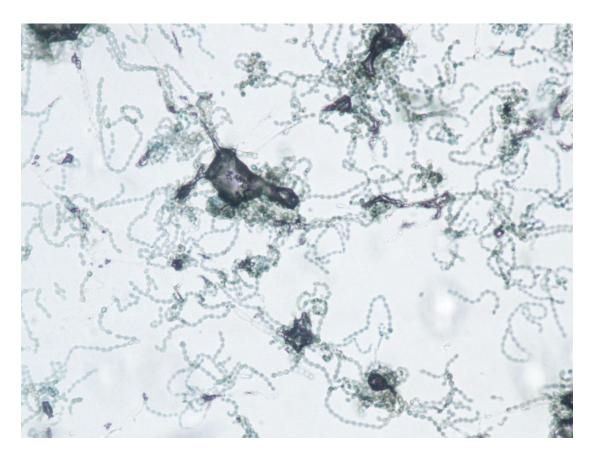
Microbiology Services User Handbook





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A – Z of tests A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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1 INTRODUCTION

The Clinical Microbiology Service is provided by the laboratories at the Great Western Hospital NHS Foundation Trust, Swindon, providing a formulary of tests reflecting the usual demands of a District General hospital service. Specialist and Reference test services are used where necessary.

Microbiology services are provided on a 24-hour basis, with a routine service available between 09:00 and 17:00 Monday to Friday, 08:00 and 13:00 on Saturday and 08:45 and 12:30 on Sunday and bank holidays (see <u>Laboratory Opening Hours</u>). The laboratory provides an on-call bacteriology service outside of these hours. Virology services are provided Monday to Friday 09:00 to 17:00.

Consultant advice is available during routine service hours and on an on-call basis outside of routine hours.

We provide an analytical and interpretative service on a wide range of clinical samples, processing over 270,000 requests each year. The efficiency of the service we provide is reliant on the cooperation of our users with the necessary policies relating to safety, sample transport and sample identification.

In its pursuit of excellence and as part of its continuous quality improvement programme the Microbiology department participates in all relevant internal and external quality assurance schemes. All laboratory work is carried out on up-to-date equipment in a modern laboratory which meets with all statutory requirements of a quality management system.

The repertoire of tests provided by Microbiology support the Trust in its diagnostic and screening programmes.

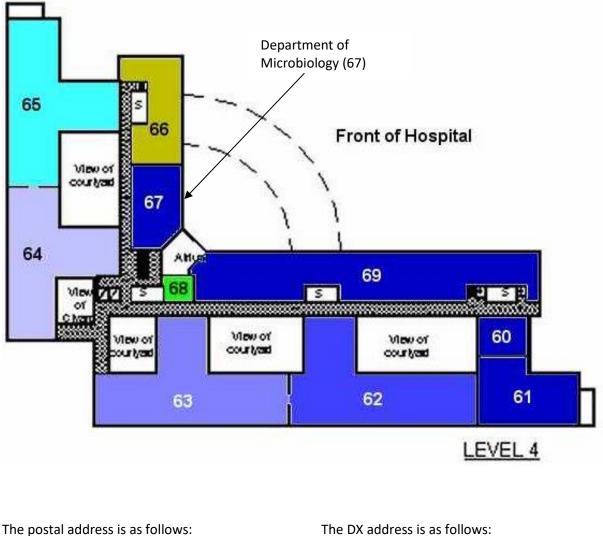
The laboratory is accredited by the Institute of Biomedical Science (IBMS) for Biomedical Scientist training and Biomedical Scientist Specialist training. We also support the University of Bristol in the provision of clinical undergraduate training and the development of junior doctors at Great Western Hospital.

The Pathology services are fully computerised with all laboratories using Clinisys WinPath laboratory information system. Pathology results are available electronically via the Trust network at ward level or via the GP electronics links. Hard copies can be made available on request.

We hope that this handbook contains all the information you require to use our service. However, please feel free to contact us to discuss any problems or issues you may have. Any comments or suggestions about the User Handbook should be addressed to <u>GWH.Microbiology@nhs.net</u>.

2 LABORATORY LOCATION

The Microbiology Department is part of the Clinical Support and Specialist Services Division, within the Great Western Hospitals NHS Foundation Trust. The department is sited on the fourth floor of the main hospital building (see diagram).



Department of Microbiology **Great Western Hospitals NHS Foundation Trust** The Great Western Hospital Marlborough Road Swindon Wiltshire SN3 6BB

The DX address is as follows:

The Great Western Hospital Department of Microbiology DX6130100 Swindon 90 SN

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3 PATHOLOGY QUALITY POLICY

The management of the Pathology Department is committed to delivering a service that is compliant with the requirements for Medical Laboratories set by the International Standard Organisation (UKAS ISO 15189:2012), Health and Safety Executive (HSE), UK Health Security Agency (UKHSA) - including the ANNB antenatal and new-born screening programmes for the participation in sickle cell and thalassaemia screening (SCT) and infectious diseases in pregnancy screening programme (IDPS), Medicines and Healthcare Products Regulatory Agency (MHRA) and the Human Tissue Authority (HTA).

The Pathology management team is fully committed to the on-going development and improvement of laboratory services through the continual assessment of the Pathology Quality Management System and the establishment by means of regular meetings, internal and external audits, annual review of quality objectives during the Pathology Annual Management Review, participation in the Trust Improving Together programme and collaborative work with network partners within the South 4 Pathology Network

The full Quality Policy (PAT-P-012) can be found in the Pathology Quality Manual (PAT-Q-003) on the Intranet and on the Quality Board within the department. A copy may be requested from the Pathology Quality Manager on a case-by-case basis.

4 OPENING HOURS, CLINICAL ADVICE AND RESULTS

4.1 Laboratory Opening Hours

The laboratory is open:

 Monday to Friday:
 0900 - 1700

 Saturday:
 0800 - 1300

 Sunday:
 0845 - 1230

 Bank Holidays:
 0845 - 1230

4.2 Clinical advice

Consultation about investigation and management of infections is welcomed. For advice on diagnosis and the interpretation of Microbiology results, use of antimicrobials or infection control (including the use of containment facilities) consultant advice is available during normal working hours and on an on-call basis at all other times.

4.2.1 For advice during normal working hours:

Please fill out the template below and email to <u>GWH.Microbiology@nhs.net</u>.

Clinician Name Extension/Bleep number (or email if preferred)	
Ward Location/GP practice	
Patient Full Name	
Patient hospital/NHS number	
Clinical Details/Nature of call	

Clinical advice is given verbally on a call back basis, in which the urgency of calls is triaged by the Microbiology Consultant.

4.2.2 For advice out of hours:

Telephone 01793 604020 (switchboard) and ask for the duty Consultant Medical Microbiologist.

PLEASE NOTE: Out-of-hours email requests will not be picked up until the next working day (Monday-Friday)

- Internal users, please refer to the antibiotic guidelines, in the first instance, for the commoner microbiology enquiries. These are available on the intranet at the Antibiotic Home Page.
- New or junior doctors should discuss queries with their own clinical team, before calling the Medical Microbiologist.
- For Infection Control advice alone, the Infection Control Nurses can be contacted on 01793 604554, or via switchboard.

4.3 Urgent samples

If a result is required urgently and the sample will arrive during normal working hours the laboratory **MUST** be notified by telephone so that we can prioritise the request.

Please ensure that the requesting clinician contact details are provided as part of the request to enable the result to be telephoned if required.

4.4 Testing out of hours

The on-call service is available outside of normal Laboratory opening hours.

The Microbiology out of hours service is an urgent service. The Biomedical Scientists carry out on-call off site and will travel in for urgent specimens only. On-call Biomedical Scientists are not able to look up results or inform you whether samples have been received.

Please ensure you call the on-call Biomedical Scientist upon taking the following urgent specimens:

- Cerebrospinal fluid (CSF)
- Peritoneal dialysis (PD) fluid
- Fluids from sterile sites (joint fluids, pleural fluids, ascitic fluids etc.)
- Pus
- Tissue samples
- Corneal Scrapes
- Urines (only paediatric samples after 12am)

The use of the service should be restricted to those samples where it is essential to have a result before the next routine session.

Samples that have not been called ahead are at risk of not being processed within the appropriate time frame.

To contact the on-call Biomedical Scientist telephone 01793 604020 (switchboard) and ask for the oncall Biomedical Scientist for Microbiology.

4.5 Additional tests

All tests should be requested at the time of submitting the sample to the laboratory. However, amendments to requests, or the need for additional tests, can still be discussed with the laboratory after processing has started.

In general, additional tests must be requested within 48 hours of sample receipt within the laboratory. In some cases, additional tests may not be possible, and a fresh sample will be required. Further advice can be obtained from the laboratory.

4.6 Results

Pathology results are available electronically immediately after authorisation via Careflow PAS at ward level or via the GP electronic links. Hard copies of reports are available on request.

All laboratory results are returned to the requesting clinician who has ultimate responsibility for ensuring that all results are actioned and communicated to the patient as appropriate.

In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

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Please note that we need to establish the caller's identity before giving results over the telephone. We are unable to give results directly to patients or their relatives.

General culture results are available 24 hours after sample receipt (at the earliest), and antibiotic susceptibility results after a further 24 hours. For samples such as blood cultures and CSF, the Medical Microbiologist will usually inform the clinicians of initial significant results as soon as they are known.

In general, results are not available until they have been authorised. In exceptional circumstances, preliminary results may be available direct from the relevant laboratory. However, please bear in mind that this may delay the testing of other samples.

4.7 Telephone and emailed results

Results of urgent requests and results which may aid the immediate patient management will be telephoned. This includes all positive blood cultures, positive CSFs, significant *C. difficle* results on inpatients and significant results processed on-call.

The laboratory will endeavor to call or email the following results:

- Growth of group B streptococcus from pregnant women
- Growth of group A streptococcus on all patients
- Growth of Campylobacter species, Salmonella species and Shigella species on pediatric patients <2 years of age
- Significant infection control results (MRSA, CRE)
- Significant C. difficile results on GP patients

All other results will only be telephoned or emailed on request.

4.8 Turnaround times

The laboratory continually monitors its turnaround times to ensure that it complies with its responsibilities within the patient pathway. The laboratory measures its turnaround times as the time from receipt until the point at which the result is authorised (at this point the result is available through direct enquiry and is available for transmission via GP links).

The expected turnaround times for each test are indicated as part of the <u>Test Repertoire</u>. For detailed turnaround times for each test and actual performance, please contact the laboratory.

Interrogation of the electronic systems allows for full audit of the reception, testing and reporting process, including time of report viewing and report printing.

4.9 Tests currently in scope of UKAS accreditation

The laboratory is a UKAS certified as a medical laboratory, and we seek UKAS accreditation for all our tests. Our current schedule of accreditation can be found on the <u>UKAS website</u>.

However, some tests are currently provided outside the scope of our current UKAS certificate. These are:

Test outside current UKAS accreditation	Additional
Urine analysis (microscopy) by UF5000	UKAS accreditation being sought
Blood culture incubation by BD BACTEC	UKAS accreditation being sought
Helicobacter Pylori antibody (by manual EIA)	UKAS accreditation being sought
Pneumococcal Antigen (TruPneumo)	UKAS accreditation being sought
Legionella Antigen (TruLegionella)	UKAS accreditation being sought
Faecal Calprotectin (Diasorin Liaison)	UKAS accreditation being sought
Mumps (Diasorin Liaison)	UKAS accreditation being sought
Measles (Diasorin Liaison)	UKAS accreditation being sought
Varicella Zoster (Diasorin Liaison)	UKAS accreditation being sought
SARS COV2 (Hologic Panther)	UKAS accreditation being sought
Xpress SARS COV2 (Cepheid GeneXpert)	UKAS accreditation being sought
CMV Serology (Abbott Architect)	UKAS accreditation being sought
HIV Viral Load (Cepheid GeneXpert)	UKAS accreditation being sought

All unaccredited test results are provided with an indicator comment reflecting unaccredited status: *Please be aware this procedure is not within the laboratory scope of UKAS accreditation*'

When referring samples off site to external providers we endeavor to ensure reference laboratories are UKAS accredited. For details on our external laboratories and their accreditation status please see <u>Reference Laboratories</u>.

5 CONTACT DETAILS

Position	External Number	Internal Number	Email Address
Bacteriology Enquiries	01793 604798	4798	GWH.Microbiology@nhs.net
Virology Enquiries	01793 604799	4799	GWH.Serology@nhs.net
Laboratory	01793 604798	4798	GWH.Microbiology@nhs.net
Hospital switchboard	01793 604020	0	

If you require to speak to a specific member of the team, please call the appropriate number listed above and you will be redirected.

6 SAMPLE COLLECTION

6.1 Preparation of patient

Adequate privacy during reception and sampling should be available as appropriate to the type of information being requested and primary sample being collected. Before taking any samples, verification of the patient's identity must be carried out and where relevant it should be recorded that the patient meets any pre-examination requirements (see <u>Test Repertoire</u>).

Information for patients regarding tests performed, including instruction for preparation of the patient and instructions for patient-collected samples, can be accessed at the 'Lab Tests Online UK' website.

For details of the Laboratory Policy on protection of personal information, patient consent, medico-legal samples and the Human Tissue Act refer to <u>Patient Consent Disclosure</u>.

6.2 Optimum time of and conditions for collection

Samples for bacterial culture, wherever possible, should be collected prior to commencement of antibiotic treatment. Actual pus or tissue samples are always preferable to a swab. For specific sampling guidance, refer to the <u>Test Repertoire</u>.

To avoid inadvertent contamination of a specimen during collection, an aseptic technique must be used; always use universal precautions, wash hands and wear appropriate personal protective clothing.

Decontamination of the sampling site or equipment may be necessary e.g. skin antisepsis before taking blood cultures or Cerebrospinal fluid (CSF), or catheter port antisepsis before collecting a specimen of urine via a catheter (CSU).

Specimens must be collected into sterile containers with close fitting lids (refer to <u>Selection of</u> <u>appropriate container</u>). The specimen must be clearly labelled (refer to <u>Labelling of Specimen</u> <u>Containers</u>).

Please send separate samples when tests are needed across different departments or sections. For example, submit individual urine samples for both culture and osmolarity or protein-creatinine ratio or separate CSF samples for culture and protein/glucose analysis. Similarly, within the Microbiology department, provide distinct samples when requesting multiple tests, such as separate specimens for faecal culture and faecal calprotectin, or for urine culture and urine CMV PCR. This approach helps ensure accurate testing and faster processing. Ensure all samples labelled and unequivocally linked to a patient and request (refer to Labelling of Specimen Containers).

6.3 Health and safety issues pertaining to sample collection

Every clinical specimen sent for microbiology examination should be treated as potentially infectious. Standard precautions must be always observed. Use aseptic technique.

With patients known to be infected, or if there is a strong suspicion that they may be infected with a high-risk organism (e.g. tuberculosis), then procedures likely to produce aerosols must be conducted whilst wearing face masks, goggles or full facial visors as appropriate. Such investigations include cough inducing procedures and lancing of an abscess.

Once collected, place the specimen into a plastic specimen bag and seal the bag. Wash your hands and dispose of clinical waste into a yellow clinical waste collection bag. Sharps must be disposed of safely. Used sharps must be disposed of according to Trust policy (see Safe Handling and Disposal of Sharps Policy & Guidelines). This is the responsibility of the individual(s) who generates them.

It is the responsibility of the person collecting the specimen to ensure that it is properly labelled and safe for transportation (see <u>Transportation of Samples</u>).

Refer to appropriate Trust policies for further information:

- Hand Hygiene and Skin Care Policy (including scrubbing gowning and gloving)
- Standard Infection Control Precautions Policy
- Safe Handling and Disposal of Sharps Policy & Guidelines
- TRANSPORTATION OF SAMPLES

7 SAMPLE CONTAINERS

7.1 Supply of specimen containers

The following Microbiology consumables can be obtained from the following locations:

Consumable	Description	Issue from
	Green form (non-blood Microbiology requests, excluding Blood Cultures) For locations that do not have access to ICE only	Materials Management Team
	Ref form (blood Microbiology requests) For locations that do not have access to ICE only	Materials Management Team
	Yellow form (MRSA admission screen requests) For locations that do not have access to ICE only	Materials Management Team
	Universal containers (with boric acid) - for urine bacteriology specimens from GP locations	Materials Management Team
	Bacteriology swabs in Amies transport swab	Materials Management Team
	Pernasal swab for whooping cough	Microbiology Department
	Charcoal urethral swab for <i>N. gonorrhoeae</i> culture	Materials Management Team
too large	Virus swabs in virus transport medium	Materials Management Team Microbiology Department
	Faeces container	Materials Management Team
	Universal containers (sterile and empty)	Materials Management Team
	Sputum container	Materials Management Team
France Artes Int.	Collection kits for HSV, <i>C. trachomatis, N. gonorrhoeae</i> NAATs	Materials Management Team
	Collection kits for <i>C. trachomatis, N. gonorrhoeae</i> NAATs	Materials Management Team
	Vacutainer tubes for blood samples (Serology)	Materials Management Team
	Vacutainer tubes for blood samples (Lithium Heparin – 6ml)	Materials Management Team
	Vacutainer tubes for blood samples (PCR)	Materials Management Team
	Blood culture bottles Pink = paediatric (single bottle) Grey (aerobic) and purple (anaerobic) = adult set	Pathology Reception
	Pin worm collection kits	Microbiology Department

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7.2 Selection of appropriate container

Please see <u>Repertoire Index</u> for the selection of appropriate container for test.

Sample containers must be CE or UKCA marked. Specimen containers must be leak proof and sufficiently robust to withstand stresses during transit. Only containers approved by the Microbiology Department may be used to ensure sample integrity during transit to the Laboratory. Samples that are sent in non-approved containers may not be processed by the Laboratory. It is the responsibility of the person sending the sample to the Laboratory to ensure that the container used for transportation is appropriate.

The container must be adequately closed to avoid leakage. Samples that have leaked in transit may not be processed by the Laboratory.

7.3 Labeling of sample containers

Clinical governance requires that where paper request forms are used the sample container must be labelled with sufficient information to provide an unequivocal link with the request form and the patient from whom they are collected. Clinicians using electronic requesting must ensure that test(s) are correctly requested on the appropriate system and generated label(s) are affixed to sample container(s) to provide an unequivocal link between the sample(s) and the patient from whom they are collected. When making multiple electronic requests, make sure to put the **correct label** on each of the samples.

Pre-printed addressograph labels are acceptable on sample containers for Microbiology investigations if they are accompanied by a paper request form.

Minimum Data Set for Identification:

- Patient's surname
- Patient's forename (initial is acceptable)
- Date of birth and /or district number / NHS number

Additional requirements:

- Identity of the person collecting the primary sample
- Sample collection date and time
- Sample type/site of collection

For antibiotic assay levels, for example Teicoplanin, the following information must be given where appropriate:

- Whether dose is Pre/Post/Random
- mg of last dose given
- Date and time of last dose
- Date and time that sample was taken

Failure to comply with correct guidance may result in the sample being rejected by the Microbiology department (refer to <u>Sample Acceptance Criteria</u>).

Multiple samples taken at different times on a patient MUST be labelled on the sample container with the time (24 hr clock) when the sample is taken. The request form should be labelled accordingly.

8 **REQUESTING TESTS**

All samples must be accompanied by a properly completed paper request form or electronic request. The Microbiology Department encourages the use of electronic requesting in the hospital. Failure to comply with correct guidance may result in the sample being rejected (refer to <u>Sample Acceptance Criteria</u>).

Please ensure that all relevant clinical details, including antibiotic therapy, are included so informed clinical and technical advice can be given if required. The absence of this information may result in inability to give informed clinical interpretation of results.

Acceptance of a testing request by the laboratory acts as an agreement with the requestor. This means that a contract is established between the laboratory and the requester when the laboratory accepts a request. This will apply whether the request is written or electronic.

8.1 Handwritten request forms

Minimum Data Set for Identification:

- District number and/or NHS number
- Patient surname and forename (in full, not initials)
- Date of birth (DOB)
- Patient address if district number/NHS number not supplied

In addition to the minimum data set for patient identification please ensure all other relevant fields are completed:

- Ward/ Practice, Consultant/GP
- Patient address
- Patient gender
- Date and time of collection
- Specimen type
- Investigation(s) required

- Name of requesting clinician and bleep number
- Relevant clinical details *
- Current drug therapy
- Copy reports, if required
- Patient category (PP/AQP/NHS)

* To ensure samples can be safely and appropriately tested in the laboratory, information including details of foreign travel, symptoms and known or suspected contact with other patients known to have communicable disease is important. For example, samples likely to contain high risk pathogens as described by the Advisory Committee for Dangerous Pathogens (refer to ACDP guidance) are handled at a higher containment level to safeguard both laboratory staff and other downstream workers (refer to High Risk Samples). The information is also of benefit to the patient ensuring that appropriate testing is performed.

Unnecessary confidential patient information, for example HIV, Hepatitis B or C status, should not be disclosed on the request form unless pertinent to the investigations required.

It is essential to use a ballpoint pen when completing request forms. Use of felt tip and fountain pens can lead to delay in processing samples, or requests being missed altogether, as carbon copies are often incomplete. When addressograph labels are used, please ensure that a label is fixed to EACH part of the request form.

8.2 Electronic requesting (ICE)

Please use electronic requesting (ICE) order-comms where available.

When using the electronic requesting system please ensure that you order the correct test and select the correct sample type as failure to do so may lead to incorrect testing. The ICE requesting system will show those tests most requested for the Microbiology Service; should the test you require not be visible please contact the laboratory to check that the test is available.

