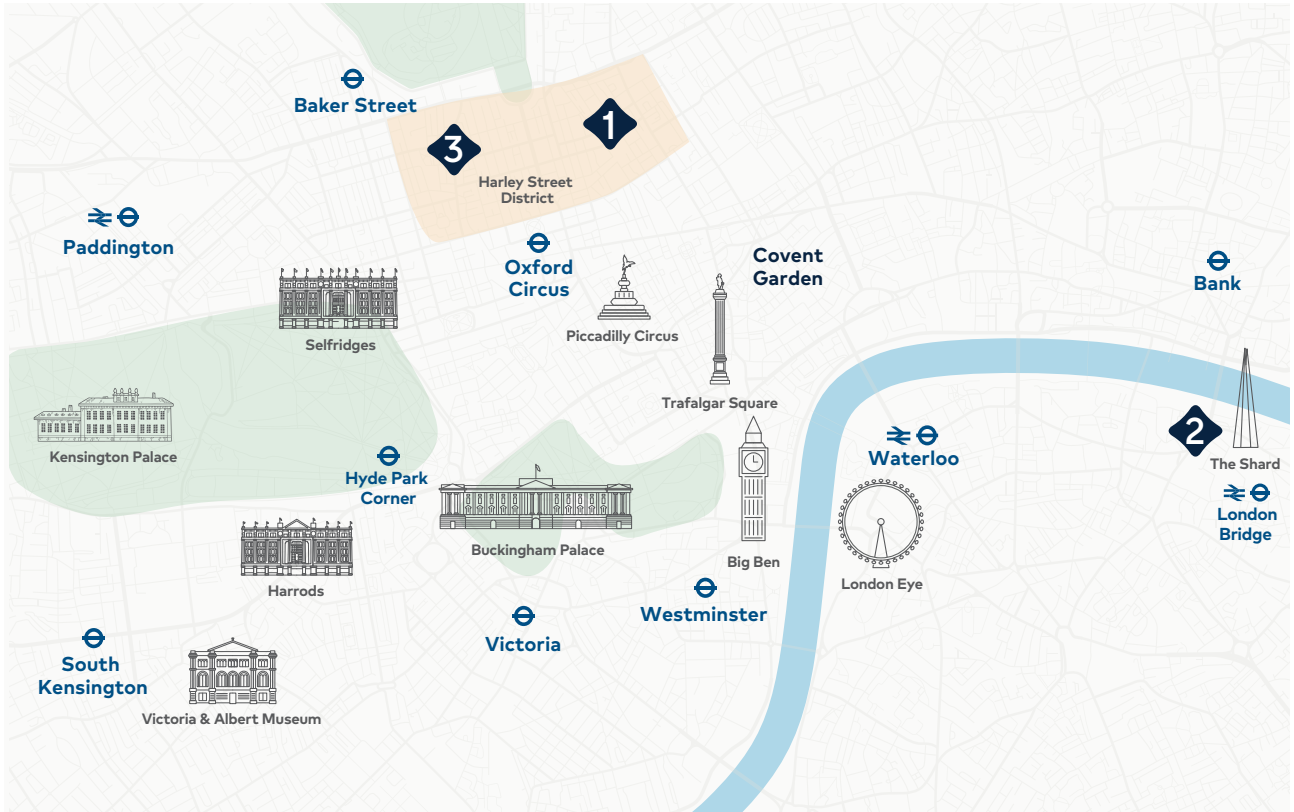
T: [020 7486 5091](tel:02074865091)

Routine opening hours of the lab are:

Monday to Friday 8.00am to 8:30pm

Saturday and Sunday 9.00am to 5.00pm

However, our laboratory is staffed 24 hours a day, 7 days a week. We still run tests outside our routine hours, but on a reduced service. You can still send samples, both urgent and routine, to us at any time.



Other facilities

We also have other laboratories at London Bridge Hospital and Leaders in Oncology Care, Harley Street. This improves our contingency in the event of any technical difficulties.

2 London Bridge Hospital
27 Tooley St,
London SE1 2PR

3 Leaders in Oncology Care
95-97 Harley Street LOC,
London W1G 6AF

3. Our commitment to quality

We are committed to:

Doing the right things, for the right people at the right time – and doing them right first time.

We know we can only achieve this with robust quality management systems.

Using our Quality Management System (QMS), we follow approved standard operating procedures and monitor all aspects of our analytical processes.



9059

HCA UK Laboratories
has been granted
ISO 15189 accreditation
by UKAS.

Further information and a list of accredited tests can be found on the UKAS website:

[ukas.com/wp-content/uploads/
schedule_uploads/00007/9059-
Medical-Multiple.pdf](https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/9059-Medical-Multiple.pdf)

We also train our people and maintain standards through competency assessment programmes. Above all, we create a 'quality culture' that allows us to constantly reach higher standards and reduce variations in practice between departments. A dedicated Quality Management team manages the QMS, regularly reviewing our objectives and identifying areas for improvement.

Data protection:

We handle all data in line with GDPR. For more detailed information, please see our privacy policy on:

hcahealthcare.co.uk/legal/privacy-policy/

Get in touch

For general enquiries, such as sample requirements, test results, pricing and invoicing, email us at hcalaboratories@hcahealthcare.co.uk. We aim to respond to emails within 30 minutes during routine office hours Monday to Friday. Alternatively, call us on **020 7486 5091**.

Chief Executive Officer	Charles Percy	Charles.Percy@hcahealthcare.co.uk / kimberley.tran@hcahealthcare.co.uk
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Technical Services Manager: Haematology and Satellite Labs	Patsy Lydon	Patsy.Lydon@hcahealthcare.co.uk
Technical Services Manager: Infection and Immunity	Paul Jones	Paul.Jones@hcahealthcare.co.uk
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Consultant Clinical Scientist: Biochemistry	Louise Oliver	Louise.Oliver@hcahealthcare.co.uk
Director of Quality and Risk	Katherine Scouler	Katherine.Scouler@hcahealthcare.co.uk
Head of Commercial	Jack Shepherd	Jack.Shepherd@hcahealthcare.co.uk

For technical queries, please get in touch with the relevant department – turn to their section in this handbook for their contact details.



ORDERING TESTS



Ordering tests

If you want to order a test, please check the following pages to see what we need from you. Also check the relevant departmental information to check any particular sample requirements – **especially for Blood Transfusion, Microbiology, Histopathology, Cytopathology and 24 hour urine tests, where there are some extra bits of information we need from you.**

If you have any questions at all about how to order, please just give us a call.

URGENT SAMPLES: if your sample is urgent, send us a red 'urgent' card along with your request form, or package the sample in a red 'urgent' bag.

INFECTIOUS SAMPLES: We use 'high risk' stickers for infectious samples.

Just call us if you need any cards, bags or stickers.

Ordering pathology supplies

We may be able to help you order supplies including sample tubes, urine pots, needles and swabs, as well as the cards you need to mark samples as urgent or high risk. Additionally, we can help with all the materials you need to package and post the samples, such as specimen bags and pre-paid envelopes.

For assistance, contact us on [020 7486 5091](tel:02074865091) or MaterialsMgmtLabs@hcahealthcare.co.uk and we would be happy to help.

1. Preparing to take samples

In order to take a patient's blood, or any other bodily sample, it is necessary to obtain the patient's valid consent.

In each case, it is the responsibility of the clinician to ensure that the patient understands the reason for making the request for an examination and the range of tests that may be involved. Those reasons for investigation should be conveyed clearly to those undertaking the examination.

It is important to remember that the initial consent is likely to involve a request to investigate what is wrong, rather than to perform a specific set of analyses. Clinicians must document the consent they have obtained in the patient's medical records. They must also document the material risks of taking blood that they have discussed with the patient e.g. bruising.

Patients can give consent orally or, in writing, or they may give non-verbal consent by agreeing to the proposed examination or treatment, so they understand the treatment or examination about to take place. For example, by asking the patient to hold out their arm to have their blood sample taken. Further information on consent can be found on the BMA website:

bma.org.uk/advice-and-support/ethics/seeking-consent/seeking-patient-consent-toolkit

2. Taking samples

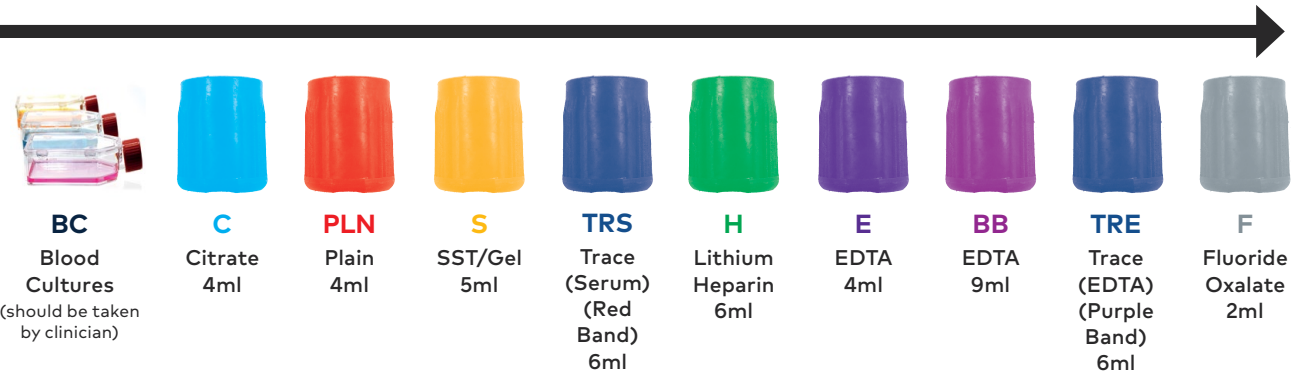
The expiry date of all primary specimen containers and transport media must be checked prior to use to ensure they are in-date. When taking samples, follow local infection prevention and control guidelines. Please make sure you use the correct tubes or containers, and fill them to the line indicated. Be sure to take samples in the correct order, if applicable, and always mix samples gently.

For blood samples, if a patient is particularly difficult to bleed (for instance, if they're a paediatric patient), feel free to call us to check the minimum volumes we need.

When ordering different tests from different departments, please send separate samples along with your request form where possible. This will allow us to work more efficiently and

Faeces in sterile universal	FAEC
Random Urine in sterile universal	RU
24-Hour Urine – no preservative Please state start and finish time	24U
24-Hour Urine – Acidified Please state start and finish time	24UA
Early Morning Urine in sterile universal	EMU
Mid Stream Urine in sterile universal	MSU
Initial Stream (first catch) Urine in sterile universal	IU
Sterile Universal (30ml or 60ml)	SU
Thin Prep vial	TP
qFIT collection device	QFIT

Order of draw (Appropriate for BD tubes only)



get the results
back to you faster.



Straight Wire –
For pernasal and
urogenital.

Code: CSW



**Chlamydia/Gonorrhoea
PCR Swab –**
For urogenital chlamydia
and/or gonorrhoea PCR.

Code: XPT



Charcoal Swab –
For general cultures,
MRSA cultures, wound,
skin, urogenital and throat.

Code: CS



UTM –
Viral PCR tube.

Code: VIR



Duo Swab –
For MRSA by
PCR only.

Code: DUO



Dry Swab –
For some
PCR tests.

Code: DS



Blue Top Swab –
For wound, skin and
some routine cultures.

Code: BLU



Liquid Amies swab –
For Strep A PCR swab
only.

Code: LIQAM

3. Completing request forms and labelling samples

When you submit samples, you will also need to send a request form.

For us to comply with regulatory requirements and to keep all patients safe, we need the forms to be completed fully and the samples to be labelled correctly. If we don't have all the right information from you, we may not be able to process your sample.

The request form

The request form should include:

- patient's forename and surname*
- patient's date of birth*
(not just their age)
- ID / hospital number*
- patient's gender
- patient's address
- clinical information and / or provisional diagnosis
- test required
- date and time of collection
- confirmation of what you're sending
(e.g. 3 EDTA tubes)
- referring practitioner's name AND signature

* The minimum acceptable patient identifiers. These must be exactly the same on both the request form and the sample.

Sample Labelling

Please label samples in the presence of the patient, to avoid errors. Please label all samples and make sure you include:

- patient's forename and surname*
- patient's date of birth*
(not just their age)
- ID / hospital number*
- date and time of collection
- the sample taker's initials
- sample site or description of the sample
(for Microbiology, Histopathology and Cytopathology)

There are extra requirements for Blood Transfusion, Microbiology, Histopathology, Cytopathology and 24 hour urine tests.

So please take a look at those sections to see exactly what we need from you.

Unfortunately, we will not be able to process samples where:

- **Samples sent are unlabelled**
- **Information on the sample or request form is incomplete**
- **Discrepancies exist between the information on the sample and request forms.**

* The minimum acceptable patient identifiers. These must be exactly the same on both the request form and the sample.

4. Sending samples

Once you've collected the sample and completed the request form, ensure the lids are fully secure, nothing is leaking and package everything up.

Samples should be placed in the main pouch of an individual biohazard bag and sealed. The request form should be placed in the pocket of this bag and include a red card for urgent samples. For suspected/confirmed Hazard Group 3 Organisms (e.g. HIV, TB, Hep B&C or Malaria) apply high risk stickers on the sample and request form and double bag the samples. For suspected/confirmed Hazard Group 4 Organisms that cause Haemorrhagic Fevers (e.g. Ebola, Lassa) contact the infection prevention and control team or the Microbiology Lab before sending samples.

For transportation, place individual biohazard bags into an opaque UN3373 labelled secondary bag and seal. This contains absorbent material and protects patient confidentiality. The secondary bags will be collected by Medical Couriers and transported in locked rigid red boxes. A local record of samples that have been packaged and sent to the laboratory should be kept.

Please do not delay sending samples to us. Be sure to check the relevant section of this handbook to see if any special requirements apply to the tests you're ordering, and follow these closely.

Sending samples by courier

We work with eCourier, a team of trained medical couriers who make collections by bike and on foot. For ad hoc or urgent collections, please call us on **020 7486 5091** and we can arrange for samples to be collected. We can also arrange a regular courier collection with you – just call us to talk about what you need.

Sending samples by post

You can send samples to us by post to our Shropshire House address. However, please confirm with us first to check what tests are suitable for posting, as the delay to testing impacts a large number of tests including most routine tests in Biochemistry and Haematology.

Please be sure to use our approved packaging and prepaid envelopes. You can call us on **020 7486 5091** or email hcalaboratories@hcahealthcare.co.uk for further information.

5. Avoiding rejections

We will have to reject samples that:

- are leaking
- are clotted, haemolysed or too old to process
- do not follow our stated sample requirements.
For instance, in some cases we will reject samples that have not been transported on ice or protected from light

If we need to reject a sample for any reason, we will get in touch with you to explain the problem and add a comment to the patient record. Finally, we cancel the test, and ask you to re-order and send another sample.

If any of these guidelines applies to a sample that can't be repeated, such as a CSF sample or biopsy, a senior member of our team must discuss it with you. In these instances, we decide whether to process or reject the sample on a case by case basis, and report any breaks in protocol for quality and patient safety purposes.

For more information, look at the sample acceptance poster on page **18Δ** or give us a call.

Laboratory samples NOT suitable for analysis

Samples must be labelled with four patient identifiers: first name, surname, date of birth and patient number.

Sample issues	Actions taken and corrective actions required
Mislabelled Unlabelled Leaking Different patients in same sample bag	• Samples are rejected and disposed of • New sample must be collected • Except in exceptional circumstances for 'unrepeatable samples'
Sample and request form ID mismatch	• Request form does not match sample or historical record – Samples are rejected and disposed – New sample must be collected
Required but NOT Transported on ice OR Protected from light OR Kept warm	• Samples are rejected and disposed of • New sample must be collected and immediately after: – Placed on ice immediately after collection OR – Protected from light OR – Kept warm
Clotted Too old to process	• Samples are rejected, disposed and must be recollected • Tests that rely on free cells e.g. FBC cannot be performed on clotted samples
Wrong tube	Samples are rejected, disposed and patient must be re-bled.
Lipaemia Haemolysis Icterus	• Some tests may be performed • Results will be released with an advisory comment • Samples may have to be recollected to perform the missing tests
Unrepeatable Samples	• Histology samples • Cerebrospinal fluid • Samples obtained by invasive procedures • Blood cultures

6. Receiving the results

Turnaround times and referring tests

We refer some tests to specialist laboratory partners. We've chosen these partners based on how quickly they can deliver results while achieving high levels of quality. If we do refer a test, the report will include a code showing the lab where the test was referred to.

Please contact the laboratory should you wish to enquire the specific location of where a test is performed.

The turnaround times stated in this handbook are based on working days. Please note that turnaround times for some of the tests we refer out may be based on a 5 day working week. Don't hesitate to contact us if you need more information.

We can send reports by hard copy, email and electronic link directly into patient management systems. We will not inform the patient of their results. There must be clear local systems for informing patients of their results.

Clinical advice

Our consultants may comment on results that are clinically significant or abnormal, and they may recommend further tests.

Our consultants are available to discuss specific cases where required. To speak to them, call us on 020 7486 5091 during our routine opening hours. Alternatively, you can email our consultants – take a look at the relevant section for their contact details.

Reference ranges

Where appropriate, we include reference ranges on our reports. The reference range and reporting units, including any interpretive information, are specific to the methodology we've used and the patient's sex and age. We keep reference ranges on our system, permanently stored with patients' results. We may flag when results are outside of the reference range. Where results fall within alert or critical intervals, a clinician or other authorised health professional will be notified.

Please contact the laboratory if you require details on measurement uncertainty or reference range establishment.

Cascade testing

Where further testing is recommended that requires the referrer's consent, this will be discussed with the referring party prior to undertaking the additional testing.



7. Paying for tests

Invoicing you

Where account arrangements have been established, we will invoice you each month. You will receive a breakdown of all tests or profiles per patient, with reference numbers where relevant.

Our payment terms are 30 days from the day we send the invoice.

8. Making a complaint

If you are unhappy with any of the service you receive from us, please contact our Customer Care team on hcalaboratories@hcahealthcare.co.uk. In line with our complaints policy we will aim to resolve all formal complaints within 20 working days.



BIOCHEMISTRY





Biochemistry

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

For most biochemistry tests, we'll need a serum separator tube (SST). However, certain tests have other requirements, for instance, red cell folate requires an EDTA sample, while a glucose test requires a fluoride oxalate tube.

Please look at the test lists on the following pages to check what we need from you. Please make sure that, in each case, you supply the right volume – otherwise, we will not be able to report on the sample.

Timings:

Once you've taken a sample, please don't delay in sending it to us. This is especially important for time critical tests – so check the test lists to see if this applies to you. If you need to delay sending the sample, please call us to check how to store it and whether this could affect the results.

Biochemistry

Factors that can affect results:

Haemolysis: this is when red blood cells are ruptured and the contents are released into the plasma or serum. It can happen with difficult venipunctures. It can also happen if the sample is shaken excessively or has been left for too long – so please try to avoid this.

Icterus: this is where a blood sample contains high concentrations of bilirubin, i.e. if the patient is jaundiced. Bilirubin is yellow in colour and is also highly reactive, so can interfere with the analysis of some tests including cholesterol, creatinine and triglycerides. If we are unable to provide a result for a test because of icterus, we will include an explanation on the report.

Lipaemia: this is when there's too much fat in the sample. In certain tests – for instance, potassium, triglycerides and some liver enzymes – it interferes with our analysis. So, if we detect lipaemia in these cases, we won't be able to report on the sample and will include an explanation in our report.

Fasting: with some tests – like fasting glucose or lipid profiles – the patient needs to fast before giving a sample. Please make sure the patient fasts for at least 8 hours, preferably overnight. During this time they shouldn't consume anything but water. If the patient fasts for less than 8 hours, we will treat the sample as non-fasting.

Biochemistry

Ordering additional tests:

We can often carry out additional tests using the samples you've already sent us, depending on the requirements of the new tests and the age of the samples.

Typically, we keep routine serum and plasma samples for four days and routine urine samples for a week. For drugs of abuse testing, we keep negative samples for a month and positive samples for 13 months. So contact us to check whether you can order any additional tests within these timeframes.

To order additional tests, please call us on **020 7486 5091** or email: hcalaboratories@hcahealthcare.co.uk.

Biochemistry



24 hour urine collection:

If you're collecting urine samples over a 24 hour period, call us and we'll send you the urine collection containers and collection instructions you need. Depending on the test, we'll give you a plain container or one containing acid preservative. Please read the instruction sheet and safety information.

Once you have the sample, please make sure it is labelled correctly – as well as the information on page 15, please include the start date and time of collection as well as the finish date and time of collection. If the collection does not cover the full 24 hours, the results will be invalid.

Useful contacts

In the first instance, please contact the Customer Service team at:

hcalaboratories@hcahealthcare.co.uk

or call **020 7486 5091**.

For technical queries about Biochemistry, email us on:

HCAChemistry@hcahealthcare.co.uk

or call us on **020 7034 4535**.

