

Virology Department

User Manual



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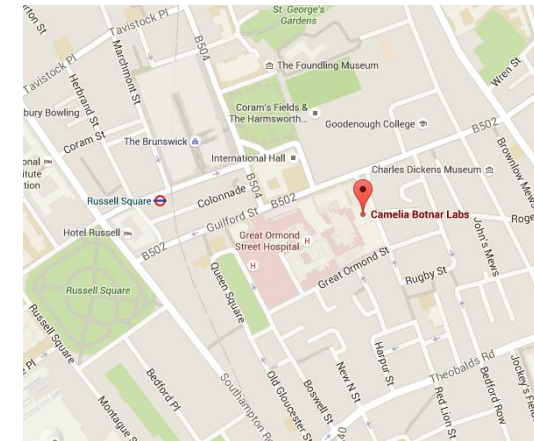
General Information

Location

Department of Microbiology, Virology and Infection Control
Level 4
Camelia Botnar Laboratories
Great Ormond Street Hospital
Great Ormond Street
London
WC1N 3JH

Hays DX Number: GOSH DX 6640203, Bloomsbury 91 WC

Website: <http://www.labs.gosh.nhs.uk/laboratory-services/microbiology-virology-and-infection-control>



Camelia Botnar Laboratories	Level	Room number
Virology Laboratory and Specimen Reception	4	P4.040
Virology Laboratory	4	P4.036

An Overview

Great Ormond Street Hospital (GOSH) Laboratory Medicine offers a range of unique clinical laboratory services. Our expert teams support the tertiary paediatric services provided at Great Ormond Street Hospital as well as acting as a specialist referral centre for hospitals, clinics and clinicians across the world.

Our world-class teams are comprised of medics, clinical scientists, researchers, technologists and administrative support staff. Our laboratory teams play an essential role in the diagnosis and treatment of childhood illness. We also provide some services for testing of adult samples.

A key part of our service is the expert clinical advice that supports the delivery of results and diagnosis. Close links are also maintained with clinical colleagues and researchers at the UCL Institute of Child Health (ICH).

The laboratories and associated facilities are housed within a purpose-built facility on the GOSH site. Our services are fully accredited with UKAS against ISO 15189: 2012 and conform to all the legal and statutory regulatory requirements of the Human Tissue Act and MHRA. The laboratories subscribe to national and international quality assurance schemes for all assays where available.

Key Contacts

Microbiology and Virology Telephone Numbers		Telephone extension	Bleep / direct line
Laboratories			
Microbiology Laboratory		5280/ 8661	Direct line 020 7829 8661 Bleep 0670
Virology Laboratory		8506	Direct line 020 7813 8506
Senior laboratory staff			
Lead Laboratory Manager	Christine Morris	8664	Direct line 0207 829 8664
Laboratory Manager	Tanja Rockenbach	8507	Direct line 0207 813 8507
Senior Molecular Clinical Scientist	Dr. Kathryn Harris	0437	Direct line 0207405 9200
Molecular Clinical Scientist (VZV reference laboratory)	Julianne Brown	5929	Direct line 0207 405 5929
Quality Lead	Cathryn Skea	8507	Direct line 0207 813 8506
Training Lead	Reeya Sudra	8507	Direct line 0207 813 8507
Health and Safety Lead	Moushumi Sarker	8506	Direct line 0207 813 8506
Clinical advice			
Microbiology and Virology Specialist Registrars	On rotation	5282	Direct line 0207405 9200
Microbiology and Virology Consultants	Dr. Garth Dixon (Clinical Lead)	8594	Direct line 0207 813 8594
	Dr. John Hartley	7930	Direct line 0207 813 7930
	Dr. James Soothill	5237	Direct line 0207 813 5237
	Prof. Judy Breuer (Virology only)	2129	Direct line 0207405 9200

Laboratory Service

Routine Working Hours

Normal Working hours

Monday to Friday 08:00 – 17:30

Clinical advice

The laboratory specialist registrars and consultants are contactable for clinical advice from 09:00 – 17:30 Monday to Friday. See table above for contact numbers. At all other times a Specialist Registrar and Consultant are on call and contactable via the switchboard. 020 7405 9200

Saturday and Bank holiday service

08:00 – 15:00 Reduced service – Please see table below.