The information required is the same as that required on a handwritten request form and should include clinical details and symptoms, as well as information on antibiotic use, foreign travel, outbreaks, date of onset, etc.

Where ICE requesting is not available handwritten request forms must be used.

8.3 Anonymous/uniquely identified samples

In certain circumstances patient identification details are intentionally hidden or substituted with particular ID numbers (for example, Sexual Health, donor samples, samples from unconscious or incoherent patients). In such instances, a properly coded identifier must be used in place of the patient last name and first name.

Unidentified Patients

Samples from unconscious or incoherent patients should be labelled with "UNKNOWN MALE OR FEMALE" and the emergency unit number.

All request forms must be signed.

GUM Patients

Where Patient name is not appropriate, then GUM number, patient gender and DOB is acceptable.

8.4 Verbal requests

Verbal requests are not accepted by the Microbiology Department except for urgent samples and additional tests for samples already received within the laboratory. This is to ensure that all samples are accompanied by a properly completed request form and be unequivocally traceable by request and labelling to an identified patient or site.

8.5 Microbiology department request forms

The following request forms are used by the Microbiology department (please do not mix with samples for other departments):

MAL CONT	PATHOLOGY REQUESTS TISSUE/SWABS/FLUIDS ETC.	LABORATORY NUM
	BLOCK LETTERS PLEASE USE BALLPOINT PEN BOXES IN BOLD PRINT MANDATORY	PLEASE SEND SEPARATE REQUEST AND SAMPLE FOR EACH DEPT.
	UNIT NUMBER	TIME & DATE TAKEN TAKEN BY DATE RECEIVED
	SURNAME	SPECIMEN TYPE:- MICROBIOLOGY:- ANTIBIOTIC THERAPY:-
CORRECTIV COPF COPF R ADATION TR	FORENAMES	DATE OF ONSET OF ILLNESS
LEAKPROD ON EACH LEAKPRO CARRIER (LS NHS FOUNDA	SEX D.O.B.	
SPECIMEN DN EAC ARPF ARRIEI S NHS FOUL	HOSPITAL/CODE REPORT TO:- WARD/DEPT COPY TO	OTHER:-
THE SPEC	CONSULTANT/G.P./CODE SURNAME (PATIENTS) UNIT NUMBER	HAEMATOLOGY- BONE MARROW MGG CYTOGENETICS
REA NEN HOSP	PATIENT'S ADDRESS	IRON I IMMUNOPHENOTYPING C CSF CYTO
RESS FIRMLY ON EACH END ON HEALED IN EACH END ON EACH END OF ENSURE A LEAKPROOF SPECIMEN CARRIER	CLINICAL DETAILS INCLUDING RELEVANT DRUGS AND OPERATIONS	CHEMICAL PATHOLOGY:- URINE/FAECES/MISC. FLUIDS SPECIFY TESTS:-
PRE TO S		HISTOPATHOLOGY/CYTOLOGY:- PREV. HIST. No.
GRI H		PREVIOUS HISTOLOGY/CYTOLOGY Y/N PREV. CYT. No.
		PATHOLOGIST DATE PROCESSED BLOCKS
5		
8	REQUESTING DOCTOR'S NAME (Please Print)	DEPARTMENT OF PATHOLOGY, THE GREAT WESTERN HOSPITAL, MARLBOROUGH ROAD, SWINDON, WILTSHIRE, SN3 6BB TEL, 01703 60429

GREEN FORM (NON-BLOOD MICROBIOLOGY REQUESTS, EXCLUDING BLOOD CULTURES)

RED FORM (BLOOD MICROBIOLOGY REQUESTS)

2221208 B	TEAR	PATHOLOGY REQUES BLOOD SPECIMENS ONLY	BALL POINT PEN OR	DATE OF RECEIPT	GENERAL LAB NUMBER
222	X	BOXES IN BOLD PRINT MANDATORY		TIME & DATE TAKEN BY	
PATENT NO.		NHS NUMBER	SEPARATE SPECIMEN IS	REQUIRED FOR EACH DISCIPLINE	
ATEN			YELLOW TOP TUE		
e VILO	END DF		CHEMISTRY	SEROLOGY Routine	
ada o	ON EACH EN LEAKPROOF CARRIER	SURNAME	Glucose	Rubella Contact/Case	
N C N	ON EACI LEAKPRC CARRIER S NHS FOUNDA	FORENAMES	Calcium Group	Hepatitis B	
EC.N	ON AR	SEX D.O.B.	Lipid Studies	C Other	
	V O V O	HOSPITAL/CODE REPORT TO:- WARD/DEPT 0	COPY TO	GREEN TOP TUBE	BLACK TOP TUBE
PAT HAVE VOLLI ABELLED THE SECTIMEN CORRECTIVE	ESS FIRMLY ON) ENSURE A LEA SPECIMEN CAR WESTERN HOSPITALS NHS	CONSULTANT/G.P./CODE SURNAME (PATIENTS) UNIT N PLEASE COMPLETE IF USING ADDRESSOGRAPH	Other	Troponin	ESR
ABEI	SS FIRM ENSURE SPECIME ESTERN HOSP	PATIENT'S ADDRESS			MAUVE TOP TUBE HAEMATOLOGY
	PRESS TO EN SPE	CLINICAL DETAILS INCLUDING RELEVANT DRUGS AND OPER	ATIONS AIP Glandular Fever	BLUE TOP TUBE CLOTTING STUDIES	Full Blood Count Other
HAUE	PRE TO			INR (Warfarin)	CHEMISTRY
		PATIENT WAITING FOR		(Unfractionated Heparin)	
19180	GWH0427	HIGH INFECTION RISK NO / YES URGENT F REQUESTING DOCTOR'S NAME (Please Print)	OUTINE Glucose		
Ref:	GW	CONTACTABLE ON BLEEP EXT.			

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YELLOW FORM (MRSA ADMISSION SCREEN REQUESTS)

			Pathology Re	quests			MRSA Admis	sion Screening Form
17Y?			Specimens submitted on this form will ONLY be tested for MRSA					Time Taken:
SPECIMEN CORRECTLY?		8	Unit Number				Taken By:	Bleep / Ext:
MEN CI	END DF	FORM	Surname				Specimen Types (r	max 4 per form)
SPECI	ACH PRO(ER		Forename(s)				Туре:	Lab No.:
	V EJ AKI RRI	SCREENING	Sex		DOB			
	Y OI A LE I CA	and the second se	Ward		Consultant		Туре:	Lab No.:
	RML 'RE , MEN	Screen Type (please tick) SCreen Type (please tick) Elective admission screen						
D THE	SS FI ENSU SPECI	ADMI	Elective admission s	screen	[Туре:	Lab No.:
BELLE	RESS TO EN SPE	MRSA /	Emergency admissi	on screen	[
HAVE YOU LABELLED THE		ž					Туре:	Lab No.:
HAVE		())	For Lab Use Only					
		Non I			MSCF			robiology, The Great Western Hospital, d, Swindon, SN3 6BB (01793) 604798

9 TRANSPORTATION OF SAMPLES

Please refer to the Trust Specimen Transportation Policy for the correct procedures for submitting samples to the laboratory.

9.1 Transportation of routine samples to the laboratory

All sample containers for transport to the Laboratory must be sealed in a plastic bag attached to the request form.

Samples for microbiological investigation should be examined as soon as possible after collection to avoid compromising results. Samples may be transported via normal portering rounds during the normal working day.

Where this is not practicable due to delays in transportation samples should be kept refrigerated. Samples may be kept in a refrigerator at a temperature of 4-8°C for a maximum of 24 hours prior to transportation. There is a refrigerator in Pathology Reception for non-urgent samples that arrive outside the normal opening hours.

Samples taken for blood culture examination MUST NOT be refrigerated. These must be transported to the Laboratory as soon as possible for incubation at 37°C.

Certain samples may be sent direct to the laboratories using the pneumatic chute system:

Pathology address:104Microbiology address:102

For transportation of samples to the laboratory from external sites or by post, and use of the pneumatic chute system, please refer to the Trust Specimen Transportation Policy.

In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

9.2 Transportation of urgent samples

Urgent samples must be sent to the laboratory immediately and arrangements made with the portering service.

To discuss an urgent sample with the duty Biomedical Scientist: telephone 01793 604020 (switchboard) and ask for the duty Biomedical Scientist.

10 HIGH RISK SAMPLES

All samples should be regarded as potentially infectious.

Certain samples from patients who are known or suspected to have the following diseases/conditions constitute a potential higher risk of infection to persons handling the samples:

- Typhoid/paratyphoid fever (faecal samples only)
- Dysentery (faecal samples only)
- Tuberculosis (samples from sites where tuberculosis infection is likely)
- Anthrax

- Transmissible Spongiform Encephalopathy (including CJD)
- Viral haemorrhagic fever
- Avian Flu
- MERS/SARS respiratory syndrome, including SARS-CoV2

Brucellosis

To minimise the risks ensure that such samples are packaged as follows:

- Attach a "Danger of Infection" label to the sample container and request form for all qualifying samples (available from Phlebotomy Department, GWH)
- Specify the nature of the risk on the request form
- Use unambiguous and commonly recognised terminology
- Place the sample in a sealable plastic bag and close the seal

This is a necessary procedure to safeguard both laboratory staff and other downstream workers. The labels must be used in accordance with the Trust Specimen Transportation Policy

Samples thought to constitute a risk to laboratory staff because of inadequate packaging or warning may be rejected.

The Consultant Microbiologist must be contacted **BEFORE** collecting samples from a patient suspected of having a viral haemorrhagic fever, human avian influenza, MERS/SARS or CJD. These organisms require special transport arrangements and specialist laboratories designed for containment during manipulation of samples and cultures.

These lists are not exhaustive and rarely other biological agents that can cause severe human disease, and present a serious hazard to employees, may be present in samples. If there is any suspicion of a high risk atypical organism advice on sample collection and transport should be sought from the Consultant Microbiologist.

11 Samples from patients categorised as 'high possibility of vhf' and samples from patients with confirmed vhf

Instructions for sample transportation of suspected VHF samples are defined in the Trust Specimen Transportation Policy and are formulated in line with current ACDP guidance.

The laboratory MUST be notified prior to receipt of all samples. In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

12 SAMPLE ACCEPTANCE CRITERIA

Sample acceptance criteria ensure adequate identification for Microbiology samples and their requests for them to be accepted by the laboratory for analysis.

The laboratory will make every effort to ensure requests are processed in a safe and timely manner, but it is essential that requests and samples are labelled appropriately and legibly in compliance with this policy. It is also important to clearly identify the investigations required with relevant supporting information. Inadequate or inaccurate labelling may cause delays in producing Microbiology results and hence impact patient care. If you have any doubts regarding this policy, please ring the relevant department for further information.

The requesting clinician is responsible for the correct completion of the request (whether this be electronic or paper) and the correct labelling of the sample. It is recommended that patient collected samples (e.g. urine, stools) are labelled first by the requesting clinician to minimise the risk of labelling errors.

It is the requester's responsibility to ensure that all details are correct, clearly written and that the sample details match those on the form and patient wrist band (if applicable).

Any labelling discrepancy will be included on the Microbiology report.

Samples will **not** be accepted for analysis if:

- There is no unique identification of the patient i.e. they do not meet the minimum data set for identification
- There is an incorrect sample type or tube
- Incorrect transportation conditions
- Sample is received in a hazardous condition e.g. leaking or sharps attached
- Sample or request form is unlabelled or incorrectly labelled with less than the minimum data sets for patient identification
- Mismatch of details between the form and sample(s)
- The information provided is illegible

Inadequately or inaccurately labelled samples or forms will not be accepted unless they are unrepeatable or reproducible. A classification of unrepeatable or unreproducible will be made by the Consultant Microbiologist and/or Microbiology Management staff on an individual basis. The risk to the patient of rejection of the sample will be weighed against the risk of acceptance of a wrongly labelled sample. Microbiology will accept no responsibility for samples analysed which initially failed to meet the acceptance criteria and will issue a disclaimer on such reports.

Where the sample is repeatable/ reproducible, no analysis will be performed, and an appropriate comment will be included on the Microbiology report. The event may be reported as an incident on the Trust incident report system.

13 REPERTOIRE OF TESTS (A – Z)

This section covers the tests that the Microbiology department offers according to the service repertoire agreed with our users. Costs of tests may be made available on request to the Laboratory Manager.

Find a test or clinical condition using the <u>A – Z list</u>. With each test we provide the following information where appropriate:

- Name of test
- Examinations offered
 - Which sample containers are required What specimen type is required What sample volume is required Which request form should be used
- Sample instructions
 - Collection of the specimen
 - Specimen transportation requirements
 - Specimen storage requirements
 - Special requirements for performing this examination
- Laboratory information
 - What test will be performed
 - Measurement units of examination performed
 - Biological reference intervals of examination performed
 - Turnaround time of examination performed
 - When the test is available
- Clinical information
 - Factors known to significantly affect the results

For more information on any of these tests see the 'Lab Tests Online' UK website. Almost all examinations are based on NICE accredited UK Standards for Microbiology Investigations (SMI) hosted by Royal College of Pathologists.

13.1 Reference Intervals

Reference intervals for any test are specific to that test and laboratory methodology. Reference intervals will be displayed with the patient results taking these factors into account.

These will be available, whether the result is sent via paper, through ward/web enquiries or via the electronic links to General Practice.

13.2 Referred Tests

The laboratory provides a range of specialist testing which is undertaken at reference centres. These tests are indicated within this section. Please contact the laboratory on Telephone 01793 604798 for details of the tests offered, name and location of the testing laboratory and information regarding any special sample requirements.

The parameters analysed in referred tests and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.

13.3 Repertoire index

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Α

Abscesses and deep-seated wound infections Adenovirus PCR Amniotic fluid Amoebic serology Antenatal serology Antibiotic levels Anti-streptolysin (ASO) titres Aspergillus PCR Aspergillus serology Astrovirus Atypical pneumonia Avian influenza Avian precipitins

В

Bacteraemia Bacteriuria Bartonella serology B-glucan test Biopsies BK virus PCR Blepharitis Blood cultures Blood culture collection Bordetella pertussis culture Bordetella pertussis PCR Borrelia burgdorferi (Lyme) antibody Brucella serology Burns Bursa fluid

С

Candidosis Carbapenemase-producing Enterobacteriaceae (CPE) screen Cellulitis Chicken pox (diagnostic) Chicken pox IgG (immunity) Chicken pox PCR Chikunguna, Murray, Ross River, O.Tsusu, Sandfly Chlamydia trachomatis antibody

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Chlamydia trachomatis PCR Chlamydia trachomatis PCR - collection of urine sample Chlamydia trachomatis PCR – collection of vaginal sample Chlamydia LGV PCR Clostridium difficile toxin Clostridium difficile toxin ribotyping Conjunctivitis Contact lens Continuous ambulatory peritoneal dialysis (CAPD) fluid Corneal scrape Cough swab COVID-19 PCR **CPE** screen Cryptococcal antigen CSF (Cerebrospinal fluid) microscopy and culture CSF (Cerebrospinal fluid) oligoclonal bands CSF (Cerebrospinal fluid) virology PCR Culture Culture: Wounds (deep-seated) Culture: Wounds (skin, superficial, non-surgical) Cystic fibrosis Cytomegalovirus (CMV) serology Cytomegalovirus (CMV) PCR

D

Dermatological specimens – hair, skin, nails Dengue and West Nile virus Diphtheria serology Dysuria

E

Ear swab culture Ebola Enteric virus PCR Enterovirus PCR Epstein Barr virus (EBV) serology Epstein Barr virus (EBV) PCR Eye and canalicular pus culture

F

Faeces culture Faeces: Calprotectin Faeces: Clostridium difficile Faeces: Enteric virus panel Faeces: Norovirus Faeces: Parasitology

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Faeces: Rotavirus Fluids from normally sterile sites Folliculitis

G

Genital swab culture (female) Genital specimens (excluding female genital swabs) Glucan (Mycology)

Η

Haematuria Haemophilus influenzae PCR Haemophilus influenzae type b IgG Helicobacter pylori IgG Hepatitis A virus (HAV) IgG Hepatitis A virus (HAV) IgM Hepatitis B virus (HBV) confirmation Hepatitis B virus (HBV) core IgG antibody Hepatitis B virus (HBV) core IgM antibody Hepatitis B virus (HBV) surface antibody Hepatitis B virus (HBV) surface antigen Hepatitis B virus (HBV) viral load (PCR) Hepatitis C virus (HCV) antibody Hepatitis C virus (HCV) confirmation Hepatitis C virus (HCV) genotype Hepatitis C virus (HCV) qualitative PCR Hepatitis C virus (HCV) viral load Hepatitis D (delta) virus antibody Hepatitis E (HEV) IgM & IgG Hepatitis E (HEV) PCR Herpes simplex virus (HSV) antibody Herpes simplex virus (HSV) type 1 and 2 PCR HIV-1 and 2 antigen/antibodies and p24 antigen **HIV** confirmation HIV resistance, integrase, tropism HIV vertical transmission (neonates) HIV viral load (PCR) Human Herpes 6 (HHV) PCR Human T lymphotrophic virus (HTLV) 1 and 2 serology Hydatid serology

Impetigo Infective endocarditis Influenza A Influenza B

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Intravascular cannulae

J

JC virus PCR Joint fluid

Κ

L

Legionella urinary antigen Leptospira serology Lyme disease

Μ

Measles (diagnostic) Measles IgG (immunity) Meningitis Meningococcal antibody Meningococcal PCR Metapneumonvirus Mouth swab MPox MRSA Mumps (diagnostic) Mumps IgG (immunity) Mycobacteria Mycobacteria PCR Mycology Mycology PCR Mycology serology Mycoplasma genitalium Mycoplasma pneumoniae

Ν

Neisseria gonorrhoeae PCR Neonatal sepsis Norovirus PCR Nose swab

0

Otitis externa Otitis media Ova, cysts and parasites

Ρ

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Panfungal PCR (18S) Pan-valentine leukocidin (PVL) toxin detection Parainfluenza virus Parasitology (Bilharzia/Schistosoma haematobium) Parasitology (Pinworm) Parasitology (serology) Parasitology (Stool) Parasitology (Worm identification) Paronychia Parotitis Parvovirus PCR Parvovirus serology Pericardial fluid Peritoneal dialysis fluid (PDF) Peritoneal fluid Pharyngitis Pleural fluid Pneumococcal PCR Pneumococcal serology Pneumococcal urinary antigen Pneumocystis (IF) Polyoma viruses (BK) Polyoma viruses (JC) Prosthetic valve endocarditis Pseudomonas serology Pus Pyuria

Q

Q fever serology

R

Respiratory samples for culture Respiratory syncytial virus (RSV) Respiratory virus PCR Rhinovirus Rotavirus Rubella (diagnostic) Rubella IgG (immunity)

S

Sapovirus Sepsis Skin, superficial, non-surgical wounds Sputum Sterile fluid

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Streptococcal serology (ASO) Streptococcus pneumonia serology Syphilis antibody Syphilis confirmation

T

TB examination TSPOT.TB (latent TB testing) Tetanus antibody Throat swab Tips/intravascular cannulae Tissues and biopsies Toxoplasma (diagnostic) Toxoplasma IgG (immunity) Treponema pallidum antibody Treponema pallidum confirmation Treponema pallidum PCR

U

Ulcers Urinary tract infection Urines (microscopy and culture)

V

Varizella zoster virus (VZV) IgG (immunity) Varicella zoster virus (VZV) PCR Viral haemorrhagic fever (VHF) Virus isolation

W

West Nile virus Whooping cough Wounds (skin, superficial, non-surgical) Wounds (deep-seated)

Х

Υ

Z Zika virus

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Abscesses and deep-seated wound infections

Abscesses are accumulations of pus in the tissues and any organism isolated from them may be of significance. They occur in many parts of the body as superficial infections or as deep-seated infections associated with any internal organ.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Collection of pus or exudate	Minimum volume 1ml of pus			
OID Columna Sont - O & H	Amies transport swab	Swabs should be well soaked in pus			
Sample instructions					
Collection	Collection of pus or e	efore antimicrobial therapy s exudate is always preferable t ample the deepest part of the	o swabs, except when in		
Specimen transport Specimens should be sent to the laboratory without delay during working hours.					
Storage requirements Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.					
Special requirements Important to indicate site and nature of lesion.					
Laboratory information					
Tests	quantitative) (pus).	tion of gram positive and neg characterisation of aerobic, anisms (qualitative).	-		
Measurement units	Growth detected or not detected.				
Biological reference units					
Turnaround time	4 days, plus 2 days fo	r enrichment culture (pus).			
Availability	Routine hours and or	n-call (pus).			
Clinical information					
Factors known to significant affect the results		The recovery of anaerobes is compromised if transport time exceeds 3 hours. Delays in transportation may affect the recovery of pathogens.			

