



Cellular Pathology User Guide

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Section 1: General Information

Location

The Cellular Pathology laboratory is located on Level O, Royal Blackburn Teaching Hospital, Haslingden Rd, Blackburn BB2 3HH.

Andrology services are currently provided from a suite at Burnley General Teaching Hospital. Please see the Andrology user manual for full details.

Clinical Services

The department provides:

- Histopathology including immunohistochemistry, frozen sections services and immunofluorescence
- Diagnostic cytology
- Andrology refer to the andrology user information page.

Opening hours

The department is open from 8 am to 5pm Monday to Friday. There is no service outside of these hours.

Key personnel and contact information

General enquiries

Cellular pathology enquiries line - 01254 732621 (82621)

Results are available on the ICE and GP systems - please check these systems before ringing the department.

Clinical advice

Clinical advice is available between 8.45 and 5pm Monday to Friday. If you require clinical advice please contact (01254) 732621 or extension 82621 if ringing from within the hospital. Advice about cases reported externally can be directed to the reporting pathologist where their contact details are within the report.

Complaints

Any complaints about the service should be directed to the Lead Biomedical scientist in the first instance on 01254 732438 or via e-mail. They can also be raised via the Customer Relations Team by phone on 01254 733700.



| Clinical Staff | | Extension |
|--------------------------------------|---------------------------------|----------------|
| Dr Kathryn Brelsford | Consultant Histopathologist | Extension |
| Dr Laszlo Hegyi | Consultant Histopathologist | |
| Dr Neil.Sahasrabudhe | Consultant Histopathologist | |
| Dr Santhi Kumar | Consultant Histopathologist | |
| Dr Sunita Rajaram | Consultant Histopathologist | |
| Dr Rupesh Wahane | Consultant Histopathologist | |
| Dr Ambreen Moatasim | Consultant Histopathologist | |
| Dr Namrah Sadiq | Consultant Histopathologist and | |
| Di Naman Saaiq | Clinical Lead | |
| Dr Iskander Chaudhry | Consultant Histopathologist | |
| Dr Durgesh Rana | Consultant Cytopathologist | 01254 732621 |
| Dr Rashmi Ratnakaran | Consultant Histopathologist | |
| Dr. Qurratulain Chundriger | Consultant Histopathologist | |
| Dr. Anila Chughtai | Consultant Histopathologist | |
| Dr Syeddah Mujtaba | Consultant Histopathologist | |
| Dr Godwins Echejoh | Clinical Fellow | |
| Dr Aditi Rohan Sawant | Clinical Fellow | |
| Nadira Narine | Consultant Biomedical Scientist | |
| Departmental Management | Constitute Biomedical Scientist | |
| Craig Rogers | Lead Biomedical Scientist | 01254 73 82438 |
| Directorate Staff | Lead Biolificated Scientist | 0123173 02 130 |
| Clinical Director | Dr Yacoob Nakuda | |
| Pathology Directorate Manager | Dayle Squires | 84162 |
| Pathology Operations Manager | Pamela Henderson | 84173 |
| Pathology IT Manager | Samuel Bolton | 82473 |
| Pathology Quality & Training Manager | Tina Cuthbertson | 83103 |
| rathology Quality & Training Manager | Tina Cathoci toon | 03103 |





Labelling of requests and samples

Use the request form provided by the ELHT laboratory, printed ICE requests or endoscopy (Solus) forms.

If sending the sample to an external service e.g. HMDS, MFT, Genomics, use destination request form and follow their sample collection requirements. They may be different to ELHT.

All fields on the histology/diagnostic request card or ICE request must be completed to ensure appropriate investigation of the specimen. All samples must comply with our specimen acceptance policy.

Missing information or requesting errors will result in a delay to specimen processing and reporting and may affect patient safety. Correct patient and specimen information is vital for us to provide a quality service to our users.

All information provide should be relevant and clearly legible.

Any specimens deemed to be high risk or potentially high risk should be clearly labelled as such to protect the health and safety of all staff.

Labelling

THERE MUST BE 3 MATCHING IDENTIFERS BETWEEN THE REQUEST CARD AND EACH SPECIMEN POT.