Tests Available Out of Hours

Saturday and Bank holiday service

Viral respiratory PCR including PCP PCR for BALs

Viral gastroenteritis PCR

Clostridium difficile PCR

Varicella contact IgG testing

Needlestick injury testing of donor (HIV antibody and Hepatitis B surface antigen – HCV antibodies will be as part of the next routine run)

Viral neurological PCR screen on CSF (VZV, HSV, Parecho and enterovirus)

Out of hours Monday to Sunday

Needle-stick injury testing and VZV contact testing is available out of hours. Please contact the Microbiology department to arrange. BLEEP 0670

Laboratory Advisory Services

Clinical advice

The laboratory Specialist Registrars and Consultants are contactable for clinical advice including:

- clinical indications and choice of appropriate tests
- advice on individual clinical cases
- professional judgement on the interpretation of the results of examinations

Please refer to the above table for contact details.

Scientific and Technical advice

Biomedical Scientists in the laboratory are available for scientific and technical advice. Please refer to the above table for contact details.

Request Forms

Internal

Use PIMS to print request forms wherever possible.

Ensure that the correct patient is identified before proceeding with the request, and that the hospital number is correct.

If tests are being undertaken on a relative (for example mother, father, sibling) they should be registered on PIMS and allocated a hospital number. In exceptional circumstances, where a relative is not registered on PIMS, then a PIMS downtime form must be used. Full name and date of birth must be used on forms (not 'mother of'). It is never acceptable to use patient forms / stickers with the name changed.

Identify the consultant and the requester.

Complete the bleep / telephone number.

Select the location (ward). Please do not free text inappropriate or temporary locations.

Select the type of sample and the site (where appropriate).

Select the investigations required.

Add any relevant clinical information - this will help to ensure that the correct investigations are targeted by the laboratory.

Select priority status -Urgent, Soon or Routine.

PIMS will automatically fill in any alerts. If a PIMS form is unavailable, write this information on the downtime form.

If it is not possible to use PIMS request forms, please ensure that the PIMS downtime form contains the above information. This form can be downloaded from the GOS web.

After printing the form

Write the date and time of collection in the box provided.

Add any additional specimen details that could not be found on the computer list.

Add any additional or alternate locations where the report, or a copy of the report, should be sent.

External Test Requests

It is important that full contact details are provided so that contact can be made if necessary and to allow the accurate and timely release of results and reports.

Sample Labelling

Samples should be clearly labelled, preferably with printed labels including the following information:

- Surname
- Forename
- Date of Birth
- Gender
- Hospital number (or a reference number)
- Date and time of collection

Missing or inaccurate patient data will lead to delays in testing/ rejection of sample.

All samples must be taken and labelled in accordance with the Clinical Procedure Guidelines, which are available on the hospital intranet (GOS web).

PIMS generated sticky labels can be used for all samples. Please place the label on the bottle so that it does not obscure the view of the sample.

In instances where a sample fails to meet laboratory acceptance criteria, the requesting ward or doctor will be contacted and a statement to that effect documented in the report. Please refer to the policy: [Accepting unlabelled and mislabelled samples available in the GOS web document library](#)

Rejection of samples

Although every effort is taken to avoid rejecting samples received in the lab, in some circumstances specimens cannot be accepted for testing. Reasons include, but are not limited to;

- Missing/ incomplete/ illegible patient identifiable information
- Incorrect or un-matching patient identifiable information
- Missing request forms
- Leaking specimens
- Incorrect sample type
- Insufficient sample
- Compromised sample integrity e.g. haemolysis of blood specimen, age of specimen, incorrect sample transport

Dry swabs are not appropriate for any virology testing. Please use Sigma Virocult, green or red topped tubes which have virus transport medium. Virology keep a small supply of these for use on the wards if they have run out.

Sample Transport to the Laboratory

The pneumatic chute system should be the primary mode of transport for the delivery of pathology samples. In addition, the Site Services department provides a routine specimen transport service.

Virology/Microbiology chute number 041

Certain samples require hand delivery and must not be placed in the chute.

Samples requiring hand delivery	Delivery location	Room number
Post Mortem Samples	Virology Specimen Reception	P4.040

If the chute is unavailable

Site Services can be contacted on ext 8282 to arrange an urgent delivery.

Ward staff may bring specimens to the laboratories, which are located on level 4 Camelia Botnar Laboratories.

Delivery of samples from external sources

Samples can be delivered to the Virology department by Royal Mail, a trusted courier or Hays DX. (Please refer to General Information for the address)

Please ensure that all samples are packaged appropriately in suitable containers with enough absorbent material present to absorb any spillage that may occur in the event of a leak or damage to the packaging. Relevant request forms and paperwork should be included, outside of the sample containment as to avoid spoilage in the event of a leak.