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Adenovirus PCR

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 500µl		
	Eye swab (virus transport medium)			
	Stool sample	<20ml		
Sample instructions				
Collection	membranes. Faeces specimen m	top) swab of vesicle fluid or nay be passed into a clean, dr nd transferred to an appropr	ry, disposable bedpan or	
Specimen transport	Specimens should I working hours.	be sent to the laboratory wit	hout delay during normal	
Storage requirements Outside of normal working hours samples should be refrigerated				
Special requirements	Clinical details are	essential for processing.		
Laboratory information				
Tests	laboratory on Telep parameters analyse	ed at an external reference of ohone 01793 604798 if furth ed in this test and any refere displayed on the report whe	er details are required. The nee required the nee ranges for these	
Measurement units				
Biological reference units				
Turnaround time	14 days			
Availability	Routine hours.			
Clinical information				
Factors known to significan affect the results	inappropriate timir tly of organism below detection of an ass	y occur for a variety of reaso ng of sample collection, inapp the detectable limit of the as ay sampling variation will res variants may also occur whi	propriate sample, presence ssay. Towards the limit of sult in lower reproducibility	

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Amoebic serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	quirements.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of normal working hours samples should be refrigerated.			
Special requirements	Clinical details and date of onset are essential for processing.			
Laboratory information				
Tests	laboratory on parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

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Antenatal serology

Infectious Disease in Pregnancy (IDP) screening.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls	Use an antenatal screening department approved request form	
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	by the patient and	Requests for blood borne virus testing must be clearly indicated as accepted by the patient and signed by the requesting clinician. Remaining serum sample stored for 2 years.		
Laboratory information				
Tests	Detection of HIV-1	Detection of Hepatitis B surface antigen (qualitative) Detection of HIV-1 and 2 antibodies and HIV antigen (qualitative) Detection of Treponema pallidum antibody (qualitative)		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

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Antibiotic levels

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	No special requirements.		
Specimen transport		Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of no	Outside of normal working hours samples should be refrigerated.		
Special requirements	Microbiology Please state: • Whether • mg of last • Date and • Date and Gentamicin a	sts and out of hours requests r Consultant. pre-dose, post-dose or randor t dose given time of last dose time that sample was taken nd Vancomycin assays: formed by the Biochemistry d	n dose.	
Laboratory information				
Tests	Contact the la required. The	Other Antibiotic Level tests are processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	48 hours.	48 hours.		
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significant affect the results	tly Haemolysis.			

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Anti-streptolysin (ASO) titres

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requ	irements.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of norn	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details a	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	laboratory on T parameters ana	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	Haemolysis.	Haemolysis.		

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Aspergillus PCR

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 5ml		
	Sputum/BAL	Minimum volume 1ml		
	CSF	Minimum volume 0.5ml		
Sample instructions				
Collection	Refer to <u>Resp</u> Cerebrospina	imens/ bronchoalveolar lavage/b iratory samples for culture. Il fluid (CSF) microscopy and culture.	ronchial washings	
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of normal working hours samples should be refrigerated.			
Special requirements	Clinical details are essential for processing.			
Laboratory information				
Tests	laboratory on parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.			
Clinical information				
Factors known to significa affect the results	inappropriate intly of organism b detection of a New and eme	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay.		
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Aspergillus serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special req	uirements.		
Specimen transport	Specimens sho working hours		ory without delay during normal	
Storage requirements	Outside of nor	mal working hours sample	s should be refrigerated.	
Special requirements	Clinical details	are essential for processir	ng.	
Laboratory information				
Tests	laboratory on The paramete	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Avian precipitins

Used to investigate bird breeders lung. This test covers budgie and hen antibody.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requi	rements.		
Specimen transport	Specimens shou working hours.	ld be sent to the laborato	ory without delay during normal	
Storage requirements	Outside of norm	al working hours sample	s should be refrigerated.	
Special requirements	Clinical details a	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Te The parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Bartonella

Antibody testing for *B. henselae* and *B. quintana*, previously available, has been withdrawn as a UKHSA service and is not currently available.

UKHSA does offer a developmental Bartonella PCR service, which may be offered in some circumstances. For information about testing, please contact RIPL on 01980 612348. The laboratory is happy to discuss and advise on diagnosis and clinical cases.

Beta Glucan test

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection			i.e. if Beta Glucan is requested op will be needed just for this	
Specimen transport	Specimens sh working hour		ry without delay during normal	
Storage requirements	Outside of no	ormal working hours samples	should be refrigerated.	
Special requirements	Clinical detail	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory or The paramet	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units	pg/mL	pg/mL		
Biological reference units				
Turnaround time	48-96 hours			
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significar affect the results	htly Lipemic samp Icteric sample	ples		

BK virus PCR

Diagnosis of acute disease.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	EDTA blood	Minimum volume 5ml	
	CSF	Minimum volume 0.5ml	
	Urine	Minimum volume 5ml	
Sample instructions			
Collection	Urine	I fluid (CSF) microscopy and culture. e (microscopy and culture).	
Specimen transport	Specimens sh working hour	ould be sent to the laboratory wit s.	thout delay during normal
Storage requirements	Outside of no	ormal working hours samples shou	Id be refrigerated.
Special requirements	Clinical detail	s are essential for processing.	
Laboratory information			
Tests	laboratory on parameters a	ocessed at an external reference of Telephone 01793 604798 if furth nalysed in this test and any refere vill be displayed on the report who	er details are required. The ence ranges for these
Measurement units			
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hour	s.	
Clinical information			
Factors known to significa affect the results	inappropriate antly of organism b detection of a	es may occur for a variety of rease e timing of sample collection, inap below the detectable limit of the a an assay sampling variation will re erging variants may also occur wh	propriate sample, presence issay. Towards the limit of sult in lower reproducibility.
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Blood cultures

Bacteria are not normally found in the blood - any growth is usually significant *however* contamination from normal skin flora can easily take place. A strict aseptic technique is essential.

Blood cultures are not a 'routine' investigation. Take only when active clinical infection is suspected and where possible before antibiotics have been given. Take during or as soon as possible after a spike of temperature. Do not remove or cover up barcode labels as these are required in the laboratory.

The following list serves as a guide for when blood cultures should be considered:

- Fever ≥ 38°C (suspected bacterial or fungal cause)
- Pyrexia of unknown origin (PUO)
- Rigors
- Febrile convulsion (paediatrics)
- Sepsis, septicaemia or septic shock
- Febrile neutropenia
- Pneumonia
- Meningitis
- Meningococcaemia/petechial, purpuric or non-blanching rash
- Enteric fever (typhoid)
- Infective endocarditis or other endovascular infection
- Pyelonephritis
- Pancreatitis
- Septic arthritis
- Intravascular catheter/cannula infection
- Enteric fever (e.g. typhoid)

Examinations offered			
Collection container	Specimen	Sample volume	Request form
Children – yellow top			
bottle.			
		Children –	
		Recommended volume is	
		1–3 mL.	
	Venous blood, arterial		
BUD BACTES	blood, blood via IV line.		
a the second secon	Ascetic fluid, pleural		
Adults – grey top and	fluid.		
purple top bottle.		Adults – Recommended	
		specimen volume is 8–10	
		mL.	
GED BACTEC			
And and a second s			

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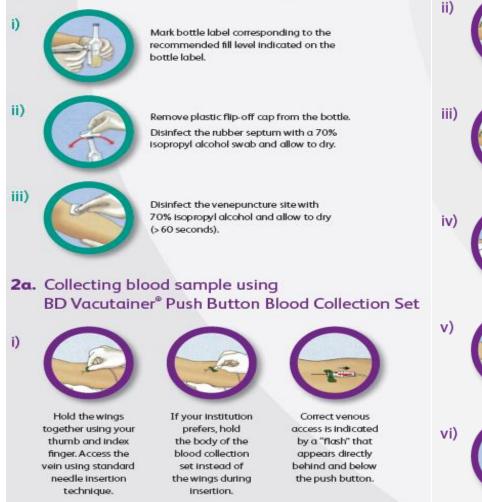
Sample instructions	
Collection	A blood culture set is defined as one aerobic and one anaerobic bottle. For infants and neonates a single aerobic bottle may be requested. For patients with suspected endocarditis collect 2 sets from separate venepunctures at different times. Refer to Blood Culture Method Options.
Specimen transport	Specimens should be sent to the laboratory without delay during norma working hours. Do not use pneumatic chute system.
Storage requirements	Inoculated bottles should be incubated as soon as possible. Outside of normal working hours samples must be stored at ambient temperature in Pathology Reception. DO NOT refrigerate blood cultures.
Special requirements	Collect specimens before antimicrobial therapy where possible. Samples should be taken as soon as possible after a spike of fever.
Laboratory information	
Tests	Detection of gram positive and negative bacteria (semi-quantitative). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).
Measurement units	Growth detected or not detected.
Biological reference units	
Turnaround time	1 – 5 days, depending on positivity. Significant positive results are communicated to clinicians as and when they arise.
Availability	Routine hours.
Clinical information	
Factors known to significantly affect the results	Any recent antimicrobial therapy can have a significant effect on blood culture results by decreasing the sensitivity of the test. This may be of particular importance in those patients receiving prophylactic antibiotics and who are at high risk of bloodstream infections. If patients have received previous antimicrobial treatment, bacteraemia should be considered even if blood culture results are negative. There is a direct relationship between blood volume and yield, with approximately a 3% increase in yield per ml of blood cultured. False negatives may occur if inadequate blood culture volumes are submitted

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Blood culture collection





When collecting blood using a wingset, it is recommended that you use a discard tube to prime the wingset tubing first. Then collect blood into blood culture bottles. Push and hold the BD Vacutainer[®] holder over the top of the bottle. Fill aerobic bottle first, then anaerobic bottle, holding them upright. Collect blood to indicated fill level.



If required, BD Vacutainer* blood collection tubes may be drawn at this time by inserting them into the BD Vacutainer[®] holder.



For maximum safety, the device is designed to be activated while still in the patient's vein. Place a gauze pad on the venepuncture site. Allow it to cover the front barrel. After collection, grasp the body of the device with thumb and middle finger, and activate the push button using your index finger. Do not impede device retraction.



Apply pressure to the venepuncture site in accordance with your institution's protocol.

Make sure that the needle is fully retracted and is in the shielded position.

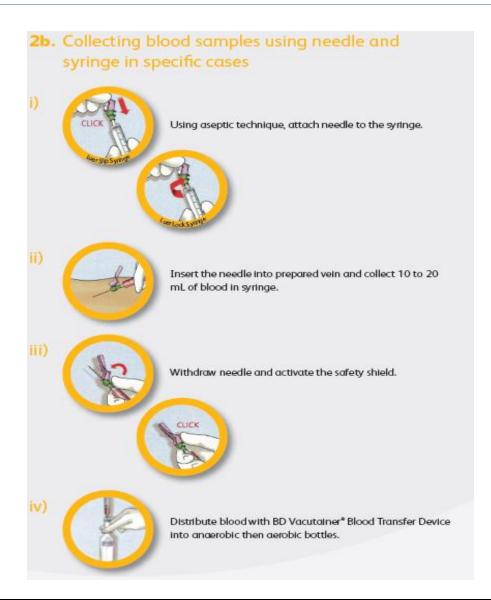
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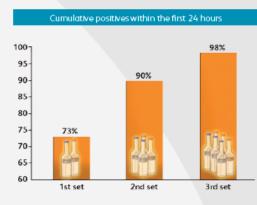


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5. Additional Cultures

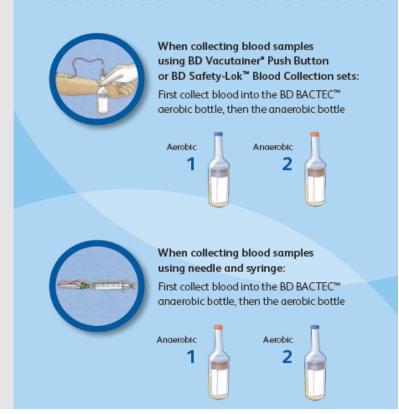


It is generally recommended to collect 2-3 blood culture sets for children (> 36 kg body weight) and adult patients. Additional cultures may be collected in a similar way. I deally, a different venepuncture site should be used for each culture set collected. The clinical status of the patient should be the primary guide to the timing of blood cultures.'

Repeat steps 1-4 for additional cultures.

For BD Customer Service, please call 01865 781666, Option 1

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Reminder - order of draw

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Bordetella pertussis

Suspect pertussis in patients with a cough illness lasting 14 days or more without an apparent cause plus one of the following: (a) paroxysms of coughing; (b) inspiratory 'whoop'; (c) post-tussive vomiting.

Recommended tests for pertussis testing vary according to the length of time since cough onset:Less than 2 weeks from cough onset:PCR and cultureBetween 2 and 3 weeks from cough onset:PCR and culture and either oral fluid kit (if aged 2 to <17)</td>More than 3 weeks from cough onset:Either oral fluid kit (if aged 2 - <17 yrs) or serology</td>

Requesting an oral fluid kit:

For cases aged 2 years to less than 17 years, notify the case to your local HPT and they will post an oral fluid kit (OFK) directly to the case. Note that oral fluid testing is not recommended if the case has been immunised against pertussis in the previous year as a positive result cannot be interpreted.

Collection container	Specimen	Sample volume	Request form
(45	Pernasal swab (culture	2)	
	Green viral swab (PCR)	
	Venous blood (serolog	y)	
Sample instructions			
Collection	the nose until it	is inserted through a nostril reaches the nasopharynx. ted before antimicrobial the	and advanced along the floor of rapy started.
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements		al working hours samples sh 8 hours are undesirable.	ould be refrigerated.
Special requirements	No special requi	rements.	
Laboratory information			
Tests	General isolation	n and characterisation of Bor	rdetella species.
Measurement units			
Biological reference units			
Turnaround time	7- 14 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	tly Delays in transp	ortation may affect the recov	very of pathogens.
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Borrelia burgdorferi (Lyme) antibody

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	ments.		
Specimen transport	Specimens should working hours.	be sent to the laboratory	without delay during normal	
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details, dat processing.	Clinical details, date of onset and bite/travel history are essential for processing.		
Laboratory information				
Tests	Detection of Lyme	Detection of Lymes IgM antibody (qualitative). Detection of Lymes IgG antibody (qualitative). Equivocal and positive results will be referred for Borrelia burgdorferi immunoblot.		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

Brucella serology

Used to determine past or current infection. PCR may be carried out at reference laboratory's discretion.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	juirements.		
Specimen transport	Specimens sho working hours		ry without delay during normal	
Storage requirements	Outside of no	rmal working hours samples	should be refrigerated.	
Special requirements		Clinical details and any history of travel or occupational exposure are essential for processing.		
Laboratory information				
Tests	laboratory on parameters ar	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	Haemolysis.	Haemolysis.		

Carbapenemase-producing Enterobacteriaceae (CPE) screen

In response to the increasing numbers of CPE producing clinical isolates of Enterobacteriaceae the Infection Control Team and Microbiology department have produced a protocol for CPE screening and detection. The isolation of a clinical CPE isolate prompts the Infection Control Team to screen all possible patient contacts to reduce the transmission of resistance enzymes within the Trust.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
OID Courses Har + (0)(2)	Rectal swab (Amies transport swab)		
	Stool sample	<20ml	
Sample instructions			
Collection	Faeces specimen similar container Rectal swabs mus		dry, disposable bedpan or priate collection container. swab for optimal sensitivity.
Specimen transport	Specimens should working hours.	l be sent to the laboratory v	vithout delay during normal
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Rectal swabs with no visible faecal material present will be rejected.		
Laboratory information			
Tests	General isolation and characterisation of carbapenemase producing Enterobacteriaceae (qualitative).		
Measurement units	Growth detected or not detected.		
Biological reference units			
Turnaround time	Negative screen 24 hours. Positive result 4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	itly		

Chikungunya, Murray, Ross River, O.Tsusu, Sandfly

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requir	ements.		
Specimen transport	Specimens shoul working hours.	d be sent to the laborator	y without delay during normal	
Storage requirements	Outside of norm	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details, d	ate of onset and travel his	story are essential for processing.	
Laboratory information				
Tests	laboratory on Te parameters anal	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Chlamydia trachomatis antibody

Used to determine past infection during investigations for infertility in women.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	ements.		
Specimen transport	Specimens should working hours.	l be sent to the laborator	y without delay during normal	
Storage requirements	Outside of norma	Outside of normal working hours samples should be refrigerated.		
Special requirements	Testing can only b	Testing can only be carried out on female patients.		
Laboratory information				
Tests	laboratory on Tel- parameters analy	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Chlamydia trachomatis PCR

Collection container	Specimen	Sample volume	Request form
France Artistic 200 Sector Sector 200	Eye, cervical, urethral, throat, rectal swab (Chlamydia transport medium)		
the	Urine (first void) (Chlamydia transport medium)	Minimum volume 2ml	
	Urine (first void)	Minimum volume 2ml	
Sample instructions			
Collection	Urine specimenssubmitted in whittransport mediumEndocervical or sAn endocervical or strachomatis as itvaginal swab.Whnegative result arendocervix with tNB. Only one swaswab must not beMenThe patient shoulapproximately 10universal containEye swabsDo not use fluoreApply a local anaefrom a female PCremaining swab, fcollect epithelial of	submitted from non-Sexual H te topped universal container in in the laboratory. elf-taken vaginal swab wab is the specimen of choice has a higher sensitivity than a hite cells and blood can produ ind thus excess mucus/pus sho he accompanying swab prior b is required for a self-taken te used and should be discarde d not have urinated for at lea -20 mls of first voided urine in	lealth Clinic locations can be s for transfer into Chlamydia a urine sample or a self-taken uce either an invalid or false buld be removed from the to taking the sample. vaginal swab; the cleaning ed. ast one hour. Collect nto a sterile white capped h the test. date using one of the swabs ning swab. Using the of upper and lower eyelids to e swab in the transport

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Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated.		
Special requirements	Urine – patient should not have urinated for 2 hours prior to sample collection.		
Laboratory information			
Tests	Detection of Chlamydia trachomatis nucleic acid (qualitative).		
Measurement units	Presence detected or not detected.		
Biological reference units			
Turnaround time	4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significantly affect the results	 False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. White cells and blood can produce either an invalid or false negative result. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. 		

Chlamydia trachomatis PCR - collection of urine sample

Aptima[®] urine collection kit Collection procedure guide

Collection for male and female urine specimens

Patient should not have urinated for at least 1 hour prior to specimen collection.



Direct patient to provide first-catch urine (approximately 20 to 30 mL of initial urine stream) into urine collection cup free of any preservatives. Collection of larger volumes of urine may result in specimen dilution that may reduce test sensitivity. Female patients should not cleanse labial area prior to providing specimen.

Urine specimen collection guide for:

- Chlamydia trachomatis (CT)
- Neisseria gonorrhoeae (GC)
- Trichomonas vaginalis (TV) for female only

luid is etween black fill lines

Remove cap from urine specimen transport tube and transfer 2 mL of urine into urine specimen transport tube using the disposable pipette provided. The correct volume of urine has been added when the fluid level is between the black fill lines on urine specimen transport tube label. Ter Alt

Re-cap urine specimen transport tube tightly. This is now known as the "processed urine specimen."

Chlamydia trachomatis PCR – collection of vaginal sample



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Chlamydia LGV PCR

Chlamydia LGV PCR would only be performed on a Chlamydia positive rectal sample. To diagnose LGV, different samples from those listed may be indicated; please discuss with Consultant Medical Microbiologist.

Collection container	Specimen	Samala valuma	Doguost form		
Collection container	Specimen	Sample volume	Request form		
Same Arran Arra San Agent for Same Arra San	Rectal swab (Chlamydia transport medium)				
Sample instructions					
Collection	guidelines on th	Specimens should be collected and handled following the recommended guidelines on the collection packs.			
Specimen transport	Specimens shou working hours.	ld be sent to the laboratory	without delay during normal		
Storage requirements	Outside of norm	nal working hours samples s	hould be refrigerated.		
	LGV PCR will on <i>C. trachomatis</i> .	ly be tested on rectal swabs	which have tested positive for		
Special requirements		Currently only samples from patients' assigned male at birth and whose gender identity is male and ALL trans patients will be applicable for LGV PCR.			
Laboratory information					
Tests	laboratory on Te parameters ana	essed at an external referen elephone 01793 604798 if fu lysed in this test and any re be displayed on the report	urther details are required. The ference ranges for these		
Measurement units					
Biological reference units					
Turnaround time	14 days.				
Availability	Routine hours.				
Clinical information					
Factors known to significa affect the results	inappropriate ti ntly of organism belo detection of an	detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by			

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Clostridium difficile toxin

C. difficile is a Gram positive, spore forming, strictly anaerobic rod, so named because of the difficulty in original culture and characterisation. Toxigenic strains produce large protein toxins A and B, both being major virulence factors. Most disease associated with *C. difficile* is intestinal though *C. difficile* may be isolated from blood or tissues.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Stool sample	<20ml	
Sample instructions			
Collection		y be passed into a clean, dry, di transferred to an appropriate (· ·
Specimen transport	Specimens sh working hours	ould be sent to the laboratory v s.	vithout delay during normal
Storage requirements		rmal working hours samples sho [•] 48 hours are undesirable.	ould be refrigerated.
Special requirements	Clostridium di 65yrs or if his Children less t	s are unsuitable for investigatio fficile toxin test performed on i tory of antibiotic-associated dia than 2 years old are unsuitable not performed if a positive resu	n-patient samples, patients over rrhoea. for investigation for C.difficile.
Laboratory information			
Tests		detection (qualitative) and PCR	qualitative), Clostridium difficile ribotyping of Clostridium
Measurement units	Toxin detected or not detected.		
Biological reference units			
Turnaround time	1 day.		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	tly		

Clostridium difficile toxin ribotyping

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Stool sample	<20ml	
Sample instructions			
Collection		v be passed into a clean, dry, di transferred to an appropriate of the second secon	• •
Specimen transport	Specimens sho working hours	ould be sent to the laboratory v 5.	vithout delay during normal
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Investigation performed at request of Infection Control.		
Laboratory information			
Tests	on Telephone analysed in th		•
Measurement units			
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hours		
Clinical information			
Factors known to significant affect the results	tly		

Contact lens

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Contact lens case or sterile container with saline			
Sample instructions				
Collection	No special requirem	ients.		
Specimen transport	Specimens should b working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements		vorking hours samples sh ours are undesirable.	ould be refrigerated.	
Special requirements	No special requirem	No special requirements.		
Laboratory information				
Tests	Gram stain and cult	ure.		
Measurement units	Growth detected or	not detected.		
Biological reference units				
Turnaround time	5 days.			
Availability	Routine hours and c	on-call.		
Clinical information				
Factors known to significant affect the results	ly Delays in transporta	tion may affect the recov	very of pathogens.	