The following mandatory information must be provided for us to accept the specimen:

Essential Patient Identifiers:

Surname and Forename
Unique identification number – Hospital or NHS number
Date of birth

Essential Clinical Details:

Infection risk status – to ensure health and safety of all staff

Specimen type and site – must match on specimen pot and request card

Relevant clinical information – to ensure all necessary investigations are performed. Sample type is not clinical information. Lack of information may delay diagnosis.

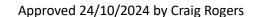
Consent – clear indication of any patient requirements e.g. return of material, burial, etc.

Date/time taken – essential to ensure proper fixation of high risk specimens

If the report is needed for specific MDT date, this must be indicated so that the samples can be prioritised correctly.

Legibility is essential.

Where samples do not meet the acceptance criteria, they may be returned to senders for correction or staff may be asked to attend the laboratory to correct the errors.





Sample containers

All specimens for routine histopathology (except frozen section material) must be immersed in a widemouthed container of formalin fixative as quickly as possible after excision.

The container must be of sufficient size to allow the specimen to be surrounded by fixative. Ideally the volume of fixative should be at least 10x the volume of the specimen. If multiple specimens are taken from the patient at any one session, they must be put into separate containers and labelled accordingly.

Specimen containers for theatres are available from the laboratory during working hours.

Formalin filled 60ml screw-topped plastic containers are available for small biopsies such as skin, tru-cut and endoscopic biopsies. There is also a range of containers of different sizes available from the laboratory on request.

Please ensure that all containers have their lids either screwed on tightly or snapped on completely around the whole circumference of the container before transporting to the laboratory.

ELHT use 10% Neutral Buffered Formalin provided by Genta Medical Ltd.

High risk specimens

High risk specimens i.e. suspected category 3 pathogen specimens such as Coronavirus, TB, and blood borne virus specimens should be sent clearly marked to the laboratory as 'HIGH RISK'. The specimens should be double bagged before being sent to the laboratory.

Specimens will be fixed for 48 hours before being processed and this will extend the time for reporting. High risk specimens are not suitable for frozen sections

If the specimen is suspected to be 'HIGH RISK" the request form and the specimen pot should be clearly marked with high risk stickers. The specimens should be double bagged before transport to the laboratory. Specimens will be fixed for 48 hours before being processed. Please not that an IR1 may be raised if high risk samples are not clearly identifiable.

Frozen section

The laboratory should be informed at least 24 hours before the operation takes place due to specialist nature of the service. The laboratory must be informed of unscheduled frozen sections as soon as possible. This is to ascertain the availability of a Consultant Histopathologist for tissue diagnosis.

The specimen should be sent to the Department immediately after excision in a dry specimen container (i.e. without fixative). Please inform the department if there is likely to be a significant delay or cancellation. A telephone extension number indicated clearly on the request form is mandatory so the report can be phoned through as soon as available.

Specimens for frozen section need transporting urgently to the laboratory. High risk specimens (including Coronavirus or tissues at risk from Coronavirus e.g. head and neck) are not suitable for frozen sections. There is no facility to perform frozen sections out of hours.





Routine samples

All histology specimens need to be transported to the lab as soon as possible. Once in formalin the process of fixation preserves the tissue. Specimens should be stored at room temperature.

Packaging labelling and dispatch

The mislabelling and poor packaging of specimens is a major risk to patient safety.

All specimens should be transported in the relevant fixative or transport medium in approved containers.

All specimen pots should be tightly sealed and transported using specimen bags where possible. The request card should be placed in the pocket of the specimen bag, separate to the sample in case of spillage.

Sample transport

Please note that Histology/diagnostic cytology samples are not suitable for the hospital Pod system.

Samples collected at Burnley General Teaching Hospital (BGTH).

Samples collected in locations at BGTH should be sent to RBTH via the lab reception at BGTH. There is no Cellular Pathology dept at BGTH and no facility to open or examine sample containers.

Bags/boxes of samples will be signed for at BGTH between **09:00** and **17:00**, but individual cases/pots need not be checked as all samples are checked on receipt at RBTH.

Please note that samples arriving in the laboratory at BGTH after 17:00 will not be signed for.

Samples collected at Royal Blackburn teaching Hospital (RBTH)

Hospital samples can be delivered to the laboratory between 8 and 5pm

GP/community samples

These are collected from surgeries on the regular runs.