Biochemistry

Test Name	Code	Sample Type	TAT
1,25 DihydroxyvitD	VITD3	S S Send stat on ice	5 days
11-Deoxycortisol	11CORT	S	10 days
14-3-3 (CSF)	CSF1433	CSF Contact the Lab - send stat on ice	25 days
17-OH Progesterone	17OHP	S	4 days
24 Hour Urinary Zinc	24ZINC	24U	2 weeks
24 Hour Urine Citrate	24CITR	24U	7 days
24 Hour Urine Copper	24COPP	24U	8 days
24h Urine Glycollate Excretion	24GLYCO	24U	10 days
2hr GTT with insulin	INSULINCRV	Contact the Lab	4 hours
50HIAA (24h Excr)	5HIAA	24UA	7 days
5-HIAA (Random Urine)	UHIAA	24UA	7 days
5'-Nucleotidase	5NUCL	S	7 days
6-Thioguanine Nucleotide	6TGN	E E	7 days
A1AT (Faecal)	FAECA1AT	FAEC Send stat on ice - sample must be fresh	3 days
A1AT Phenotype	A1ATPHENO	S	10 days
Acid Maltase	MALTASE	H H Send stat - Mon - Thurs only	4-6 weeks
Acid Phosphatase	APT	S Send stat on ice	5 days
ACTH	ACTH	E E Send stat on ice	3 days

S

 = SST/Gel 5ml
 24U = 24 Hour Urine – no preservative (please state start/finish times)

E

 = EDTA 4ml
 FAEC = Faeces in sterile universal
 RU = Random Urine in sterile universal

H

 = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Active B12 (HoloTC)	B12ACT	S	2 days
Acylcarnitine Profile	CARN5	Guthrie Card	2 weeks
Acylcarnitines (Bloodspot)	CARNITINE	Guthrie card	2 weeks
Adalimumab	ADALIMUMAB	S Contact the Lab	12 days
Adenosine Deaminase (Fluid)	FLADA	RU	2 weeks
Adiponectin	ADIPON	S S	2 weeks
AFP	AFP	S	4 hours
AFP (CSF)	CSFAFP	SST, CSF	5 days
Alanine Transaminase (ALT)	ALT	S	4 hours
Albumin	ALB	S	4 hours
Albumin Creatinine Ratio (ACR)	UALB	RU	4 hours
Aldolase	ALDO	S	5 days
Aldosterone	ALST	E Must reach Lab within 1 hour of collection	6 days
Alkaline Phosphatase (ALP)	ALP	S	4 hours
ALP Isoenzymes	ALPI	S	1 week
Alpha Galactosidase	GALCALPHA	H H Contact the Lab	6 weeks
Alpha Subunit	ALPHAPIT	S Fasting	7 days
Alpha-1 Antitrypsin	A1AT	S	4 hours
Alpha-2 Macroglobulin	A2MACRO	S	5 days

S = SST/Gel 5ml
 RU = Random Urine in sterile universal
 E = EDTA 4ml
H = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Aluminium	ALUM	TRS Contact the Lab - special bottle required	7 weeks
Amikacin	AMIK	S	4 hours
Amikacin (Post-Dose)	AMIKPOST	S	4 hours
Amikacin (Pre-Dose)	AMIKPRE	S	4 hours
Amino Acids (CSF)	CSFAA	CSF Send stat on ice	2 weeks
Amino Acids (Urine)	UAA	RU Send stat on ice	9 weeks
Amiodarone	AMIOD	PLN PLN Contact the Lab - send stat on ice	10 days
Amitriptyline	AMITRIP	PLN PLN Contact the Lab - send stat on ice	10 days
Ammonia	AMMO	E Send stat on ice	4 hours
Amphetamines Screen (Urine)	UAMP	RU	4 hours
Amylase	AMY	S	4 hours
Amylase (Fluid)	FLAMY	MISC (SU)	4 hours
Amylase (Urine)	UAMY	RU	4 hours
Amylase Isoenzymes	AMYISO	S	1 week
Amyloid A Protein	AMYLOIDA	S	7 days
Anabolic Steroids (Urine)	UANAST	Not for sports or offfical testing	3 weeks
A-N-Acetylgalactosminidase	ANAG	H H	6-8 weeks
Androstenedione	ANDR	S	3 days
Angiotensin Converting Enzyme ACE	ACE	S	1 day

TRS = Trace (Serum) 6ml
S = SST/Gel 5ml
RU = Random Urine in sterile universal
PLN = Plain 4ml
E = EDTA 4ml
H = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Angiotensin II	ANGIOTENS2	 Collect sample on an ice-cooled tube. Send stat on ice	17 days, 31 day if further dilation required
Anti-Mullerian Hormone (AMH)	AMH		4 hours
Apolipoprotein A1	APOA	 12 hour fasting	5 days
Apolipoprotein B	APOB		4 hours
Arsenic (Blood)	ARS		5 days
Arsenic (Urine)	UARS	RU	7 days
Arylsulphatase A	ASA	Contact the Lab	6 weeks
ASO Titre	ASOT		4 hours
Aspartate Transferase (AST)	AST		4 hours
Barbiturates	UBARB	RU	4 hours
Barbiturates (Blood)	BARB		20 days
Benzodiazepines	UBENZ	RU	4 hours
Benzodiazepines (Blood)	BENZO		3 weeks
Beta 2 Microglobulin	B2M		4 hours
Beta HCG (Fluid)	FLBHCG	MISC (SU)	7 days
Beta Trace Protein (CSF Leak)	BTP	MISC (SU),  Fluid sample is key for diagnosis of CSF leak. Do not delay sending fluid to Laboratory if serum is not available.	5 days
Beta-Carotene	CAROTENE	 Send stat on ice - protect from light	13 days
Beta-Hydroxybutyrate	BETAHYBUT	 Send stat on ice	12 days

 = EDTA 4ml  = SST/Gel 5ml **RU** = Random Urine in sterile universal **SU** = Sterile Universal (30ml or 60ml)

 = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
BHCG (Char. Cross CSF & Serum)	CSFBHCG	S CSF	5 days
Bicarbonate	BICA	S	4 hours
Bile Acids (Plasma Metabolic)	BILEC	S	1 day
Bile Acids (Urine Metabolic)	UBA	RU	7 days
Bilirubin (Fluid)	FLBIL	MISC (SU) Protect from light	4 hours
Bilirubin (Urine)	UBIL	MISC (SU) Protect from light	4 hours
Biotinidase	BIOT	S	2 weeks
Bone Specific ALP	ALPBONE	S	14 days
Bromide	BROMIDE	S	7 days
Buprenorphine	BUPREN	RU	5 days
CA 15-3	C153	S	4 hours
CA 19-9	C199	S	4 hours
CA 72-4	C724	S	7 days
CA-125	C125	S	4 hours
CA19-9 (Fluid)	FLC199	MISC (SU)	5 days
CA-50	C50	S Send stat on ice	2 weeks
Cadmium (Blood)	CAD	E	12 days
Cadmium (Urine)	TCADUR	24U	7 days
Caeruloplasmin	CAER	S	4 hours

S = SST/Gel 5ml **RU** = Random Urine in sterile universal **SU** = Sterile Universal (30ml or 60ml)
RU = Random Urine in sterile universal **SU** = Sterile Universal (30ml or 60ml) E = EDTA 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Calcitonin	CALCIT	S S Contact the Lab - send stat on ice	5 days
Calcium	CALC	S	4 hours
Calcium (24h Urine)	24CALC	24UA	4 hours
Calcium (Fluid)	FLCALC	MISC (SU)	4 hours
Calcium (Urine)	UCALC	RU	4 hours
Calculated Free Testosterone	TESTFREECALC	S	4 hours
Cannabis Screen (Urine)	UCANN	RU	4 hours
Carbamazepine	CARB	S	1 day
Carnitine (Total & Free)	CARNIT	H H Send stat on ice - fasting	2 weeks
Carnitine (Urine)	UCARNIT	RU	2 weeks
CART	CART	E E Send stat on ice - fasting	3 weeks
Catecholamines (Urine)	UCAT	RU	7 days
CCP Antibodies	CCP	S	4 hours
CDT Transferrin	CDT	S	5 days
CEA	CEA	S	4 hours
CEA (Fluid)	FLCEA	S	4 hours
Chloride	CL	S	4 hours
Chloride (Fluid)	FLCHLO	RU	4 hours
Chloride (Urine)	UCL	RU	4 hours

S

 = SST/Gel 5ml

24UA

 = 24 Hour Urine – Acidified (please state start/finish times)

24UA

 = 24 Hour Urine – Acidified (please state start/finish times)

RU

 = Random Urine in sterile universal

H

 = Lithium Heparin 6ml

E

 = EDTA 4ml

RU

 = Random Urine in sterile universal

Biochemistry

Test Name	Code	Sample Type	TAT
Cholestanol	CHOLESTANOL	H	7 weeks
Cholinesterase Studies	DIBU	E	4 weeks
Chromium (Blood)	CHROM	TRE	2 weeks
Chromium (Urine)	UCHROM	RU	2 weeks
Chromogranin A	CHROMOA	E Send stat on ice and fasting	3 weeks
Chylomicrons (Fluid)	CHYLO	SU	3 days
Ciclosporin	CYCA	E Send stat to Lab. Contact the Lab further information required	3 days
Citalopram	CITALO	S	7 days
CK Isoenzymes	CKISO	S Send stat on ice	1 week
CK-MB	CKMB	S	2 days
Clobazam	CLOB	S	5 days
Clonazepam	CLONA	S	5 days
Cobalt (Blood)	COB	TRE	2 weeks
Cocaine Screen (Urine)	UCOC	RU	4 hours
Conjugated Bilirubin	BILC	S	4 hours
Copper	COP	TRS	2 weeks
Copper (Liver)	BIOCOPP	Biopsy (SU) Contact the Lab	14 days
CORT	CORTISOL	S	4 hours

H = Lithium Heparin 6ml
 E = EDTA 4ml
 TRE = Trace (EDTA) 6ml
 RU = Random Urine in sterile universal
 SU = Sterile Universal (30ml or 60ml)
 S = SST/Gel 5ml
 TRS = Trace (Serum) 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Cortisol Binding Globulin	CBG	S Send stat on ice	13 days
Cortisol day Curve	CORTDC	S	4 hours
Cotinine	COT	S	1 week
Cotinine (Urine)	UCOT	RU	5 days
Co-Trimoxazole Level	SEPT	S	7 days
C-Peptide	CPEP	S Send stat to Lab	5 days
C-Reactive Protein (CRP)	CRP	S	4 hours
Creatine	CREATINEP	S	14 days
Creatine Kinase (CK)	CK	S	4 hours
Creatinine	CREAT	S	4 hours
Creatinine (24h Excr)	24CREA	24U	4 hours
Creatinine (Fluid)	FLCREA	MISC (SU)	4 hours
Creatinine (Urine)	UCREA	RU	4 hours
Creatinine Clearance	CREACL	S 24U	4 hours
Cryoglobulins	CRYO	E PLN Send stat to Lab in warm thermos flask of water at 37 degrees, call Lab for further collection instructions	2 weeks
CSF 14-3-3 Proteins	CSF14-3-3	CSF	6 weeks
CTX (Beta-Crosslaps)	CROSSLAPS	S Send stat on ice - fast overnight & sample collected before 9am	5 days

S

 = SST/Gel 5ml

RU

 = Random Urine in sterile universal

24U

 = 24 Hour Urine – no preservative (please state start/finish times)

RU = Random Urine in sterile universal

E

 = EDTA 4ml

PLN

 = Plain 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
CTX (Crosslaps, Urine)	UCROSSLAPS	EMU Send stat on ice - fast overnight	13 days
Cycloserine Level	CYCLOSERINE	S	5 days
Cystatin C	CYSTC	S	6 days
Cystine (24h Urine)	24CYST	24U Fasting. Contact the Lab	8 days
Cystine (White Cell)	CYSTWC	H Must reach Lab by midday, Mon - Fri	2 weeks
Deoxypyridinoline (Urine)	DPD	1st EMU	1 week
Deoxyuridine	DEOXYURIDINE	RU	4 weeks
DHEA	DHEA1	S	14 days
DHEA Sulphate	DHEAS	S	4 hours
Diamine Oxidase	DIOXA	S	2 weeks
Diazepam	DIAZ	PLN Send stat on ice	1 week
Digoxin	DIGO	S Must be taken 6-24 hours post dose	6 hours
Dihydrotestosterone	DHT	S S	9 days
Diuretic Screen (Urine)	UDIURETIC	24U Sample sent frozen	2 weeks
D-Lactate	LACTD	H Must reach Lab in 1 hour	7 days
DOA Screen (Blood)	DOABLD	S S	3 weeks
DOA Screen COC	DOACOC	RU	4 hours
Drugs of Abuse Screen (Urine)	DOA	RU	4 hours

S = SST/Gel 5ml **24U** = 24 Hour Urine – no preservative (please state start/finish times) H = Lithium Heparin 6ml
 RU = Random Urine in sterile universal PLN = Plain 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Early CDT (Lung)	CDTLUNG	S	1 week
Enhanced Liver Fibrosis (ELF)	ELF	S S	7 days
Essential Fatty Acids (RBC)	EFA	E	2 weeks
Estimated GFR (eGFR)	EGFR	S	4 hours
Ethanol (Plasma)	ALC	F	1 day
Ethanol (Urine)	UALC	RU	4 hours
Ethosuximide	ETHO	PLN Send stat on ice	8 days
Ethyl Glucuronide	ETHYLGLUC	RU	4 weeks
Everolimus	EVEROLIMUS	E	1-2 days
Faecal Elastase	ELAS	FAEC Must reach Lab within 5 days of collection	10 days
Ferritin	FERR	S	4 hours
Flecainide	FLEC	S	7 days
Fluconazole Level	FLUCONAZOLE	S	5 days
FLUCYTOSINE	FLUCYTOSINE	S	4 days
Fluoride	FLUORIDE	S	2 weeks
Folate	FOLS	S	4 hours
Folate (CSF)	CSFFOL	CSF	10 days
Folate (Red Cell)	FOLRC	E Protect from light	5 days
Free Fatty Acids (NEFA)	FFA	S Protect from light	42 days

S = SST/Gel 5ml
 E = EDTA 4ml
 F = Fluoride Oxalate 2ml
 RU = Random Urine in sterile universal
 PLN = Plain 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Free Light Chains (SFLC)	FLC	S	7 days
Free Phenytoin	PHENFREE	S	3 days
Free T3	FT3	S	4 hours
Free T4	FT4	S	4 hours
Fructosamine	FRUC	S Performed on Tuesdays	5 days
FSH	FSH	S	4 hours
Galactosaemia Screen (GALIPUT)	G1PU	H Mon-Thurs only before noon	4 weeks
Gamma GT (GGT)	GGT	S	4 hours
Gamma-Hydroxybutyrate (GHB)	GHB	RU	10 days
Gastrin	GAST	E E Send stat on ice	3 weeks
Gentamicin (Post-Dose)	GENTPOST	S	4 hours
Gentamicin (Pre-Dose)	GENTPRE	S	4 hours
Gentamicin Level	GENT	S	4 hours
Glucagon	GLUCAGON	E E Send stat on ice	1 week
Glucose (CSF)	CSFGLU	F	1 day
Glucose (Fluid)	FLGLUC	F	4 hours
Glucose (Non-Fasting)	TGLUCR	F	4 hours
Glucose (Plasma)	GLUCOSES	F	4 hours
Glucose Tolerance Test (GTT)	GTT	Contact the Lab	4 hours

S = SST/Gel 5ml
 H = Lithium Heparin 6ml
 RU = Random Urine in sterile universal
 E = EDTA 4ml
F = Fluoride Oxalate 2ml

Biochemistry

Test Name	Code	Sample Type	TAT
Growth Hormone (GH)	GH	S	7 days
GTT & Growth Hormone	GTTGH	Contact the Lab	7 days
GTT & Insulin 2 hours	GTTINS	Contact the Lab	4 hours
GTT & Insulin 5 hours	GTTINS5	Contact the Lab	4 hours
GTT 3 hours	GTT3	Contact the Lab	4 hours
Guanidinoacetate (Plasma)	GUANP	H H	3 weeks
Guanidinoacetate (Urine)	UGUAN	H H	3 weeks
Haptoglobin	HAPTO	S	2 days
HCG (Intact & Beta)	HCG	S	4 hours
HDL-Cholesterol	HDLC	S	4 hours
High Sensitivity CRP	CRPCARD	S	4 hours
Histamine (Plasma)	HIST	E Contact the Lab - Send stat on ice	14 days
Histamine (Urine)	UHIST	RU	5 days
Homocysteine	HOMOCYST	E Send stat on ice	4 hours
Homocysteine (Urine)	UHOMOCYST	RU	6 weeks
Homogentisic Acid	HOMOGEN	EMU Send stat on ice, protect from light	4 weeks
Homovanillic Acid (HVA) (24h)	HVA24	24UA Contact Lab in advance	7 days
HVA VMA (HMMA) Paediatric	VMA	RU	7 days
Hyaluronic Acid	TELFHA	S	7 days

S = SST/Gel 5ml
 H = Lithium Heparin 6ml
 E = EDTA 4ml
 RU = Random Urine in sterile universal
 24UA = 24 Hour Urine – Acidified (please state start/finish times)
 EMU = Early Morning Urine in sterile universal

Biochemistry

Test Name	Code	Sample Type	TAT
IGF1	IGF1	S Send stat in red urgent bag	2 days
IGF2	IGF2	S	31 day
IGFBP-3	IGFBP3	S	7 days
IgG Subclasses	IGGSC	S	10 days
Immunoglobulin A	IGA	S	4 hours
Immunoglobulin D	IGD	S	2 weeks
Immunoglobulin G	IGG	S	4 hours
Immunoglobulin M	IGM	S	4 hours
Infliximab	INFLIX	S	3 weeks
Inhibin A	INHIBINA	S Contact Lab in advance - send stat on ice	2 weeks
Inhibin B	INHIBINB	S Contact Lab in advance - send stat to Lab	3 weeks
Insulin	INSU	S	4 hours
Interferon (CSF)	CSFINTALPHA	CSF	3 weeks
Interferon-Alpha	INTALPHA	S Send before 12pm	3 weeks
Iron	IRON	S	4 hours
Iron (Urine)	UIRON	RU Collected into warmed tubes and kept warm at 37 °C during	2 weeks
Iron and UIBC	IRONUIBC	S	4 hours
Ketamine	KETA	RU	1 week
Lacosamide	LACOSAMIDE	S	7 days

S = SST/GeI 5ml **RU** = Random Urine in sterile universal

Biochemistry

Test Name	Code	Sample Type	TAT
Lactate (Plasma)	LACT	F Send stat on ice	4 hours
Lactate Dehydrogenase (LDH)	LDH	S	4 hours
Lactate/Pyruvate Ratio	PYRLACT	Contact the Lab for special tube	3 weeks
Lamotrigine	LAMO	S Send stat on ice	7 days
Laxative Screen	LAXA	RU x2	7 days
LDH Isoenzymes	LDHISO	S	10 days
Lead	LEAD	E	2 weeks
Lead (Urine)	ULEAD	24U	10 days
Leptin	LEPT	S	7 days
Levetiracetam	LEVET	S	4 days
Lipase	LIPA	S	2 days
Lipase (Urine)	ULIPA	RU	5 days
Lipoprotein (a)	LIPOA	S	4 hours
Lipoprotein Electrophoresis	LIPEL	S	4 weeks
Lithium	LITH	S	4 hours
Lp-PLA2 (PLAC)	LPPLA2	S	4 days
Luteinising Hormone (LH)	LH	S	4 hours
Lycopene	LYCOP	S Protect from light	7 days
Lysosomal Enzymes	LENZ	H H Must reach Lab by midday. Mon-Thurs only	8 weeks

F

 = Fluoride Oxalate 2ml

S

 = SST/Gel 5ml
 RU = Random Urine in sterile universal

E

 = EDTA 4ml

24U = 24 Hour Urine – no preservative (please state start/finish times)
 RU = Random Urine in sterile universal

H

 = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Macroprolactin	MACROPROL	S	7 days
Magnesium	MAGN	S	4 hours
Magnesium (24h Urine)	24MAGN	24UA	5 days
Magnesium (Red Cell)	MAGNRC	S H	1 week
Magnesium (Urine)	MAGNU	RU	5 days
Manganese (Urine)	UMANG	RU or 24U	2 weeks
Manganese (Whole Blood)	MANG	TRE	14 days
Mannose Binding Lectin	MBL	S	23 days
Measured Free Testosterone	TESTFREE	S	4 days
Melatonin	MELAT	S Send stat on ice	9 days
Mercury (Blood)	MERC	E	10 days
Mercury (Urine)	UMERC	RU	10 days
Methadone (Urine)	UMETH	RU	4 hours
Methaemoglobin	METH	E	4 days
Methaqualone (Urine)	UMETHAQ	RU 12 days for confirmation	3 days
Methotrexate	METHOT	S Contact Lab in advance - must reach Lab by midday.	2 days
Methyl Histamine (Urine)	UMETHIST	RU Send stat on ice	2 weeks
Methylmalonic Acid (MMA)	MMAP	S	2 weeks
Mexitil	MEXIT	S Oral sample should be pre dose	8 days

S = SST/Gel 5ml **24UA** = 24 Hour Urine – Acidified (please state start/finish times) **H** = Lithium Heparin 6ml
RU = Random Urine in sterile universal **TRE** = Trace (EDTA) 6ml **E** = EDTA 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Midazolam	MIDAZ	E	5 days
Monoamine Metabolites (CSF)	TCSFMONOAM	CSF Contact Lab in advance	20 days
Mucopolysaccharides	MUCO	RU	6 weeks
Mycophenolate	MYCOP	E Send before 12pm	1 day
Myoglobin (Serum)	MYO	S	2 days
Neuron Specific Enolase (NSE)	NSE	S Send stat on ice	3 days
Niacin	NIACIN	E Send stat to Lab - protect from light	3 weeks
Nickel	NICKEL	TRS	10 days
NT-Pro-BNP	BNP	S	1 day
NTX (Urine)	UNTX	RU Send stat on ice - protect from light	21 day
Oestradiol	OEST	S	4 hours
Oestrone	OESTRO	S	2 weeks
Olanzapine	OLANZ	H H	14 days
Oligoclonal Bands (CSF+Serum)	OLIGO	S CSF	2 weeks
Oligosaccharides (Urine)	UOLIG	RU	5 weeks
Omega 6/Omega 3 Ratio	OMG3	E	5 days
Opiates Screen (Urine)	UOPIA	RU	4 hours
Organic Acids (Urine)	UORG	RU Send stat on ice	2 weeks
Osmolality (Fluid)	FLOSMO	MISC (SU)	4 hours

E = EDTA 4ml RU = Random Urine in sterile universal S = SST/Gel 5ml TRS = Trace (Serum) 6ml
H = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Osmolality (Serum)	OSMO	S Send stat	4 hours
Osmolality (Urine)	UOSMO	RU	4 hours
Osteocalcin	OSTEOCALC	S Send stat on ice	4 days
Oxalate (24h Excr)	24OXAL	24UA	10 days
Oxalate (Plasma)	OXAL	E Contact the Lab	10 days
Oxalate (Urine)	UOXAL	RU	10 days
Oxcarbazepine	OXCARB	S	10 days
Palmitoyl Protein Thioesterase	TLENZ5.1	H H	9 weeks
Pancreatic Polypeptide (PP)	PP	E Send stat on ice - fasting	3 weeks
Paracetamol	PARAC	S Send stat to Lab	1 day
Paraprotein	PARA	S	3 days
Parathyroid Hormone (PTH)	PTH	S Send stat to Lab	6 hours
Paroxetine	PAROX	PLN PLN Send stat on ice	10 days
Phencyclidine PCP (Urine)	UPHENCY	RU	4 days
Phenobarbitone	PHENOB	S	1 day
Phenytoin	PHENY	S	4 hours
Phosphate	PHOS	S	4 hours
Phosphate (24h Urine)	24PHOS	24UA	4 hours
Phosphate (Fluid)	FLPHOS	MISC (SU)	4 hours