It is the responsibility of the sender to ensure that samples are sent in an appropriate manner to protect the health and safety of the chosen delivery service.

The following link has links to appropriate guidance and legislation for the transport and handling of infectious material.

<http://www.dft.gov.uk/vca/dangerousgoods/useful-links.asp>

The following link provides guidance from the Royal Mail on using their services:

<http://www.royalmail.com/business/services/sending/parcels-uk/safebox>

Accessing results

We endeavour to produce and report all of our results in a timely manner, fitting in with turnaround times stated with our listed investigations.

Results will not be communicated directly to patients.

Internal Computer Access to Results

Results are accessible on ward computers.

Click on Novell applications and select the 'Pathology Results' icon. Alternatively, use the GOS web/ useful links /pathology results

Enter user ID and password.

Follow prompts for hospital number (or family name and given name) and department.

Grossly abnormal or unexpected abnormal results are telephoned to the requesting ward or doctor.

Please refer to the tables on the following pages for turnaround times for each test.

In case of computer access problems phone x5066 for the computer help desk.

External results.

Result reports are printed and posted to the address of the requesting laboratory or GP supplied on the request form.

If results are required urgently, copies of the report can be faxed or emailed using the NHS encrypted email system. Results can be released over the phone to Doctors, Nurses and other healthcare professionals in line with current Caldicott legislation.

For interpretation of results, clinical guidance can be given from the appropriate sources, see above for a list of contacts.

Results portal - nQuire

GOS now offers an online web based results portal, allowing external health care providers to view the results and reports for their patients. This is a secure service, access is granted by registration and creation of an account.

Once an account is set up, paper reporting will be turned off.

Full details on the service and how to **set up an account** can be found at the following website:

<http://www.labs.gosh.nhs.uk/laboratory-services/results-portal>

The results portal can be accessed at the following website:

<https://nquire.gosh.nhs.uk/nquire/apl/inq/ISS.UI.Common.Main.zen>

Biological Reference Intervals

Investigation	Reference interval
Rubella IgG	>15 IU/ml is considered protective
Hepatitis B surface antibodies	>100 IU/ml is considered protective 10-100 IU/ml is considered partially protective, a booster vaccination is recommended

Requesting additional investigations

If additional investigations are required after the specimen has been dispatched or processed by the laboratory, please telephone as soon as possible. There is a practical time limit for requesting additional investigations, as the laboratory stores specimens for variable time periods before disposal. Please note that some specimens deteriorate in storage rendering them unsuitable for further investigation. In addition to this, sample volume may be insufficient to carry out additional testing.

Sample retention times	
Molecular	1 Year
Serology	10 Years

Limitations and factors effecting testing

The accuracy of results can be impacted by a number of factors, many of which can be controlled or avoided.

- Extended delay between collection and receipt into the laboratory – extended delays in receipt of specimens can result in a deterioration of the specimen quality and therefore the quality of the result. Correct storage of samples is key to maintaining integrity. Please ensure that samples are delivered to the laboratory in a timely manner after collection
- Haemolysed, heat inactivated, lipaemic or bacterially infected samples may produce inaccurate results
- Small volume samples – small volume samples may need to be diluted, therefore affecting the accuracy of the result and a repeat, larger volume may need to be sent for confirmation
- In early acute phases of infection, markers of viral infection may not be detectable and therefore a negative result does not exclude the possibility of an active infection.

Consent

Verbal agreement from parents for HIV testing is required and must be detailed in the patient notes

Patient preparation

Please follow GOS guidelines/local trust policy on appropriate patient preparation when taking samples

Further information on sample types and collection can be found at the following address:

<http://www.gosh.nhs.uk/health-professionals/clinical-guidelines/specimen-collection-microbiology-and-virology>

Quality Assurance and Accreditation

The GOSH Virology department operates a robust quality management system, following trust policy as outlined below:

The GOSH Virology department currently maintains accreditation from the following bodies:

- UKAS
- IBMS

The laboratory currently subscribes to external quality assurance panels provided by UK National External Quality Assessment Scheme (UKNEQAS), Quality Control for Molecular Diagnostics (QCMD), Instand and Labquality. Certification to confirm participation is available upon request.

The laboratory also carries out internal quality assurance in the form of anonymous resubmission of previously tested samples.