Corneal scrape

Keratitis is an inflammation of the cornea which is a serious condition requiring prompt and meticulous investigation and may progress to perforation and blindness if treatment is unsuccessful. Predisposing factors include prior ocular disease, wearing contact lenses and use of topical corticosteroids. The condition may be caused by a wide range of bacteria, fungi and parasites.

Collection container	Specimen	Sample volume	Request form	
Chocolate agar SAB agar FAA agar Acanthamoeba plate Microscope slide	Aqueous and vitreous humour, corneal scrapings. Direct inoculation onto culture plates and microscope slide	Sufficient quantity to make a visible deposit on to a microscope slide and to inoculate agar plates		
Sample instructions				
Collection	 Performed by traine Performed afte Use sterile need Carefully spread marker) for Gra Carefully smead 	before antimicrobial therapy seed staff according to Trust policy r instillation of local anaesthet dle or loop to scrape base of u d material onto glass slide (circo am staining and/or r material onto agar plate nen to make an impression sm the priority.	cy: cic eye drops lcer cle area with permanent	
Specimen transport	Specimens should b	Specimens should be sent to the laboratory without delay during normal working hours and on-call.		
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements		ory (Telephone 01793 604798) noeba culture,24 hours in advance		
Laboratory information				
Tests	Gram stain and cult	ure.		
Measurement units	Growth detected or	not detected.		
Biological reference units				
Turnaround time	5 days.			
Availability	Routine hours and o	on-call.		
Clinical information				
Factors known to significa affect the results	transported immed	mears are inoculated at the pa iately to the laboratory for pro ation may affect the recovery c	cessing.	
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COVID-19 PCR

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Viral swab in transport media	Nose and throat swab		
Sample instructions				
Collection	bagged. Do not rem	ove viral transport media fro		
Specimen transport	where appropriate t	Specimens should be taken directly to Microbiology during working hours where appropriate to prevent delay of results. Outside working hours samples should be taken to Pathology Reception.		
Storage requirements	Outside of normal w	vorking hours samples should	d be refrigerated.	
Special requirements	Clinical details are essential for processing. Do not ring the laboratory for results. For rapid testing please speak to the Site Managers.			
Laboratory information				
Tests	SARS-CoV2 PCR Test			
Measurement units	N/A			
Biological reference units	N/A			
Turnaround time	Rapid: 2 hours* Routine: 6-8 hours* *From receipt in lab	oratory		
Availability	Weekday: Routine hours Weekend: Routine hours with scope for site approved rapid testing at 16:00			
Clinical information				
Factors known to significar affect the results	viral material pres processing times. Detection of low-lev	ent in the specimen and/ vel viral RNA may not be of cl cannot rule out infections/o	d samples, low or insufficient 'or delays in transport and linical significance. disease from other viral and	

Cryptococcal antigen

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
	CSF	Minimum volume 0.5ml		
Sample instructions				
Collection	Cerebrospinal flui Refer to <u>CSF micro</u>			
Specimen transport	Specimens should working hours.	be sent to the laboratory with	nout delay during normal	
Storage requirements	Outside of normal working hours samples should be refrigerated.			
Special requirements	Clinical details are	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Tele parameters analys	ed at an external reference of phone 01793 604798 if furthe ed in this test and any referer displayed on the report when	er details are required. The neer anges for these	
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.			
Clinical information				
Factors known to significar affect the results	ntly Haemolysis.			

CSF (Cerebrospinal fluid) microscopy and culture

Meningitis is defined as inflammation of the meninges. This process may be acute or chronic and infective or non-infective. Many infective agents have been shown to cause meningitis, including viruses, bacteria, fungi and parasites.

Collection container	Specimen	Sample volume	Request form	
	CSF	Minimum volume 1ml		
Sample instructions				
		ollected before antimicrobial thera ay antibiotic administration if clinica		
	Sample take with Trust p	en using a strict aseptic technique l procedure.	by trained medical staff in lir	
	Dispense C use contain	SF (minimum 0.5ml in each bottle) ers and label in order of removal, p of glucose levels.		
Collection	Bottle 1 – V		the following way:	
		Bottle 2 – Chemistry Last bottle - Microbiology		
	antibiotics aBacteri	ningococcal meningitis/septicaemia already give in community) also ser ial throat swab and request mening plood for <u>meningococcal DNA PCR</u>	nd:	
Specimen transport	Specimens hours. Out reception fi through sw	should be sent to the laboratory w side of normal hours samples shou ridge and the on-call Microbiology itchboard (Telephone 01793 60402 pneumatic chute system if investige	ld be placed in the patholog Biomedical Scientist contact 20).	
Storage requirements	See above.			
Special requirements	-	tact the laboratory when sending ect the CSF sample in 3 consecutive rdingly.	-	
Laboratory information				
Tests	Differential Detection o	f white blood cells and red blood ce of white blood cells (qualitative). of Cryptococcus neoformans capsul of gram positive and negative bacte	es (qualitative).	

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		and characterisation of aerobic, microaerophilic and -organisms (qualitative).	
Measurement units	Cell count x 10 ⁶ /	Ι	
Biological reference units	Leucocytes: Neonates 1 – 12 months Adults Erythrocytes:	0 – 30 cells x 10 ⁶ /l 0 – 20 cells x 10 ⁶ /l 0 – 5 cells x 10 ⁶ /l No red cells should be present in normal CSF*	
Turnaround time	Microscopy 2 hours. Culture 2 days. Significant positive results are communicated to clinicians as and when they arise.		
Availability	Routine hours and on-call.		
Clinical information			
Factors known to significantly affect the results	Cells disintegrate. A delay in transportation may produce a cell count that not reflective of the clinical situation of the patient. Delays in transportation may affect the recovery of pathogens.		

CSF (Cerebrospinal fluid) Oligoclonal bands

The presence of Oligoclonal bands in cerebrospinal fluid combined with their absence in blood serum often indicates that immunoglobulins are produced in central nervous system.

Oligoclonal bands are an important indicator in the diagnosis of multiple sclerosis.

The presence of one band (a monoclonal band) may be considered serious, such as lymphoproliferative disease, or may simply be normal — it must be interpreted in the context of each specific patient. More bands may reflect the presence of a disease. The bands tend to disappear from the cerebrospinal fluid as a person recovers from the neurological disease

Collection container	Specimen	Sample volume	Request form
	CSF	Minimum volume 1ml	
	Venous blood	2 – 6 mls	
Sample instructions			
Collection	Refer to <u>CSF</u>	microscopy and culture.	
Specimen transport	Refer to <u>CSF</u>	microscopy and culture.	
Storage requirements	Refer to <u>CSF</u>	microscopy and culture.	
Special requirements	CSF and a paired venous blood sample are required for testing. Refer to <u>CSF microscopy and culture</u> .		uired for testing.
Laboratory information			
Tests	laboratory or parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.	
Measurement units	mg/dL		
Biological reference units	N/A		
Turnaround time	6 weeks.		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	tly		
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CSF (Cerebrospinal fluid) Viral PCR (Molecular Testing)

The standard viral PCR panel includes Enterovirus, Herpes simplex virus and Varicella-Zoster. Please contact the Microbiology Consultant if extended testing is required.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	CSF	Minimum volume 1ml		
Sample instructions				
Collection	Refer to <u>CSF</u>	Refer to CSF microscopy and culture.		
Specimen transport	Refer to <u>CSF</u>	microscopy and culture.		
Storage requirements	Refer to <u>CSF</u>	microscopy and culture.		
Special requirements	Refer to <u>CSF</u>	microscopy and culture.		
Laboratory information				
Tests	laboratory of parameters parameters requestor. nucleic acid	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. Detection of Enterovirus nucleic acid, Varizella-Zoster virus nucleic acid, Herpes Simplex Virus (HSV) type 1 (HSV-1) and HSV type 2 (HSV-2) nucleic acid (qualitative).		
Measurement units	N/A			
Biological reference units	N/A			
Turnaround time	4 days Significant p arise.	Significant positive results are communicated to clinicians as and when the		
Availability	Routine hou	Routine hours.		
Clinical information				
False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, pre of organism below the detectable limit of the assay. Towards the limid detection of an assay sampling variation will result in lower reproduct New and emerging variants may also occur which may not be detect this assay.			propriate sample, presence assay. Towards the limit of sult in lower reproducibility	

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Culture

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
OID Connerstant (O) (B)	Amies transport swab			
	Collection of pus or exudate			
	Collection of pus or exudate			
Sample instructions				
Collection	Optimally collected	Optimally collected before antimicrobial therapy started.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Please state anato	Please state anatomical site and nature of lesion on request form		
Laboratory information				
Tests	Detection of white blood cells, gram positive and negative bacteria (semi- quantitative) (fluids/pus). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).			
Measurement units	Growth detected or not detected.			
Biological reference units				
Turnaround time	4 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Delays in transpo	rtation may affect the recov	ery of pathogens.	

Cystic fibrosis

Cystic fibrosis (CF) is caused by a defect in the CF transmembrane conductance regulator gene that affects the transport of ions and water across the epithelium. This leads to progressive pulmonary disease associated with pulmonary infections, which are the major cause of morbidity and mortality in CF patients. The major pathogens are *S. aureus*, *H. influenza* (usually non-encapsulated in CF patients), *S. pneumoniae*, *Burkholderia* and pseudomonads, particularly mucoid *P. aeruginosa* strains. Strains of *P. aeruginosa* with differing antibiotic susceptibilities may be isolated from a single sample.

Examinations offered Collection container	Specimen	Sample volume	Request form	
	Cough swab (Amies	•		
And the American Control of the State of the	transport swab)			
	Sputum	Minimum volume 5ml		
Sample instructions				
Optimally collected before antimicrobial therapy started.				
	Sputum specimen	S		
Collection		ry samples for culture.		
concetion	Cough swabs			
	• .		nd cough swabs may be taken	
	from the upper airway as an alternative to sputum samples.			
Specimen transport	-	Specimens should be sent to the laboratory without delay during normal		
	working hours.			
Storage requirements		Outside of normal working hours samples should be refrigerated.		
<u> </u>	Delays of over 48 hours are undesirable.			
Special requirements	No special requirements.			
Laboratory information				
Tests	General isolation a	General isolation and characterisation of aerobic, microaerophilic and		
Tests	anaerobic micro-o	anaerobic micro-organisms (qualitative).		
Measurement units	casurement units Growth detected or not detected.			
Biological reference units				
Turnaround time	4 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
	Delays in transportation may affect the recovery of pathogens.			
Factors known to significant				
affect the results	however, a negative cough swab cannot rule out lower airway infection and			
	persistent sympto	ms should be further investig	ated, for example by BAL.	

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Cytomegalovirus (CMV) serology

Diagnosis of acute/recent or reactivated disease (IgM) or if evidence of past infection/exposure required (IgG).

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirements.			
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of no	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical detail	Clinical details are essential for processing.		
Laboratory information				
Tests	at an externa 01793 604798 this test and a	Detection of CMV IgM and IgG antibody (qualitative). This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

Cytomegalovirus (CMV) PCR

Diagnosis of acute disease.

For diagnosis of congenital CMV send neonatal urine sample within first three weeks of life.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 500µl		
	Urine	Minimum volume 5ml		
Sample instructions				
Collection		ine (microscopy and culture).		
Specimen transport	-	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated.			
Special requirements	CMV DNA I	Clinical details are essential for processing. CMV DNA PCR is a specialist test – outside of these specialties discuss with the Consultant Microbiologist.		
Laboratory information				
Tests	laboratory parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days	14 days		
Availability	Routine ho	Routine hours.		
Clinical information				
False negatives may occur for a variety of inappropriate timing of sample collection of organism below the detectable limit of detection of an assay sampling variation. New and emerging variants may also occur this assay.			propriate sample, presence say. Towards the limit of ult in lower reproducibility	

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Dengue and West Nile virus

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	No special requirements.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Tele parameters analyse	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	itly Haemolysis.			

Diphtheria serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special re	quirements.		
Specimen transport	•	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of no	Outside of normal working hours samples should be refrigerated.		
Special requirements		Clinical details and any history of travel or occupational exposure are essential for processing.		
Laboratory information				
Tests	laboratory or parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significar affect the results	Haemolysis.			

Ear swab culture

Examinations offered			
Collection container	Specimen	Sample volume	Request form
Q BD Country Harris (S) (2)	Ear swab (Amies transport swab)		
Sample instructions			
Collection	Optimally collect	ted before antimicrobial the	rapy started.
Specimen transport	Specimens shou working hours.	Id be sent to the laboratory	without delay during normal
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	For investigation of fungal infection, scrapings of material from the ear canal are preferred, although swabs can also be used.		
Laboratory information			
Tests		n and characterisation of aer p-organisms (qualitative).	obic, microaerophilic and
Measurement units	Growth detected or not detected.		
Biological reference units			
Turnaround time	4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	tly Delays in transp	portation may affect the reco	very of pathogens.

Enteric virus PCR

Diagnosis of acute disease.

Enteric virus screen including:

- Adenovirus
- Astrovirus •
- Rotavirus •
- Sapovirus •
- Norovirus •

Rotavirus, sapovirus, astrovirus and adenovirus are major causes of acute gastroenteritis. The majority of infections occur in infants and young children. Infections in the elderly are also reported for these agents, and chronic infections can result in immunocompromised patients. Norovirus is the cause of epidemic gastroenteritis.

Collection container	Specimen	Sample volume	Request form
	Stool sample	Liquid specimen: 1 – 2ml Formed specimen: large pea size sample	
Sample instructions			
Collection	-	y be passed into a clean, dry, dispo transferred to an appropriate coll	-
Specimen transport	Specimens sho working hours	ould be sent to the laboratory with s.	nout delay during normal
Storage requirements	Outside of no	rmal working hours samples shoul	d be refrigerated.
Special requirements	Clinical details are essential for processing.		
Laboratory information			
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units			
Biological reference units			
Turnaround time	14 days		
Availability	Routine hours	5.	
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Clinical information	
Factors known to significantly affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay.

Enterovirus PCR

Diagnosis of acute disease.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	EDTA blood	Minimum volume 500µl	
	Green viral swab	1mL	
Sample instructions			
Collection	No special requi	rements.	
Specimen transport	Specimens shou working hours.	d be sent to the laboratory witl	nout delay during normal
Storage requirements	Outside of norm	Outside of normal working hours samples should be refrigerated.	
Special requirements	Clinical details a	re essential for processing.	
Laboratory information			
This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are require parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to th requestor.		er details are required. The nce ranges for these	
Measurement units			
Biological reference units			
Turnaround time	14 days		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	inappropriate tir tly of organism belo detection of an a	may occur for a variety of reaso ning of sample collection, inapp ow the detectable limit of the as assay sampling variation will res ng variants may also occur whit	propriate sample, presence ssay. Towards the limit of ult in lower reproducibility

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Epstein Barr virus (EBV) serology

Assay useful in distinguishing individuals who have acquired the infection recently from those who have not (EBV IgM, EBV IgG, EBV confirmation (EBNA)). Detection of EBV IgM is consistent with acute disease, but may also be detectable in chronic or reactivated disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	No special requirements.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norma	Outside of normal working hours samples should be refrigerated.		
Special requirements	(IgM) or if eviden	State whether test for diagnosis of acute/recent or reactivated disease (IgM) or if evidence of past exposure required (IgG). Clinical details are essential to allow for interpretation.		
Laboratory information				
Tests				
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Epstein Barr virus (EBV) PCR

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 500µl		
Sample instructions				
Collection	No special re	quirements.		
Specimen transport	•	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of no	ormal working hours samples shoul	d be refrigerated.	
Special requirements	EBV DNA PC	Clinical details are essential for processing. EBV DNA PCR is a specialist test – outside of these specialties discuss with the Consultant Microbiologist.		
Laboratory information				
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units				
Biological reference units				
Turnaround time	14 days	14 days		
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significar affect the results	 False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. 			

Eye and canalicular pus culture

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Collection of pus or exudate	Minimum volume 1ml of pus	
Contraction Marrie (C.)	Eye swab (Amies transport swab)		
Sample instructions			
Collection	Collection of pus or tiny amounts, then microflora.	before antimicrobial therapy s exudate is always preferable t sample the deepest part of the llel to the cornea and gently ru	o swabs, except when in e wound avoiding superficial
Specimen transport	Specimens should b working hours.	e sent to the laboratory withc	ut delay during normal
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.	
Special requirements		Separate samples should be collected into appropriate transport media for detection of <u>viruses</u> or <u>C.trachomatis</u> .	
Laboratory information			
Tests	quantitative). General isolation an	blood cells, gram positive and d characterisation of aerobic, ganisms (qualitative).	
Measurement units	Growth detected or	not detected.	
Biological reference units			
Turnaround time	4 days, plus 2 days f	or enrichment culture (pus).	
Availability	Routine hours and c	on-call (pus).	
Clinical information			
Factors known to significar affect the results	ntly Delays in transporta	ition may affect the recovery o	of pathogens.

Faeces culture

Collection container	Specimen	Sample volume	Request form
	Stool sample	Liquid specimen: 1 – 2ml Formed specimen: large pea size sample	
Sample instructions			
Collection	Specimen may	cted before antimicrobial therapy s be passed into a clean, dry, disposa transferred to an appropriate collec	able bedpan or similar
Specimen transport	Specimens sho working hours.	uld be sent to the laboratory witho	ut delay during normal
Storage requirements	Outside of nor	nal working hours samples should 48 hours are undesirable.	be refrigerated.
Special requirements	Please provide	information regarding recent forei	gn travel and antibiotic use
Laboratory information			
Tests	Presence and id Detection of Cy (qualitative). General isolatio anaerobic micr <u>Clostridium diff</u> 65yrs or if histo <u>Rotavirus</u> test p <u>Norovirus</u> test the investigatio <u>Parasitology</u> te clinical syndror Repeat sample Microbiologists	sessment of consistency/appearan dentification Cryptosporidium and o vclospora sp, Isospora sp and Crypto on and characterisation of aerobic, o-organisms (qualitative). ficile toxin test performed on in-par ory of antibiotic-associated diarrhoo performed on samples from childre performed only on instruction by th on of outbreaks. st performed on samples depender me. s for microbiological clearance not s will advise if necessary. not performed on in-patient stools the same in-patient episode.	Giardia lamblia (qualitative osporidium sp oocysts microaerophilic and tient samples, patients ove ea. n <5 years. ne Infection Control Team nt on travel history and usually required –
Measurement units	Growth detect	ed or not detected.	
Biological reference units			
Turnaround time	4 days. Significant posi arise.	tive results are communicated to c	linicians as and when they
Availability	Routine hours.		

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Clinical information

Factors known to significantly affect the results Delays in transportation may affect the recovery of pathogens.

aneer the results

Faecal Calprotectin

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Stool sample	Liquid specimen: 1 – 2ml Semi-formed: large pea size sample	
Sample instructions			
Collection	container and trans	assed into a clean, dry, disposa ferred to an appropriate colled	ction container.
Specimen transport	working hours.	be sent to the laboratory witho	
Storage requirements		working hours samples should ozen on receipt into the labora ble.	-
Special requirements	Faecal Calprotectin Childrens Unit.	is only available for GP patient	ts, Gastroenterology and
Laboratory information			
Tests	Faecal Calprotectin		
Measurement units	μg/g		
Biological reference units		lence of IBD ermediate (Please repeat) ely, refer to Gastroenterology	
Turnaround time	7 days		
Availability	Routine hours.		
Clinical information			
	Liquid stools are p	processed by the Immunolog	gy Department in Bristol.
	Formed stools are	e inappropriate for testing a	nd will be rejected.
Factors known to significan affect the results	-	re taking non-steroidal re elevations in their faecal o	, .
	•	uld be interpreted in conju ata to assist clinicians in ma	

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Fluids from normally sterile sites

The detection of organisms in fluids that are normally sterile indicates significant infection, which can be life-threatening. Specimens may be taken primarily for culture or this may be incidental to the prime reason for obtaining the specimen.

Blood cultures may be positive with the same infecting organism, and occasionally may be positive when culture of the fluid fails to reveal the organism.

Fluids will be sterile in the absence of infection, as will "sympathetic effusions", and those of immunological or traumatic origin and those due to metabolic disease or heart failure.