S

 = SST/Gel 5ml
 24UA = 24 Hour Urine – Acidified (please state start/finish times)
 RU = Random Urine in sterile universal

E

 = EDTA 4ml

H

 = Lithium Heparin 6ml

PLN

 = Plain 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Phosphate (Urine)	UPHOS	RU	4 hours
Pipecolic Acid	PIPECOLIC		1 month
Placental ALP (PLAP)	PLALP		4 weeks
Plasma Amino Acids	AAP	 Send stat on ice	15 days
Plasma Catecholamines	CATP	  Contact Lab in advance. Send stat on ice - fasting.	9 days
Plasma Metanephrines	METANEPH	  Contact Lab in advance. Send stat on ice.	2 weeks
Plasmalogens	PLASMAL	  Send stat. Collect Mon-Weds only	6 weeks
Porphobilinogen (PBG)	PORPHO	EMU Protect from light. Contact the Lab if urgent	3 weeks
Porphyrins (Blood)	PORPH	 Protect from light	3-4 weeks
Porphyrins (Faecal)	FPORPH	FAEC Protect from light	3 weeks
Posaconazole Level	POSACONAZOLE		7 days
Potassium	K		4 hours
Potassium (24h Urine)	24K	24U	4 hours
Potassium (Fluid)	FLK	MISC (SU)	4 hours
Potassium (Urine)	UK	RU	4 hours
Pregabalin	PREGAB		7 days
Pregnenolone	PREGN	 	2 weeks
Primidone	PRIMI		2 days

RU = Random Urine in sterile universal
  = Lithium Heparin 6ml
  = SST/Gel 5ml
  = EDTA 4ml
FAEC = Faeces in sterile universal
RU = Random Urine in sterile universal
24U = 24 Hour Urine – no preservative (please state start/finish times)
SU = Sterile Universal (30ml or 60ml)

Biochemistry

Test Name	Code	Sample Type	TAT
Procalcitonin (PCT)	PCT	S Send stat to Lab	4 hours
Procollagen Type 1 NTP (PINP)	PINP	S Send stat to Lab	4 days
Progesterone	PROG	S	4 hours
Proinsulin	PROINS	S Send stat to Lab	3 weeks
Prolactin	PROL	S	4 hours
Propanolol	PROP	S	8 days
Propoxyphene (Urine)	UPROPOX	RU 5 days for confirmation	3 days
Protein (24h Urine)	24PROT	24U	4 hours
Protein (CSF)	CSFPROT	CSF	1 day
Protein (Urine)	UPROT	RU	4 hours
Protein Creatinine Ratio (PCR)	UPROTCREA	RU	4 hours
Protein Selectivity	PSEL	RU	7 days
PSA	PSA	S	4 hours
PTH Related Protein (PTHrP)	PARATHRP	E Send stat on ice. Contact Lab in advance	8 weeks
Purine/Pyrimidine Screen	PURINEB	E E	3 weeks
Pyruvate/Lactate (CSF)	CSFPYRLACT	Contact the Lab	2 weeks
Quetiapine	QUET	E	7 days
RBP (Urine)	RETINOL	RU	12 days
Reducing Substances (Faecal)	FREDSUBS	FAEC Send stat on ice	10 days

S = SST/Gel 5ml **RU** = Random Urine in sterile universal **24U** = 24 Hour Urine – no preservative (please state start/finish times)
SU = Sterile Universal (30ml or 60ml) **E** = EDTA 4ml **FAEC** = Faeces in sterile universal **RU** = Random Urine in sterile universal

Biochemistry

Test Name	Code	Sample Type	TAT
Reducing Substances (Urine)	UREDUBS	RU Send stat on ice	2 weeks
Renin (Active)	REN	E Send sample STAT in red bag. Must reach Lab within 1 hour	7 days
Reverse T3	T3REV	S Send stat on ice	1 month
Rheumatoid Factor	RF	S	4 hours
Risk Of Malignancy Algo (ROMA)	HE4	S	2 days
Rohypnol (Urine)	UROHYP	RU	5 days
S100 Protein	S100	S Send stat to Lab	2 weeks
S100b (CSF)	CSFS100	CSF	5 weeks
Salicylate	SALI	S	1 day
SCC Antigen	SCC	S	2 weeks
Selenium	SEL	TRS	2 weeks
Serotonin (Whole Blood)	SERO	H H Specific dietary requirement. Send stat to Lab for urgent freezing	7 days
Serum Immunofixation	IFIX	S	5 days
Serum Protein Electrophoresis	ELEP	S	3 days
SHBG	SHBG	S	4 hours
Short Synacthen Test	SYNACTHEN	Contact the Lab	2 hours
Sirolimus	SIRO	E Send before 12 pm	20 days

RU = Random Urine in sterile universal
 E = EDTA 4ml
 S = SST/Gel 5ml
 TRS = Trace (Serum) 6ml
 H = Lithium Heparin 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Sodium	NA	S	4 hours
Sodium (24h Urine)	24NA	24U	4 hours
Sodium (Fluid)	FLNA	MISC (SU)	4 hours
Sodium (Urine)	UNA	RU	4 hours
Somatostatin	SOMAT	E Send stat on ice - fasting	3 weeks
Stone Analysis	STON	SU UNI (Stone)	15 days
Streptomycin Level	STREP	S	5 days
Strontium (Serum)	STRONT	TRS	7 days
Sulphonylurea Screen (Serum)	SULPH	S	7 days
Synacthen Test Plus 17-OHP	SYNACPLUS	S Contact the Lab	4 hours
Tacrolimus	TACRO	E Test run Mon - Fri only. Contact the Lab for collection instructions	1 day
Testosterone	TESTO	S	4 hours
Thallium	THALL	E	3 weeks
Theophylline	THEO	S	1 day
Thiopentone	THIOPENT	E Contact the Lab	2 days
Thymidine	THYMID	E	3 weeks
Thymidine Kinase	THYMIDK	PLN Send stat on ice	3 weeks
Thyroglobulin (Inc. Antibody)	THYRO	S	7 days

S = SST/GeI 5ml **24U** = 24 Hour Urine – no preservative (please state start/finish times) **SU** = Sterile Universal (30ml or 60ml)
RU = Random Urine in sterile universal **E** = EDTA 4ml **TRS** = Trace (Serum) 6ml **PLN** = Plain 4ml

Biochemistry

Test Name	Code	Sample Type	TAT
Thyroxine Binding Glob (TBG)	TBG	S Send stat on ice	4 weeks
Tissue Polypeptide Ag (TPA)	TPA	S Send stat on ice	5 days
Topiramate	TOPIR	S	7 days
Total Bile Acids (Serum)	BILEAD	S	1 day
Total Bilirubin	BILT	S	4 hours
Total Cholesterol	CHOL	S	4 hours
Total Iodine (Serum)	IODIDE	S	10 days
Total Protein	TP	S	4 hours
Total T3	TT3	S	3 days
Total Tau Protein	ASIALOTNUM	CSF	2 weeks
Total Thyroxine (TT4)	TT4	S	4 days
TPMT	TPMT	E E	3 days
Trace Metals Screen (Hair)	TRACEHAIR	SU	3 weeks
Transferrin	TFERR	S	3 days
Transferrin Isoforms	TFERRI	S	10 days
Transferrin Receptor Studies	TFERREC	S S	2 weeks
Transthyretin	ALBPRES	S	7 days
TRH Test	TRH	Contact the Lab	4 hours
Triglycerides	TRIG	S	4 hours
Trimethylamine (TMA)	UTRIMETHYL	RU	8 weeks

S

 = SST/Gel 5ml

E

 = EDTA 4ml
 SU = Sterile Universal (30ml or 60ml)
 RU = Random Urine in sterile universal

Biochemistry

Test Name	Code	Sample Type	TAT
Troponin I	TROPI	S Send stat to Lab	1 day
Troponin T	TROPT	S	4 hours
TSH	TSH	S	4 hours
Tubular Reabsorption Phos(TRP)	TRP	S RU	4 hours
Urate	URIC	S	4 hours
Urate (Fluid)	FLURIC	MISC (SU)	4 hours
Urate (Urine)	UURIC	RU	4 hours
Urea	UREA	S	4 hours
Urea (24h Urine)	24UREA	24U	4 hours
Urea (Fluid)	FLUREA	MISC (SU)	4 hours
Urea (Urine)	UUREA	RU	4 hours
Urinary Porphyrins	UPORPH	RU Protect from light	3 weeks
Urine Aldosterone (24h)	24ALST	24U Send stat on ice	3 weeks
Urine Catecholamines (24h)	24CAT	24UA Contact the Lab - specific dietary restrictions	7 days
Urine Free Cortisol (24h)	24CORT	24U	7 days
Urine Immunofixation	UIFIX	RU	5 days
Urine Metanephrines (24h)	24META	24UA	7 days
Urine Protein Electrophoresis	UELEP	RU	3 days
Urine Steroid Profile (24h Ur)	24STER	24U	3 weeks

S

 = SST/Gel 5ml **RU** = Random Urine in sterile universal **SU** = Sterile Universal (30ml or 60ml)
24U = 24 Hour Urine – no preservative (please state start/finish times)

Biochemistry

Test Name	Code	Sample Type	TAT
Urine Sulphocysteine	USULPHOCYST	RU Send stat to Lab in red urgent bag	3 weeks
V Long Chain Fatty Acids VLCFA	VLCFA	E Send stat on ice	3 weeks
Valproate (Epilim)	VALP	S	1 day
Vancomycin	VANC	S	4 hours
Vancomycin (CSF)	CSFVANC	CSF	1 day
Vancomycin (Post-Dose)	VANCPPOST	S	4 hours
Vancomycin (Pre-Dose)	VANCPRE	S	4 hours
Vasopressin (ADH)	ADH	E E Send stat on ice	2 weeks
VEGF	VEGF	S	2 weeks
VIP	VIP	E Send stat on ice - fasting	1 week
Vitamin A	VITA	H Send stat on ice - protect from light	7 days
Vitamin B12	B12	S	4 hours
Vitamin C	VITC	S S Send stat on ice	5 days
Vitamin D (25-OH)	VITD	S	6 hours
Vitamin E	VITE	H Send stat on ice - protect from light	7 days
Vitamin K	VITK	PLN Send stat on ice - protect from light	2 weeks
VLDL Cholesterol	VLDL	S	7 days
Zinc	ZINC	TRS	2 weeks

RU = Random Urine in sterile universal
 E = EDTA 4ml
 S = SST/Gel 5ml
 H = Lithium Heparin 6ml
PLN = Plain 4ml
TRS = Trace (Serum) 6ml

Biochemistry

Test Name	Code	Sample Type	TAT
Zinc (Red Cell)	RCZINC		7 days
Zinc (Urine)	UZINC	RU	10 days
Zinc Protoporphyrin	ZINCPP	 Protect from light	7 days
Zolpidem	ZOLPIDEM		7 days
Zonisamide	ZONISAMIDE		12 days

 = Lithium Heparin 6ml **RU** = Random Urine in sterile universal  = EDTA 4ml  = SST/Gel 5ml

Biochemistry Routine Profiles

Biochem Outpatient	
Urea	COL1
Creatinine	
AKI	
Calcium	
Phosphate	
Urate	
Lactate Dehydrogenase (LDH)	
Creatine Kinase (CK)	
Iron and UIBC	
Total Cholesterol	
Triglycerides	
Estimated GFR (eGFR)	
Liver Function Test (LFT)	
Glucose (Plasma)	
S F	
4 hours	

Biochem-Haem inc Lipids		
Haematology Profile	COL4	
AKI		
Calcium		
Phosphate		
Urate		
Lactate Dehydrogenase (LDH)		
Creatine Kinase (CK)		
Iron and UIBC		
Renal Profile (UE)		
Liver Function Test (LFT)		
Lipid Profile		
Glucose (Plasma)		
S E F		
4 hours		

Biochem-Haem inc UE	
Haematology Profile	COL3
AKI	
Calcium	
Phosphate	
Urate	
Lactate Dehydrogenase (LDH)	
Creatine Kinase (CK)	
Iron and UIBC	
Renal Profile (UE)	
Liver Function Test (LFT)	
Lipid Profile	
Glucose (Plasma)	
S E F	
4 hours	

Biochem-Haem Outpatient	
Haematology Profile	COL2
Urea	
Creatinine	
AKI	
Calcium	
Phosphate	
Urate	
Lactate Dehydrogenase (LDH)	
Creatine Kinase (CK)	
Iron and UIBC	
Estimated GFR (eGFR)	
Liver Function Test (LFT)	
Lipid Profile	
Glucose (Plasma)	
S E F	
4 hours	

Biochemistry Routine Profiles

Bone Profile

Calcium
Phosphate
Albumin
Alkaline Phosphatase (ALP)

BONE

S

4 hours

Cardiac Enzymes

Lactate Dehydrogenase (LDH)
Creatine Kinase (CK)
CK-MB

CARD

S

4 hours

Diabetic Profile

Haemoglobin A1c
Lipid Profile
Glucose (Plasma)

DIABETIC

S

E

F

8 hours

Gut Hormone Screen

Gastrin
VIP
Pancreatic Polypeptide
Glucagon
Somatostatin
Chromogranin A

GUT

E

E

Send stat on ice - fasting

3 weeks

Health Screen Profile

Haematology Profile
AKI
Calcium
Phosphate
Urate
Lactate Dehydrogenase (LDH)
Creatine Kinase (CK)
Iron and UIBC

HEALTHSC

S

E

F

4 hours

Immunoglobulins (GAM)

Immunoglobulin G
Immunoglobulin A
Immunoglobulin M

IGGAM

S

4 hours

Biochemistry Routine Profiles

Iron Status Profile	
Iron and UIBC	IRONST
Ferritin	
S	4 hours

Lipid Profile	
Total Cholesterol	LIP1
Triglycerides	
HDL Cholesterol	
LDL-Cholesterol	
HDL/Cholesterol Ratio	
Chol/HDL Ratio	
Non-HDL Cholesterol	
S	4 hours

Lipid Profile 2	
Total Cholesterol	LIP12
Triglycerides	
HDL Cholesterol	
LDL-Cholesterol	
HDL/Cholesterol Ratio	
Chol/HDL Ratio	
Non-HDL Cholesterol	
Lipoprotein (a)	
S	4 hours

Liver Function Test (LFT)	
Total Protein	LFT
Albumin	
Globulins	
Total Bilirubin	
Alkaline Phosphatase (ALP)	
Aspartate Transferase (AST)	
Alanine Transaminase (ALT)	
Gamma GT (GGT)	
S	4 hours

Menopausal Profile	
TSH	MENOPAUSAL
FSH	
Luteinising Hormone (LH)	
Oestradiol	
Prolactin	
S	4 hours

Ovarian Aging Profile	
FSH	OVARIANAGING
Anti-Mullerian Hormone (AMH)	
Inhibin B	
S S	Send stat on ice
	7 days

Biochemistry Routine Profiles

PSA Profile PSA PSA (Free) Free/Total PSA Ratio PSAPROF S 4 hours	Renal Profile (Blood + Urine) Haematology Profile AKI Calcium Phosphate Urate Lactate Dehydrogenase (LDH) Creatine Kinase (CK) Iron and UIBC Urea (24h Urine) Volume (24h Urine) Sodium (24h Urine) Potassium (24h Urine) Creatinine (24h Excr) Creatinine Clearance Protein (24h Urine) Renal Profile (UE) Liver Function Test (LFT) Lipid Profile Glucose (Plasma) RENALBLOODUR E S S F 24U 4 hours
Renal + Bicarbonate + Chloride Sodium Potassium Bicarbonate Chloride Urea Creatinine UEFULL S 4 hours	Renal Profile (UE) Sodium Potassium Urea Creatinine UE S 4 hours

Biochemistry Routine Profiles

Renal Stone (Blood + Urine)		
Bicarbonate	RENALSTONE	
Calcium		
Phosphate		
Urate		
Albumin		
Alkaline Phosphatase (ALP)		
Creatinine (24h Excr)		
Calcium (24h Urine)		
Phosphate (24h Urine)		
S 24U		4 hours

Thyroid Profile		
TSH	THYR	
Free T4		
S		4 hours

Thyroid Profile (inc Abs)		
Free T3	THYRFULL	
Thyroid Profile		
Thyroid Peroxidase Ab (TPO)		
S		4 hours

Thyroid Profile 3		
Free T3	THYR3	
Thyroid Profile		
S		4 hours

U&E (24h Urine)		
Urea (24h Urine)	24UE	
Sodium (24h Urine)		
Potassium (24h Urine)		
Creatinine (24h Excr)		
24U		4 hours

U&E (Urine)		
Sodium (Urine)	UUE	
Potassium (Urine)		
Urea (Urine)		
Creatinine (Urine)		
RU		4 hours



HAEMATOLOGY



Haematology

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

The most commonly used sample types are EDTA for routine haematology and the citrate tube for coagulation.

Volumes:

Please look at the test lists on the following pages to check what we need from you.

Please pay attention to sample volumes for coagulation tests. The ratio of blood to anticoagulant already in the sample tube must be correct. There are fill marks on the sample tube to guide you. Unfortunately we will have to reject underfilled and overfilled samples.

Timings:

Once you've taken a sample, please don't delay in sending it to us. Specifically:

- citrate samples for routine tests, such as coagulation, should reach us within four hours
- for Heparin monitoring, specimens should be kept at room temperature and centrifuged within 1-2 hours of collection
- special coagulation testing, such as factor assays and lupus anticoagulant, should reach us within an hour

Please note: we'll only report a complete Full Blood Count (FBC) profile on samples less than 24 hours old. If the sample is more than 24 hours old but less than 72 hours, we'll report HB, WBC and Platelets. If the sample is more than 72 hours, we will have to reject it.



Haematology

Factors that can affect coagulation results:

Activation of sample for clotting screen / factor

assay: this can occur when a patient is difficult to bleed or samples are not mixed correctly. It may lead to invalid results and testing will need to be repeated.

Clotted samples: this can occur when the samples are not mixed correctly during bleeding. Please mix samples gently, by turning them upside down, so that the anticoagulant mixes with the blood and stops small clots from forming.

Special collection instructions not being followed:

please make sure you follow any special collection instructions (e.g. send to laboratory stat). Otherwise the samples may be unsuitable for analysis.

Ordering extra tests:

We can often carry out extra tests using the samples you've already sent us, depending on the requirements of the new tests and the age of the samples.

Typically, we keep routine EDTA samples for three days, so contact us to check whether you can order any extra tests in this timeframe. We discard citrate samples daily, since it isn't possible to add tests after four hours of sample collection.

To order extra tests, please call us on **020 7486 5091** or email: hcalaboratories@hcahealthcare.co.uk.

Warfarin monitoring and dosage service

You can refer patients to our consultant haematologists for warfarin dosing and monitoring.

Please contact the lab for additional information.

Useful contacts

For technical queries regarding Haematology, email us on:

haematology@hcahealthcare.co.uk

or call us on **020 7034 4577**.

Haematology

Test Name	Code	Sample Type	TAT
Anti-Heparin Antibody	HITSCREEN	S Send stat to Lab	1 day
Antithrombin III Activity	AT3AC	C	3 days
Antithrombin III Antigen	AT3AG	C	2 weeks
APTT	APTT	C	4 hours
APTT (IV Heparin)	APTHN	C	4 hours
Babesia	BABESIA	E	2 days
Biotin	BIOTIN	S	5 days
CD11-18 Leuc. Adhesion Factor	CD11CD18LAF	E Contact Lab in advance	
Cryofibrinogen	CRYOFIB	C C Contact Lab in advance	8 days
D-Dimer (FDP)	DDIMER	C	4 hours
Eosin-5-Maleimide (EMA)	EOSIN5M	E Only collect sample Mon-Thurs. Sample must reach the referral Lab before 1000 hrs on Friday, Phone Lab before sending as test is not performed over week end and test must be performed within 48 hrs of collection. Refrigerate sample if storing overnight	3 days
Erythropoietin	ERYTHROPOIETIN	S	5 days
ESR	ESR	E	4 hours
Factor II Assay	F2AC	C C Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor IX Activity	F9AC	C C Send stat to Lab. Contact Lab if clinically urgent	1 day 1 week if not urgent
Factor IX Antigen	F9AG	C C Send stat to Lab. Contact Lab if clinically urgent	2 weeks

S

 = SST/Gel 5ml

C

 = Citrate 2.5ml/4.5ml

E

 = EDTA 4ml

Haematology

Test Name	Code	Sample Type	TAT
Factor V Assay	F5AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor V Leiden PCR	FACTORVLEIDEN	E	1 week
Factor VII Assay	F7AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor VII Inhibitors	F7INHIB	CC Send stat to Lab. Contact Lab if clinically urgent	1 month
Factor VIII Antigen	F8AG	CC Send stat to Lab. Contact Lab if clinically urgent	2 weeks
Factor VIII Assay	F8AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor X Assay	F10AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor XI Assay	F11AC	CC Send stat to Lab. Contact Lab if clinically urgent	1 day 1 week if not urgent
Factor XII Assay	F12AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Factor XIII A Subunit	F13ASUB	C Send stat to Lab. Contact Lab if clinically urgent	3 weeks
Factor XIII Assay	F13AC	CC Send stat to Lab. Contact Lab if clinically urgent	2 weeks
Fibrinogen	FIBRINOGEN	C	4 hours
FIX Inhibitor Screen	F9INHSCR	C Send stat to Lab. Contact Lab if clinically urgent	10 days
Fletcher Factor	FLETCHERFACTOR	CC Send stat to Lab. Contact Lab if clinically urgent	1 month
FVIII Inhib. Screen	F8INHSCR	CC Send stat to Lab. Contact Lab if clinically urgent	10 days
G6PD Screen	G6PDS	E Only performed during routine hours	4 hours