Laboratory Complaints Procedure

The medical and senior management staff in the Department of Paediatric Laboratory Medicine work very closely with users both within the Hospital Trust and with external referring clinicians. In order to provide the best service to its users, the department encourages both positive and negative feedback. The laboratory manager can be contacted to discuss concerns.

User satisfaction and complaints procedure AQU 013, which is available on Qpulse, the Trust's Quality Management System

The Trust also has a general complaints policy, which can be located on the GOS web document library

Laboratory Policy on Protection of Personal Information

The laboratory adheres to the Trust's Policy on Information Governance to ensure compliance with the key principles of Information Governance. The Trust wishes to ensure all patients and service users to have confidence that their records will be maintained securely and will not be disclosed or shared inappropriately.

Details of the Trust's Information Governance Policy can be located on the GOS web document library.

In House Laboratory Services

The table below outlines the testing provided by the GOS Virology department that is carried out in house – further or additional testing that is tested by an external laboratory are noted.

Unless otherwise stated, minimum volumes are as follows:

EDTA Whole blood 3ml

Serum 3ml

CSF 300ul

Urine 3ml

In cases where only a small sample volume can be acquired, please contact the lab to discuss.

Hays DX collection from GOSH is at 4 pm Monday to Friday. Samples requiring referral must be in the laboratory by 13:00 to make that day's collection.

Serological screening tests for a range of antibodies will require larger sample volumes. Below are the available screening panels and required sample volumes

Screening Panel	Antibodies detected	Volume required
Leukaemia Screen	HSV IgG Measles IgG CMV IgG	VZV IgG EBV VCA IgG 5ml Brown top serum tube (minimum)
Renal Transplant Screen	VZV IgG CMV IgG Measles IgG HBsAg	HCV Antibodies HIV1 and 2 Antibodies EBV VCA IgG 5ml Brown top serum tube (minimum)
Heart/lung Transplant assessment	HSV IgG VZV IgG CMV IgG Measles IgG HBsAg	Toxoplasma total Ab HCV Antibodies HIV 1 and 2 Antibodies Rubella IgG EBV VCA IgG 5ml Brown top serum tube (minimum)
Hepatitis Screen	EBV VCA IgG EBV VCA IgM CMV IgG CMV IgM	Hep A total Ab HBsAg HCV Ab 5ml Brown top serum tube (minimum)
Haemophiliac Screen	HIV 1 and 2 Ab Anti-HBsAb	Hep A total Ab HCV Ab 5ml Brown top serum tube (minimum)

In house investigations				
Virus	Tests	Sample Requirements	Turnaround Time	Additional Information
Adeno Virus	Real time PCR	EDTA whole Blood Urine NPA CSF Faeces Eye swab	48 Hours	
Borrelia - Lyme	Serology – IgM and IgG	Brown top serum tube	48 Hours	
Clostridium difficile (<i>tested routinely as part of the gastroenteritis panel</i>)	Real time PCR	Stool sample (Approx. walnut size)	48 Hours	
Cytomegalovirus (CMV)	Real time PCR	EDTA whole blood Urine NPA CSF	48 Hours	
	Serology – IgM and IgG	Brown top serum tube	48 Hours	
	Referred – Resistance testing	EDTA whole blood	14 Days	
Enterovirus	Real time PCR	EDTA Whole blood NPA CSF Faeces Throat swab	48 Hours	
	Referred - IgM Serology	Serum	14 Days	
	Referred – Typing	EDTA whole blood	21 Days	

Epstein Barr Virus (EBV)	Real time PCR	EDTA whole Blood CSF Eye Swab BAL	48 hours	
	Serology – IgM and IgG	Brown top serum tube	48 hours	
	Referred serology	Brown top serum tube	14 days	
Faecal Pancreatic Elastase	Serology	Formed stool sample (Approx. walnut size)	7 Days	Liquid stools are not appropriate for testing. Samples can be stored for 3 days at 4°C. Samples received from external sources should arrive on ice or dry ice to maintain sample integrity
Gastroenteritis Virus panel – This panel tests for Astro Virus, Noro virus G1 and G2, Rota virus, Sapovirus and Adenovirus. Clostridium difficile is also routinely tested as part of this panel.	Real time PCR	Stool sample (Approx. walnut size)	48 hours	
Hepatitis A Virus (HAV)	Serology – IgM and Total antibody	Brown top serum tube	48 hours	
	Referred - PCR and reference	Brown top serum tube	7 Days	
Hepatitis B Virus (HBV)	Real time PCR	5ml EDTA whole blood	48 hours	Ensure sample reaches laboratory within 24 hours after collection
	Serology – HBsAb, HBsAg, HBcT, HBeAg/Ab	Brown top serum tube	48 hours	
	Referred – HBcore IgM, HBsAg confirmation	Brown top serum tube	14 Days	