Signs of infection may be difficult to detect clinically in patients whose joints are already inflamed due to rheumatological conditions. This is important because these patients are at increased risk of joint sepsis. Do not remove or cover barcodes on bottles as these are required by the laboratory.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Collection of amniotic fluid, bursa pericardial fluid, synovial (joint) fluid, peritoneal fluid (ascites), pleural fluid.	Minimum volume 1ml		
		Inoculate with the recommended volume of 8-10mL in each adult bottle, or 1-3mL for paediatric bottles.		
Sample instructions				
	Optimally collected	before antimicrobial therapy	v started.	
	Samples include:			
	Ascitic fluid: ?spontaneous bacterial peritonitis			
	CAPD fluid: ?PD per			
	Pleural fluid: ?empyema			
Collection		Synovial or bursa fluid: ?septic arthritis or bursitis Vitreous fluid: ?endophthalmitis		
	Samples taken using strict aseptic technique – by trained medical staff in			
	line with Trust procedure. Ideally a minimum volume of 1ml should be collected.			
	•			
	where adequate sa	mple, inoculate also into blo	où culture bottle set.	
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Specimen transport	 Note: Fluids from existing indwelling drains are not considered to be 'sterile'. As with urinary catheters, drains commonly become colonised and any culture of fluid taken through them may simply reflect colonisation rather than infection. Drain fluid samples should be sent only where there is a high degree of suspicion of infection. Specimens should be sent to the laboratory without delay during normal working hours. 	
Storage requirements	Outside of normal working hours samples should be refrigerated.	
Special requirements	Clinical details are essential for processing. Total cell counts performed on Ascitic fluid SBP patients only.	
Laboratory information		
Tests	Presence of white blood cells (quantitative) (ascitic fluid only). Detection of crystals (qualitative).(synovial fluid only). Detection of white blood cells, gram positive and negative bacteria (semi- quantitative). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).	
Measurement units	Cell count x 10 ⁶ /l	
Biological reference units	Total white cell <500 cells x 10 ⁶ /l count	
Turnaround time	Microscopy 2 hours. Culture 5 days.	
Availability	Routine hours and on-call.	
Clinical information		
Factors known to significantly affect the results	 Small volumes – fluids such as synovial fluids may be received inadequate volumes which may impede the recovery of organisms. Large volumes – specimens such as peritoneal fluid and ascetic fluid may contain very low numbers or organisms which are usually received in adequate quantities and require concentration to increase likelihood of successful culture. Cells disintegrate. A delay in transportation may produce a cell count that is not reflective of the clinical situation of the patient. Delays in transportation may affect the recovery of pathogens. 	

Genital swab culture (female)

Collection container	Specimen	Sample volume	Request form
	HVS, vaginal discharge,		
	vulval swab, labial swab,		d management
QBD Catardinates Mart + @ 3 1	cervical swab,		
	endocervical swab,		
	urethral swab (Amies		
	transport swab)		
Sample instructions			
	Optimally collected	before antimicrobial ther	apy started.
	Genital tract swabs	;	
	-	-	en with the aid of a speculum. It
	-		the swab. For Trichomonas, the
			lal plaques should be swabbed. If
	pelvic infection, incl swabbed.	luding gonorrhoea, is susp	pected, the cervical os should be
	High vaginal swabs		
	After the introduction of the speculum, the swab should be rolled firmly over		
Collection	the surface of the vaginal vault.		
	Cervical swabs		
	After introduction of the speculum to the vagina, the swab should be rotated		
	inside the endocerv	vix.	
	Urethral swabs		
	Contamination with micro-organisms from the vulva should be avoided. Thin		
	swabs are available for collection of specimens. The patient should not have passed urine for at least one hour.		
	passed unne for at	least one nour.	
	Please send endoce	rvical swab if gonococcal	culture is required.
			propriate transport media for
	detection of <u>viruses</u> or <u>C. trachomatis</u> .		
Specimen transport	•	e sent to the laboratory v	vithout delay during normal
	working hours.		
Storage requirements		vorking hours samples sho	ould be refrigerated.
		ours are undesirable.	
Special requirements		essential for processing.	
· ·	Female genital swal	os for gonococcal investig	ation should not be refrigerated.
Laboratory information			
		lood cells, red blood cells	-
Fests	Trichomonas vaginialis, clue cells (quantitative). General isolation and characterisation of aerobic, microaerophilic and		
		id characterisation of aero ganisms (qualitative).	buc, microaerophilic and
Measurement units	Growth detected or		
vicasui ciniciit ullits		חטו עבובנובט.	

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Biological reference units	
Turnaround time	4 days.
Availability	Routine hours.
Clinical information	
Factors known to significantly affect the results	Delays in transportation may affect the recovery of pathogens. Female genital swabs for gonococcal investigation should not be refrigerated as this significantly reduces the recovery rate. Delays in transportation may reduce the recovery of Neisseria gonorrhoea.

Genital specimens (excluding female genital swabs)

Examinations offered			
Collection container	Specimen	Sample volume	Request form
QID Consum Var (Q) ()	Penile swab, urethral swab, screening swabs for Neisseria gonorrhoea (Amies transport swab)		
	Intra-uterine contraceptive device (IUCD)	Entire device should be sent	
	Collection of pus or exudate	Minimum volume 1ml	
Sample instructions			

Optimally collected before antimicrobial therapy started.

Urethral swabs

		Contamination with micro-organisms from the vulva or the foreskin should be avoided. Thin swabs are available for collection of specimens. The patient should not have passed urine for at least one hour. For males, if a discharge is not apparent, attempts should be made to "milk" exudate from the penis. The swab is gently passed through the urethral meatus and rotated.
6	llection	Intrauterine contraceptive devices (IUCDs) The entire device should be sent.
co	metton	Rectal swabs Rectal swabs are taken via a proctoscope.
		Throat swabs Throat swabs should be taken from the tonsillar area and/or posterior pharynx avoiding the tongue and uvula.
		Fluids and pus These are taken from the fallopian tubes, tubo-ovarian and Bartholin's abscesses, etc, taken during surgery.
		Separate samples should be collected into appropriate transport media for detection of <u>viruses</u> or <u>C. trachomatis</u> .
Sp	ecimen transport	Specimens should be sent to the laboratory without delay during normal working hours.
Sto	orage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.
Sp	ecial requirements	Clinical details are essential for processing. Genital swabs for gonococcal investigation should not be refrigerated.
La	boratory information	
Те	sts	Detection of white blood cells, gram positive and negative bacteria (semi- quantitative) (fluids and pus only). General isolation and characterisation of aerobic, microaerophilic and
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Department of Microbiology

	anaerobic micro-organisms (qualitative).		
Measurement units	Growth detected or not detected.		
Biological reference units			
Turnaround time	4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significantly affect the results	Delays in transportation may affect the recovery of pathogens. Genital swabs for gonococcal investigation should not be refrigerated as this significantly reduces the recovery rate. Delays in transportation may reduce the recovery of Neisseria gonorrhoea.		

Haemophilus Antibody

Determination of immunity.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	ements.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norma	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Tele parameters analy	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

Helicobacter pylori IgG

Infection with *H. pylori* is associated with peptic ulceration. There is evidence that it may play an important role in non-ulcer dyspepsia.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	quirements.		
Specimen transport	Specimens sh working hours	ould be sent to the laboratory s.	without delay during normal	
Storage requirements	Outside of no	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of H	Helicobacter pylori IgG antiboo	dy (qualitative).	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significa affect the results	Haemolysis.			

Hepatitis A virus (HAV) IgG

Used to screen for Hepatitis past infection or immunity. Positive result indicates exposure at some time. Test is performed on the assumption that this is a screening test for immunity. If patient acutely icteric or acute infection suspected then request Hepatitis A IgM.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details and	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of Hepat	itis A IgG antibody (qualitativ	ve).	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significan affect the results	Haemolysis.			

Hepatitis A virus (HAV) IgM

For diagnosis of acute Hepatitis A infection (jaundice in adults). Hepatitis A in adults does NOT present as abnormal liver functions. It invariably presents as an acute icteric disease (jaundice). It does not cause chronic disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special req	uirements.		
Specimen transport	Specimens sho working hours		y without delay during normal	
Storage requirements	Outside of nor	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of H	Detection of Hepatitis A IgM antibody (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Hepatitis B virus (HBV) confirmation

Routinely performed on sample if newly detected HBV surface Ag, for confirmatory purposes and to help assess timing and infectivity of disease. Also used to monitor response to treatment.

The test consists of HBV surface antigen, HBV surface antigen confirmation, HBV core total antibody, HBV core IgM, HBV e antigen and HBV e antibody.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requi	rements.		
Specimen transport	Specimens shou working hours.	d be sent to the laborator	y without delay during normal	
Storage requirements	Outside of normal working hours samples should be refrigerated.			
Special requirements	Clinical details a	re essential for processing		
Laboratory information				
Tests	laboratory on Te parameters anal	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.			
Clinical information				
Factors known to significant affect the results	tly Haemolysis.	Haemolysis.		

Hepatitis B virus (HBV) Total Antibody

HBV core antibody serves as a marker of past infection.

Where HBV core antibody is detected, further testing for presence of HBV surface antibody will automatically be performed if sufficient serum.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requi	rements.		
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norm	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details a	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of He	Detection of Hepatitis B core IgG antibody (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	Haemolysis.			

Hepatitis B virus (HBV) core IgM antibody

HBV core antibody serves as a marker of past infection. Investigation performed during routine infectious disease screening for patients undergoing infertility treatment.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requ	uirements.		
Specimen transport	Specimens sho working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of nor	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of He	epatitis B core IgM antibody	(qualitative).	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Hepatitis B virus (HBV) surface antibody

Test to determine if protective immunity has been achieved following immunisation.

Low levels HBV surface antibody may be found in patients who have past infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Accurate interpreta	Should be tested 6-8 weeks after final dose of Hepatitis B vaccination. Accurate interpretation of this result is reliant upon detailed vaccination history and clinical details.		
Laboratory information				
Tests	Detection of Hepat	itis B surface antibody (qualitative).	
Measurement units	IU/L			
Biological reference units	level of ≥10 IU/L in	Current national recommendations (as per DOH <u>Green Book</u>) are that a level of \geq 10 IU/L indicates adequate immunity, although a post vaccination level of \geq 100 IU/L is desirable.		
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	tly Haemolysis.			

Hepatitis B virus (HBV) surface antigen

For diagnosis of acute or recent hepatitis or carrier state.

If first diagnosis of HBV infection a repeat venous blood sample from patient is required to confirm the result.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requ	irements.		
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norm	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details a	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of He	Detection of Hepatitis B surface antigen (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Hepatitis B virus (HBV) viral load (PCR)

Indications for testing:

- Detection of viraemia in patients with chronic hepatitis B infection.
- Investigation of possible transmission of hepatitis B e.g. following exposure to blood or body fluids of an infected patient.
- Monitoring effectiveness of anti-viral therapy in patients with chronic hepatitis B infection.
- Measurement of hepatitis B viral load in e antigen negative hepatitis B infected health care workers who perform exposure prone procedures (Health Service Circular 2000/020).

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	EDTA blood	2 – 6 mls	
Sample instructions			
Collection	No special requir	ements.	
Specimen transport	Specimens shoul working hours.	d be sent to the laboratory	without delay during normal
Storage requirements	Outside of norma	al working hours samples sh	nould be refrigerated.
Special requirements	Clinical details ar	e essential for processing.	
Laboratory information			
Tests	laboratory on Te parameters analy	ssed at an external reference lephone 01793 604798 if fu ysed in this test and any ref be displayed on the report v	rther details are required. The erence ranges for these
Measurement units			
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	inappropriate tin Iy of organism belo	w the detectable limit of th ssay sampling variation will	asons, for example appropriate sample, presence e assay. Towards the limit of

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Hepatitis C virus (HCV) antibody

Marker of infection at some time.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should I working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details and	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	Detection of Hepat	itis C antibody (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Hepatitis C virus (HCV) genotype

Assay used to determine the HCV genotype of patients known to be HCV positive and who are undergoing treatment.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	quirements.		
Specimen transport	Specimens sh working hour	ould be sent to the laboratory s.	without delay during normal	
Storage requirements	Outside of no	rmal working hours samples s	hould be refrigerated.	
Special requirements	Clinical detail	s are essential for processing.		
Laboratory information				
Tests	laboratory on parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significant affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibilit New and emerging variants may also occur which may not be detected by this assay.			

Hepatitis C virus (HCV) viral load

Quantitative assay used for monitoring patients known to be HCV positive and who are undergoing treatment.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou	hould be sent to the laboratory irs.	/ without delay during normal	
Storage requirements	Outside of n	ormal working hours samples s	should be refrigerated.	
Special requirements	Clinical deta	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hou	rs.		
Clinical information				
Factors known to significant affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibilit New and emerging variants may also occur which may not be detected by			

Hepatitis D (delta) Virus

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requir	ements.		
Specimen transport	Specimens shoul working hours.	d be sent to the laboratory	without delay during normal	
Storage requirements	Outside of norma	Outside of normal working hours samples should be refrigerated.		
Special requirements		This test is only carried out on individuals with active hepatitis B infection. Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Tel parameters analy	ssed at an external referen ephone 01793 604798 if fu ysed in this test and any ref be displayed on the report	Irther details are required. The ference ranges for these	
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.			
Clinical information				
Factors known to significant affect the results	t ly Haemolysis.			

Hepatitis E IgM

Hepatitis E IgG available at request. For immunocompromised and pregnant patients please consider testing for HEV PCR.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should I working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are essential for processing.			
Laboratory information				
Tests	laboratory on Telep parameters analyse	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Hepatitis E virus (HEV) PCR

Quantitative assay used for monitoring patients known to be HEV positive or for immunocompromised and pregnant patients.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou	hould be sent to the laboratory rs.	v without delay during normal	
Storage requirements	Outside of n	ormal working hours samples s	hould be refrigerated.	
Special requirements	Clinical deta	ils are essential for processing.		
Laboratory information				
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hou	Routine hours.		
Clinical information				
Factors known to significan affect the results	inappropriat tly of organism detection of New and em	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility New and emerging variants may also occur which may not be detected by this assay.		

Herpes simplex virus (HSV) antibody

Used to determine past infection. HSV IgG serology is of limited clinical significance in the diagnosis of active infection. Please refer to HSV DNA.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Tele parameters analyse	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Herpes simplex virus (HSV) DNA

Examinations offered			
Collection container	Specimen	Sample volume	Request form
And the second s	Lesion swab (virus transport medium)/effected mucous membranes		
	EDTA	2 – 6 mls	
Sample instructions			
Collection	membranes.	range Aptima swab of vesic special requirements.	le fluid or affected mucous
Specimen transport	Specimens shoul working hours.	d be sent to the laboratory	without delay during normal
Storage requirements	Outside of norm	al working hours samples s	hould be refrigerated.
Special requirements		e essential for processing. efer to <u>CSF (Cerebro-spinal</u>	fluid) virology PCR.
Laboratory information			<u></u>
Tests	Detection of HSV type 1 (HSV-1) and HSV type 2 (HSV-2) nucleic acid. HSV PCR from blood is processed at an external reference centre. Cont the laboratory on Telephone 01793 604798 if further details are requir The parameters analysed in this test and any reference ranges for thes parameters will be displayed on the report when it is returned to the requestor.		rnal reference centre. Contact if further details are required. y reference ranges for these
Measurement units	Qualitative		
Biological reference units			
Turnaround time	Swab: 7 days Blood: 14 days		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	inappropriate tir tly of organism belo detection of an a	w the detectable limit of th assay sampling variation wil	easons, for example nappropriate sample, presence ne assay. Towards the limit of I result in lower reproducibility which may not be detected by

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HIV-1 and 2 antigen/antibodies and p24 antigen

For diagnosis of HIV infection.

If first diagnosis of HIV infection a repeat venous blood sample from patient is required to confirm the result.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	No special requirements.		
Specimen transport	Specimens should I working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements		Clinical details and date of onset are essential for processing. All requests for HIV investigations must include the Doctor's signature on the request form.		
Laboratory information				
Tests	Detection of HIV-1	Detection of HIV-1 and 2 antigen/antibodies plus p24 antigen (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.	7 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

HIV confirmation

HIV confirmation would only be performed on a HIV positive sample.

The test consists of HIV antigen/antibody confirmation, HIV antigen and HIV antibody, and may include a HIV line immunoassay.

Examinations offered						
Collection container	Specimen	Sample volume	Request form			
	Venous blood	2 – 6 mls				
Sample instructions						
Collection	No special requi	rements.				
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.				
Storage requirements	Outside of norm	al working hours samples s	hould be refrigerated.			
Special requirements	Clinical details are essential for processing.					
Laboratory information						
Tests	laboratory on Te parameters ana	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.				
Measurement units						
Biological reference units						
Turnaround time	14 days.					
Availability	Routine hours.	Routine hours.				
Clinical information						
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.				

HIV resistance, integrase, tropism

HIV resistance markers would only be performed on a HIV positive sample. This test is exclusively only available to the Great Western Hospital Sexual Health department.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	EDTA blood	2 – 6 mls			
Sample instructions					
Collection	No special re	equirements.			
Specimen transport	Specimens s working hou	hould be sent to the laboratory irs.	/ without delay during normal		
Storage requirements	Outside of n	ormal working hours samples s	should be refrigerated.		
Special requirements	Clinical deta	ils are essential for processing.			
Laboratory information					
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Th parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units					
Biological reference units					
Turnaround time	14 days.				
Availability	Routine hou	rs.			
Clinical information					
Factors known to significant affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, present of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibili New and emerging variants may also occur which may not be detected b this assay.				

HIV – Maternal Transmission (neonates)

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of n	ormal working hours samples s	hould be refrigerated.	
Special requirements	 Requires: a single maternal EDTA at birth neonatal EDTA samples at birth, 3, 6 and 9 months of age. 			
Laboratory information				
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Th parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significant affect the results	tly			

HIV viral load

Quantitative assay used for monitoring patients known to be HIV positive. Please liaise with the Sexual Health Department if testing is required.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	EDTA blood	2 – 6 mls			
Sample instructions					
Collection	No special re	equirements.			
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.				
Storage requirements	Outside of n	ormal working hours samples	should be refrigerated.		
Special requirements	Clinical details are essential for processing.				
Laboratory information					
Tests	Detection of HIV viral copies (Quantitative)				
Measurement units	Copies / ml				
Biological reference units					
Turnaround time	48 hours	48 hours			
Availability	Routine hou	rs.			
Clinical information					
Factors known to significan affect the results	inappropriat of organism detection of	detection of an assay sampling variation will result in lower reproducibility New and emerging variants may also occur which may not be detected by			

Human herpes virus 6 (HHV) PCR

For diagnosis of HHV infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou	hould be sent to the laboratory irs.	/ without delay during normal	
Storage requirements	Outside of n	ormal working hours samples s	should be refrigerated.	
Special requirements	Clinical deta	ils are essential for processing.		
Laboratory information				
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Th parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hou	rs.		
Clinical information				
Factors known to significant affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, pres of organism below the detectable limit of the assay. Towards the limit detection of an assay sampling variation will result in lower reproduci New and emerging variants may also occur which may not be detecte this assay.			

Human T lymphotrophic virus (HTLV) 1 and 2 serology

Used to determine past or current infection.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Venous blood	2 – 6 mls			
Sample instructions					
Collection	No special require	ements.			
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of norma	I working hours samples	should be refrigerated.		
Special requirements	Clinical details are	Clinical details are essential for processing.			
Laboratory information					
Tests	laboratory on Tel parameters analy	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor			
Measurement units					
Biological reference units					
Turnaround time	14 days.	14 days.			
Availability	Routine hours.	Routine hours.			
Clinical information					
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.			

Hydatid serology

Used to determine past or current infection.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Venous blood	2 – 6 mls			
Sample instructions					
Collection	No special requ	uirements.			
Specimen transport	Specimens sho working hours.		ry without delay during normal		
Storage requirements	Outside of nor	mal working hours samples	should be refrigerated.		
Special requirements	Clinical details are essential for processing.				
Laboratory information					
Tests	laboratory on T parameters an	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units					
Biological reference units					
Turnaround time	14 days.	14 days.			
Availability	Routine hours.				
Clinical information					
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.			

Influenza A/B rapid PCR

Diagnosis of acute disease.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Virus swab in transport media	Throat swab			
Sample instructions					
Collection	No special require	ments.			
Specimen transport	Specimens should working hours.	be sent to the laboratory	without delay during normal		
Storage requirements	Outside of normal	working hours samples sl	hould be refrigerated.		
Special requirements	 Routine flu screening is currently not available. Only the following patient groups will be tested: Critical Care patients Paediatric patients Oncology/Haematology patients Any other requests must be assessed by Infection Control or a Microbiology Consultant. Clinical details are essential for processing. 				
Laboratory information					
Tests	Influenza A/B rapid PCR test				
Measurement units					
Biological reference units					
Turnaround time	2 hours				
Availability	Routine hours.				
Clinical information					
Factors known to significan affect the results	tly				

JC virus PCR

Diagnosis of acute disease.

Collection container	Specimen	Sample volume	Request form
	EDTA blood	2 – 6 mls	
	Urine	Minimum volume 5ml	
	CSF	Minimum volume 0.5ml	
Sample instructions			
Collection	Refer to <u>CSF</u> Urine	nal fluid (CSF) - microscopy and culture. ne (microscopy and culture).	
Specimen transport	Specimens s working hou	should be sent to the laboratory wit urs.	hout delay during normal:
Storage requirements	Outside of r	normal working hours samples shou	Id be refrigerated.
Special requirements	Clinical details are essential for processing.		
Laboratory information			
This test is processed at an external reference centre. Contact laboratory on Telephone 01793 604798 if further details are r parameters analysed in this test and any reference ranges for parameters will be displayed on the report when it is returned requestor.			er details are required. The ence ranges for these
Measurement units	•		
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hou	Irs.	
Clinical information			
Factors known to significant affect the results	inappropria tly of organism detection of	ves may occur for a variety of reaso te timing of sample collection, inap below the detectable limit of the a f an assay sampling variation will re nerging variants may also occur whi	propriate sample, presence issay. Towards the limit of sult in lower reproducibility.
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Legionella urinary antigen

Diagnosis of acute disease.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Urine	Minimum volume 5ml			
	Urine	Minimum volume 1ml			
Sample instructions					
Collection	If less than ! white toppe	of 5ml is required. 5ml of urine is anticipated, or collecti ed universal container. <u>nes (Microscopy and Culture)</u> .	ng from a child, collect in to a		
Specimen transport		should be sent to the laboratory with	out delay during normal		
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.				
Special requirements	Clinical details are essential for processing. The British Thoracic Society do not recommend testing unless moderate to high severity pneumonia in hospitalised patients. Will be tested only if clinical details indicate severe pneumonia on request form or where epidemiologically indicated (e.g. atypical features or associated with known <i>Legionella</i> outbreak).				
Laboratory information					
Tests		f Legionella pneumophila antigen (qu <i>ionella pneumophila</i> serotype 01 only	•		
Measurement units	Antigen det	ected or not detected.			
Biological reference units					
Turnaround time	1 day.				
Availability	Routine hours.				
Clinical information					
Factors known to significan affect the results	tly				

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Leptospira serology

Used to determine past or current infection.