C

 = Citrate 2.5ml/4.5ml

E

 = EDTA 4ml

Haematology

Test Name	Code	Sample Type	TAT
Glandular Fever Screen	GF	C E	4 hours
Haemoglobin	HGB	E Please request FBC	4 hours
Haemoglobin A1c (HbA1c)	HBA1	E	6 hours
Haemosiderin	HAEMOSIDERIN	EMU Early Morning Urine / First Catch	2 weeks
Hb H Bodies	HBHBODIES	E Send EDTA as fresh as possible (ideally less than 48hrs old), Send at Room Temperature, but can refrigerate if overnight. Please fill in CMH referral form - EXHaem355 and send FBC results	3 days
Heinz Bodies	HEINZ	E	2 days
Kleihauer	KLEIHAUER	BB Hand Label as for Transfusion samples	4 hours
Kleihauer by Flow Cytometry	KLEIHAUERFLOW	BB	3 days
Lupus Anticoagulant	LUPUS	C C Send stat to Lab	2 days (Mon - Fri)
Lymph. Subsets (NKP2)	LYMPHSUBSET	E Can ONLY be requested & received in Labs before 1400 Mon-Wed	3 days
Malarial Parasites	MPS	E Travel history required	4 hours
Malarial Parasites PCR	MPPCR	E Special form required - EXHaem323	1 day
Metachromatic Granules	MGRAN	MSU Urine sample required	1 day
Microfilaria	MICROFILARIA	C C C C C Keep at Room Temperature	2 days
MTHFR (C677T)	MTHFR	E	9 days

C = Citrate 2.5ml/4.5ml
E = EDTA 4ml
BB = EDTA 9ml
MSU = Mid Stream Urine in sterile universal

Haematology

Test Name	Code	Sample Type	TAT
Neutrophil Function Test	NEUTFUNCTEST	 Contact Lab - by arrangement only	1 week
PAI-1 Activity	PAI	 Send stat to Lab	2 weeks
PFA-100	PFA100	 Contact Lab. Send stat to Lab	Same day if urgent. Contact the lab before sending
Plasma Haemoglobin	PLASMA HB		4 hours
Plasma Viscosity	PLASMAVISCOSITY	 Keep at Room Temperature	3 days
Plasminogen Activity	PLASMINOGEN	 Send stat to Lab	7 days
Platelet Aggregation Studies	PLTAGGTHOM	Platelet Aggregation, Nucleotides and ATP. By prior arrangement only. Doctor / Clinical area must contact CSR on 020 7034 4522 or 4521 to book this test in. Patient must attend the testing site at: St. Thomas's Hospital Blood Testing Department Ground Floor, South Wing London SE1 7EH Test is only available on Wednesdays by prior arrangement Doctor must contact CSR who will complete the booking.	
Protein C Activity	PRC	 Send stat to Lab	4 hours
Protein C Antigen	PCAG	 Send stat to Lab	6 days
Protein S Activity	PSACT	 Send stat to Lab	1 day
Protein S Free Antigen	PSF	 Send stat to Lab	3 days
Protein S Total Antigen	PST	 Send stat to Lab	2 weeks

 = Lithium Heparin 6ml  = Citrate 2.5ml/4.5ml  = EDTA 4ml

Haematology

Test Name	Code	Sample Type	TAT
Prothrombin Mutation	PTMUTATION/ PT3UTR	E	5 days
PT & Dose	PTD	C	1 day
PT & INR	PT	C	4 hours
Pyruvate Kinase	PK	E FBC & Retics must also be ordered at same time	2 weeks
Reticulocytes	RETIC	E	4 hours
Sickle Cell Screen	SICKLE SCREEN	E	4 hours
Taipan Venom Time	TAIPAN	C C Send stat to Lab	10 days
Thrombin Time	THROMBINTIME	C Send stat to Lab. Contact Lab if clinically urgent	4 hours
Trypanosome Microsc.	TRYPANOSOMES	E	1 day
Vacuolated Lymphocytes	VACLYMPH	E	4 days
Vit. B1 (Thiamine)	VB1	E Send stat on ice. Protect from light	1 week
Vit. B2 (Riboflavin)	VB2	E Send stat on ice. Protect from light	2 weeks
Vit. B6 (Pyridoxine)	VB6	E Send stat on ice. Protect from light	1 week
Von Willebrand Multimers	VWM	C C Send stat to Lab. Contact Lab if clinically urgent Only performed if VWF activity and/or antigen is abnormal	1 month
vWF:Activity (RICO)	VWAC	C C Send stat to Lab. Contact Lab if clinically urgent	5 days 1 week if not urgent
vWF:Antigen Assay	VWAG	C C Send stat to Lab. Contact Lab if clinically urgent	2 days 1 week if not urgent
Warfarin Level	WARF	S Send stat. Contact Lab in advance	10 days (routine) Contact Lab if urgent

E = EDTA 4ml C = Citrate 2.5ml/4.5ml S = SST/Gel 5ml

Haematology Routine Profiles

Anaemia Profile Full Blood Count ESR Vitamin B12 Red Cell Folate Serum Iron UIBC Iron Binding Saturation (%) Ferritin ANAEM S E 3 hours	DVT Pre-Travel Screen Full Blood Count Factor V Leiden PCR Prothrombin Mutation Cardiolipin Antibodies DVT S E Send stat to Lab 5 days
Clotting Screen Fibrinogen Activated Partial Thromboplastin Time Prothrombin Time INR CLOT C 4 hours	Full Blood Count Haemoglobin Haematocrit Red Cell Count Platelet Count MCV, MCH, MCHC White Cell Count and Differential FBC E 4 hours
Coagulation Profile Full Blood Count Fibrinogen Activated Partial Thromboplastin Time Prothrombin Time INR COAG E C 4 hours	Haematology Profile Full Blood Count ESR HAEM E 4 hours
	Thalassaemia (Haemoglobinopathy) Screen Full Blood Count Haemoglobinopathy screen HBOPATHYSCREEN E 1 day



BLOOD TRANSFUSION



Blood transfusion

Sample requirements:

Please use a 9mL EDTA **B B** sample for adults and a 1-5mL EDTA **E** sample for children.

When labelling the sample, as well as following the instructions on **page 14**, **please include the signature of the person taking the sample**. We can only process samples where we have this information.

Please do not use addressograph labels.

We cannot share samples with Haematology, so please make sure we receive separate samples and request forms.

All sample details must be either:

- handwritten
- OR**
- from an electronic positive patient identification and sample labelling system, such as Iatric's MobiLab

Blood Transfusion

We can only carry out cross matching once your patient has been admitted

When your patient has their pre-admission, they're an outpatient. And of course, once they're admitted, they're an inpatient. Crucially, their outpatient account number is different to their inpatient account number.

Because of this, we can't carry out cross matches pre-admission.

We recommend your patient has a group and screen in advance, to identify any potential problems. Then we can perform a cross match on admission.

Useful contacts

For technical queries regarding Blood Transfusion, email us on:

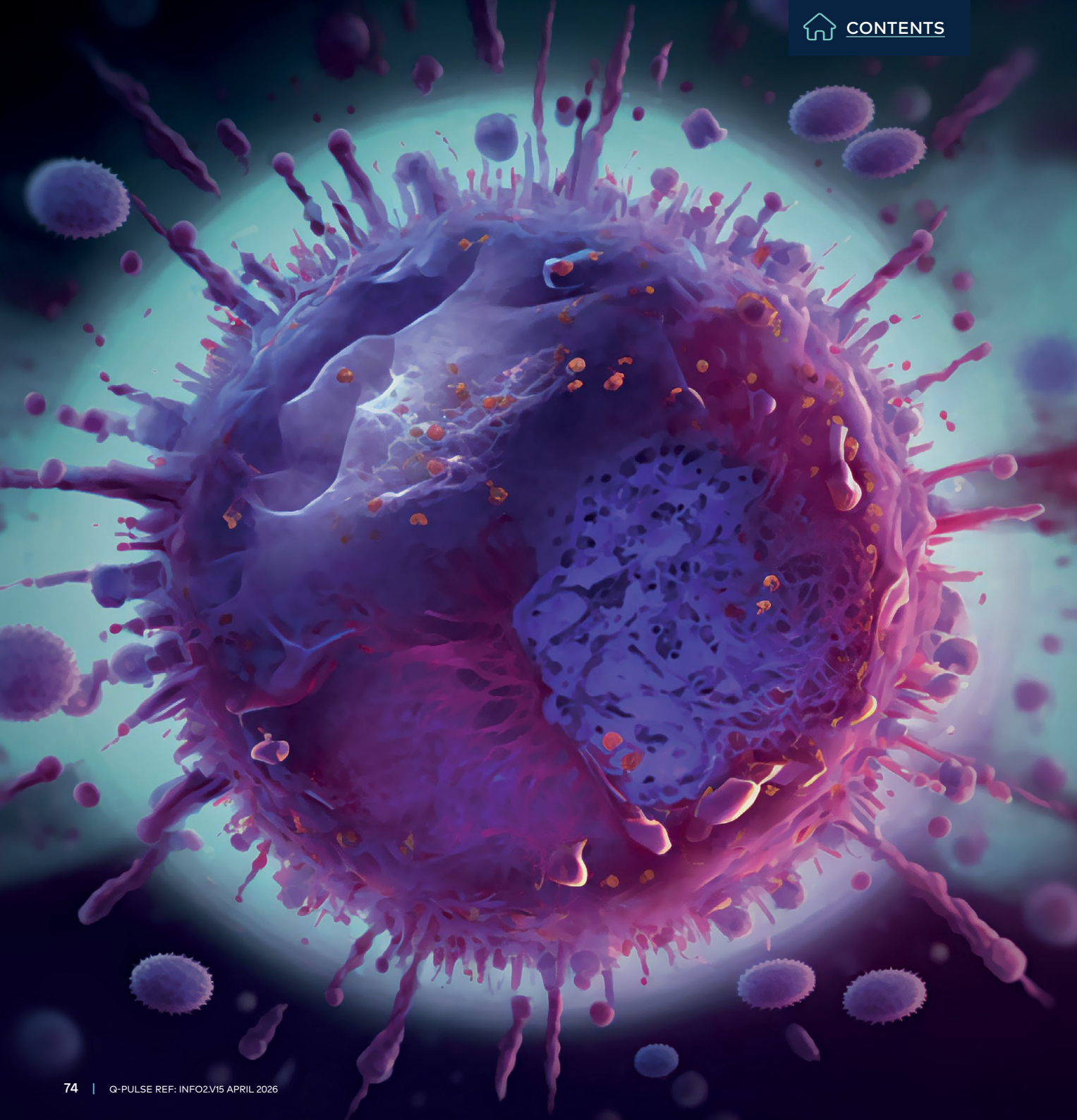
hca-transfusionbms@hcahealthcare.co.uk

or call us on **020 7034 4510**.

Blood Transfusion

Test Name	Code	Sample Type	TAT
Antibody Identification Panel	ABP	BB BB Label as for Blood Group (handwritten, full details)	5 days
Antibody Screen	ABS	BB	4 hours
Antigen Identification Panel	AGP	BB BB 5 days if extended	5 hours
Cold Agglutinins	COLD	BB Keep sample at 37c (in thermos) - hand label as per g&s	2 days
Crossmatch	XM	BB	4 hours
Direct Antiglobulin Test	DAT	BB	6 hours
Genotyping - Blood antigens	GENOTYPE	BB 5 days if extended	5 hours
Granulocyte Antibodies	GRANAB1	S BB BB Hand Label all tubes inc. D.O.B and SIGN LEGIBLY by taker	4 weeks
Group and Screen	GS	BB	4 hours
HLA Antibodies	HLAABS1	S BB	5 days
HNA Typing	HNAGENO1	BB BB Clearly hand label tube inc. D.O.B and SIGN LEGIBLY by taker	7 days
HPA-1a Negative Typing Charge	HPA	BB BB S	7 days
Infant Autoimmune Neutropaenia	IAN1	BB S Sample must be fully hand-labelled, as for G+S.	4 weeks
Platelet (HPA) Typing	PLTT1	BB	7 days
Platelet Refract. / HLA	PLTREFRACT1	BB S	2 weeks

BB = EDTA 9ml
 S = SST/Gel 5ml



IMMUNOLOGY, SEROLOGY & VIROLOGY





Immunology, Serology & Virology

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

In Immunology, Serology and Virology, we usually use serum separator tubes (SST). However, EDTA tubes, red duo swabs, Gene Xpert tubes, UTM tubes and urine samples are also used for PCR testing.

QuantiFERON-TB testing requires the special four-tube collection pack. Please ensure all tubes are filled to the black line, mixed and sent to us within 16 hours of the samples being taken.

Please make sure that, in each case you supply the minimum volume – otherwise, we will not be able to analyse the sample. Contact us if you are unsure of this.

Immunology, Serology & Virology

Ordering extra tests:

We can often carry out extra tests using the samples you've already sent us, depending on the requirements of the new tests and the age of the samples.

Typically, samples are refrigerated for seven days. Some, like needle-stick injury samples and ante-natal samples, are frozen for up to two years. So contact us to check whether you can order any extra tests within these timeframes.

To order extra tests, please call us on [020 7486 5091](tel:02074865091) or email: hcalaboratories@hcahealthcare.co.uk.

Useful contacts

For technical queries regarding Serology or Virology, email us on:

serology@hcahealthcare.co.uk

or call on [020 7034 4554](tel:02070344554).

For technical queries regarding immunology email us on:

immunology@hcahealthcare.co.uk

or call us on [020 7034 4556](tel:02070344556).

Immunology

Test Name	Code	Sample Type	TAT
Acetylcholine Receptor Antibody	ACRA	S	14 days
Adrenal Cortex Antibodies	ADRE	S	7 days
Alternative Pathway (AP50)	AP50	S	21 day
AMPA & GABA-B Receptor Ab	AMPA	S	21 day
ANA Screen (HEp-2) Includes: Reflex for HEp-2 staining patterns	ANA	S	3 days
ANCA (MPO & PR3) Includes: Myeloperoxidase (MPO), Proteinase-3 (PR3) Antibodies	ANCA	S	3 days
Autoantibody Screen Includes: ANA Screen (HEp-2), Mitochondrial, Smooth Muscle, Liver Kidney Microsomal and Gastric Parietal Cell Antibodies	AUTO	S	3 days
Basal Ganglia Antibodies	ABGA	S	21 day
Beta-2 Glycoprotein 1 Ab Includes: IgG + IgM	B2GP	S	3 days
C1 Esterase (Level & Function)	C1EST	S Send stat on ice	14 days
C1q Antibodies	C1Q	S	21 day
C3 Nephritic Factor	C3NEF	S Send stat on ice	21 day
Calcium Channel Antibodies	VGCC	S Send stat on ice	28 days
Cardiolipin Antibodies Includes: IgG + IgM	CARDIO	S	3 days
Classical Pathway (CH50)	CH50	S Send stat on ice	21 day

S = SST/Gel 5ml

Immunology

Test Name	Code	Sample Type	TAT
Coeliac Screen (tTG IgA) Initial Screen: Anti-tTG IgA and Total IgA will be performed as the initial screen for both children and adults. All positive anti-tTG IgA results will have an endomysial IgA performed. Low IgA: If the Total IgA is < 0.2 g/L, anti-tTG IgG and anti-DGP IgG will be reflexed.	COELIAC	S	3 days
Diabetes Ab (GAD/IA2/ZNT8) Includes: GAD, IA-2, ZnT8	DAA	S	14 days
DNA (Double Stranded) Ab IgG Includes: Reflex to Crithidia for positive results	DNA	S	3 days
DPPX Antibody	DPPX	S	28 days
ENA Screen Includes: RNP, Ro60, Ro52, La, Centromere-B, Scl-70, Jo-1, Sm	ENA	S	3 days
GAD Antibody	GAD	S	14 days
Ganglioside Antibodies	GANG	S	21 day
GBM Antibody	GBM	S	3 days
Gliadin (Deamidated) IgG	DGPG	S	3 days
Histone Antibodies	HISA	S	14 days
IgLON5 Antibody	IGLON5	S	28 days
Insulin Antibody	IAA	S	14 days
Intrinsic Factor Antibody	IFAB	S	3 days
Liver Immunoblot Includes: M2, gp210, sp100, LKM1, LC1, SLA and F-actin antibodies	LIVERBLOT	S	7 days

S = SST/Gel 5ml

Immunology

Test Name	Code	Sample Type	TAT
MAG Antibody	MAG	S	28 days
MuSK Antibodies	MUSK	S	21 day
Myocardial Antibodies	MYOAB	S	14 days
Myositis Antibodies Includes: ANA Screen (HEp-2) and Myositis Immunoblot (Jo-1, PL-7, PL-12, EJ, SRP, MI-2, MDA-5, TIF1-gamma, Ro52, SAE1/2, NXP2)	MYOSITIS	S	7 days
Neuronal Antibodies	NEURAB	S	21 day
NMDA Receptor Antibody	NMDAR	S	14 days
NMOSD Ab (AQP4 & MOG)	NMOSD	S	14 days
Ovarian Antibodies	OVAB	S	7 days
Phospholipid Antibodies Includes: Cardiolipin, Beta-2 Glycoprotein 1 and Lupus Anticoagulant	APLAB	S C C	3 days
PLA2 Receptor Antibodies	PLA2R	S	21 day
Retinal Antibodies	RETINAL	S	28 days
Salivary Duct/Gland Antibodies	SALD	S	21 day
Scleroderma Antibodies Includes: ANA Screen (HEp-2) and Scleroderma Immunoblot (Scl-70, Centromere-A/B, PM-Scl-100/75, Ku, RNA Polymerase III, RNP, Th/To, Fibrillarin, NOR-90, Ro52)	SCLERODERMA	S	7 days
Striated/Skeletal Muscle Ab	STRA	S	21 day
Testes Antibodies	TAB	S	28 days
Thyroglobulin Antibody	TGAB	S	3 days
Thyroid Peroxidase Ab (TPO)	TPO	S	3 days

S = SST/Gel 5ml **C** = Citrate 2.5ml/4.5ml

Immunology

Test Name	Code	Sample Type	TAT
Tissue Transglutaminase IgG	TTGG		3 days
Titin Antibodies	TITIN		28 days
TSH Receptor Antibody	TSHR		3 days
VGKC Ab (CASPR2 & LGI1)	VGKC		14 days

 = SST/Gel 5ml

Immunology Profiles

Autoantibody Screen

ANA Screen (HEp-2)

Mitochondrial

Smooth Muscle

Liver Kidney Microsomal and Gastric Parietal Cell Antibodies

AUTO



3 days

Coeliac Screen (tTG IgA)

Anti-tTG IgA and Total IgA will be performed as the initial screen for both children and adults. All positive anti-tTG IgA results will have an endomysial IgA performed.

Low IgA: If the Total IgA is < 0.2 g/L, anti-tTG IgG and anti-DGP IgG will be reflexed.

COELIAC



3 days

Serology & Virology

Test Name	Code	Sample Type	TAT
Adenovirus PCR (BLD)	ADEPCRBLD	E	3 days
Amoebic Ab	AMOEBICAB	S	3 days
Angiostrongylus Ab	ANGAB	S	7 days
Arbovirus Ab	ARBOAB	S	7 days
B. burgdorferi Ab	BORBURAB	S	2 days
B. pertussis Ab	BORPERAB	S	14 days
Bartonella species Ab	BARTAB	S	14 days
BK Virus PCR (Blood)	BKVPCRBLD	E	21 day
Brucella spp. Ab	BRUAB	S	2 days
Brucella spp. PCR	BRUCPCR	E	3 days
C. diphtheriae Ab	CORDIPAB	S	28-35 days
Candida PCR	CANDPCR	S	1 week
Candida species Ag	CANDAG	S	5 days
Candida spp. Ab	CANDAB	S	5 days
Candida Stimulation	CANDTCELL	H Contact Lab in advance	2 weeks
Chikungunya Virus Ab	CHIKAB	S	7 days
Chikungunya Virus PCR	CHIKPCR	E	1 week
Chlamydia Ab Screen	CHLAMAB	S	14 days
Chlamydia psittaci Ab	CHLPSIAB	S	7 days
CMV IgG	CMVIGG	S	2 days

E = EDTA 4ml **S** = SST/Gel 5ml **H** = Lithium Heparin 6ml

Serology & Virology

Test Name	Code	Sample Type	TAT
CMV IgM	CMVIGM	S	2 days
CMV PCR (Blood) (inc. quantitation)	CMVPCRBLD	E	3 days
CMV R Mutations	CMVRESISTANCE	E	7 days
CMV Serology	CMV	S	1 day
Coccidioides spp. Ab	COCCAB	S	10 days
CoV2 Spike Ab	COVID19ABSPIKE	S	1 day
COXBURAB	Coxiella burnetti Ab	S	7 days
Cryptococcus Ab	CRYPTAB	S	2 days
Cysticercus Ab	CYSTICERAB	S	7 days
Dengue Virus IgG	DENGUEIGG	S	7 days
Dengue Virus IgM	DENGUEIGM	S	7 days
Dengue Virus PCR	DENGUEPCR	E	3 days
Early Detection Screen - BBV (HIV 1/2 PCR, Hepatitis B PCR, Hepatitis C PCR)	EDSBBVPCR	E	3 days
EBV PCR (Blood) (inc. quantitation)	EBVPCR	E	2 days
EBV Serology	EBV	S	1 day
Enterovirus PCR (Bld)	ENTPCRBLD	E	2 days
F. tularensis Ab	FRATULAB	S	7 days
Faecal Calprotectin	CALPROTECTIN	FAEC	4 days
Fasciola hepatica Ab	FASHEPAB	S	7 days
Filaria Ab	FILARIAAB	S	10 days

S = SST/GeI 5ml
 E = EDTA 4ml
 FAEC = Faeces in sterile universal

Serology & Virology

Test Name	Code	Sample Type	TAT
G. spinigerum Ab	GNASPIAB	S	28 days
Galactomannan (Blood)	GALACTOMANNAN	S	3 days
H. influenzae Ab	HAEAB	S	7 days
H. Pylori Ag (Faec)	HELPLYLAG	FAEC	2 days
H. pylori IgG	HELPLYLIGG	S	3 days
Hantavirus IgG	HANTAIGG	S	14 days
Hep A PCR	HEPAPCR	E	21 day
Hep B Core Ab	HEPBCAB	S	8 hours
Hep B Genotyping	HEPBGENO	E	4 days
Hep B Lamivudine Res.	HEPBLAMIVUDINE	S	7 days
Hep B PCR (inc. quantitation)	HEPBPCR	S	3 days
Hep B Surface Ab	HEPBSAB	S	8 hours
Hep B Surface Ag	HEPBSAG	S	8 hours
Hep C Ab	HEPCAB	S	8 hours
Hep C Genotyping	HEPCGENO	E	4 days
Hep C PCR (inc. quantitation)	HEPCPCR	S	2 days
Hep D Ab	HEPDAB	S	10 days
Hep E Ab	HEPEAB	S	5 days
Hepatitis A Ab	HEPA	S	8 hours
Hepatitis B Serology	HEPB	S	8 hours