Hepatitis C Virus (HCV)	Real time PCR	5ml EDTA whole blood	48 hours	Ensure sample reaches laboratory within 24 hours after collection
	Serology – antibodies and antigen	Brown top serum tube	4 Days	
	Referred - Confirmation testing Referred - genotyping	5ml EDTA whole blood	14 Days	
		5ml EDTA whole blood	14 Days	
Herpes Simplex Virus (HSV)	Real time PCR	EDTA whole blood Mouth Swab CSF Lesion swabs Eye swabs	48 Hours	
	Serology - IgG	Brown top serum tube	7 Days	
HTLV 1 and 2	Referred - Real time PCR	EDTA whole blood Brown top serum tube	7 Days	
	Serology – HTLV 1 and 2 antibodies	Brown top serum tube	7 Days	
Human Herpes Virus 6 (HHV6)	Real time PCR	EDTA whole blood CSF	48 hours	
	Referred - Serology	Brown top serum tube	30 Days	
Human Immunodeficiency Virus (HIV)	Real time PCR	5ml EDTA whole blood	48 hours	Ensure sample reaches laboratory within 24 hours after collection
	Serology - antibodies	Brown top serum tube	48 hours	

	Referred – Confirmation	5ml EDTA whole blood	14 Days
	Referred – Proviral PCR	5ml EDTA whole blood	3 Days
	Referred – Resistance Genotyping	5ml EDTA whole blood	14 Days
Measles	Referred - PCR	Oracol Oral Fluid Throat Swab Urine NPA	7 Days
	Serology – IgG	Brown top serum tube	48 hours
	Referred - Serology	Brown top serum tube	14 Days
Mycoplasma	Referred - PCR	EDTA Whole blood CSF NPA BAL	72 Hours
	Serology – Passive particle agglutination	Brown top serum tube	7 days
Parechovirus	Real time PCR	EDTA Whole blood NPA CSF Faeces Throat swab	48 hours
Parvovirus B19	Real time PCR	EDTA whole blood CSF	48 hours
	Referred - Serology	Brown top serum tube	14 Days
<i>Pneumocystis jirovecii</i> pneumonia (PCP)	Real time PCR	Bronchial alveolar lavage (BAL)	48 hours

Polyoma BK and JC Virus	Real time PCR	EDTA whole blood Urine CSF	48 hours	
	Referred - Serology	Brown top serum tube CSF	21 Days	
Respiratory Virus Panel: Flu A, B and H1N1, Parafly 1, 2 and 3, RSV A and B, Human metapneumo Virus and Adeno virus	Real time PCR	Nasopharogeal Aspirate (NPA) Bronchial alveolar lavage (BAL) Nose and throat swab (NT)	48 hours	For samples that arrive before 11am Monday to Friday (10am Saturday), every effort will be made to have results released by 17:30 that day.
Extended Respiratory Panel: Corona, Rhino and Entero	Extended PCR panel	Nasopharogeal Aspirate (NPA) Bronchial alveolar lavage (BAL)	48 hours	
Rubella	Referred - PCR	Oracol Oral Fluid NPA Urine Throat swab CSF Amniotic Fluid	14 Days	
	Serology – IgG	Brown top serum tube	48 Hours	
	Referred – IgM Serology	Brown top serum tube Plasma Oracol Oral Fluid	7 Days	
TB Quantiferon	Serology	Please collect or phone the lab for the correct vacutainers to be sent.	7 days	Vacutainers must be filled to the appropriate level. Over or under filling will result in inaccurate results leading to delays in testing. Samples must be received into the lab within 16 hours of being taken and taken in the correct order. A guidance sheet is available upon request.

Toxoplasma	Serology – Total antibodies	Brown top serum tube	48 hours	
	Referred - PCR	EDTA Whole Blood CSF	3 Days	
Varicella Zoster Virus (VZV)	Real time PCR	EDTA whole blood NPA CSF Vesicle/Eye Swab	48 hours	Additional reference services are available for VZV, please see below.
	Serology - IgG	Brown top serum tube	48 hours	In contact cases, please phone discuss with the lab for urgent testing.