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Venous blood	2 – 6 mls			
Sample instructions					
Collection	No special req	uirements.			
Specimen transport		Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of nor	Outside of normal working hours samples should be refrigerated.			
Special requirements		State date of onset, nature of symptoms and exposure history are essential for processing.			
Laboratory information					
Tests	laboratory on parameters ar	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units					
Biological reference units					
Turnaround time	14 days.				
Availability	Routine hours	Routine hours.			
Clinical information					
Factors known to significan affect the results	tly Antibody dete Haemolysis.	ction earliest at 7 days post	onset of symptomatic disease.		

Measles (diagnostic)

To determine recent/acute disease. For patients who present later into the rash phase of illness.

Diagnosis of measles can usually be made clinically. Characteristic 3-5 days prodromal illness of fever, coryzal symptoms, cough and conjunctivitis. Maculo-papular rash then develops starting behind the ears and spreading down to trunk and arms. Viral shedding from upper respiratory tract is highest from 4 days before to 4 days post onset of rash.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Tea.	Green viral swab	1mL		
Sample instructions				
Collection	Send a viral (green	top) swab from throat for	r PCR.	
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details and	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	laboratory on Tele parameters analys	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	itly Haemolysis.	Haemolysis.		

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Measles IgG (immunity)

To determine serological evidence of past infection/vaccination where history is uncertain.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Venous blood	2 – 6 mls	
Sample instructions			
Collection	No special rec	quirements.	
Specimen transport	Specimens sh working hour		y without delay during normal
Storage requirements	Outside of normal working hours samples should be refrigerated.		
Special requirements	No special requirements.		
Laboratory information			
Tests	Detection of I	Measles IgG antibody (semi-c	juantitative).
Measurement units	AU/mL		
Biological reference units	<13.5 – Susceptible 13.5-16.5 – Equivocal, treat as susceptible >16.5 – Immune		
Turnaround time	7 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significan affect the results	tly Haemolysis.		

Meningococcal antibody

Neisseria meningitidis functional antibody to serogroups A, C, W, Y and B.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	ments.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are essential for processing.			
Laboratory information				
Tests	laboratory on Tele parameters analys	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	4 weeks.	4 weeks.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	tly Haemolysis.			

Meningococcal PCR

Meningococcal DNA detection by PCR.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
	CSF	Minimum volume 0.5ml		
Sample instructions				
Collection	Cerebrospinal fluic Refer to <u>CSF micro</u>			
Specimen transport	Specimens should working hours.	be sent to the laboratory with	nout delay during normal	
Storage requirements	Outside of normal	working hours samples should	d be refrigerated.	
Special requirements	blood sample.	le is available, this should be s essential for processing.	sent in addition to an EDTA	
Laboratory information				
Tests	laboratory on Tele parameters analyse	ed at an external reference ce ohone 01793 604798 if furthe ed in this test and any referen displayed on the report wher	er details are required. The ace ranges for these	
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly starting antibiotics after commencement	positive result decreases as the lengthens. Samples for PCR t ent of antibiotic therapy are u emain "positive" for longer pe	taken more than 48 hours Inlikely to give useful	

Mouth swab

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
OID CANNER WAY OF	Mouth swab (Amies transport swab)			
Sample instructions				
Collection	To assure that the comparable it is a Eat or drink w Brush their te Use any mout Sample pus if pres A tongue depresso	d before antimicrobial thera preconditions of the sampl dvised that patients should within 2 hours eth within 2 hours th rinse of disinfectant within ent otherwise sample any le for or spatula may be helpful m other parts of the mouth	ing for oral infections are not: n 2 hours prior to sampling esions or inflamed areas. to aid vision and avoid	
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	No special require	ments.		
Laboratory information				
Tests		General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).		
Measurement units	Growth detected	Growth detected or not detected.		
Biological reference units				
Turnaround time	4 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significant affect the results	ly Delays in transpor	tation may affect the recove	ery of pathogens.	

MPox

Requests should be discussed initially with the Microbiology Consultant, and if considered high risk of the Imported Fever Service at the Rare and Imported Pathogens Laboratory should be contacted to ensure testing is expedited.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Vesicle swab Throat swab	1mL		
Sample instructions				
Collection	-	Specimens should be collected and handled following the recommended guidelines on the collection packs.		
Specimen transport	Specimens sh working hour	ould be sent to the laboratory s.	without delay during normal	
Storage requirements	Outside of no	ormal working hours samples s	hould be refrigerated.	
Special requirements	Urine – patie collection.	Urine – patient should not have urinated for 2 hours prior to sample collection.		
Laboratory information				
Tests	laboratory or parameters a	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units	Presence det	Presence detected or not detected.		
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significant affect the results	inappropriate of organism b detection of a ly New and eme this assay. Please note t continue with	pelow the detectable limit of than assay sampling variation wi	nappropriate sample, presence ne assay. Towards the limit of Il result in lower reproducibility which may not be detected by negative, the individual must nstructed by their local health	

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MRSA

Most MRSA infections are healthcare-associated, but an increasing number of infections are communityacquired, with patients having no established risk factors for acquisition of MRSA.

	Specimen	Sample volume	Request form
	Nose swab, groin swab,		Admission screen:
OBD Conversion Mart + O D	perineum swab,		
	manipulated wound site		
	swabs (Amies transport swab)		
	Urine	Recommended optimal	— Discharge screen:
A manual and a manua		volume of 1 -5mL.	
Sample instructions			
Collection	MRSA screen swabs wounds, skin lesions rejected.	before antimicrobial therapy should be obtained from no s or invasive devices. Specim rm needs to be sent per patio MRSA Policy.	se, groin/perineum and othe ens from other sites will be
	Urine Refer to <u>Urine (micro</u>	oscopy and culture).	
Specimen transport		e sent to the laboratory with	out delay during normal
Storage requirements	Outside of normal w Delays of over 48 ho	vorking hours samples should ours are undesirable.	l be refrigerated.
Special requirements	No special requirement	ents.	
aboratory information			
ſests	General isolation and	d characterisation of MRSA (qualitative).
Measurement units	Growth detected or	not detected.	
Biological reference units			
Turnaround time	Negative results 24 h Positive results 3 day		
Availability	Routine hours.	y3.	
-			
Clinical information			

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Mumps (diagnostic)

Used to determine disease progression in individuals infected with mumps.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
	Green viral swab	1mL		
Sample instructions				
Collection	Send a viral (gree	en top) swab from throat fo	r PCR.	
Specimen transport	Specimens shoul working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norma	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details ar	Clinical details and date of onset are essential for processing.		
Laboratory information				
Tests	laboratory on Te parameters analy	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Mumps IgG (immunity)

Used to determine immune status to mumps.

Examinations offered					
Collection container	Specimen Sample volume Request form				
	Venous blood	2 – 6 mls			
Sample instructions					
Collection	No special requ	No special requirements.			
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.			
Storage requirements	Outside of normal working hours samples should be refrigerated.				
Special requirements	No special requirements.				
Laboratory information					
Tests	Detection of Mumps IgG antibody (semi-quantitative).				
Measurement units	AU/mL				
Biological reference units	<9.0 – Susceptible 9.0-11.0 – Equivocal, treat as susceptible >11.0 – Immune				
Turnaround time	7 days.				
Availability	Routine hours.				
Clinical information					
Factors known to significan affect the results	tly Haemolysis.				

Mycobacteria

Collection container	Specimen	Sample volume	Request form
	Sputum, gastric washing, sterile site body fluids (CSF, pleural fluids etc), skin or tissue biopsies, bone marrow, bronchoalveolar washings, bone and bone marrow, lymph node and tissue samples	1mL of Sputum 5mL of BAL 6mL of CSF	
	Urine	Early morning urine on three consecutive days, 250ml container	
	Heparin blood	2 – 6 mls	
Sample instructions			
	contamination. Purulent specimens are best. Three samples of ≥5mL should be collected approximately 8-24 hours apart with at least one from early morning. Samples taken early morning (ie shortly after patient waking) have the greatest yield. When the cough is dry, physiotherapy, postural drainage or inhalation of nebulised saline ('sputum induction') before expectoration may be helpful.		
Collection	Bronchoalveolar lavage/bronchial washings These may be sent if spontaneous or induced sputum is unavailable specimens are AFB smear negative. Note: Contamination of the bronchoscope with tap water, which may contain environmental <i>Mycobacterium</i> species, should be avoided. Minimum sample size is preferably 5mL.		mination of the n environmental
	consecutive days in a contain boric acid), a	Urine specimens Whole urine specimens should be collected in the early mo consecutive days in a 250ml CE marked leak proof containe contain boric acid), and placed in a sealed plastic bag. Urin received in 20ml universal containers will be rejected.	
	received in 20mi univ	versar containers will be reje	

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a small volume is available after initial lumbar puncture, and the findings of cell counts and protein suggest TB meningitis, a second procedure should be considered to obtain a larger volume to improve chances of achieving positive cultures.

It should be noted that pleural or pericardial fluids are not very sensitive samples for the detection of *M. tuberculosis,* and that a concurrent pleural or pericardial biopsy taken with the fluid is more useful. A negative result on these fluids does not rule out the diagnosis.

Lymph node and tissue samples

Send in sterile container. A small amount of sterile water or saline may be added to prevent the sample from dehydrating.

Cerebrospinal fluid (CSF)

For CSF refer to CSF microscopy and culture.

Blood culture

In patients where disseminated mycobacterial disease is suspected (e.g. *Mycobacterium avium intracellulare* complex in HIV infected patients) send a peripheral blood sample in a Lithium heparin tube (green top vacuette).

The following are specialist tests:

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Turnaround time	6 weeks. DCN: MIC-P-006-13.
Biological reference units	
Measurement units	
	displayed on the report when it is returned to the requestor.
	analysed in this test and any reference ranges for these parameters will be
	on Telephone 01793 604798 if further details are required. The parameters
	This test is processed at an external reference centre. Contact the laboratory
Tests	
	If sample volume is insufficient for both microscopy and culture, culture is usually preferred to microscopy due to greater sensitivity.
	No microscopy performed on urine samples for Mycobacteria investigations.
Laboratory information	
	activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin.
Special requirements	started. 'Other' antimicrobials may also have significant anti-mycobacterial
	For the initial diagnosis of mycobacterial infection all specimens should be fresh and taken, whenever possible, before anti-tubercular treatment is
Storage requirements	Outside of normal working hours samples should be refrigerated.
	Do not use pneumatic chute system if investigation for Mycobacteria required.
Specimen transport	working hours.
	Specimens should be sent to the laboratory without delay during normal
	Molecular tests (PCR) Gamma Interferon Tests

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	Significant positive results are communicated to clinicians as and when they arise.
Availability	Routine hours.
Clinical information	
Factors known to significantly affect the results	EDTA, even in trace amounts, inhibits the growth of some <i>Mycobacterium</i> species. Some antimicrobials have significant anti-mycobacterial activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin.

Mycobacteria PCR

May be appropriate under certain circumstances. Usually performed on smear positive samples where drug resistance is strongly suspected. Requests must be discussed with Consultant Microbiologist.

Collection container	Specimen	Sample volume	Request form
	Sputum, gastric washing, sterile site body fluids (CSF, pleural fluids etc), skin or tissue biopsies, bone marrow, bronchoalveolar washings, bone and bone marrow, lymph node and tissue samples	1mL of Sputum 5mL of BAL 6mL of CSF	
	Urine	Early morning urine on three consecutive days, 250ml container	
	Heparin blood	2 – 6 mls	
Sample instructions			
	Refer to Mycobacter	<u>a</u> .	
Collection	Cerebrospinal fluid (Refer to <u>CSF microsco</u>	-	
Specimen transport	working hours.	sent to the laboratory with c chute system if investigation	out delay during normal on for Mycobacteria required.
Storage requirements	Outside of normal wo	orking hours samples should	be refrigerated.
Special requirements	No special requireme	ents.	
Laboratory information			
Tests	on Telephone 01793 analysed in this test a	at an external reference cent 604798 if further details are and any reference ranges for prt when it is returned to the	these parameters will be
Measurement units			
Biological reference units			
Turnaround time	2 weeks. Significant positive re arise.	esults are communicated to o	clinicians as and when they
Availability	Routine hours.		

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Clinical information	
Factors known to significantly affect the results	EDTA, even in trace amounts, inhibits the growth of some <i>Mycobacterium</i> species. Some antimicrobials have significant anti-mycobacterial activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin.

Mycology

Infection by dermatophytes is cutaneous and generally restricted to the non-living cornified layers in patients who are immunocompetent. This is because the dermatophyte group of fungi are generally unable to penetrate tissues which are not fully keratinised (ie deeper tissues and organs). However, reactions to such infections can range from mild to severe, depending upon the host's immune response, the virulence of the infecting species, the site of infection and environmental factors.

Collection container	Specimen	Sample volume	Request form
	Skin, hair, nails		
DERMANDER & Constantial Constantia Constantia Constantia Constantia Constantia Constantia	Skin, hair, nails		
Sample instructions			
Collection	specifically for Skin Material from outer edges o a scalpel blade Hair Scalp scraping may be plucke as infection is be transporter Nails Clippings show cut back as fai the lower part supplement th present. Whol container.	r the collection and transport of skin lesions is collected by gen f the lesion, usually with the ed e. The edge is most likely to cor as are obtained as above but shi ed from the scalp with forceps, usually below the surface near d to the laboratory as for skin s ald be taken from the discoloure r as possible from the free edge ts. Scrapings can also be taken f the clippings. Nail clippings ofter le nails can be sent to the Labor al disease	tly scraping off material from the ge of a glass microscope slide or ntain viable fungus. ould include hair stubs. Hairs but cut hairs are unsatisfactory the scalp. The material should crapings. ed or brittle parts of the nail and as some fungi are restricted to from under the nail to n fail to grow fungi even if ratory in a sterile Universal for culture as clinically indicated
	Consultant.	· · · · ·	
Specimen transport	-	ould be transported and proces	·
Storage requirements		ld be allowed to dry out and ke samples are kept dry, the fungu	pt at room temperature. s will remain viable for several

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Department of Microbiology

Special requirements	No special requirements.
Laboratory information	
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.
Measurement units	
Biological reference units	
Turnaround time	Microscopy 1 week. Culture 4 weeks.
Availability	Routine hours.
Clinical information	
Factors known to significantly affect the results	

Miscellaneous Mycology serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special req	uirements.		
Specimen transport		Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of nor	rmal working hours samples	should be refrigerated.	
Special requirements		Clinical details and any history of travel or occupational exposure are essential for processing.		
Laboratory information				
Tests	laboratory on parameters ar	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours			
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Mycoplasma genitalium

Detection of Mycoplasma genitalium and macrolide resistance.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
Secure Areas approximation of the secure of	Cervical, urethral, throat, rectal swab		
	Urine (first void)	Minimum volume 2ml	
Sample instructions			
Collection	guidelines on the c	-	
Specimen transport	Specimens should working hours.	be sent to the laboratory w	ithout delay during normal
Storage requirements	Outside of normal	working hours samples sho	uld be refrigerated.
Special requirements	Urine – patient should not have urinated for 2 hours prior to sample collection.		
Laboratory information			
Tests	laboratory on Tele parameters analys	ed at an external reference ohone 01793 604798 if furt ed in this test and any refer displayed on the report wh	her details are required. The ence ranges for these
Measurement units	Presence detected Positive samples w	or not detected. ill be tested for Macrolide r	esistance.
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significa affect the results	inappropriate timin antly of organism below detection of an ass	the detectable limit of the ay sampling variation will re	opropriate sample, presence

Mycoplasma pneumoniae

Detection of *Mycoplasma pneumoniae* and macrolide resistance.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Upper respiratory swab	1mL		
Sample instructions				
Collection	guidelines on the c	ollection packs.	following the recommended	
Specimen transport	Specimens should working hours.	be sent to the laboratory	without delay during normal	
Storage requirements	Outside of normal	working hours samples s	hould be refrigerated.	
Special requirements	Urine – patient sho collection.	Urine – patient should not have urinated for 2 hours prior to sample collection.		
Laboratory information				
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units		Presence detected or not detected. Positive samples will be tested for Macrolide resistance.		
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significa affect the results	inappropriate timin ntly of organism below detection of an ass	the detectable limit of the av sampling variation wi	easons, for example nappropriate sample, presence he assay. Towards the limit of Il result in lower reproducibility which may not be detected by	

Neisseria gonorrhoeae PCR

This test is exclusively only available to the Great Western Hospital Sexual Health department. If NAATs testing is required, please liaise with the Microbiology Department or refer patient to Sexual Health Clinic. Also see GC culture.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
Sector Artes Con-	Eye, cervical, urethral, throat, rectal swab			
	Urine (first void)	Minimum volume 2ml		
Sample instructions				
Collection	Specimens should be collected and handled following the recommended guidelines on the collection packs. Refer to <u>Chlamydia PCR – collection of vaginal sample</u> and <u>Chlamydia PCR – collection of vaginal sample</u> .			
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Urine – patient sh collection.	Urine – patient should not have urinated for 2 hours prior to sample collection.		
Laboratory information				
Tests	Detection of Neiss	Detection of Neisseria gonorrhoeae nucleic acid (qualitative).		
Measurement units	Presence detected	Presence detected or not detected.		
Biological reference units				
Turnaround time	4 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significar affect the results	inappropriate timi of organism below detection of an as	ay occur for a variety of rease ing of sample collection, inap the detectable limit of the a say sampling variation will re g variants may also occur wh	propriate sample, presence assay. Towards the limit of sult in lower reproducibility	

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Norovirus PCR

Norovirus test performed only on instruction by the Infection Control Team in the investigation of outbreaks.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Stool sample	Liquid specimen: 1 – 2ml Formed specimen: large pea size sample		
Sample instructions				
Collection		y be passed into a clean, dry, dispo I transferred to an appropriate collo	-	
Specimen transport	Specimens sh working hours	ould be sent to the laboratory with s.	out delay during normal	
Storage requirements	Outside of no	rmal working hours samples should	be refrigerated.	
Special requirements	Repeat sampl	Clinical details are essential for processing. Repeat samples for microbiological clearance not usually required – Microbiologists will advise if necessary.		
Laboratory information				
Tests	Detection of Norovirus nucleic acid (qualitative).			
Measurement units				
Biological reference units				
Turnaround time	1 day.			
Availability	Routine hours	5.		
Clinical information				
Factors known to significant affect the results	inappropriate inappropriate of organism b detection of a	es may occur for a variety of reason timing of sample collection, inapp elow the detectable limit of the as n assay sampling variation will resu erging variants may also occur whic	ropriate sample, presence say. Towards the limit of ult in lower reproducibility	

Nose swab

Nasal colonisation with *Staphylococcus aureus* increases the risk of staphylococcal infections at other sites of the body such as postoperative wounds and dialysis access sites.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
430 canner stars 0/2 1	Nose swab (Amies transport swab)			
Sample instructions				
Collection		•	rapy started. anterior nares by gently rotating	
Specimen transport	Specimens should working hours.	l be sent to the laboratory	without delay during normal	
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Nasal swabs shou <u>pertussis</u> .	Nasal swabs should NOT be taken to investigate the presence of <u>Bordetella</u> pertussis.		
Laboratory information				
Tests		General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).		
Measurement units	Growth detected	Growth detected or not detected.		
Biological reference units				
Turnaround time	4 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	Delays in transpo	rtation may affect the reco	overy of pathogens.	

Pan fungal PCR (18S)

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 500µl		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou	hould be sent to the laboratory wit rs.	hout delay during normal	
Storage requirements	Outside of n	ormal working hours samples shou	ld be refrigerated.	
Special requirements	Clinical deta	ils are essential for processing.		
Laboratory information				
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days			
Availability	Routine hou	rs.		
Clinical information				
Factors known to significan affect the results	False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presen of organism below the detectable limit of the assay. Towards the limit o detection of an assay sampling variation will result in lower reproducibil New and emerging variants may also occur which may not be detected b this assay.			