S = SST/Gel 5ml **E** = EDTA 4ml **FAEC** = Faeces in sterile universal

Serology & Virology

Test Name	Code	Sample Type	TAT
Hepatitis D PCR	HEPDPCR	E	7 days
HHV 6 IgG	HHV6IGG	S	7 days
HHV 6 PCR (Blood)	HHV6PCRBLD	E	3 days
HHV 8 IgG	HHV8IGG	S	14 days
HHV 8 PCR (Blood)	HHV8PCRBLD	E	3 days
Histoplasma Ab	HISTAB	S	8 days
Histoplasma Ag (U)	HISTOPLASAG	MSU	14 days
HIV 1 & 2 Ab/Ag	HIV	S Screening for positive results may take up to an additional 10 working days for confirmatory testing to be completed	8 hours
HIV 1 Proviral DNA	HIV1PRODNA	E	3 days
HIV COMBIVIR Resistance Assay	HIVCOMBIVIR	E	10 days
HIV Tropism	HIVTROP	E	21 day
HIV Viral Load	HIVVL	E	4 days
HSV 1/2 Ab Screen	HERSIMAB	S	5 days
HSV PCR (Blood)	HERSIMPCRBLD	E	3 days
HTLV-1/2 Ab	HTLV	S	2 days
Hydatid Ab	HYDAAB	S	3 days
Interleukin Profile	INTERLEUK	S Send stat to Lab	17 days
JC Virus PCR (BLD)	JCVPCRBLD	E	14 days

S = SST/Gel 5ml
 E = EDTA 4ml
 MSU = Mid Stream Urine in sterile universal

Serology & Virology

Test Name	Code	Sample Type	TAT
Legionella Antigen	LEGAGU	MSU	4 hours
Leishmania Ab	LEISHAB	S	7 days
Leptospira Ab	LEPTOAB	S	4 days
Lidocaine Ab	LIDOAB	S	7 days
M. pneumoniae Ab	MYCOPNEAB	S	3 days
M. pneumoniae PCR (Blood)	MYCPNEPCR	E	3 days
Measles IgG Includes: ANA Screen (HEp-2) and Myositis Immunoblot (Jo-1, PL-7, PL-12, EJ, SRP, MI-2, MDA-5, TIF1-gamma, Ro52, SAE1/2, NXP2)	MEAIGG	S	1 day
Measles IgM	MEAIGM	S	1 day
Meningo Ab (ABCWY)	NEIMENAB	S	28 days
Mumps IgG Includes: Cardiolipin, Beta-2 Glycoprotein 1 and Lupus Anticoagulant Antibodies	MUMIGG	S	1 day
Mumps IgM	MUMIGM	S	1 day
P. westermani Ab	PARWESAB	S	28 days
Parathyroid Ab	PARTHAB	S	7 days
Parvovirus Ab	PARVOAB	S	10 days
Parvovirus PCR (Bld)	PARVOPCR	E	14 days
Pneumococcal Ab	PNEUAB	S	7 days
Pneumococcal Antigen	PNEUAG	MSU	1 day
Pneumococcal PCR (Blood) Includes: ANA Screen (HEp-2) and Scleroderma Immunoblot (Scl-70, Centromere-A/B, PM-Scl-100/75, Ku, RNA Polymerase III, RNP, Th/To, Fibrillarin, NOR-90, Ro52)	STRPNEPCR	E	3 days

S = SST/Gel 5ml
 E = EDTA 4ml
 MSU = Mid Stream Urine in sterile universal

Serology & Virology

Test Name	Code	Sample Type	TAT
Polio Virus Ab	POLIOAB	S	21 day
qFIT	QFIT	QFIT Dedicated collection picker for sampling must be used	1 day
R.P.R.	SYRPRR	S	2 days
Rabies Ab	RABIESAB	S	40 days
Rickettsia Ab	RICKETTAB	S	10 days
Rubella IgG	RUBIGG	S	8 hours
Rubella IgM	RUBIGM	S	1 day
S. Cerevisiae Ab	SAC CERAB	S	14 days
Schistosoma Ab	SCHISTOAB	S	3 days
Serology Screen Atyp. Pneu. (Mycoplasma Pneumoniae, IgG/IgM, Chlamydia Antibodies)	ATYP PNE	S	14 days
Serology Screen Hep ABC	HEPABC	S	8 hours
Serology Screen MMR	MMR	S	2 days
St Louis Virus Ab	STLOUISVIRUSAB	S	3 days
St Louis Virus PCR	STLOUISVIRUSPCR	S	3 days
Streptococcal DNAase	STRDNA	S	7 days
Strongyloides spp. Ab	STRONGYAB	S	7 days
Syphilis Ab	SYPHAB	S	4 hours
T. whipplei PCR (Blood)	TROWHIPPCR	E	3 days

S = SST/Gel 5ml
 E = EDTA 4ml
 MSU = Mid Stream Urine in sterile universal

Serology & Virology

Test Name	Code	Sample Type	TAT
TB Quantiferon	TBQUANT	TBQUANT Special QuantiFERON-TB pack required	3 days
Tetanus Ab	TETAB	S	4 days
Tick-Borne Encephalitis Ab	TICKAB	S	7 days
TNF-A	TNF-A	S Send frozen and stat on ice	21 day
Toxocara Ab	TOXOCARAB	S	10 days
Toxoplasma IgG	TOXOPIGG	S	8 hours
Toxoplasma IgM	TOXOPIGM	S	7 days
Toxoplasma PCR (Blood)	TOXOPCRBLD	E	7 days
Trichinella Ab	TRICHAB	S	8 days
Trypanosoma brucei Ab	TRYCRUAB	S	7 days
VZV IgG	VZVIGG	S	2 days
VZV IgM	VZVIGM	S	4 days
VZV PCR (Blood)	VZVPCR	E	3 days
W. Nile Virus Ab	WESTNILEAB	S	7 days
W. Nile Virus Ab CSF	WESTNILEABCSF	CSF	7 days
W. Nile Virus PCR (Blood)	WESTNILEPCRBLD	E	7 days
Yellow Fever IgG	YELLOWFEVERIGG	S	3 days
Yellow Fever PCR	YELLOWFEVERPCR	E	3 days
Yersinia Ab	YERSPEAB	S	7 days

S = SST/Gel 5ml
 E = EDTA 4ml

Serology & Virology

Test Name	Code	Sample Type	TAT
Zika Virus Ab	ZIKAVIRAB	 S	14 days
Zika Virus PCR	ZIKAVIRPCR	 E	14 days

 = SST/Gel 5ml  = EDTA 4ml

Serology & Virology - Antimicrobial Serum Levels

Test Name	Code	Sample Type	TAT
Aciclovir (+CMMG)	ACICLOVIR	S	4 days
Chloramphenicol	CHLORAMPHENICOL	S	4 days
Ciprofloxacin	CIPROFLOXACIN	S	4 days
Colistin	COLISTIN	S	4 days
Cycloserine	CYCLOSERINE	S	4 days
Daptomycin	DAPTOMYCIN	S	4 days
Ethambutol	ETHAMBUTOL	S	4 days
Fluconazole	FLUCONAZOLE	PLN	4 days
Flucytosine	FLUCYTOSINE	PLN	4 days
Ganciclovir	GANCICLOVIR	S	4 days
Isavuconazole	ISAVUCONAZOLE	PLN	4 days
Isoniazid (+N-Acetyl Isoniazid)	ISONIAZID	F	4 days
Itraconazole	ITRACON	PLN	4 days
Levofloxacin	LEVOFLOXACIN	S	4 days
Linezolid	LINEZOLID	S	4 days
Meropenem	MEROPENEM	S	4 days
Moxifloxacin	MOXIFLOXACIN	S	4 days
Posaconazole	POSACONAZOLE	PLN	4 days
Rifabutin	RIFABUTIN	S	4 days
Rifampicin	RIFAMPICIN	S	4 days

S = SST/Gel 5ml **PLN** = Plain 4ml **F** = Fluoride Oxalate 2ml

Serology & Virology - Antimicrobial Serum Levels

Test Name	Code	Sample Type	TAT
Streptomycin	STREPTOMYCIN	S	4 days
Teicoplanin	TEICOPLANIN	S	4 days
Tobramycin	TOBRAMYCIN	S	4 days
Trimethoprim/Sulphamethoxazole	CO-TRIMOXAZOLE	S	4 days
Voriconazole	VORICONAZOLE	PLN	4 days

S = SST/GeI 5ml **PLN** = Plain 4ml



ALLERGY



Allergy

While the following pages show our most common tests, we can test for many additional specific individual allergens if you need us to.

The allergen tests we perform are IgE specific allergens and the allergy response is graded. Our profiles also include testing for Total IgE.

Sample requirements

Please provide one SST tube  per 10 allergens requested.

Get in touch if you have any questions about the interpretation of any results and we can arrange a call with our consultant immunologist.

Useful contacts

For technical queries regarding Allergy testing, you can email us on

immunology@hcahealthcare.co.uk

or call us on **020 7034 4556**.

Allergy

Test Name	Code	Sample Type	TAT
ALEX Test ALEX (Allergy Xplorer): in-vitro multiplex allergy test allowing simultaneous measurements of quantitative total IgE (tIgE) and specific IgE (sIgE) against a large number of allergen extracts and molecular allergens.	ALEX	S	7 days
Aspergillus Precipitins	GM3	S	3 days
Avian Precipitins	AVIAN	S	14 days
Farmers Lung Precipitins	FARMERS	S	14 days
HR-Urticaria Test	CURT	S	28 days
Specific IgE (individual) Please see the Thermo Fisher Scientific website for available individual allergens: thermofisher.com/phadia/gb/en/resources/allergen-encyclopedia.html	N/A	S	3 days
Total IgE	TIGE	S	3 days
Tryptase	TRYP	S	3 days

S = SST/Gel 5ml

Allergy Profiles

Test Name	Code	Sample Type	TAT	
B-Lactam Antibiotic Allergens	ANTIBIOTIC	S	3 days	Amoxicilloyl, Ampicilloyl, Cefaclor, Penicilloyl G, Penicilloyl V
Cereal Allergen Panel	CEREAL	S	3 days	Barley, Oat, Rye, Wheat
Finfish Allergen Panel	FINFISH	S	3 days	Fish (cod), Mackerel, Plaice, Salmon, Sardine (Pilchard), Sole, Swordfish, Tuna
Food Allergen Panel	FOOD	S	3 days	Kiwi, Hazelnut, Peanut, Sesame seed, Soya bean, Wheat, Fish (cod), Shrimp, Egg white, Egg yolk, Beef, Cow's milk
Fruit Allergen Panel	FRUIT	S	3 days	Apple, Apricot, Blackberry, Grape, Grapefruit, Melon, Orange, Peach, Pear, Pineapple, Plum, Raspberry, Strawberry
Inhalant (Aero) Allergen Panel	INHALANT	S	3 days	Timothy grass, Common ragweed, Mugwort, Common silver birch, London plane, Alternaria alternata, Aspergillus fumigatus, Cladosporium herbarum, Cat dander, Dog dander, Horse dander, Der. Farinae, Der. pteronyssinus
Insect Allergen Panel	INSECT	S	3 days	Common wasp, Honey bee, Paper wasp, White-faced hornet, Yellow hornet
Meat (Red) Allergen Panel	MEAT	S	3 days	Beef, Mutton, Pork
Nuts & Seeds Allergen Panel	NUTS	S	3 days	Almond, Brazil nut, Cashew nut, Hazelnut, Macadamia nut, Peanut, Pecan nut, Pine nut, Pistachio, Poppy seed, Pumpkin seed, Sesame seed, Sunflower seed, Walnut
Paediatric Allergen Panel	PAED	S	3 days	Timothy grass, Common silver birch, Cat dander, Dog dander, Der. Pteronyssinus, Hazelnut, Peanut, Soya bean, Wheat, Fish (cod), Egg white, Egg yolk, Cow's milk
Seafood Allergen Panel	SEAFOOD	S	3 days	Includes: Finfish Panel + Shellfish Panel
Shellfish Allergen Panel	SHELLFISH	S	3 days	Blue mussel, Clam, Crab, Crayfish, Lobster, Octopus, Scallop, Shrimp, Squid

S = SST/Gel 5ml



MICROBIOLOGY





Microbiology

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

Please follow the instructions below – this will allow us to work effectively and return results as quickly as possible.

Clinical Details:

Ensure relevant clinical information is provided when submitting samples for Microbiology. This may include, but is not limited to relevant travel history suspicion of hazard group 3 pathogens (e.g. Typhi, Brucellosis, Anthracis), etc.

Sample Transport:

Microbiology samples must be transported to the laboratory as soon as practicable. Delays in the transportation of samples can impact on the accuracy of laboratory investigation.

Turnaround Times:

Please note that positive cultures may take longer to perform if additional testing is required.

Ova, Cysts and Parasites:

Due to the variable shedding of organisms, several stool specimens should be examined. Ideally a total of three specimens should be taken 2-3 days apart.

Mycobacterium tuberculosis (TB) (Pulmonary):

Send multiple respiratory samples (Three deep cough sputum samples, preferably include one early morning sample) for TB microscopy and culture.

Blood Cultures:

Please always send adult collections as a set. If possible, collect them before administering antibiotics, as this maximises the chance of recovering an aetiological agent.

Please be sure to collect samples aseptically to prevent contamination: wear fresh protective equipment, and disinfect the puncture site and / or access port before collection.

Deep Seated Wounds:

Please take a deep swab or biopsy if possible.

Microbiology

Urine:

Please instruct patients how to collect samples. Women should hold labia apart, discard the first portion of voided urine and collect midstream urine in a sterile universal container. Men should retract the foreskin, discard the first portion of voided urine and collect midstream urine in sterile universal container.

When collecting any fluids (including pus): instead of using swabs, please aspirate as aseptically as possible into a sterile container, as long as it's safe to do so.

Useful contacts

If you have any queries, please email us on hcalaboratories@hcahealthcare.co.uk or call **020 7486 5091** for the attention of our Microbiology team.

Microbiology - Culture

Test Name	Code	Sample Type	TAT	Additional Information
Blood Culture (Adult/Fluid)	BC	Anaerobic & Aerobic Bottles	5 days (standard) 14 days (endocarditis)	Fill Blood Culture bottles with 8-10ml of Blood Contact Laboratory if clinical suspicion of Hazard Group 3 pathogen (eg. Brucellosis, Typhoid Fever, Melloidosis, etc)
Blood Culture (Paediatric)	BCP	Paediatric Bottle	5 days (standard) 14 days (endocarditis)	Fill Blood Culture bottles with 1-3mL of Blood Contact Laboratory if clinical suspicion of Hazard Group 3 pathogen (eg. Brucellosis, Typhoid Fever, Melloidosis, etc)
C. difficile Screen	CDIFF	FAEC	6 hours	
Candida auris Screen	CANAUR	Culture Swab (Blue/Charcoal)	2 days	Standard Panel: Nose, Axilla, Groin, Throat Times may be extended for positive investigations to facilitate additional investigative work
Catheter Tip Culture	CATHETER	Catheter Tip - SU	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Contact Lens Culture	CONLENS	Contact Lens - SU	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Corneal Scrape Culture	CORSCR	Agar Plates (discuss with lab)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
CRE Screen	CRE	Rectal Culture Swab (Blue/Charcoal)	Next working day	Times may be extended for positive investigations to facilitate additional investigative work
Cryptococcal Antigen (CSF)	CRYAGCSF	CSF	2 days	This test is not performed in-house, and the turnaround time may be variable.
Cryptosporidium	CRYSP0	FAEC	Next working day	
CSF Culture	CSF	CSF	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Ear Swab Culture	EAR	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work

Microbiology - Culture

Test Name	Code	Sample Type	TAT	Additional Information
ESBL Screen	ESBL	Rectal/Throat Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Eye Swab Culture	EYE	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Faecal Culture	FAEC	FAEC	3 days	Times may be extended for positive investigations to facilitate additional investigative work
Female Genital Swab Culture	GYNE	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Fluid Culture	FLUID	Fluid - SU	4 days	Where clinical information provided suggests a fluid was collected as part of complex orthopaedic work, culture will be extended for 14 days Times may be extended for positive investigations to facilitate additional investigative work
Fungal Culture (Deep Mycosis)	FUNG	Fluid - SU Tissue - SU	4 weeks	Contact Laboratory if clinical suspicion of Hazard Group 3 pathogen (eg. Histoplasmosis, Coccidiomycosis, etc). Times may be extended for positive investigations to facilitate additional investigative work
Fungal Culture (Dermatophyte)	DERM	Hair, Skin, Nail - Dermapack Nail - SU	3 weeks	Times may be extended for positive investigations to facilitate additional investigative work
Galactomannan (BAL)	GALACTBAL	BAH - SU	1 week	Times may be extended for positive investigations to facilitate additional investigative work
Group B Streptococcus Screen	GBS	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
H. pylori Culture	HPYLORICULTURE	Gastric Biopsies	4 weeks	Samples should only be sent Mon-Thurs, before 14:00
Hydatid Microscopy	HYDMIC	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.

Microbiology - Culture

Test Name	Code	Sample Type	TAT	Additional Information
India Ink Stain (CSF)	tCSFII	Contact the Lab	Same day	This test is not performed in-house, and the turnaround time may be variable.
IUCD Culture	IUCD	IUCD - SU	10 days	Times may be extended for positive investigations to facilitate additional investigative work
Kidney Stone Culture	RSCUL	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Microsporidia	MICSPO	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Mouth Swab Culture	MOUTH	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
MRSA at Home	MRSAP	Culture Swab (Blue/Charcoal)	Next working day	Times may be extended for positive investigations to facilitate additional investigative work
MRSA Screen	MRSA	Culture Swab (Blue/Charcoal)	Next working day	Times may be extended for positive investigations to facilitate additional investigative work
Mycobacteria (AFB) Culture	TBC	Respiratory Sample - SU Early Morning Urine (full void) - SU Tissue - SU Fluid - SU	8 weeks	
Mycobacteria Blood Culture	TBBC	H	8 weeks	This test is not performed in-house, and the turnaround time may be variable.
Neonatal Screen	NEONATAL	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Nose Swab Culture	NOSE	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Ova, Cyst, Parasite	OCP	FAEC	Next working day	
Pertussis Culture	PERTUSSIS	Nasopharyngeal Swab (Organge - thin wire) Nasopharyngeal Aspirate - SU	1 week	PCR is recommended as a more sensitive and rapid diagnostic tool. This is included on REPPCR23

Microbiology - Culture

Test Name	Code	Sample Type	TAT	Additional Information
Respiratory Culture	RESP	Respiratory Sample - SU	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Schistosoma (Terminal Urine)	SCHISTOSOMA	Terminal Urine - SU	Next working day	
Schistosoma Biopsy	SCHBIO	Contact the Lab	2 week	This test is not performed in-house, and the turnaround time may be variable.
Sellotape (Threadworm)	SELLOTAPE	Sellotape - SU	Next working day	
Semen Culture	SEMEN	SU	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Stamey Culture (2-Glass Test)	STAMEY	Pre-Prostatic Massage Urine - SU Post-Prostatic Massage Urine - SU	2 days	Investigation requires provision of both samples for identification of significant results. Times may be extended for positive investigations to facilitate additional investigative work
Strongyloides	STRONG	FAEC	4 weeks	Minimum of 25mL Faeces required. Do not refrigerate
Surgical Part Culture	SURGPARTS	Surgical Part - SU	7 days	Where clinical information provided suggests a sample was collected as part of complex orthopaedic work, culture will be extended for 14 days. Times may be extended for positive investigations to facilitate additional investigative work
Swab Culture	SWAB	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Throat Swab Culture	THROAT	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work

Microbiology - Culture

Test Name	Code	Sample Type	TAT	Additional Information
Tissue/Biopsy Culture	TISSUE	Tissue - SU	7 days	Where clinical information provided suggests a sample was collected as part of complex orthopaedic work, culture will be extended for 14 days Times may be extended for positive investigations to facilitate additional investigative work
Urethral Swab Culture (MALE)	URETH	Culture Swab (Blue/Charcoal)	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Urinalysis (excluding culture)	URINALYSIS	SU	Next working day	
Urine Culture	URINE	SU	Next working day	Times may be extended for positive investigations to facilitate additional investigative work
VRE Screen	VRE	Rectal Culture Swab (Blue/Charcoal)	Next working day	Times may be extended for positive investigations to facilitate additional investigative work

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
Acanthamoeba PCR	ACAPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Adenovirus PCR	ADEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Aspergillus PCR	ASPPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
B K Virus PCR	BKVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Bacterial 16S rRNA	16S	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Bartonella PCR	BARPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Bocavirus PCR	BOCPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Bordetella pertussis PCR	BORPERPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Borrelia PCR	BORPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Brucella PCR	BRUPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Carbapenemase Detection PCR	CPOPCR	Rectal Red Top Duo Swabs	6 hours	
Chlamydia LGV PCR	LGVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Chlamydia Respiratory PCR	CHLRESPPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Chlamydia/ Gonorrhoea PCR	CTNGPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Pink Topped (cepheid) swab Thin Prep Vial	Next working day	

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
Coxiella burnetii PCR	COXBURPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Coxsackievirus PCR	COXSACPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Cryptococcus PCR	CRYPCCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
CSF PCR Profile	CSFPCR	CSF	3 days	Times may be extended for positive investigations to facilitate additional investigative work
Cutibacterium acnes PCR	CUTACNPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Cytomegalovirus PCR	CMVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable. See CMVPCRBLD for diagnostics on blood.
Dermatophyte PCR	DERPCR	Hair, Skin, Nail - Dermapack Nail - SU	1 week	
Enterobacterales PCR	ENTBACTPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Enterovirus PCR	ENTVIRPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Epstein Barr Virus PCR	EBVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable. See EBVPCRBLD for diagnostics on blood.
Extended PCR Detection	16SEXT	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Faecal Parasite PCR	FAECPARPCR	FAEC	1 week	
Faecal Syndromic PCR Panel	FAECSYNPCR	FAEC	1 week	
Faecal Viral PCR	FAECVIRPCR	FAEC	1 week	

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
Gardnerella vaginalis PCR	GVPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Genital Ulcer PCR	SHULCERPCR	Red Topped UTM (copan) Swab Pink Topped (copan) eSwab	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Group A Streptococcus PCR	GASPCR	Pink Topped (copan) eSwab	6 hours	
Group B Streptococcus PCR	GBSPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Haemophilus ducreyi PCR	HAEMDUCPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 weeks	
Herpes Simplex Virus PCR	HSVPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work
HTLV-1 PCR	HTLV1PCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Human Herpes Virus 6 PCR	HHV6PCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Human Herpes Virus 7 PCR	HHV7PCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Human Herpes Virus 8 PCR	HHV8PCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Japanese Enceph. Virus PCR	JAPENCPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Kingella kingae PCR	KINKINPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
Legionella pneumophila PCR	LEGPNEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Leishmania Investigation	LEISHMANIA	Contact the Lab	4 week	This test is not performed in-house, and the turnaround time may be variable.
Leptospira PCR	LEPPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Listeria monocytogenes PCR	LISMONPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
M. genitalium PCR	MGPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	
M. tuberculosis complex PCR	TBPCR	Respiratory Sample - SU Tissue - Sterilue Universal Fluid - Sterilue Universal	Next working day	Must have an associated Mycobacteria Culture request
Measles PCR	MEAPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Monkeypox PCR	MPOXPCR	Red Topped UTM (copan) Swab	1 week	
MRSA PCR	MRSAPCR	Red Top Duo Swabs	6 hours	
Mumps PCR	MUMPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Mycobacteria PCR	MYCSPEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Mycoplasma pneumoniae PCR	MYCPNEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Mycoplasma/Ureaplasma PCR	MUPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
N. gonorrhoeae PCR (Joint Fld)	NEIGONPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Neisseria meningitidis PCR	NEIMENPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Pan-fungal (18S) DNA	18S	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Parechovirus PCR	PARECHOPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Parvovirus PCR	PARVOPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Pneumocystis jirovecii PCR	PCPPCR	Respiratory Sample - SU	1 week	
Polyoma JC Virus PCR	JCVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
PVL Detection	PVL	Contact the Lab	2 week	This test is not performed in-house, and the turnaround time may be variable.
Respiratory PCR Panel Swab/NPA	RESPPCR23	Red Topped UTM (copan) Swab	Next working day	
Respiratory PCR Panel: BAL/SPT	RESPPCR	Respiratory Sample - SU	1 week	
Rubella PCR	RUBPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
SARS-CoV-2/Flu A/Flu B/RSV PCR	RESPPCR4	Red Topped UTM –(copan) Swab	Next working day	
Sexual Health PCR Panel	SHPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Staphylococcus aureus PCR	STAAURPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.