Referred Testing

A number of tests are sent away to external laboratories, below are common requests. Additional tests not listed can be discussed with the laboratory or a clinical consultant

Virus	Tests	Sample Requirements	Turnaround Time	Additional Information
Alpha/Hantavirus	Serology	5ml EDTA Whole Blood Brown top serum Tube	31 Days	PHE Porton Down
Arbo/Flavivirus	Serology	5ml EDTA Whole Blood Brown top serum Tube	14 Days	PHE Porton Down
Chlamydia pneumoniae	PCR	Eye swab Throat swab Urine	7 Days	
Hepatitis D Virus	PCR Serology	EDTA Whole Blood Brown top serum Tube	14 Days	
Hepatitis E Virus	Referred PCR and serology	EDTA Whole Blood	14 Days	
HHV7	PCR	EDTA Whole Blood	3 Days	
Mumps	PCR and Serology	Oracol Oral fluid Throat swab NPA Urine CSF	14 Days	PHE Colindale
Rickettsia/Coxiella/Q Fever	Serology	5ml EDTA Whole Blood Brown top serum Tube	14 Days	Porton Down

VZV Reference Testing

The Varicella Zoster Reference Laboratory (VZRL) is based at Great Ormond Street Hospital and is headed by Professor Judith Breuer (see below for contact details for samples and advice). Please use our request forms for requesting of tests, found on the GOSH website.

VZV Reference Testing			
Test	Sample Type	Turnaround time	Additional Comments
VZV quantitative IgG	Serum	7 Days	
VZV Quantitative PCR	EDTA Whole blood CSF	14 Days	
VZV Genotyping	Isolates Primary swabs in VTM or Saline DNA	28 Days	VZV molecular genotyping of virus from outbreaks and transmission events
VZV Vaccine/wildtype differentiation	Isolates Primary swabs in VTM or Saline DNA	14 Days	Molecular typing of post-vaccine rashes for differentiation between vaccine and wild type virus in rashes occurring <42 days post vaccination
VZV Genotypic Resistance	Isolates Primary swabs in VTM or Saline DNA	28 Days	VZV acyclovir genotypic resistance testing

Contact Details	VZV Reference Lab	General Enquiries:	Clinical Enquiries:
	Virology Laboratory	Julianne Brown	Professor Judy Breuer
	Level 4, Camelia Botnar Laboratories	Tel: 020 7405 9200 Ext 5929	Tel: 020 7405 9200 Ext 2129 / 020 3108 2130
	Great Ormond Street Hospital for Children	Email: julianne.brown@nhs.net	Email: j.breuer@ucl.ac.uk
	Great Ormond Street		
	London WC1N 3JH		
	Hays Dx: GOSH DX 6640203, Bloomsbury 91 WC		

References and links

Forms and documents are available on the hospital intranet (GOSweb) and Qpulse, the Trust's Quality Management System
Clinical guidelines are also available on the hospital website <http://www.gosh.nhs.uk/health-professionals/clinical-guidelines/>

Forms

VZV reference request forms	http://www.labs.gosh.nhs.uk/laboratory-services/microbiology-virology-and-infection-control/vz-reference-lab
PIMS downtime form	http://goshweb.pangosh.nhs.uk/corporate/ict/Getting_help/PIMS_Information/PIMS_downtime_procedures/Documents/Forms/AllItems.aspx
nQuire user registration and guidance	http://www.labs.gosh.nhs.uk/laboratory-services/results-portal
nQuire results portal	https://nquire.gosh.nhs.uk/nquire/apl/inq/ISS.UI.Common.Main.zen

Documents

Patient Identification Policy	http://goshweb.pangosh.nhs.uk/document_library/Corporate Library/Patient Identification Policy.docx
Accepting Unlabelled and Mislabeled Samples Policy	http://goshweb/document_library/Corporate%20Library/PolicyOnAcceptingUnlabelledSamples.DOC
AQU 013 Laboratory User Satisfaction and Complaints Procedure	Available on Qpulse
Trust Complaints Policy	http://goshweb.pangosh.nhs.uk/document_library/corporate library/complaints policy.docx
Information Governance Policy	http://goshweb/document_library/Corporate Library/Information Governance Policy.doc

Image references

Adenovirus	http://www.microbiologybook.org/virol/adenocdc.jpg
Herpes virus	http://www.microbiologybook.org/virol/hsv1.jpg
Noro virus	http://www.daviddarling.info/images/norovirus.jpg

Influenza A	http://www.microbiologybook.org/mhunt/fluA.jpg
Parainfluenza	http://www.microbiologybook.org/virol/paraflu.jpg