Pan-valentine leukocidin (PVL) toxin detection

Testing for the PVL toxin gene on isolates will be directed by the Consultant Microbiologist, based on clinical presentation and/or antibiotic sensitivity patterns. Generally, PVL toxin testing will be carried out on the following:

- S. aureus cultured from individuals with recurrent boils/abscesses
- *S. aureus* cultured from individuals with necrotising skin and soft tissue infections
- S. aureus pneumonia
- Ciprofloxacin sensitive MRSA
- Any other S. aureus isolate as indicated by the Consultant Microbiologist

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	S. aureus isolated by laboratory, as directed by Consultant Microbiologist		
Sample instructions			
Collection	No special requirem	nents.	
Specimen transport	Specimens should t working hours.	be sent to the laboratory	without delay during normal
Storage requirements	Outside of normal v	working hours samples sl	hould be refrigerated.
Special requirements	No special requirements.		
Laboratory information			
Tests	Detection of PVL toxin nucleic acid (qualitative): This test is processed at an external reference centre.		
Measurement units			
Biological reference units			
Turnaround time	4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	inappropriate timin of organism below detection of an assa	the detectable limit of thay sampling variation wil	easons, for example nappropriate sample, presence ne assay. Towards the limit of I result in lower reproducibility which may not be detected by

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Parasitology (Bilharzia/Schistosoma haematobium)

Diagnosis of acute infection.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Urine sample	Sample collected between 10:00 and 14:00. Alternatively, a 24hr collection of terminal samples of urine may be obtained.	
Sample instructions			
	freshwater expose terminal urin three stool s 3 months or mon terminal urin three stool s	ost exposure, if suspecting schiste sure in endemic area, send: ne – not mid-stream samples, 2 days apart re post exposure: ne – not mid-stream samples, 2 days apart d for <u>Schistosoma serology</u>	osomiasis and has
Collection	Urine collection	or detection of eosinophilia.	oc this is when the highest
	concentration of Ask patient to ur voided and colled 20ml of urine) in Alternatively, a 2 It is also recomm	becimen between 1000 and 1400, eggs is found. inate as normal. Halt the process ct the remaining end-stream urine a sterile container. Send 3 such s 4hr collection of terminal sample bended that a little light exercise s cted (e.g., 20 rapid knee bends, o	before bladder completely e sample (the last 10 to samples. s of urine may be obtained hould be taken before the
Specimen transport	Specimens shoul working hours.	d be sent to the laboratory witho	ut delay during normal
Storage requirements		al working hours samples should l 3 hours are undesirable.	be refrigerated.
Special requirements	Please provide in	formation regarding recent forei	gn travel.
Laboratory information			
Tests	Presence of Schis	stosoma haematobium (qualitativ	re).
Measurement units			

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Biological reference units	
Turnaround time	2 days.
Availability	Routine hours.
Clinical information	
Factors known to significant affect the results	ly

Parasitology (Pinworm)

Diagnosis of acute infection.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
Please contact the laboratory on 01793 604798 for collection kits	Sellotape from perianal region		
Sample instructions			
Collection	Please contact the laboratory on 01793 604798 for collection kits. "Sellotape" slides are used in the diagnosis of threadworm and the procedur should be carried out first thing in the morning. Press the sticky middle 1-2" firmly against the perianal skin.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	No special requirements.		
Laboratory information			
Tests	Presence of Enterob	ius vermicularis ova (qu	alitative).
Measurement units			
Biological reference units			
Turnaround time	2 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significar affect the results	ntly		

Miscellaneous Parasitology serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	Clotted blood	sample – at least 12 weeks p	ost exposure.	
Specimen transport	•	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of nor	mal working hours samples s	hould be refrigerated.	
Special requirements	and travel hist	Please include relevant clinical details, including reason for investigations and travel history. Send stool sample.		
Laboratory information				
Tests	laboratory on parameters ar	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours			
Clinical information				
Factors known to significant affect the results		y take up to 3 months to dev eral months after successful t		

Parasitology (Stool)

There is no need to request OCP for Cryptosporidium and Giardia lamblia; all stool samples for culture will be automatically tested for these.

Information required for other parasitic infections:

- Foreign travel history
- Blood eosinophil count
- Duration of diarrhoea
- Presence/absence of abdominal symptoms
- Evidence of malabsorption

Collection container	Specimen	Sample volume	Request form
		3 stool samples over a	
1		period of 10 days.	
	Stool sample	Liquid specimen: 1 – 2ml	
		Formed specimen: large	
		pea size sample.	
Sample instructions			
Collection		be passed into a clean, dry, disposa	-
concetion		transferred to an appropriate collec	
Specimen transport		ould be sent to the laboratory without	ut delay during norma
opeenien nanopoit	working hours.		
Storage requirements		mal working hours samples should b	be refrigerated.
		48 hours are undesirable.	
		on of amoebic trophozoites the spec	
Special requirements	laboratory within 1 hour of its production. It is advisable to arrange this		
	examination w	ith the Departments in advance.	
Laboratory information			
Tests	Presence and i	dentification of ova and parasites (q	ualitative).
Measurement units			
Biological reference units			
Turnaround time	4 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant	ly		
affect the results			

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Parasitology (Worm identification)

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Worm	Please send actual worm seen	
Sample instructions			
Collection	Please send actua	al worm seen.	
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	No special requirements.		
Laboratory information			
Tests	Parasite identifica	ation (qualitative).	
Measurement units			
Biological reference units			
Turnaround time	2 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	tly		

Parvovirus PCR

Diagnosis of acute disease. DNA detection may be indicated if significant immuno-suppression (e.g. HIV disease or organ transplant).

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou	hould be sent to the laboratory Irs.	without delay during normal	
Storage requirements	Outside of n	ormal working hours samples s	hould be refrigerated.	
Special requirements	No special re	equirements.		
Laboratory information				
Tests	laboratory o parameters	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hou	rs.		
Clinical information				
Factors known to significan affect the results	inappropriat tly of organism detection of	ves may occur for a variety of re te timing of sample collection, in below the detectable limit of th an assay sampling variation wi nerging variants may also occur	nappropriate sample, presence ne assay. Towards the limit of Il result in lower reproducibility	

Parvovirus serology

Please state whether test required for acute disease (IgM/DNA) or if evidence of past exposure (immunity) required (IgG).

IgM is usually positive at time of presentation with acute symptoms. May remain detectable for up to 3 months.

DNA detection may be indicated if significant immuno-suppression (e.g. HIV disease or organ transplant).

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requi	rements.		
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norm	al working hours samples sl	hould be refrigerated.	
Special requirements		Clinical details and date of onset are essential for processing. Indicate if patient is pregnant and gestation, and date of contact or exposure.		
Laboratory information				
Tests	laboratory on Te parameters anal	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	tly Haemolysis.			

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Peritoneal dialysis fluid (PDF)

Per	itoneal dialysis fluid		
		Minimum volume 1ml	
		Inoculate with the recommended volume of 8-10mL in each adult bottle, or 1-3mL for paediatric bottles.	
Sample instructions			
Collection	Blood culture both	tles Iture Method Options.	
Specimen transport		be sent to the laboratory with	out delay during normal
Storage requirements	Outside of normal	working hours samples should	d be refrigerated.
Special requirements	No special require	ments.	
Laboratory information			
Tests	Detection of gram General isolation a	blood cells (quantitative). positive and negative bacteria and characterisation of aerobio organisms (qualitative).	
Measurement units	Cell count x 10 ⁶ /l Growth detected o	or not detected.	
Biological reference units	Total white cell count	<500 cells x 10 ⁶ /l	
Turnaround time	Microscopy 2 hour Culture 5 days.	rs.	
Availability	Routine hours and	l on-call.	
Clinical information			
Factors known to significantly affect the results	are usually receive increase likelihood Cells disintegrate. not reflective of th	fluid may contain very low nur ed in adequate quantities and d of successful culture. A delay in transportation may ne clinical situation of the patie tation may affect the recovery	require concentration to y produce a cell count that i ent.
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Pneumococcal PCR

Diagnosis of acute disease such as sepsis and meningitis. If pneumonia is suspected, please send a urine for <u>pneumococcal antigen</u> testing.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	Minimum volume 5ml		
	CSF	Minimum volume 0.5ml		
Sample instructions				
Collection		microscopy and culture.		
Specimen transport	Specimens sl working hou	hould be sent to the laboratory wit rs.	hout delay during normal	
Storage requirements	Outside of no	ormal working hours samples shou	ld be refrigerated.	
Special requirements	Clinical detai	Clinical details are essential for processing.		
Laboratory information				
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Tparameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		er details are required. The neer angles for these	
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hou	rs.		
Clinical information				
Factors known to significar affect the results	inappropriat of organism detection of	ves may occur for a variety of reaso e timing of sample collection, inapp below the detectable limit of the a an assay sampling variation will res erging variants may also occur whi	propriate sample, presence ssay. Towards the limit of sult in lower reproducibility	

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Pneumococcal serology

Used to determine immunity.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	juirements.		
Specimen transport	•	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of no	rmal working hours samples	should be refrigerated.	
Special requirements	Pneumococca	Clinical details are essential for processing. Pneumococcal serology is not useful in diagnosis of infection. Please send a urine for <u>pneumococcal antigen</u> testing.		
Laboratory information				
Tests	laboratory on The paramete	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours	5.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Pneumococcal urinary antigen

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Urine	Minimum volume 5ml		
	Urine	Minimum volume 1ml		
Sample instructions				
Collection	If less than 5ml of ur white topped univer	A minimum of 5ml is required. If less than 5ml of urine is anticipated, or collecting from a child, collect in to a white topped universal container. Refer to <u>Urines (Microscopy and Culture)</u> .		
Specimen transport		Specimens should be sent to the laboratory without delay during normal		
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	The British Thoracic high severity pneum	Clinical details are essential for processing. The British Thoracic Society do not recommend testing unless moderate to high severity pneumonia in hospitalised patients. Will be tested only if clinical details indicate severe pneumonia on request		
Laboratory information				
Tests	Detection of Pneum	ococcal antigen (qualitative).		
Measurement units	Antigen detected or	not detected.		
Biological reference units				
Turnaround time	1 day.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	tly Pneumococcal vacci	nation within previous week	may give positive result.	

Pneumocystis jirovecii (PCR)

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	BAL	Minimum volume 1ml	
Sample instructions			
Collection		nens/ bronchoalveolar lavage/b atory samples for culture.	ronchial washings
Specimen transport	Specimens sho working hours	uld be sent to the laboratory wit	hout delay during normal
Storage requirements	Outside of nor	mal working hours samples shou	ld be refrigerated.
Special requirements	Clinical details	are essential for processing.	
Laboratory information			
This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are requirTestsparameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		er details are required. The nce ranges for these	
Measurement units			
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significat affect the results	inappropriate t ntly of organism be detection of ar	s may occur for a variety of reaso timing of sample collection, inap flow the detectable limit of the a n assay sampling variation will re ging variants may also occur whi	propriate sample, presence ssay. Towards the limit of sult in lower reproducibility.

Coxiella/Q fever serology

Used to determine past or current infection.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special re	equirements.		
Specimen transport	Specimens s working hou		ory without delay during normal	
Storage requirements	Outside of n	ormal working hours sample	s should be refrigerated.	
Special requirements	Clinical deta	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory o The parame	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hou	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

TSPOT.TB Test

These tests are used primarily for the diagnosis of latent infection in the context of contact tracing. They do not differentiate between latent and active disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Lithium Heparin	Adults: 6 ml Children ≥2 to <10 years: 4 ml Infants <2 years: 2 ml		
Sample instructions				
Collection	susceptible to during phlebo	POT technology are functional assays introduction of skin and environment tomy. It is important that puncture sit disinfection procedures that you adop	al microorganisms e preparation include	
Specimen transport	•	be sent off site within 32 hours of blo samples are returned to the laborato sking).		
Storage requirements	Room temper	ature – and never refrigerated.		
Special requirements		If your patient is immunocompromised; Please provide an additional tube to ensure we obtain sufficient PBMCs.		
Laboratory information				
Tests	laboratory on The paramete	ocessed at an external reference centr Telephone 01793 604798 if further de rs analysed in this test and any referen ill be displayed on the report when it i	etails are required. nce ranges for these	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Specimens can only be receipted Monday-Friday up to 15:30 (except for public holidays). Samples received outside of these times may be rejected.			
Clinical information				
Factors known to significant affect the results	tly			

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Respiratory samples for culture

Collection container	Specimen	Sample volume	Request form
	Bronchial aspirate, transthoracic aspirate, bronchoalveolar lavage, transtracheal aspirate, bronchial brushings, protected catheter specimens, bronchial washings, endotracheal tube specimens, sputum – expectorated	Minimum volume 1ml	
Sample instructions			
Collection	therapy started. Sputum specimens Sputum specimens so contamination. Pur (ie shortly after pati dry, physiotherapy, ('sputum induction') Bronchoalveolar law These may be sent i Minimum sample siz A BAL is required for infection. For Legionella or Pn sample in a plain un Where <u>Pneumocysti</u>	ulent specimens are best. Sa ent waking) have the greates postural drainage or inhalati) before expectoration may b rage/bronchial washings f spontaneous or induced sp ze is preferably 5mL. r microbiological diagnosis o <u>eumococcal antigen</u> is to be iversal container. is jirovecii pneumonia (PCP) i .) is required. Induced sputu /.	is than 1 day old) to minimise imples taken early morning st yield. When the cough is on of nebulised saline be helpful. utum is unavailable. f invasive fungal respiratory excluded, please send a urine s suspected, a broncheo-
Specimen transport	•	e sent to the laboratory with	out delay during normal
Storage requirements		vorking hours samples should	be refrigerated.
Special requirements	Delays of over 48 hours are undesirable. Salivary specimens are not processed on the basis of macroscopic description, with the exception of immunocompromised and ITU patients.		

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Laboratory information	
Tests	General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative). Refer to <u>Cystic fibrosis</u> for cough swab specimens. Extended culture for <i>Burkholderia cepacia</i> performed where requests indicate Cystic Fibrosis.
Measurement units	Growth detected or not detected.
Biological reference units	
Turnaround time	4 days.
Availability	Routine hours.
Clinical information	
Factors known to significantly affect the results	All samples are suitable for overnight refrigeration only, they must not be stored over a weekend. Delays in transportation may affect the recovery of pathogens. Sputum may be refrigerated for up to 2-3 h without an appreciable loss of pathogens. Any delay beyond this time may allow overgrowth of Gram- negative bacilli, and Haemophilus species and <i>S. pneumoniae</i> may be rendered non-viable.

Respiratory virus PCR

Respiratory screen for at risk patient groups only (ICU/immunocompromised and paediatric patients) In house testing includes:

Influenza A •

Influenza B

•

RSV •

Referred extended panel includes:

- Parainfluenza viruses 1,2,3 •
- Metapneumovirus •

- Adenovirus
- Rhinovirus

For Mycoplasma pneumoniae PCR. For SARS-CoV2 PCR. For PCP PCR.

Collection container	Specimen	Sample volume	Request form
	Nose and/or throat swab (virus transport medium)	Minimum volume 1ml	
	NPA	Minimum volume 1ml	
Sample instructions			
Collection	NPA samples will no	top) swab from nose and th ot be accepted if sent with t	tubing attached.
Specimen transport	Specimens should t working hours.	pe sent to the laboratory wi	thout delay during normal
Storage requirements	Outside of normal v	working hours samples shou	uld be refrigerated.
Special requirements	Clinical details are e	essential for processing.	
Laboratory information			
This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		ner details are required. The ence ranges for these	
Measurement units			
Biological reference units			
Turnaround time	In house: 2 hours Referral: 7 days		
Availability	Routine hours.		
Clinical information			
Factors known to significantl affect the results		y occur for a variety of reasons of sample collection, inap	ons, for example propriate sample, presence
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of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay.

Rotavirus

Diagnosis of acute disease.

Examinations offered			
Collection container	Specimen	Sample volume	Request form
	Stool sample	Liquid specimen: 1 – 2ml Formed specimen: large pea size sample	
Sample instructions			
Collection		assed into a clean, dry, disposa ferred to an appropriate collec	-
Specimen transport	Specimens should b working hours.	e sent to the laboratory witho	ut delay during normal
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Rotavirus test performed on samples from children <5 years.		
Laboratory information			
Tests	Rotavirus antigen de	etection (qualitative).	
Measurement units	Growth detected or not detected.		
Biological reference units			
Turnaround time	2 days.		
Availability	Routine hours.		
Clinical information			
Factors known to significant affect the results	tly Specimens should b A positive rotavirus	efore antimicrobial therapy w e transported and processed a laboratory result within 15 da ination status and NOT active	as soon as possible. ys of Rotarix vaccination is

Rubella (diagnostic)

Used to determine disease progression in individuals infected with rubella.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special require	ements.		
Specimen transport	Specimens should working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norma	l working hours samples s	hould be refrigerated.	
Special requirements	Please indicate if	Please indicate if patient is pregnant and gestation with contact history.		
Laboratory information				
Tests	laboratory on Tele parameters analy	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

Rubella IgG (immunity)

Test is for evidence of past exposure or vaccination/immunity (IgG).

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	quirements.		
Specimen transport		Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of no	Outside of normal working hours samples should be refrigerated.		
Special requirements	Please indicate if patient is pregnant and gestation with contact history.			
Laboratory information				
Tests	Detection of F	Rubella IgG antibody (qualitat	tive).	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Syphilis antibody

For diagnosis of acute or recent Syphilis.

If first diagnosis of Syphilis infection a repeat venous blood sample from patient is required to confirm the result.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requi	rements.		
Specimen transport	Specimens shou working hours.	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of norm	Outside of normal working hours samples should be refrigerated.		
Special requirements		Clinical details and date of onset are essential for processing. CSF sample if neurosyphilis suspected – discuss with the Consultant Microbiologist.		
Laboratory information				
Tests	Detection of Tre	ponema pallidum antibody	(qualitative).	
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Syphilis RPR

Syphilis confirmation would only be performed on a Syphilis positive sample.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special rec	quirements.		
Specimen transport	Specimens sh working hours		y without delay during normal	
Storage requirements	Outside of no	rmal working hours samples	should be refrigerated.	
Special requirements	sample.	Syphilis confirmation would only be performed on a Syphilis positive sample. Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on parameters a	ocessed at an external refere Telephone 01793 604798 if nalysed in this test and any re vill be displayed on the report	further details are required. The eference ranges for these	
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours	5.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Tetanus antibody

Tetanus IgG antibody determination.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special requirer	nents.		
Specimen transport	Specimens should I working hours.	pe sent to the laboratory with	nout delay during normal	
Storage requirements	Outside of normal	Outside of normal working hours samples should be refrigerated.		
Special requirements	Clinical details are e	Clinical details are essential for processing.		
Laboratory information				
Tests	laboratory on Teler parameters analyse	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.	14 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.	Haemolysis.		

Throat swab

Bacterial throat swabs will be routinely cultured for primary pathogens i.e. Groups A, C and G β -haemolytic streptococci. Where other potential pathogens such as *Staph. aureus* are predominant or pure growth, they will be reported.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
QID carries terriging a	Throat swab (Amies transport swab)			
Sample instructions				
Collection	Throat swab take	ed before antimicrobial ther n from the tonsillar area and the tongue and uvula.	apy started. d/or posterior pharynx, should	
Specimen transport	Specimens should working hours.	l be sent to the laboratory v	vithout delay during normal	
Storage requirements		l working hours samples she hours are undesirable.	ould be refrigerated.	
Special requirements	pertussis. Isolation of Neisse Ideally, inoculatio on to culture med without delay. Tr Culture for <i>Coryr</i> clinical or epidem Anaerobic infecti	eria sp only on request. In of specimens for <i>N. gonol</i> lia at the time of collection ansport time should be as s <i>nebacterium diphtheriae</i> is iological details are provide on can present with very s	only performed where relevant	
Laboratory information				
Tests		General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).		
Measurement units	Growth detected	or not detected.		
Biological reference units				
Turnaround time	4 days.	4 days.		
Availability	Routine hours.	Routine hours.		
Clinical information				
Factors known to significant affect the results	Delays in transpo	rtation may affect the reco	very of pathogens.	

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Tips/intravascular cannulae

Examinations offered					
Collection container	Specimen	Sample volume	Request form		
	Line tips (eg CVP or Hickman lines)	End of cannulae tip (2 – 5 cm in length)			
QID courses that Q a	Swab of cannula insertion sites (Amies transport swab)				
Sample instructions					
Collection	Tips are preferable to Disinfect the skin aro	und the cannula entry site, re ff 2 – 5 cm of the tip into an a	emove cannula using aseptic		
Specimen transport	Specimens should be working hours.	Specimens should be sent to the laboratory without delay during normal			
Storage requirements		Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.			
Special requirements	Where line related in and peripheral taken Do NOT send line tips NOT suspected. Urinary catheter tips	Cannulae should only be sent if there is evidence of infection. Where line related infection/sepsis suspected, send blood cultures (central and peripheral taken simultaneously), prior to line removal. Do NOT send line tips if they are being removed routinely and infection is			
Laboratory information		·			
Tests	General isolation and anaerobic micro-orga	l characterisation of aerobic, anisms (qualitative).	microaerophilic and		
Measurement units	Growth detected or r	not detected.			
Biological reference units					
Turnaround time	4 days.				
Availability	Routine hours.				
Clinical information					
Factors known to significant affect the results	tly Delays in transportat	tion may affect the recovery o	of pathogens.		

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Tissues and biopsies

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Tissue and biopsies			
Sample instructions				
Collection	Optimally collected	d before antimicrobial the	rapy started.	
Specimen transport	working hours.		without delay during normal	
Storage requirements		working hours samples sh nours are undesirable.	ould be refrigerated.	
Special requirements	If specimen is sma	ll place it in sterile water to	o prevent desiccation.	
Laboratory information				
Tests	Microscopy for detection of Gram positive and negative bacteria (semi- quantitative). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).			
Measurement units	Growth detected o	Growth detected or not detected.		
Biological reference units				
Turnaround time	4 days, plus 2 days	for enrichment culture.		
Availability	Routine hours and	on-call.		
Clinical information				
Factors known to significant affect the results		d in formal-saline are not tation may affect the reco		

Toxoplasma diagnostic

Toxoplasma confirmation would only be performed on a Toxoplasma IgG positive sample. The test consists of Toxoplasma dye test and Toxoplasma IgM.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special req	uirements.		
Specimen transport	Specimens sho working hours		y without delay during normal	
Storage requirements	Outside of nor	Outside of normal working hours samples should be refrigerated.		
Special requirements		Clinical details are essential for processing. Please indicate if patient is pregnant and gestation with contact history.		
Laboratory information				
Tests	laboratory on parameters an	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.		
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours	Routine hours.		
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Toxoplasma IgG (immunity)

In addition, if congenital infection suspected – amniotic fluid, fetal whole blood, neonatal cord blood can be tested – discuss with Consultant Microbiologist.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special req	uirements.		
Specimen transport	•	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of nor	Outside of normal working hours samples should be refrigerated.		
Special requirements	Please indicate	Clinical details and date of onset are essential for processing. Please indicate if patient is pregnant and gestation, with date of contact and exposure history.		
Laboratory information				
Tests	Detection of T	Detection of Toxoplasma gondii IgG (qualitative).		
Measurement units				
Biological reference units				
Turnaround time	7 days.			
Availability	Routine hours			
Clinical information				
Factors known to significan affect the results	tly Haemolysis.			