Microbiology - Molecular

Test Name	Code	Sample Type	TAT	Additional Information
Staphylococcus genus PCR	STASPEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Streptococcus pneumoniae PCR	STRPNEPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Symptomatic STI PCR	STIPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Syphilis PCR	SYPHPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Toxoplasma PCR	TOXPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Trichomonas vaginalis PCR	TVPCR	Urine - SU Red Topped UTM (copan) Swab Pink Topped (copan) eSwab Thin Prep Vial	2 days	Times may be extended for positive investigations to facilitate additional investigative work
Tropheryma whipplei PCR	TROWHIPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Varicella Zoster Virus PCR	VZVPCR	Red Topped UTM (copan) Swab	1 week	
West Nile Virus PCR	WNVPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.
Zika Virus PCR	ZIKAPCR	Contact the Lab	1 week	This test is not performed in-house, and the turnaround time may be variable.



CYTOPATHOLOGY & HISTOPATHOLOGY



Cellular pathology

Cytopathology

We offer:

- Reporting of cervical smear samples using Hologic Thin Prep (all cervical smears received will be tested for HPV as per NHSCSP guidelines).
- Non-gynecological diagnostic reporting including Breast, Head and Neck, Urology, Respiratory specialities
- Cell block preparation
- Reporting of Anal Cytology samples using Hologic Thinprep combined with HPV subtyping for High and Low risk types
- Pathologist-taken FNA/imprint
- One-stop breast clinics
- Rapid on-site evaluation (ROSE) for various specialities
- Flow cytometry, immunohistochemistry and molecular testing
- Referral work and second opinions

The ROSE service is offered across multiple facilities within Central London. This includes FNAs, EBUS, and EUS, and also pathologist-taken FNA/imprint samples.

Tests which can be performed from the same cervical sample vial include:

- HPV DNA* – High risk types 16 and 18/45 reported separately and the other high risk types pooled in 3 different groups, P3 (31, 33,35,52,58), P4 (51,59) and P5 (39,56,66,68)
- HPV20 subtyping*** – 19 high risk and 9 low risk types individually reported
- HR-HPV mRNA*** – All high risk types combined in one single result
- HPV mRNA*** – 5 high risk types individually reported (type 16, 18, 31, 33, 35)
- Chlamydia**
- Gonorrhoea**
- STD screen – covering 7 individual results: Gonorrhoea, Chlamydia, Mycoplasma, Ureaplasma, Trichomonas vaginalis, Gardnerella vaginalis, Herpes Simplex I/II (any of these can be requested individually).

*Real-time PCR – Cepheid GeneXpert^(R) HPV Assay **Real-time PCR – Cepheid GeneXpert^(R) CT/NG Assay

***Service provided by external laboratories

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

- Cervical and anal smear samples: these must be placed in a gynae Thin Prep Vial (not 10% formalin).

The use of lubricant is not recommended as this can interfere with sample testing and adequacy, therefore PCR results may be invalid and smear results can be inadequate. Where required, we recommend water-based lubricant.

- Urine samples: ideally we need 30-50mL of first-catch urine in a sterile, additive free container. If a delay is anticipated, the sample can be refrigerated

- CSF samples: ideally we need a minimum of 3mL in a sterile, additive-free container, sent to the lab.
- Urgent BAL samples: these require 20-30mL of neat fluid in sterile, additive free container. Cytolyt^(R) fixative can be added if a delay anticipated except when a differential count is needed.
- Bronchial and Gastric brushings: these must be 2-3 air dried slides or a brush sent in a saline pot.
- Sputum samples: these should be sent to the lab immediately. Cytolyt^(R) fixative can be used if delay expected. Please avoid contamination with food or tobacco.

Additional tests can be added on, up to 21 day for Gynae Cytology and up to 2 weeks for Non-Gynae Cytology, after samples are received in the laboratory.

Useful contacts

For technical queries regarding Cytopathology, you can email us on cytology.lab@hcahealthcare.co.uk or call us on **020 7034 4559**.

For Clinical Lead Cytopathologist,
Dr Glen Dixon, call **020 7034 4551** or email glen.dixon@hcahealthcare.co.uk

Cytopathology

Test Name	Sample Type	Code	TAT
Co-test 3 (HR-HPV mRNA + cytology) Both tests charged, cytology screened plus pathologist report if HR-HPV (+) or abnormal smear. All High Risk HPV mRNA types in a pooled result.	CT3	THINPREP	3-4 working days
Co-test 4 (GeneXpert HR HPV DNA + HR-HPV mRNA + cytology) All tests charged, cytology screened plus pathologist report if HR-HPV (+) or abnormal smear. HR HPV 16,18/45 individually tested and 11 other high risk types split into 3 groups (31,33,35,39,51,52,56,58,59,66 and 68). All High Risk HPV mRNA types in a pooled result.	CT4	THINPREP	5-6 working days
Co-test 5 (HPV 20 (subtyping) + HR-HPV mRNA E6/E7 + cytology) All tests charged, cytology screened plus pathologist report if HR-HPV (+) or abnormal smear. HPV types individually tested: High risk 6,18,31,33,35,39,45,51,52,56,58,59,66,68 Low risk 6,11,42,43,44. HPV mRNA: 5 subtypes individually tested 16,18,31,33,45	CT5	THINPREP	7-8 working days
EBUS FNA	EBUS	Air dried slides and/or washings in saline/fluid in a sterile container.	2 days if sent to lab
EUS FNA	EUS	Air dried slides and/or washings in saline/fluid in a sterile container.	2 days if sent to lab Same day/ On site
Flow Cytometry	FLOW	Unfixed fluid in sterile container	Up to 2 weeks
Fluid Cytology	FLUID	Unfixed fluid in sterile container	2 working days excluding further testing
FNA Cytology	FNA	Air dried slides and/or washings in saline/fluid in a sterile container.	2 working days excluding further testing

Cytopathology

Test Name	Sample Type	Code	TAT
GeneXpert HPV DNA PCR only, No Cytology reflex. HR HPV 16,18/45 individually tested and 11 other high risk types split into 3 groups (31,33,35,39,51,52,56,58,59,66 and 68)	HPV	THINPREP	1 working day
Gonorrhoea Thinprep	GON	THINPREP	1 working day
Hot FNA	HFNA	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	FNA taken by pathologist with ROSE Same day/On site
HPV 20 (subtyping) PCR only, No Cytology reflex. HPV types individually tested: High risk 6,18,31,33,35,39,45,51,52,56,58,59,66,68. Low risk 6,11,42,43,44	HPV28	THINPREP (cervical/ vaginal vault samples) Dry swab (anal, penile/ urethral and throat)	5 working days
HPV HR mRNA E6/E7 PCR only, No Cytology reflex. HPV mRNA: 5 subtypes individually tested 16,18,31,33,45	HPVMRNA	THINPREP	3 working days
Imprint Cytology	IMPRINT	Air dried slides	2 working days excluding further testing
Primary screen HPV 20 (pHPV subtyping) Cytology reflex if HR-HPV (+) at no extra charge with pathologist report. PV types individually tested: High risk 6,18,31,33,35,39,45,51,52,56,58,59,66,68. Low risk 6,11,42,43,44	PHPV28	THINPREP	4-6 working days
Primary screen HPV DNA (pHPV DNA) Cytology reflex HPV positive at no extra charge with pathologist report. HPV 16,18/45 and 11 other high risk types (31,33,35,39,51,52,56,58,59,66 and 68).	PHPV	THINPREP	1-3 working days
Primary screen HR-HPV mRNA (pHPV mRNA) Cytology reflex if HPV positive at no extra charge with Cytology screened plus pathologist report. All High Risk HPV types in a pooled result.	PRNA	THINPREP	4-5 working days
Rapid/On site EBUS FNA	EBUSROSE	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	2 working days excluding further testing

Cytopathology

Test Name	Sample Type	Code	TAT
Rapid/On site EUS FNA	EUSROSE	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	2 working days excluding further testing
Rapid/On site FNA Cytology	RFNA	Air dried slides and/or washings in saline/fluid in a sterile container.	2 working days excluding further testing
Rapid/On site Imprint Cytology	RAPIDIMPRINT	Air dried slides	Same day/ On site
Rapid/On site Touch Imprint Cytology - Sentinel Lymph node (alongside a Frozen or on its own)	TIC	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	Same day/On site
Referral Slides - Gynae Cytology	REFSLIDESCYTO	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	2 working days excluding further testing
Referral Slides - Non-Gynae Cytology	REFSLIDES	Make a booking: Cytology.Bookings@hcahealthcare.co.uk	2 working days excluding further testing
STI screen Full panel Chlamydia trachomatis, Neisseria gonorrhoeae, Mycoplasma genitalium, Trichomonas vaginalis, Gardnerella vaginalis, Ureaplasma parvum, Ureaplasma urealyticum, Herpes Simplex Virus Type 1, Herpes Simplex Virus Type 2, Treponema pallidum	STD/ CYTO STD (3rd part clients using interface)	THINPREP	3 working days
Urine Cytology	U	First catch urine	2 working days excluding further testing

Cellular pathology

Histopathology

Our Histopathology service is based at our main laboratory at Shropshire House. We process and report all sample types within RCPATH guidelines, from biopsies to complex resections. Our Medical Director, Professor Marco Novelli, has specialist teams covering all major specialities such as GI, Gynaecology, Urology, Breast, Head and Neck, Lung and Skin pathology.

The teams are made up of nationally and internationally recognised pathologists who have NHS contracts with central London teaching hospitals – these pathologists are happy to discuss specific cases with consultants and can attend MDTs as required.

Our Histopathology service is also supported by our own in-house molecular diagnostics laboratory at the Sarah Cannon Molecular Diagnostics. More information can be found in the Molecular Diagnostics & Oncology Genetics section.

We offer:

- Macroscopic examination and dissection
- Tissue processing and embedding
- Microtomy
- Staining (H&E and special stains)
- Frozen Section Service
- IMF, IHC, FISH & molecular techniques*
- Specialist pathologist reporting
- Referral work and second opinions
- MDT attendance

*Service provided by external laboratories

Frozen Section Service:

Our frozen section service is at:

Shropshire House

10A Capper Street, London WC1E 6JA

Private Care at Guy's

Great Maze Pond, London SE1 9RT

Monday to Fridays 8.00am to 8.00pm
(48 hours' notice required)

Saturdays and Sundays 8.00am to 5.00pm
(booked by Thursday before)

Bank Holiday Sundays and Mondays
9.00am to 4.00pm
(at least 2 weeks' notice)

You can also work with our team at Backlogs: an online pathology reporting service that helps NHS facilities clear reporting backlogs quickly. The team can deal with everything from urgent cases to large volumes.

To find out more, email

support@backlogs.co.uk

or call 01480 498 250.

Sample labelling:

Please take a look at **page 14** to see how to label samples.

Sample requirements:

- Histopathology samples must be placed in 10% neutral buffered formalin in suitably sized specimen containers
- Skin samples for Immunofluorescence (IMF) must be received in Michel's medium. Samples must be received on the same or following working day, to prevent tissue degradation that could affect IMF interpretation.
- Testis biopsies must be received in Bouins medium
- Product of conception samples must be accompanied by a consent form
- Frozen section samples must be received fresh/unfixed.

A frozen section is mostly commonly used to diagnose the absence or presence of tumour or determine the nature of tissue. If tumour is present a full diagnosis may not always be possible. Inadequate tissue sampling or calcification may also limit frozen section diagnosis.

Turnaround times:

20-45 minutes from receipt depending on the number of pots.

HCA Cellular Pathology monitors turnaround times against RCPATH recommendations (80% within 7 days and 90% within 10 days). Please contact the laboratory for further turnaround time information (including tissue specialism turnaround times) or queries if required.

Useful contacts

For Frozen Section bookings call **020 7034 4550/4548/4560** or email **infohisto@hcahealthcare.co.uk**

For technical queries regarding Histopathology, you can email us on **infohisto@hcahealthcare.co.uk** or call us on **020 7054 4550**.

For Results Line Medical Secretarial/Administration team email us on **cellpathadmin@hcahealthcare.co.uk** or call us on **020 7043 4519**.

Histopathology

	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Bone		Bone Bx	Femoral Head			
Breast	Breast Margins (Not Orientated)		Breast Bx Breast Sentinel Node Bx Nipple Bx	Breast Lump Breast Margins (Suture Orientated) Breast Reduction Unilateral Breast Reduction Bilateral Breast Sentinel Node Breast Tissue Breast vacuum excision Microdochectomy Duct excision	Axilla	Breast Mastectomy Breast Wide Local Excision
Cardiothoracic	Bronchial Resection Margin	Aortic Bx Aortic Valve Mitral Valve	EBUS Histology Bronchial Bx Lung Bx Pleura Pleural Bx Mediastinal Bx Cardiac Bx	Aortic Resection Lung Wedge	Lobectomy Pleural Decortication Mediastinal Resection	Chest Wall Resection Malignant Lung Pneumonectomy



Histopathology

	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Gastrointestinal	Bile Duct Colonic Donuts Donuts Portal Vein	Anal Bx Colonic Bx Duodenal Bx Oesophagus Bx Omental Bx Pouch of Douglas Rectal Bx Small Bowel Bx Gastric Bx Gastro-Oesophageal Bx Gastro-Oesophageal Junction Bx Oesophageal Bx	Anal Fistula EUS Bx Resection Donuts Liver Bx Targeted (Tumour) Omentum Pancreatic Bx Pilonidal Sinus Umbilical Region Anal Polyps Peritoneum Endoscopic Mucosal Resection	Appendix Colon ESD Gallbladder Gastric Sleeve Haemorrhoids Liver Wedge Ileostomy	Colonic Resection Benign Gastrectomy Tumour Liver Bx Medical Small Bowel Resection Benign Stomach Resection Benign	Colonic Resection Malignant Liver – Hepatectomy Oesophagus Pancreas Retroperitoneal Sarcoma Resection Small Bowel Resection Malignant Stomach Resection Malignant
Gynae	Margins	Cervical Bx Endometrial Bx Fallopian Tube Ligations Vaginal Bx Vulval Biopsy Endometriosis	Cervical Polyp Endocervical Polyp Endometrial Polyp Endometrial Curettings Fallopian Tube Fibroid Lletz Ovarian Bx Ovarian Cyst Perineum Products of Conception	Fibroid (Under 10) Ovary Ovary and Fallopian Tube Placenta Uterus Benign	Fibroids (Over 10) Ovary Malignant Para-aortic LN Dissection Prophylactic tubes and Ovaries Para-aortic LN Dissection Uterus with Tubes and Ovaries	Ovary Malignant and Uterus Uterus Malignant Vulval Resection

Histopathology

	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Haemo and Lymph				Bone Marrow Trephine Lymph Node Lymph Node Bx Spleen Benign Splenic Bx	Spleen Lymphoma Groin Dissection	
Head / Neck / Endocrine and Oral	Margins	Laryngeal Bx Oral Bx Parathyroid Gland Tongue Bx Vocal Cord Bx	Adenoid Nasal Polyps Parotid Gland Thyroid Bx Tonsil Cornea, Nos Temporal Artery	Salivary Gland Benign Submandibular Gland Thymus Benign Thyroid Benign Tongue Adrenal Gland Benign	Maxillary Sinus Oral Cavity Resection Malignant Salivary Gland Malignant Thymus Tumour Thyroid Malignant Adrenal Gland Malignant	Larynx Mandible Neck Dissection
Soft Tissue		Cyst	Lipoma			Muscle Bx
Skin	Mohs Skin	Skin – Excision Skin Curettings Skin Shave Skin Tags	Nail Nail Bed Skin – Punch Bx	Skin – Excision with Suture	Sentinel Lymph Node (Melanoma)	

Histopathology

	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Urology/GU	Margins	Bladder Bx Epididymis Labial Bx Pelvi-Ureteric Junction Penile Bx Scrotal Skin Bx Ureteric Bx Urethral Bx Vas Deferens	Foreskin Prostate Bx Renal Bx Targeted (Tumour) Seminal Vesicle Testicular Bx	Bladder TURB Prostatic Chippings Testicle Benign Ureter	Penis Renal Bx Medical Retroperitoneal Lymph Node Dissection Testicle Malignant	Bladder Resection Kidney Resection (Tumour) Radical Prostatectomy and Bladder Radical Prostatectomy



GENOMICS



Genomics

Our Genomics Service can help you examine any disease or condition with an inherited element – from heart disease and diabetes to hereditary cancer and infertility.

We offer a core list of germline tests...

We work with accredited laboratory partners to supply our tests, who are all chosen because of their reliability and expertise. Looking at the comprehensiveness, cost and turnaround times of the tests they offer, we've put together a core list of tests.

The list covers:

- Diagnosis of complex congenital disease
- Carrier screening for recessive conditions
- Family studies and cascade testing
- Fertility screening
- Genetic variations linked to adverse drug effects
- Predictive testing, to identify mutations that could increase the risk of disease

...as well as bespoke panels

We can also recommend non-routine tests for rare diseases, looking at the clinical symptoms and family history of the patient as well as the required scope, cost and urgency of the test. Many panel tests are also customisable – meaning you can specify the genes you want to examine.

With clinical exome, whole exome or whole genome sequencing requests, we'll need a full clinical history. The final reports can be very complex – so we can only accept these requests from consultant-level specialists.

Genomics

Before you order, please be aware:

- **We need to understand clinical details and family history**
This kind of information is extremely important – not just in determining which tests are most appropriate for a patient but also in interpreting the results. As a general rule, the more complex the test, the more information we'd like from you.
- **We need your details to keep things moving**
Wherever we can, we'll email your patient's results. To make sure we can do this, please be sure to complete the relevant sections on the new HCA UK Genomics Request & Consent Form. We'll still send the original hard copy to the referring clinician by post.
- **We can only work with qualified health professionals**
We can't accept samples from self-referred patients, and can only return reports to a registered, qualified health professional.

We can store DNA to make life easier for your patients

We can offer in-house DNA extraction with up to ten years of storage. This can be useful for patients who need multiple or sequential testing, as it means they don't have to keep returning to give samples. It's also useful for segregation studies of family members who may not be available to give samples at a later date – for instance, if they're only in the UK for a limited time.

Use our Genomics Request & Consent Form

UK Best Practice requires all serious predictive genetic tests to have informed patient consent. These include tests for inherited cancers and late-onset conditions such as Huntington's disease. Patients should be offered counselling both before and after testing, so they can understand the health implications not just for themselves, but also for family members. We've marked these serious predictive tests in the following list with 'Requires patient informed consent' to help guide you.

We've created a Genomics Request & Consent Form, which can be acquired by contacting our genetics department. The intention was to create a universal form that can be used to order any germline test, with space for relevant (and very important) clinical details and family history. The consent form also touches on issues we would recommend you discuss with your patient – such as incidental findings (when ordering large gene panel tests), and data protection. Please use these forms to order and obtain consent for all germline genetic testing requests.

Testing for adult-onset conditions in children should only be considered when treatment or surveillance would begin in childhood, and if capable, they should be involved in the decision-making process. Genetic counselling should be provided by appropriately trained healthcare professionals, and there should be free and informed consent before any testing begins.



To find out more and order tests:

Speak to Leigh Batten, our Head of Genomics, who can advise which test may be right for your patient, and can refer cases to a consultant geneticist for clinical advice. Please call **020 7034 4526** or email genomics@hcahealthcare.co.uk.

Genomics

Test Name	Code	Sample Type	TAT
3-M Syndrome/Primordial Dwarfism Panel – full sequencing across 24 genes	DNA3M	E	5 weeks
5' Fluorouracil Toxicity (DPD deficiency) – common DPYD gene mutations including IVS14+1G>A	DNA5FUTOXIC	E	1 week
Achondroplasia/Hypochondroplasia/Thanatophoric Dysplasia – full sequencing FGFR3 gene	DNAACHONDRO	E	4 weeks
Achromatopsia Panel – full sequencing across 8 genes	DNAACHROMATOPS	E	5 weeks
Aicardi-Goutières Syndrome Panel – full sequencing across 7 genes	DNAAICARDI	E	5 weeks
Albinism (Oculocutaneous)/Hypopigmentation Panel – full sequencing across 31 genes	DNAPIGMENT	E E	4 weeks
Alpha Thalassaemia – common alpha+ and alpha0 deletions only	DNAALPHADELS	E	3 weeks
Alpha-1-Antitrypsin Genotype – PI*M, PI*S, PI*Z	DNAA1ANTITRYP	E	4 weeks
Alport Syndrome Panel – full sequencing across 6 genes	DNAALPORT	E	5 weeks
Alstrom Syndrome – full sequencing ALMS1 gene	DNAALSTROM	E	4 weeks
Amelogenesis + Dentinogenesis Imperfecta Panel – full sequencing across 34 genes	DNAAMELOGEN	E E	4 weeks
Amyotrophic Lateral Sclerosis (Motor Neurone Disease) + Frontotemporal Dementia Panel – full sequencing across 38 genes + C9orf72 + ATNX2 repeat expansions	DNAALS	E E Requires patient informed consent	4 weeks
Anaemia Panel – full sequencing across 75 genes including HBA1+HBA2+HBB	DNAANAEMIA	E E	4 weeks
Androgen Insensitivity – full sequencing AR gene + deletions/duplications	DNAANDINS	E	4 weeks
Angelman Syndrome (Primary Screen) – chromosome 15q11 methylation analysis	DNAPWAS	E	4-6 weeks

E = EDTA blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Angelman/Rett Syndromes Panel – full sequencing across 25 genes	DNARETTPANEL	 	4 weeks
Aniridia (Isolated) – full sequencing PAX6 gene + deletions/duplications	DNAANIRIDIA		4 weeks
Aortopathy/Marfan/Loeys-Dietz Syndromes Panel – full sequencing across 39 genes	DNAMARFAN	 	4 weeks
Apert/Crouzon/Jackson-Weiss/Pfeiffer/Saethre-Chotzen – full sequencing FGFR2 gene + deletions/duplications	DNAAPERT		4 weeks
Apolipoprotein E (ApoE) genotype – E2, E3, E4	DNAAPOE		3-4 weeks
Array CGH (Comparative Genomic Hybridisation)	DNAARRAYCGH	 	2-3 weeks
Arrhythmia (Comprehensive) Panel – sequencing across 77 genes	DNAARRHYTHMIA	  Requires patient informed consent	4 weeks
Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC) Panel – sequencing across 46 genes	DNAARVCARD	  Requires patient informed consent	4 weeks
Arthrogryposis/Congenital Myasthenic Syndrome Panel – full sequencing across 122 genes	DNAMYASTHENIC	 	4 weeks
Ataxia Panel – full sequencing across 534 genes + mitochondrial genome	DNAATAXIA	 	6-8 weeks
Autistic Spectrum Disorder/Intellectual Disability/Epilepsy – full sequencing up to 2527 genes	DNAINTELLECT	 	4-5 weeks
Autoinflammatory/Periodic Fever Syndromes Panel – full sequencing across 57 genes	DNAFEVER	 	4 weeks
Axenfeld-Rieger Syndrome/Microphthalmia/Anophthalmia Panel – full sequencing across 61 genes	DNAAXENFELD	 	5 weeks
Bardet-Biedl Syndrome Panel – full sequencing across 27 genes	DNABARDET	 	5 weeks

 = EDTA blood  = lithium heparin blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Bartter/Gitelman Syndrome Panel – full sequencing across 10 genes	DNABARTTER	E	5 weeks
Beckwith-Wiedemann Syndrome – chromosome 11p15 methylation studies across ICR1 + ICR2	DNABWS	E	4-6 weeks
Behcet’s Disease – HLA-B*51 genotype only	DNAHLAB51	E	2-3 weeks
Beta Thalassaemia – full sequencing HBB (beta-globin) gene	DNABETATHAL	E	4 weeks
Bethlem/Ullrich Myopathy Panel – full sequencing across 6 genes	DNABETHLEM	E	5 weeks
Bone Marrow Failure Panel – full sequencing across 196 genes	DNABONEMARROW	E E	4 weeks
Brain/Nervous System Cancer Panel – full sequencing up to 32 genes + deletions /duplications	DNABRAINCA	E Requires patient informed consent	3-4 weeks
Branchiootorenal (BOR) Spectrum Disorders Panel – full sequencing EYA1+SIX1+SIX5+TFAP2A genes	DNABOR	E	5 weeks
Breast Cancer Panel – full sequencing up to 37 genes + deletions/duplications	DNABREASTCA	E Requires patient informed consent	3-4 weeks
Breast/Ovarian Cancer STAT Panel – full sequencing across 9 genes + deletions / duplications. Urgent service	DNABRCA	E Requires patient informed consent	2 weeks
Brugada/Long QT Syndrome Panel – full sequencing across 34 genes	DNABRUGADA	E E Requires patient informed consent	4 weeks
CADASIL/CARASIL Panel – full sequencing NOTCH3+HTRA1 genes	DNACADASIL	E	4 weeks
Cancer, Comprehensive Panel (diagnostic) – full sequencing up to 154 genes	DNACANCERCOMP	E E Requires patient informed consent	4 weeks
Cardiomyopathy, Comprehensive Panel (diagnostic) – full sequencing across 129 genes	DNACARDCOMP	E E Requires patient informed consent	4 weeks
Cardiovascular, Comprehensive Panel – full sequencing across 264 genes	DNACARDVASC	E E Requires patient informed consent	4 weeks

E = EDTA blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Carrier Screen, Ashkenazi Jewish – screening up to 61 genes associated with conditions within the Ashkenazi Jewish population	DNACARRIERASH	E	3-4 weeks
Carrier Screen, Common Diseases – screening of CFTR + FMR1 + HBA1 + HBA2 + HBB + SMN1 genes	DNACARRIERCOM	E	3-4 weeks
Carrier Screen, Expanded Pan-ethnic – screening up to 787 genes associated with recessive and X-linked disorders in people from all ethnic backgrounds	DNACARRIEREXP	E	3-4 weeks
Cataract, Comprehensive Panel – full sequencing across 113 genes	DNACATARACT	E E	5 weeks
Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT) Panel – full sequencing across 9 genes	DNATACHYCARD	E E Requires patient informed consent	4 weeks
Cerebral Cavernous Malformations Panel – full sequencing KRIT + CCM2 + PDCD10 genes	DNACCM	E	4 weeks
Charcot-Marie-Tooth Disease/Hereditary Motor and Sensory Neuropathy (HMSN) Panel – full sequencing across 153 genes	DNANEUROPATHY	E E	5 weeks
Charcot-Marie-Tooth Type 1A – full sequencing PMP22 + deletions/duplications	DNAPMP22	E	4 weeks
CHARGE Syndrome – full sequencing CHD7 gene + deletions/duplications	DNACHARGE	E	4 weeks
Chediak-Higashi Syndrome – full sequencing LYSTgene + deletions/duplications	DNACHEDIAK	E	4 weeks
Cholestasis Panel – full sequencing across 70 genes	DNACHOLESTASIS	E E	4 weeks
Chondrodysplasia Punctata Panel – full sequencing across 10 genes + deletions / duplications	DNACHONDPUNCT	E	5 weeks
Chromosome Analysis (Postnatal) – blood karyotype	CHROMBLOOD	H	3-4 weeks
Chromosome Analysis (Prenatal) – amniotic fluid or chorionic villus culture only	CHROMFETAL	CVS AF	2-3 weeks

E = EDTA blood
 H = lithium heparin blood
 Adults: use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Chromosome Analysis (Prenatal) – amniotic fluid or chorionic villus rapid PCR diagnosis for common aneuploidies (2 days) + culture (15 days)	CHROMFETALPCR	CVS AF	2-15 days
Chromosome Analysis (Products of Conception) – culture only	CHROMPOC	Placental Tissue	4-5 weeks
Chromosome Breakage Studies (Postnatal) – induced chromosome breakage within DEB culture	CHROMBREAK		3-4 weeks
Ciliopathies Panel – full sequencing across 133 genes	DNACILIOPATHIES	 	4 weeks
Clinical Exome – NGS sequencing across 6700+ genes + deletions/duplications	DNACLINEXOME	  Requires patient informed consent	6-8 weeks
Coagulation/Bleeding Disorders/Haemophilia Panel – full sequencing across 82 genes	DNACOAGULATION	 	4 weeks
Cockayne/Progeria Syndromes Panel – full sequencing across 17 genes	DNACOCKAYNE		5 weeks
Coeliac Disease – HLA DQ2/DQ8 genotyping	DNACOELIAC		2-3 weeks
Coffin-Siris Syndrome Panel – full sequencing across 12 genes	DNACOFFINSIRIS		4 weeks
Colorectal Cancer Panel – full sequencing up to 29 genes + deletions /duplications	DNACOLONCA		3-4 weeks
Comparative Genomic Hybridisation (Array CGH)	DNAARRAYCGH	 	2-3 weeks
Cone-Rod Retinal Dystrophy Panel – full sequencing across 44 genes	DNACONEROD	 	5 weeks
Congenital Adrenal Hyperplasia (21-Hydroxylase Deficiency) Panel – integrative Sanger sequencing testing strategy to detect ~98% of mutations across 7 genes	DNACAH		4 weeks
Congenital Central Hypoventilation Syndrome (CCHS) Panel – full sequencing across 7 genes including PHOX2B polyalanine repeat analysis	DNACCHS		4 weeks

 = EDTA blood  = lithium heparin blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Congenital Disorders of Glycosylation Panel – full sequencing across 54 genes	DNACDGPANEL	E E	4 weeks
Congenital Heart Defects Panel – full sequencing across 115 genes	DNAHEART	E E	4 weeks
Congenital Stationary Night Blindness Panel – full sequencing across 17 genes	DNANIGHTBLIND	E	4 weeks
Connective Tissue Disorders Panel – full sequencing across 63 genes	DNACONNECTIVE	E E	4 weeks
Cornelia de Lange + related Syndromes Panel – full sequencing across 42 genes	DNACORNELIA	E E	4 weeks
Craniosynostosis Syndromes (Crouzon, Jackson-Weiss, Pfeiffer, Saethre-Chotzen, etc.) – full sequencing across 62 genes	DNACRANIO	E E	4 weeks
Cystic Fibrosis – 139 common mutations + Poly T status (if requested)	DNACF	E	2 weeks
Cystic Fibrosis – full CFTR gene sequencing + deletions / duplications	DNACFFULL	E	4 weeks
Dementia, Comprehensive Panel (including Alzheimer's and FTD) – full sequencing across 80 genes + C9orf72 repeat expansion	DNADEMENTIA	E E	4 weeks
Dentatorubral-Pallidoluysian Atrophy (DRPLA) – ATN1 repeat analysis	DNADRPLA	E	2-3 weeks
Diabetes (Neonatal)/MODY/Hyperinsulinism Panel – full sequencing across 54 genes	DNADIABETES	E E	4 weeks
Diamond-Blackfan Anaemia Panel – full sequencing across 23 genes	DNADIAMOND	E	4 weeks
Dihydropyrimidine Dehydrogenase deficiency (5-FU Toxicity) – common DPYD gene mutations including IVS14+1G>A	DNA5FUTOXIC	E	1 week

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Infants: (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Dilated Cardiomyopathy Panel – full sequencing across 78 genes	DNADILATEDCARD	E E Requires patient informed consent	4 weeks
Doyme Honeycomb Retinal Dystrophy – common EFEMP1 p.Arg345Trp mutation	DNADOYNE	E	4 weeks
Duchenne/Becker Muscular Dystrophy – full sequencing DMD gene + deletions /duplications	DNADMD	E	4 weeks
Dyserythropoietic/Haemolytic Anaemia (Congenital) Panel – full sequencing across 34 genes	DNADYSERYTHRO	E E	4 weeks
Dystonia, Comprehensive Panel – full sequencing across 300 genes + mitochondrial DNA	DNADYSTONIA	E E	6-8 weeks
Ehlers-Danlos Syndrome Panel – full sequencing across 22 genes + deletions /duplications	DNAEHLERS	E	4 weeks
Ellis-van Creveld Syndrome Panel – full sequencing EVC1 + EVC2 genes + deletions /duplications	DNAEVC	E	4 weeks
Endometrial Cancer Panel – full sequencing up to 15 genes + deletions /duplications	DNAENDOCA	E Requires patient informed consent	3-4 weeks
Epidermolysis Bullosa + Related Disorders Panel – full sequencing across 41 genes	DNAEBCOMP	E E	4 weeks
Epilepsy, Comprehensive Panel – full sequencing across 1057 genes	DNAEPICOMP	E E	4 weeks
Erythrocytosis (Congenital) Panel – full sequencing across 24 genes + deletions /duplications	DNAERYTHROCYTO	E	4 weeks
Eye Disorders (Comprehensive) Panel – full sequencing across 510 genes	DNAEYEDEVELOP	E E	4 weeks
Fabry Disease, X-linked – full sequencing GLA gene + deletions /duplications	DNAFABRY	E	4 weeks
Facial Dysostosis/Rubenstein-Taybi/Treacher-Collins Syndromes – full sequencing across 27 genes	DNARUBENSTEIN	E E	5 weeks

E = EDTA blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Facioscapulohumeral Muscular Dystrophy (FSHMD) – D4Z4 repeat deletion contraction + FSHD2 methylation + SMCHD1 sequencing (if required)	DNAFSHMD	E E	8-16 weeks
Familial Adenomatous Polyposis (FAP) – see Colorectal Cancer Panel			
Familial Hypercholesterolaemia – full sequencing across 8 genes	DNAFHC	E	4 weeks
Familial Hypocalciuric Hypercalcaemia (FHH)/ Hypoparathyroidism Panel – full sequencing across 15 genes	DNAFHHPANEL	E	5 weeks
Familial Mediterranean Fever – full sequencing MEFVgene + deletions /duplications	DNAMEDFEVER	E	4 weeks
Familial Medullary Thyroid Carcinoma (MEN2A) – full RET gene sequencing + deletions /duplications	DNAFMTC	E Requires patient informed consent	4 weeks
Fanconi Anaemia Panel – full sequencing across 22 genes + deletions /duplications	DNAFANCONI	E Requires patient informed consent	3-4 weeks
FattyAcid Oxidation Disorders Panel – full sequencing across 33 genes	DNAFATTYACID	E E	4 weeks
FGFR2-related Syndromes (Apert/Crouzon/Jackson-Weiss/ Pfeiffer/ Saethre- Chotzen) – full sequencing FGFR2 gene	DNAFGFR2	E	4 weeks
Focal Segmental Glomerulosclerosis (FSGS)/Nephrotic Syndrome Panel – full sequencing across 72 genes	DNANEPHFSGS	E E	4 weeks
Foundation ONE (CDx or Liquid) - Foundation Medicine	Contact the Somatic Oncology Team	Comprehensive NGS-based (DNA sequencing only) solid tumour profiling (using tissue or liquid biopsy) for a broad range of actionable genetic changes.	15 days
Fragile X Syndrome screen – FMR1 gene repeat analysis by PCR	DNAFRAGILEX	E	2-3 weeks
Friedreich Ataxia – Frataxin (FXN) gene repeat analysis	DNAFRIEDREICH	E	2-3 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Galactosaemia Panel – full sequencing GALE+GALK1+GALM+GALT genes	DNAGALACTO	E	4 weeks
Gastric Cancer Panel – full sequencing up to 22 genes + deletions /duplications	DNAGASTCA	E Requires patient informed consent	3-4 weeks
Gaucher Syndrome – full sequencing GBA gene + deletions / duplications	DNAGAUCHER	E	4 weeks
Genetic Risk Profile Cancer Only – screening across 64 genes commonly associated with increased risk of hereditary cancers. Does not report variants of unknown significance (VUS)	CANCERSCREEN	E Requires patient informed consent	4 weeks
Genetic Risk Profile Cardiac Only – screening across 77 genes commonly associated with increased risk of cardiovascular disease. Does not report variants of unknown significance (VUS)	CARDIOSCREEN	E Requires patient informed consent	4 weeks
Genetic Risk Profile Combined - screening across 163 genes commonly associated with increased risk of hereditary cancers + cardiovascular disease + others. Does not report variants of unknown significance (VUS)	COMBINEDSCREEN	E Requires patient informed consent	4 weeks
Genitopatellar/Ohdo Syndrome – full sequencing KAT6B gene + deletions /duplications	DNAOHDO	E	4 weeks
Gilbert Syndrome – common UGT1A1 repeat analysis	DNAGILBERT	E	3-4 weeks
Glaucoma Panel – full gene sequencing across 24 genes	DNAGLAUCOMA	E	4 weeks
GLI3-Related Disorders – full sequencing GLI3 gene + deletions /duplications	DNAGLI3	E	4 weeks
Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – full G6PD gene sequencing + deletions/duplications	DNAG6PD	E	4 weeks
GLUT-1 Deficiency Syndrome – full sequencing SLC2A1 gene + deletions /duplications	DNAGLUT1DEF	E	4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
GUARDANT 360	Contact the Somatic Oncology Team	Highly sensitive NGS-based (ctDNA sequencing only) solid tumour profiling (liquid biopsy only) for a broad range of actionable genetic changes. Please be aware that additional test/service provider specific information/documentation will also be required by the before specimens can be sent for processing.	8-10 days
Haematologic Malignancy (Congenital) Panel – full sequencing up to 46 genes + deletions /duplications	DNAHAEMCA	E Requires patient informed consent	3-4 weeks
Haemochromatosis – HFE common mutations C282Y + H63D	DNAHAEMOCHROM	E	3-4 weeks
Haemoglobinopathies Panel – full sequencing HBA1 + HBA2 + HBB genes + deletions /duplications	DNAHAEMOGLOBIN	E	4 weeks
Haemolytic-Uremic Syndrome (HUS) Panel – full sequencing across 13 genes	DNAHUS	E	6-8 weeks
Haemophagocytic Lymphohistiocytosis Panel – full sequencing across 29 genes	DNAHLH	E E	4 weeks
Hearing Loss/Deafness Panel – full sequencing across 288 genes + mitochondrial genome. Includes mt.1555A>G mutation linked to aminoglycoside-induced deafness	DNADEAFPANEL	E E	5 weeks
Hemiplegic Migraine/Cerbral Haemorrhage Panel – full sequencing across 160 genes	DNAMIGRAINE	E E	4 weeks
Hereditary Haemorrhagic Telangiectasia Panel – full sequencing across 6 genes + deletions /duplications	DNAHHT	E	4 weeks
Hereditary Neuropathy with Liability to Pressure Palsy – PMP22 gene sequencing + deletions/duplications	DNAPMP22	E	4 weeks
Hereditary Non-Polyposis Colon Cancer (Lynch Syndrome) Panel – see Colorectal Cancer Panel			
Hereditary Pancreatitis – full sequencing across 9 genes	DNAHPANC	E	5 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Heterotaxy/Situs Inversus Panel – full sequencing across 48 genes	DNAHETEROTAXY	E E	4 weeks
Hirschsprung Disease Panel – full sequencing across 15 genes	DNAHIRSCH	E	5 weeks
HLA Tissue Typing A – high resolution genotype	DNAHLAA	E	3-4 weeks
HLA Tissue Typing A*29 (Birdshot Chorioretinopathy) genotype only	DNAHLAA29	E	3-4 weeks
HLA Tissue Typing A/B/DRB1/3/4/5 – high resolution genotype	DNAHLAABDR	E	3-4 weeks
HLA Tissue Typing A+B – high resolution genotype	DNAHLAAB	E	3-4 weeks
HLA Tissue Typing A+B+C (Class I) – high resolution genotype	DNAHLAABC	E	3-4 weeks
HLA Tissue Typing A+B+C+DRB1/3/4/5+DQB1 (Class I & II) – high resolution genotype	DNAHLAABCDRDQ	E E	3-4 weeks
HLA Tissue Typing B – high resolution genotype	DNAHLAB	E	3-4 weeks
HLA Tissue Typing B*27 only	DNAHLAB27	E	3-4 weeks
HLA Tissue Typing B*51 (Behcet’s Disease) genotype only	DNAHLAB51	E	3-4 weeks
HLA Tissue Typing B*57:01 – high resolution genotype only	DNAHLAB57	E	3-4 weeks
HLA Tissue Typing C – high resolution genotype	DNAHLAC	E	3-4 weeks
HLA Tissue Typing Coeliac Disease – DQ2/DQ8 genotype only	DNACOELIAC	E	3-4 weeks
HLA Tissue Typing DRB1/3/4/5 – high resolution genotype	DNAHLADR	E	3-4 weeks
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II) – high resolution genotype	DNAHLADRDQ	E	3-4 weeks
HLA Tissue Typing Narcolepsy – DQB1*06:02 genotype only	DNANARCOLEPSY	E	3-4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Holoprosencephaly Panel – full sequencing across 14 genes	DNAHOLOPROSEN	E	4 weeks
Holt-Oram Syndrome – full sequencing TBX5 gene	DNAHOLTORAM	E	4 weeks
Huntington Disease – HD gene repeat analysis	DNAHUNTINGTON	E Requires patient informed consent	2-3 weeks
Hyperoxaluria Panel – full sequencing AGXT+GRHPR+HOGA genes	DNAOXALURIA	E	5 weeks
Hyperphenylalaninemia Panel – full sequencing across 6 genes	DNAPHENYLALAN	E	5 weeks
Hypertrophic Cardiomyopathy Panel – full sequencing across 86 genes	DNAHYPERCARD	E E Requires patient informed consent	4 weeks
Hypophosphatemic Rickets Panel – full sequencing across 13 genes	DNARICKETS	E	5 weeks
Intellectual Disability/Autism/Epilepsy Panel – full sequencing up to 2527 genes	DNAINTELLECT	E E Requires patient informed consent	4-5 weeks
Iron Regulation Disorders Panel – full sequencing across 25 genes	DNAIRONREG	E	4 weeks
Joubert/Meckel/Orofaciodigital Syndromes Panel – full sequencing across 42 genes	DNAJOUBERT	E E	4 weeks
Kabuki Syndrome Panel – full sequencing across 9 genes	DNAKABUKI	E	4 weeks
Kallmann/Hypogonadotrophic Hypogonadism Syndrome Panel – full sequencing across 52 genes	DNAKALLMANN	E E	4 weeks
Karyotype – see Chromosome Analysis			
Kenny-Caffey (Sanjad-Sakati) Syndrome – full sequencing TBCE gene + deletions /duplications	DNASANJADSAK	E	4 weeks
Known Mutation (Dominant) – screening for one (dominant) known family mutation	DNAKNOWN1	E	4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Known Mutation (Recessive) – screening for two (recessive) known family mutations	DNAKNOWN2	E	4 weeks
Lactose Intolerance – common LCT c.-13910C>T mutation	DNALACTOSE	E	4 weeks
Leber’s Congenital Amaurosis Panel – full sequencing across 28 genes	DNALCA	E E	5 weeks
Leber’s Hereditary Optic Neuropathy (LHON) – common m.3460G>A + m.11778G>A + m.14484T>C mutations	DNALHON	E	4 weeks
Left Ventricular Non-Compaction (LVNC) Cardiomyopathy Panel – full sequencing across 24 genes	DNALVNCCARD	E Requires patient informed consent	4 weeks
Leigh Syndrome Panel – full sequencing across 75 genes + mitochondrial DNA	DNALEIGH	E E	4 weeks
Leukodystrophy/Leukoencephalopathy Panel – full sequencing across 212 genes	DNALEUKO	E E	4 weeks
Li-Fraumeni Syndrome (p53-related cancer predisposition) – TP53 sequencing	DNALIFRAUMENI	E Requires patient informed consent	3-4 weeks
Limb-Girdle Muscular Dystrophy (LGMD) Panel – full sequencing across 56 genes	DNALIMBGIRDLE	E E	5 weeks
Long-QT/Brugada Syndrome Panel – full sequencing across 34 genes	DNALONGQT	E Requires patient informed consent	4 weeks
Lowe (Oculocerebrorenal) Syndrome – OCRL sequencing + deletions /duplications	DNALOWE	E	4 weeks
Lung Disorders Panel – full sequencing across 114 genes including mitochondrial genome	DNALUNG	E E	5 weeks
Lymphoedema Panel – full sequencing across 12 genes	DNALYPHEDEMA	E	4 weeks
Lynch Syndrome (HNPCC) – see Colorectal Cancer Panel			
Lysosomal Storage Disorders Panel – full sequencing across 146 genes	DNALYSOSOMAL	E E	4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Macular Dystrophy/Stargardt Disease Panel – full sequencing across 28 genes	DNASTARGARDT	 	4 weeks
Maple Syrup Urine Disease (MSUD) Panel – full sequencing BCKDHA+BCKDHB+DBT+DLD genes	DNAMAPLESYRUP		4 weeks
Marfan/Aortopathy/Loeys-Dietz Syndromes Panel – full sequencing across 39 genes	DNAMARFAN	 	4 weeks
Maturity-Onset Diabetes of the Young (MODY) Panel – full sequencing across 18 genes	DNADIABETES		4 weeks
McCune Albright Syndrome/Fibrous Dysplasia – full sequencing GNAS gene	DNAMCCUNE	 or FD Tissue	4 weeks
Medium-Chain Acyl-CoA Dehydrogenase Deficiency – full sequencing ACADM gene	DNAMEDCHAIN		4 weeks
Melanoma Panel – full sequencing up to 14 genes + deletions /duplications	DNAMELAN	 Requires patient informed consent	3-4 weeks
Metabolic Myopathy/Rhabdomyolysis/Exercise Intolerance Panel – full sequencing across 158 genes	DNARHABDO	 	4 weeks
Microcephaly/Pontocerebellar Hypoplasia Panel – full sequencing across 75 genes	DNAMICROCEPH	 	4 weeks
Mitochondrial Genome – full mitochondrial DNA sequencing + deletion analysis	DNAMITO		4 weeks
Mitochondrial/Inherited Metabolic Disorders Panel (nuclear genes only) – full sequencing up to 1317 genes	DNAMETABOLIC	  Requires patient informed consent	4-5 weeks
Motor Neurone Disease (Amyotrophic Lateral Sclerosis) + Frontotemporal Dementia (FTD) Panel – full sequencing across 38 genes + ATXN2 + C9orf72 repeat expansions	DNAALS	  Requires patient informed consent	4 weeks
Movement Disorders (Comprehensive) Panel – full sequencing up to 938 genes	DNAMOVEMENT	  Requires patient informed consent	4 weeks
MTHFR – common C677T + A1298C mutations	DNAMTHFR		2 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Multiple Endocrine Neoplasia Panel – full sequencing across 6 genes + deletions /duplications	DNAMEN	E Requires patient informed consent	3-4 weeks
Multiple Epiphyseal Dysplasia/Pseudoachondroplasia Panel – full sequencing across 10 genes	DNAMEDPANEL	E	4 weeks
Muscular Dystrophy/Myopathy Panel – full sequencing across 909 genes + mitochondrial genome	DNAMYOPATHY	E Requires patient informed consent	6-8 weeks
Myasthenic Syndromes (Congenital)/Arthrogryposis Panel – full sequencing across 122 genes	DNAMYASTHENIC	E E	4 weeks
MyChoiceHRD - Myriad	Contact the Somatic Oncology Team	NGS-based solid tumour profiling for actionable (PARP inhibitor) mutations in genes associated with Homologous repair deficiency (Includes GIS). Please be aware that additional test/service provider specific information/documentation will also be required by the before specimens can be sent for processing.	8-10 days
Myotonic Dystrophy Type 1 – DMPK gene repeat expansion	DNAMYOTONIC1	E	4-6 weeks
Myotonic Dystrophy Type 2(PROMM) – ZNF9 gene repeat expansion	DNAMYOTONIC2	E	4-6 weeks
Nail-Patella Syndrome – full sequencing LMX1B gene + deletions /duplications	DNANAILPATELLA	E	4 weeks
Narcolepsy – HLA DQB1*06:02 genotype only	DNANARCOLEPSY	E	3-4 weeks
Nephronophthisis/Senior-Loken Syndrome Panel – full sequencing across 20 genes	DNANEPHRONOPH	E	5 weeks
Nephrotic Syndrome/Focal Segmental Glomerulosclerosis (FSGS) Panel – full sequencing across 72 genes	DNANEPHFSGS	E E	4 weeks
Nervous System/Brain Cancer Panel – full sequencing up to 32 genes + deletions /duplications	DNABRAINCA	E Requires patient informed consent	3-4 weeks