Urines (microscopy and culture)

Send sample for microscopy and culture if clinically suspected UTI and any of the following:

- Pregnancy
- Signs of systemic or upper urinary tract infection (e.g.: fever, loin pain, renal angle tenderness)
- Immunocompromised or diabetic patients
- Male patients
- Children
- Female patients \geq 65 years old
- Anatomically abnormal urinary/renal tract
- Failure to respond to empirical therapy
- History of recurrent UTIs (≥ 3 episodes/year)
- Patients with indwelling catheters ONLY if symptoms or signs of infection.

Collection container	Specimen	Sample volume	Request form	
	Urine, MSU, Bladder urine, SPA	Minimum volume 5ml		
	Urine, MSU, Bladder urine, SPA	Minimum volume 1ml		
Sample instructions				
Optimally collected before antimicrobial therapy started. Fill the container to the marked line (adults approx 20-30 ml). A minim 5ml is required. If less than 5ml of urine is anticipated, or collecting from a child, collect white topped universal container.				
	MSU and clean catch urines are the most commonly or are recommended for routine use.		only collected specimens and	
	Mid-stream specimen (MSU):			
Collection	Wash the genital area in women with soap and water or sterile saline. In men, retract the foreskin and wash skin surrounding the meatus with soap and water or sterile saline			
	Ask patient to pass a small amount of urine into a bottle, bedpan or toilet.			
	Transfer the specir	ainer collect a mid-stream spe men into a sterile red-topped num of 2ml) and send to the la	boric acid container (fill to	
	Catheter Specimen of Urine (CSU			
	Do not use dipsticks for screening for infection, this invariably gives a positive			
	result due to cathe Request culture or	eter colonisation. Ily when there are symptoms	of infection – document this	
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	clearly on the request form. Collect the specimen from the catheter self-sealing rubber sampling port using an aseptic technique. The sample must not be obtained from the bag Disinfect the port using an alcohol or Chlorhexidine 2% swab, allow to the port to dry then use a sterile needle and syringe withdraw urine. Transfer the specimen into a sterile red-topped boric acid container (fill to marked line, minimum of 2ml) and send to the laboratory.		
	Suprapubic aspirate (SPA) SPA is seen as the "gold standard" but is usually reserved for clarification of equivocal results from voided urine in infants and small children. Before SPA is attempted it is preferable to use ultrasound guidance to determine the presence of urine in the bladder.		
	For <u>Mycobacteria</u> ; early morning urine on three consecutive days in 3 x 250ml container.		
	For <u>Schistosomiasis</u> ; Sample collected between 1000 and 1400. Alternatively a 24hr collection of terminal samples of urine may be obtained.		
	Please note that urinary catheter tips will not be processed as they do not provide helpful microbiological information.		
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	No special requirements.		
Laboratory information			
Tests	Presence of white blood cells, red blood cells, epithelial cells and casts (semi- quantitative). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).		
Measurement units	Cell count x 10 ⁶ /l		
Biological reference units			
Turnaround time	3 days.		
Availability	Routine hours and on-call (by arrangement).		
Clinical information			
Factors known to significantly affect the results	Bacteria multiply rapidly in urine – delays in transportation may affect the recovery of pathogens. Contaminating bacteria from the external genitalia may give rise to misleading results.		

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Varicella zoster virus (VZV) IgG (immunity)

To determine past chickenpox infection (or vaccination); indicates immunity.

Chickenpox/zoster contact in susceptible persons (e.g. pregnant, immunocompromised, neonates): If an urgent VZV IgG is required after exposure, the laboratory must be notified, and information provided on nature of contact and date of exposure.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
Sample instructions				
Collection	No special re	quirements.		
Specimen transport	Specimens sh working hou		ry without delay during normal	
Storage requirements	Outside of no	ormal working hours samples	should be refrigerated.	
Special requirements		Clinical details and date of onset are essential for processing. Please indicate if patient is pregnant and gestation with contact history.		
Laboratory information				
Tests	Detection of	Detection of VZV IgG (quantitative).		
Measurement units	IU/mL			
Biological reference units	100-150 IU/n	<100 IU/mL - No evidence of immunity 100-150 IU/mL – Evidence of immunity in the immunocompetent >150 IU/mL – Evidence of immunity in the immunocompromised		
Turnaround time	7 days.			
Availability	Routine hour	Routine hours.		
Clinical information				
Factors known to significan affect the results	have not bee		t in newborns or in vaccinees unosuppressed subjects should	

Varicella zoster virus (VZV) PCR

Diagnosis of acute disease.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	EDTA blood	2 – 6 mls		
	Lesion swab (virus transport medium)			
Sample instructions				
Collection	Send a viral (gro membranes.	een top) swab of vesicle fluic	l or affected mucous	
Specimen transport	Specimens sho working hours.	uld be sent to the laboratory	without delay during normal	
Storage requirements	Outside of norr	nal working hours samples s	hould be refrigerated.	
Special requirements		Clinical details are essential for processing. For VZV in CSF refer to <u>CSF (Cerebro-spinal fluid) virology PCR</u> .		
Laboratory information				
Tests	This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Th parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.			
Measurement units				
Biological reference units				
Turnaround time	14 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significa affect the results	inappropriate t ntly of organism be detection of an	low the detectable limit of th assay sampling variation wil	easons, for example nappropriate sample, presence ne assay. Towards the limit of I result in lower reproducibility which may not be detected by	

Viral haemorrhagic fever (VHF)

Used to determine past or current infection.

Collection container	Specimen	Sample volume	Request form
	EDTA blood	2 – 6 mls	
Sample instructions			
Collection	first discussi VHF Policy).		DO NOT TAKE SAMPLES without ologist (refer to the GWH Trust
Specimen transport	Instructions defined in th Specimens s working hou	for sample transportation on ne GWH Trust Specimen Transp hould be sent to the laboratory	without delay during normal
Storage requirements	Outside of n	ormal working hours samples s	hould be refrigerated.
Special requirements	the Microbio been perfor Scientist has	blogy Department until a diagno med by the Consultant Microbio	
Laboratory information			
Tests	laboratory o parameters	rocessed at an external referen in Telephone 01793 604798 if fu analysed in this test and any re will be displayed on the report	urther details are required. The ference ranges for these
Measurement units			
Biological reference units			
Turnaround time	14 days.		
Availability	Routine hou	rs.	
Clinical information			
Factors known to significan affect the results	inappropriat tly of organism detection of	ves may occur for a variety of re te timing of sample collection, in below the detectable limit of th an assay sampling variation wil herging variants may also occur	nappropriate sample, presence ne assay. Towards the limit of Il result in lower reproducibility.
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Wounds (skin, superficial, non-surgical)

Swabs of acute wounds will be routinely cultured for primary pathogens i.e. *Staph aureus*, β -haemolytic streptococci. Where other potential pathogens are isolated in predominant or pure culture they will be reported. Growth of bacteria alone does not indicate the presence of infection, unless other factors such as inflammation, pus, erythema or fever are exhibited.

Chronic wounds are invariably colonised with bacteria. When processed, primary pathogens, potential pathogens in predominant or pure culture are reported as above as well as organisms likely to be simply colonising the wound (e.g. skin flora and faecal flora). This is because chronic wound management is influenced by degree of wound colonisation. Where heavy colonisation is identified this is invariably an indication for enhanced local wound care and not an immediate indication for systemic antibiotics.

Collection container	Specimen	Sample volume	Request form
	Collection of pus or exudate	Minimum volume 1ml of pus	
	Amies transport swab	Swabs should be well soaked in pus	
Sample instructions			
Collection	Sample a represent unlikely to yield the If specimens are ta and the ulcer shou aspiration of the ec	I before antimicrobial therapy is tative part of the lesion. Swable causative pathogen. ken from ulcers, the debris on Id be cleaned with saline. A bio dge of the wound should then I n method may be preferred.	ping dry crusted areas is the ulcer should be removed opsy or, preferably, a needle
Specimen transport	Specimens should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable.		
Special requirements	Important to indica	ate site and nature of lesion.	
Laboratory information			
Tests	quantitative) (pus). General isolation a	ection of gram positive and ne nd characterisation of aerobic, ganisms (qualitative).	
Measurement units	Growth detected o	r not detected.	
Biological reference units			
Turnaround time	4 days, plus 2 days	for enrichment culture (pus).	
Availability	Routine hours and	on-call (pus).	

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Clinical information

Factors known to significantly	The recovery of anaerobes is compromised if transport time exceeds 3 hours.
affect the results	Delays in transportation may affect the recovery of pathogens.

Zika Virus

Zika virus testing is only available via PHE's Rare and Imported Pathogens Laboratory (RIPL). Please read PHE's Zika virus sample testing advice (link below) before collecting and sending a specimen to the laboratory.

Examinations offered				
Collection container	Specimen	Sample volume	Request form	
	Venous blood	2 – 6 mls		
	Urine (within 21 days of symptom onset)	1-5 mls	Image: A state of the	
Sample instructions				
Collection		Zika virus sample testing a ling a specimen to the lab	. ,	
Specimen transport	-	Specimens which do meet testing requirements should be sent to the laboratory without delay during normal working hours.		
Storage requirements	Outside of normal	working hours samples sh	ould be refrigerated.	
Special requirements	Comprehensive clir processing.	Comprehensive clinical details, including travel history, are essential for processing.		
Laboratory information				
Tests	laboratory on Teler parameters analyse	ed at an external referenc ohone 01793 604798 if fur ed in this test and any refe displayed on the report w	rther details are required. The erence ranges for these	
Measurement units	N/A			
Biological reference units	N/A			
Turnaround time	14 days.			
Availability	Routine hours.			
Clinical information				
Factors known to significan affect the results		t be taken within 21 days	of the onset of symptoms.	

Please refer to PHE's <u>Zika virus: sample testing advice</u> for further information.

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14 REFERENCE LABORATORIES

As part of the testing process, it may be necessary to refer some, or all, of the sample to an external reference laboratory which has the necessary expertise. In some cases there will be only one specialist laboratory in the whole country which performs a particular test, meaning using referral laboratories is essential.

There is a detailed policy in place to govern how we choose these referral laboratories. They are selected for their expertise and their quality standards, and are regularly checked for their accreditation status.

The name of the reference laboratory used will be indicated on the Microbiology report. The reference laboratories currently used are:

Anaerobe reference unit (ARU			
<u>Anaerobe reference unit (ARU</u>	Public Health Wales Microbiology Cardiff University Hospital of Wales	UKAS 9510	Anaerobe identification of Bacteroides, Clostridia, Fusobacteria, Actinomyces spp
	Heath Park Cardiff CF14 4XW		
Animal and Plant Health Agency	Virology Department Woodham Lane	UKAS 1769 Accredited to ISO/IEC 17025:2005	Diagnostic service for Rabies
	New Haw Addleston Surrey		
	KT15 3NB		
Antimicrobial reference unit	North Bristol NHS Trust Southmead Hospital Southmead Road Bristol BS10 5NB	UKAS 8099	Antimicrobial assay service
Clostridium difficile ribotyping	Leeds General Infirmary	UKAS 9862	Clostridium difficile culture and
network (CDRN)	Old Medical School Great George Street		ribotyping

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	LS1 3EX		
<u>Cryptosporidium reference unit</u> (<u>CRU)</u>	Public Health Wales Microbiology ABM, Singleton Hospital Sgeti Road Swansea SA2 8QA	UKAS 9510	Cryptosporidium typing and confirmation services
Colindale Sequencing Labaratory (CSL)	UK Health Security Agency 61 Colindale Avenue London NW9 5HT	UKAS 8727	Genome sequencing, transcription and proteogenome analysis, pathogen discovery and metagenomics
<u>Great Ormond Street Hospital for</u> Children NHS Foundation Trust	Bacteriology Laboratory Level 4 Camelia Botnar Laboratories Great Ormond Street London WC1N 3JH	UKAS 8675	Diagnostic service for Whipples disease
Imperial College London	Molecular Diagnostic Unit, Imperial College London, St Mary's College, Norfolk Place, London W2 1PG	UKAS 9003	HIV resistance testing
Insect Research and Development, Cambridge	6 Quy Court Colliers Lane Stow - cum- Quy Cambridge CB25 9AU	No accreditation status Laboratory work recognised in civil litigation and criminal prosecutions, or defence	Identification of insect and animal foreign bodies
Liverpool Clinical Laboratories	Liverpool Clinical Laboratories Royal Liverpool and Broadgreen Univerisity Hospitals NHS Trust Prescot Street Liverpool L7 8XP	UKAS 9755	Brucella Serology
<u>Lab 21</u>	Park House Winship Road Milton	UKAS 9325	Therapeutic drug monitoring for HIV patients

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	Cambridge Cambridgeshire CB24 6BQ		
Meningococcal reference unit (MRU)	Clinical Sciences Building 2 Manchester Royal Infirmary Oxford Road Manchester M13 9WL	UKAS 10175	Meningococcal PCR and Serology Pneumococcal PCR
Mycology reference laboratory	Infection Sciences Laboratory Pathology Building Southmead Hospital Southmead Road Westbury on Trym Bristol BS10 5NB United Kingdom	UKAS 8043	Laboratory services for the diagnosis and management of fungal infections
National CJD research and surveillance unit (NCJDRSU)	Western General Hospital Crewe Road Edinburgh EH4 2XU	Laboratory work recognised by WHO, inspected by HSE and perform well in European EQA schemes	Diagnostic service for CJD
<u>Health Service Laboratories</u> <u>Parasitology</u>	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB	UKAS 9702	Laboratory reference services for parasites and amoeba Various parasitology serology
North Bristol NHS Trust Department of Immunology and Immunogenetics	Department of Immunology and Immunogenetics Southmead Hospital Southmead Road Westbury on Trym Bristol BS10 5NB	UKAS 8067	Faecal Calprotectin (Liquid stools only) CD4 counts

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North Bristol NHS Trust	Infection Sciences Laboratory	UKAS 8043	Viral PCR and serology tests (not
Infection Sciences Laboratory	Pathology Building		carried out in house)
	Southmead Hospital		Helicobacter Ag
	Southmead Road		
	Westbury on Trym		
	Bristol		
	BS10 5NB		
Oxford University Hospitals NHS	Immunology Department	UKAS 8782	HIB serology
Trust	Churchill Hospital		Pneumococcal serology
	Old Road		
	Headington		
	Oxford		
	OX3 7LJ		
Oxford University Hospitals NHS	Department of Microbiology	UKAS	Investigation of Mycobacterium
Trust	Level 6/7, John Radcliffe Hospital		infections.
	Headley Way		
	Headington		
	Oxford OX3 9DU		
Rare and imported pathogens	Public Health England	UKAS 9304	Diagnosis and management of
laboratory (RIPL)	Manor Farm Road		unusual or hazardous infectious
	Porton Down		diseases present in the UK or
	Salisbury		imported into the country, includir
	Wiltshire		Lyme and Leptospirosis.
	SP4 0JG		
Oxford Diagnostics Laboratories Ltd	UK Oxford Diagnostic Laboratories	UKAS 4066	Referral laboratory for analysis
	143 Park Drive		based on the
	Milton Park		T-SPOT technology using a
	Abingdon		standardised ELISPOT platform.
	Oxfordshire		
Townshamon and an an Islam 1	OX14 4SE		Discussion family 1
Toxoplasma reference laboratory	Department of Microbiology	UKAS 9510	Diagnostic service for toxoplasma
<u>(TRL)</u>	Singleton Hospital		infection
	Sgeti		
	Swansea		
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	SA2 8QA		
UK Health Security Agency Bacteriology Reference Laboratory	UK Health Security Agency 61 Colindale Avenue London NW9 5HT	UKAS 8197	National reference laboratory for specialist testing, bacterial characterisation and susceptibility testing.
UK Health Security Agency Virology Reference Department	UK Health Security Agency 61 Colindale Avenue London NW9 5EQ	UKAS 8825	Clinical advice and laboratory investigations for a wide range of viral human infections.
University Hospital Southampton NHS Foundation Trust	Microbiology Department Tremona Road Southampton Hampshire SO16 6YD	UKAS 8403	Laboratory services for the diagnosis and management of fungal infections. HSV type specific serology

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15 PATIENT CONSENT DISCLOSURE

15.1 Laboratory Policy on protection of personal information

The Microbiology Department regards the lawful and correct treatment of patients' personal information as vital to successful operations and to maintaining the confidence of users of the service. Request form information may additionally be used for billing purposes, financial audit, resource management and utilization reviews.

Our policy is that we will treat personal information lawfully and correctly in adherence to the principles of data protection described in the <u>Data Protection Act 1998</u>.

As part of the Great Western Hospital NHS Foundation Trust we also work to its governance and data protection policies which incorporate the Data Protection Act, the <u>Department of Health Confidentiality</u> <u>NHS Code of Practice</u>, and <u>Department of Health Security Management NHS Code of Practise</u>, as listed below:

- Information Governance Strategy and Policy
- Information Protection and Security Policy
- Information Asset Register Procedure
- Data Protection Policy
- Data Transfer Policy
- Data Quality Policy
- Code of Conduct for Employees in Respect of Confidentiality Policy
- Freedom of Information Requests Procedure

All the above Trust policy documentation is available upon request to the Laboratory.

15.2 Patient consent

Consent to a specimen being taken and analysed is implied by the patient presenting to the point of specimen collection. The responsibility for obtaining informed consent for the tests(s) resides with the individual ordering the test. Informed consent should cover all the tests being done, implications of their results and disclosure of clinical and personal details to personnel (in the requesting organisation and any other healthcare organisations involved in providing the test). Special procedures, including more invasive procedures, or those with an increased risk of complications to the procedure, will need a more detailed explanation and, in some cases, written consent. Patients in a hospital bed should normally be given the opportunity to refuse.

The laboratory procedures the laboratory assumes that patient consent has been obtained for the investigations requested, as the patient has presented themselves and willingly submitted to the usual collecting procedure.

The exception to this being antenatal screening requests, which must be accompanied by a form clearly indicating that blood borne virus testing has been accepted or declined by the patient and signed by the requesting clinician.

In emergency situations consent may not be possible. Under these circumstances the laboratory will carry out the necessary investigations provided they are in the patient's best interest.

15.3 Medico-legal samples

Any specimens submitted for medico – legal purposes should have documentation accompanying these specimens to provide an unbroken chain of evidence.

15.4 The Human Tissue Act

Great Western Hospitals NHS Foundation Trust are licensed by the Human Tissue Act (HTA) to undertake examinations of postmortem samples submitted by clinical consultants and pathologists. Under the license, the samples may be retained until the examination has been completed and in line with the sample retention policies.

It is the obligation of the requesting clinician or pathologist to ensure that examination of samples they submit have been requested by the coroner or appropriate consent has been obtained from the deceased person or their relatives.

Only the specific examinations requested by the sending clinician or pathologist may be performed. It must be assumed that the coroner has not asked for any other examinations to be performed, and consent has not been obtained for any other work and so this would be outside the scope of the licence. If additional work on samples from the deceased is thought necessary by the Medical Microbiologist, they must obtain written confirmation of consent from the sending departments.

All relevant material is stored securely and under conditions which maintain the integrity of the sample if possible and confidentiality is maintained in compliance with Caldicott principles, as are all samples received. Following processing, relevant material is only retained for the period specified by the retention policy.

15.5 Duty of Candor

The Microbiology Department ensures full compliance with the Duty of Candour policy as set out by the Trust. The Department is deeply committed to prioritising transparency, honesty, and accountability in all interactions with patients and healthcare providers. All samples that enter the Microbiology Department are treated with the upmost respect and care. As such our team is dedicated to promptly identifying, addressing, and disclosing any issues that may arise during testing or reporting processes, ensuring that patients and clinical partners receive accurate, timely information. By upholding this commitment, we aim to continually improve our practices, enhance patient safety, and maintain the highest standards of professional integrity.

16 FEEDBACK ON OUR MICROBIOLOGY SERVICE AND COMPLAINTS PROCEDURE

The Microbiology Department ensures full compliance with the Duty of Candour policy, the Incident Management policy and Complaints Policy as set out by the trust. All Trust policy documentation is available upon request to the Laboratory.

All complaints or other feedback received from clinicians, patients or other parties are managed in accordance with the Trust Complaints Policy and Procedure. Feedback (including complaints) can be submitted to the laboratory via the Pathology User Satisfaction Survey (available on the intranet under Pathology), PALS or direct contact with the Microbiology Laboratory Manager, Clinical Lead and/or General Manager of Pathology and Transfusion Services.

Any suggestions from users on how this user guide could be improved would be welcome for inclusion in future editions. Please forward suggestions to the GWH.Microbiology@nhs.net. Please also let us know about new services you would wish to see developed.