E

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Genomics

Test Name	Code	Sample Type	TAT
Neurodegeneration with Brain Iron Accumulations (NBIA) Panel – full sequencing across 16 genes	DNANBIA	E	4 weeks
Neurofibromatosis Type 1 – RNA-based NF1 + SPRED1 genes sequencing. Must arrive within 36 hours of collection, before midday on Fridays	DNANF1	E Requires patient informed consent	8-16 weeks
Neurofibromatosis Type 2 (Bilateral Acoustic) – full sequencing NF2 gene + deletions /duplications	DNANF2	E Requires patient informed consent	3-4 weeks
Neuronal Ceroid Lipofuscinosis (Batten Disease) Panel – full sequencing across 13 genes	DNABATTEN	E	4 weeks
Neuronal Migration Disorders/Brain Malformations Panel – full sequencing across 336 genes	DNANEUROMIGR	E E	4 weeks
Neutropenia Panel – full sequencing across 42 genes	DNANEUTROPENIA	E E	4 weeks
NIPT (Non-invasive Prenatal Testing) Panorama – T13+T18+T21 + sex aneuploidy screening from maternal blood MUST arrive within 36 hours of collection, before midday on Fridays	NIPTPANO	Blood Kit Requires patient informed consent	5-7 days
NIPT (Non-invasive Prenatal Testing) Panorama PLUS – T13+T18+T21 + sex aneuploidy + microdeletion syndromes screening from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTPANO+	Blood Kit Requires patient informed consent	7-10 days
NIPT (Non-invasive Prenatal Testing) PrenatalSafe Complete – aneuploidy + large deletion/duplication screening across all chromosomes + microdeletion syndromes + common genetic diseases from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTSAFECP	Blood Kit Requires patient informed consent	15-20 days
NIPT (Non-invasive Prenatal Testing) PrenatalSafe Karyo – aneuploidy + large deletion/duplication screening for all chromosomes from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTSAFEK	Blood Kit Requires patient informed consent	7-10 days
NIPT (Non-invasive Prenatal Testing) PrenatalSafe Karyo PLUS – aneuploidy + large deletion/duplication screening across all chromosomes + microdeletion syndromes from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTSAFEK+	Blood Kit Requires patient informed consent	10-15 days

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Genomics

Test Name	Code	Sample Type	TAT
NIPT (Non-invasive Prenatal Testing) PrenatalSafe3 – T13+T18+T21 aneuploidy screening from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTSAFE3	Blood Kit Requires patient informed consent	5-7 days
NIPT (Non-invasive Prenatal Testing) PrenatalSafe5 – T13+T18+T21 + sex aneuploidy screening from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTSAFE5	Blood Kit Requires patient informed consent	5-7 days
NIPT (Non-invasive Prenatal Testing) TDL Genetics – T13+T18+T21 + sex aneuploidy screening from maternal blood. MUST arrive within 36 hours of collection, before midday on Fridays	NIPTTDL	Blood Kit Requires patient informed consent	3-5 days
Noonan Syndrome/RASopathies Panel – full sequencing across 31 genes	DNANOONAN	E E	4 weeks
Norrie Disease – full sequencing NDP gene + deletions / duplications	DNANORRIE	E	4 weeks
Oculopharyngeal Muscular Dystrophy – PABPN1 gene repeat analysis	DNAOPMD	E	2-3 weeks
Oncotype DX Breast - Exact Sciences	Contact the Somatic Oncology Team	Assesses gene expression and combines with pathology data to provide a proprietary recurrence risk score in ER/ PR +ve and HER2 -ve breast cancer. Please be aware that additional test/service provider specific information/documentation will also be required by the before specimens can be sent for processing. Please also be aware that additional documentation unambiguously confirming final receptor (ER,PR,HER2), tumour size and nodal status is required before specimens can be sent for processing.	10 days

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Genomics

Test Name	Code	Sample Type	TAT
Ophthalmoplegia/Optic Atrophy/Nystagmus Syndromes Panel – full sequencing across 97 genes + mitochondrial DNA	DNAOPHTHALMO	E E	5 weeks
Osteogenesis Imperfecta Panel – full sequencing across 33 genes	DNAOSTEOIMP	E E	5 weeks
Ovarian Cancer Panel – full sequencing up to 20 genes + deletions /duplications	DNAOVARIANCA	E Requires patient informed consent	3-4 weeks
p53-related cancer predisposition (Li-Fraumeni Syndrome) – TP53 sequencing + deletions /duplications	DNALIFRAUMENI	E Requires patient informed consent	3-4 weeks
Pancreatic Cancer Panel – full sequencing up to 24 genes + deletions /duplications	DNAPANCCA	E Requires patient informed consent	3-4 weeks
Paraganglioma/Pheochromocytoma Panel – full sequencing up to 14 genes + deletions /duplications	DNAPHEOPARA	E Requires patient informed consent	3-4 weeks
Parkinson’s Disease Panel – full sequencing across 70 genes	DNAPARKINSON	E E Requires patient informed consent	4 weeks
Paroxysmal Pain Disorders Panel – full sequencing across 53 genes	DNAPAROXPAIN	E E	4 weeks
Pelizaeus-Merzbacher Disease – full sequencing PLP1 gene + deletions /duplications	DNAPELIZAEUS	E	3-4 weeks
Pendred Syndrome – full sequencing SLC26A4 gene + deletions /duplications	DNAPENDRED	E	4 weeks
Periodic Fever/Autoinflammatory Syndromes Panel – full sequencing across 57 genes	DNAFEVER	E E	4 weeks
Periodic Paralysis Panel – full sequencing across 8 genes	DNAPARALYSIS	E	4 weeks
Peroxisomal Disorders/Refsum/Zellweger Syndrome Panel – full sequencing across 27 genes	DNAZELLWEGER	E E	5 weeks
Peutz-Jegher Syndrome – full sequencing STK11 gene + deletions /duplications	DNAPEUTZJEGHER	E	3-4 weeks

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Infants: (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Pharmacogenetic Comprehensive Panel - includes 49 genes associated with drug metabolism including all (high-level) Focus genes + additional alleles with low or limited variant-drug evidence	DNAPGXCOMP	E	2-3 weeks
Pharmacogenetic Focus Panel - includes 24 genes associated with drug metabolism with high-level evidence and clinically actionable guidelines	DNAPGXFOCUS	E	2-3 weeks
Pheochromocytoma/Paraganglioma Panel – full sequencing up to 14 genes + deletions/duplications	DNAPHEOPARA	E Requires patient informed consent	3-4 weeks
POLG-Related Disorders – full sequencing POLG gene + deletions /duplications	DNAPOLG	E	4 weeks
Polycystic Kidney/Liver Disease Panel – full sequencing across 48 genes	DNAPOLYCYSTIC	E E	4 weeks
Porphyrria Panel – full sequencing across 9 genes	DNAPORPHYRIA	E	4 weeks
Prader-Willi Syndrome – chromosome 15q11 methylation analysis	DNAPWAS	E	4-6 weeks
Primary Ciliary Dyskinesia (PCD) Panel – full sequencing of 51 genes	DNAPCD	E E	4 weeks
Prostate Cancer Panel – full sequencing up to 20 genes + deletions /duplications	DNAPROSTCA	E Requires patient informed consent	3-4 weeks
Pseudohypoaldosteronism Panel – full sequencing across 10 genes	DNAPHALDOSTER	E	5 weeks
PTEN-related disorders (including Bannayan-Riley-Ruvalcaba, Cowden and Proteus Syndromes) – full sequencing PTEN gene + deletions/duplications	DNAPTEN	E Requires patient informed consent	4 weeks
Renal Cysts And Diabetes (RCAD) – full sequencing HNF1B gene + deletions /duplications	DNARCAD	E	4 weeks
Renal/Urinary Tract Cancer Panel – full sequencing up to 30 genes + deletions /duplications	DNARENALCA	E Requires patient informed consent	3-4 weeks

E = EDTA blood **Adults:** use 3ml tubes, **Infants:** (<24 months) use 1ml tubes

Genomics

Test Name	Code	Sample Type	TAT
Retinal Dystrophy Comprehensive Panel – full sequencing across 351 genes + mitochondrial genome	DNARETINALDYST	 	5 weeks
Retinitis Pigmentosa Comprehensive Panel – full sequencing across 159 genes + mitochondrial genome	DNARETINITIS	 	5 weeks
Retinoblastoma – full sequencing RB1 gene + deletions / duplications	DNARB1	 Requires patient informed consent	3-4 weeks
Rett/Angelman Syndromes Panel – full sequencing across 30 genes	DNARETTPANEL	 	4 weeks
Sanjad-Sakati (Kenny-Caffey) Syndrome – full sequencing TBCE gene + deletions /duplications	DNASANJADSAK		4 weeks
Sarcoma Panel – full sequencing up to 30 genes + deletions/ duplications	DNASARCCA	 Requires patient informed consent	3-4 weeks
Septo-Optic Dysplasia Panel – full sequencing across 8 genes	DNASEPTOOPTIC		4 weeks
Short Stature Panel – full sequencing across 153 genes, including SHOX gene	DNASHOX	 	4 weeks
Short-Chain Acyl-CoADehydrogenaseDeficiency – full sequencing ACADS gene + deletions /duplications	DNASHORTCHAIN		4 weeks
Short-QT Syndrome Panel – full sequencing across 6 genes	DNASHORTQT		4 weeks
Short-Rib Thoracic Dysplasia/Jeune/Sensenbrenner Syndrome Panel – full sequencing across 19 genes	DNASHORTTRIB		4 weeks
Sideroblastic Anaemia Panel – full sequencing across 10 genes	DNASIDEROBLAST		4 weeks
Silver-Russell Syndrome – chromosome 11p15 methylation studies across ICR1 imprinting domain	DNABWS		4-6 weeks
Skeletal Dysplasia + Joint Disorders Panel – full sequencing up to 694 genes	DNASKELETAL	  Requires patient informed consent	4 weeks
Smith-Lemli-Opitz Syndrome – full sequencing DHCR7 gene + deletions /duplications	DNASLO		4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Sotos Syndrome (Cerebral Gigantism) – NSD1 sequencing + deletions /duplications	DNASOTOS	E	4 weeks
Spastic Paraplegia (Hereditary) Panel – full sequencing across 106 genes	DNASPASTICPARA	E E	4 weeks
Spinal Bulbar Muscular Atrophy (Kennedy Disease) – AR gene repeat analysis	DNAKENNEDY	E	2-3 weeks
Spinal Muscular Atrophy – common SMN1 gene exons 7+8 deletion	DNASMA	E	2 weeks
Spinocerebellar Ataxia – multiplex SCA1+2+3+6+7+8+10+12+17+36+DRPLA repeat expansions	DNASCA	E	4-6 weeks
Stationary Night Blindness (Congenital) Panel – full sequencing across 20 genes	DNANIGHTBLIND	E	5 weeks
Stickler Syndrome Panel – full sequencing across 12 genes	DNASTICKLER	E	4 weeks
Stuve-Wiedemann Syndrome – full sequencing LIFR gene + deletions /duplications	DNASTUVE	E	4 weeks
Tay Sachs Screen – full sequencing HEXA gene + deletions / duplications	DNATAYSACHS	E	4 weeks
Tempus additional AI Analysis Algorithm	Contact the Somatic Oncology Team	Additional algorithmic analyses can be ordered upfront, or retrospectively on existing sequence data for: Homologous Repair Deficiency (HRD) phenotype prediction, Likely tumour origin prediction, Likelihood of 5-FU toxicity (DPYD gene) & UGT1A1 genotyping (potential toxicity with irinotecan, sacituzumab govitecan, and/or belinostat)	N/A
Tempus xE	Contact the Somatic Oncology Team	Whole exome (DNA only) sequencing of solid tumour tissue samples.	16-20 days

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Genomics

Test Name	Code	Sample Type	TAT
Tempus xF	Contact the Somatic Oncology Team	Highly sensitive NGS-based (ctDNA sequencing only) solid tumour profiling (liquid biopsy only) for a broad range of actionable genetic changes	9-11 day
Tempus xF Longitudinal	Contact the Somatic Oncology Team	As xF, but at lower cost for subsequent repeat analyses	9-11 day
Tempus xF+	Contact the Somatic Oncology Team	Highly sensitive & comprehensive NGS-based (ctDNA sequencing only) solid tumour profiling (liquid biopsy only) for a broad range of actionable genetic changes	12 days
Tempus xT	Contact the Somatic Oncology Team	Comprehensive NGS-based (DNA & RNA sequencing) solid tumour profiling (using tissue or liquid biopsy) for all types of actionable genetic changes. Note: Within the UK, xT incorporates both xT & xR assays, which are list separately on the US based Tempus website	12-16 days
Tempus xT & xF (Concurrent)	Contact the Somatic Oncology Team	Combined price for Tempus xT & xF if ordered at same time	12-16 days
Thrombocytopenia Panel – full sequencing across 40 genes	DNATHROMCYTO	 	5 weeks
Thyroid Cancer Panel – full sequencing up to 10 genes + deletions /duplications	DNATHYRCA	 Requires patient informed consent	3-4 weeks
Torsion Dystonia (DYT1) – TOR1A common c.904_906delGAG mutation	DNATORSION		4-6 weeks
Treacher-Collins Syndrome Panel – full sequencing across 7 genes	DNATREACHER		4 weeks

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Genomics

Test Name	Code	Sample Type	TAT
Trimethylaminuria (Fish Odour) Syndrome – full sequencing FMO3 gene + deletions /duplications	DNATRIMETHYL	E	4 weeks
Tuberous Sclerosis – full sequencing TSC1 + TSC2 genes + deletions /duplications	DNATSC	E Requires patient informed consent	3-4 weeks
Usher Syndrome Panel – full sequencing across 21 genes	DNAUSHER	E	5 weeks
Very Long-Chain Acyl-CoADehydrogenase Deficiency – full sequencing ACADVL gene + deletions /duplications	DNAVLCHAIN	E	4 weeks
Vitreoretinopathy, Comprehensive Panel – full sequencing across 24 genes	DNAVITREORET	E	5 weeks
Von Hippel-Lindau Syndrome – full sequencing VHL gene + deletions /duplications	DNAVONHIPPEL	E Requires patient informed consent	3-4 weeks
Waardenburg Syndrome Panel – full sequencing across 7 genes	DNAWAARDENBURG	E	5 weeks
Whole Exome Sequencing Trio (affected child + parents) – NGS sequencing across all coding genes + deletions / duplication analysis	DNAEXOME3	E E Requires patient informed consent	6-8 weeks
Whole Genome Sequencing Trio (affected child + parents) – NGS sequencing across entire genome + mitochondrial genome + selected repeat expansion screening	DNAGENOME3	E E Requires patient informed consent	4-6 weeks
Wilson Disease – ATP7B sequencing + deletions /duplications	DNAWILSON	E	4 weeks
Xeroderma Pigmentosum Panel – full sequencing across 9 genes	DNAXERODERMA	E	5 weeks
X-Linked Hydrocephalus/MASA Syndrome – full sequencing L1CAM gene + deletions /duplications	DNAL1CAM	E	4 weeks
Y Chromosome Microdeletions – AZFa + AZFb + AZFc + SRY	DNAYDELETIONS	E	2 weeks

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SOMATIC TESTING AND SARAH CANNON MOLECULAR DIAGNOSTICS



How to work with the team

Our team is on hand to help with obtaining specialised somatic genetic tests (those routinely used to help with guiding treatment options) for patients with cancer.

For any logistical queries such as ordering, shipping, documentation and report return please contact us at Somatic.oncologyrequests@hcahealthcare.co.uk.

For any technical or clinical enquires such as right test choice, suitable samples, report interpretation, please contact us at Info@sarahcannon-md.co.uk.

Sarah Cannon Molecular Diagnostics

Test Name	Code	Sample Type	TAT	
MLH1	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	6 days	Methylation analysis - qPCR/High resolution melt analysis of bisulphite treated tumour DNA to assess the meythlation status of the MLH1 gene promoter. Used diagnostically for assessing the likelihood of Lynch Syndrome.
MSI	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	2 days	Rapid PCR-based assays for key treatment associated solid tumour markers - Micro-satellite instability analysis for defective mismatch repair identification (indication for immune checkpoint inhibitors).
RAPID - BRAF	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	2 days	Rapid PCR-based assays for key treatment associated solid tumour markers - qPCR based assessment of common clinically actionable variants at BRAF codon 600 only.
RAPID - EGFR	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	2 days	Rapid PCR-based assays for key treatment associated solid tumour markers - qPCR based assessment of common clinically actionable GFR variants only.
RAPID - K/NRAS, BRAF	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	2 days	Rapid PCR-based assays for key treatment associated solid tumour markers - qPCR based assessment of common clinically relevant variants only (NRAS/BRAF only if KRAS is wildtype).
RAPID - Lung Fusions	N/A	FFPE (Formalin- Fixed Paraffin Embedded) tissue	2 days	Rapid PCR-based assays for key treatment associated solid tumour markers - rt-PCR based assessment of common clinically actionable ALK, ROS1, RET and MET 'exon 14 skipping' gene rearrangements in NSCLC only.



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