Specimen storage

If there is a delay in transporting a sample, specimens in formalin must be stored at room temperature, <u>not</u> refrigerated. Fresh samples

| Specimen | Storage | |
|--|------------------|--|
| Neutral Buffered Formalin | Room temperature | |
| Dry or fresh fluid samples | Fridge | |
| Transport medium (CytoLyt and PreservCyt collection fluid) | Fridge | |
| Michel's medium | Room temperature | |





Special samples:

Skin Biopsy for Immunofluorescence

Skin biopsies for immunofluorescence (IMF) should be placed in Michel's transport medium before being transported to the laboratory at the earliest opportunity. This is available from the laboratory at RBTH. **Skin specimens for immunofluorescence should not be placed in formalin**

In the absence of Michel's transport medium, saline or wet gauze can be used to transport IMF biopsies. Please inform the laboratory if this is the case.

Ideally peri-lesional skin should be submitted for examination. Samples for <u>Epidermolysis bullosa</u> investigations need to be sent with a St. John's Institute of Dermatopathology request form. Samples are forwarded via the Cellular pathology Department to St. John's.

Please note that our IMF service is not currently covered by our UKAS accreditation.

Alopecia biopsies

Samples for the investigation of alopecia must be clearly marked as they require specialist processing and reporting. These are sent externally for reporting.

Muscle biopsies

Muscle biopsies are sent directly to Neuropathology at Royal Preston Hospital directly from theatre. For further information please contact the Neuropathology laboratory.

Ophthalmic specimens

Ophthalmic specimens are sent to Manchester University NHS Foundation Trust for reporting. For further information please contact their laboratory.

Foetal and peri-natal specimens (placenta)

Foetal and peri-natal specimens are sent directly to Diagnostic Paediatric Histopathology Service In Royal Manchester for reporting. For further information please contact their laboratory.

Synovial/joint fluid samples

Synovial/joint fluid samples are collected in lithium heparin tubes and sent to the Manchester Cytology Centre for analysis. Please contact them on telephone numbers 0161 276 5115/5116/6727 for Lithium Heparin bottles and/or request forms.

Their user guide is available on: https://mft.nhs.uk/app/uploads/2023/05/Synovial-fluid-user-manual-2023.pdf



Reporting of results

Reports are issued only after authorisation by a pathologist and will be available on ICE or GP systems. Hard copies are available for those areas that request them but these will be phased out over time.

Turnaround times are monitored by the department.

The department works to the target of reporting 90% of cases within 10 days. Compliance against this is monitored monthly. In some instances, it may be necessary to take extra blocks and/or apply specialised staining techniques to clarify or confirm the diagnosis. In such cases results will take longer.

| Priority | | Expected Turnaround time |
|---------------------|--|----------------------------------|
| 2week wait | Patients on cancer pathways should be marked as 2-week wait. The ELHT Policy is a Red Cross (x). Using different symbols E.g. asterisks and dots may result in the sample not being identified as 2-week wait. | 90% within 10-days of collection |
| | Escalating cases that have not been correctly marked leads to delays in diagnosis. | |
| Urgent Specimens | Urgent cases, where the immediate clinical management of the case depends on speedy tissue diagnosis. Please telephone the Histopathologist to discuss the case. | 90% within 10-days of collection |
| | The request form should be clearly marked "URGENT" preferably in red ink. | |
| Routine | Cases with no suspicious or concerning clinical information, not on the above pathways. | 90% within 10-days of collection |
| | Failure to provide relevant clinical information will result in case being triaged as routine priority which may significantly delay reporting. | |

Large specimens require adequate time to fix before investigations can be started in order to provide optimum accuracy.

Cellular Pathology is a manual discipline and turnaround times are directly affected by staffing levels. If samples are sent off site then the TAT will be increased. Both these will extend the expected times above.





External reports

In response to service pressures, the department will use external reporting services or colleagues within the Lancashire and South Cumbria Pathology Collaboration to report cases.

The external reports are issued by a pathologist but need transcription and authorisation in pathology at ELHT before they are available on ICE or GP systems. This is an additional step and may add to the turnaround time.

Additional testing and review

If clinicians require additional work not performed by the department, then they must request this in writing, usually to the reporting pathologist. If the test is external or not part of the repertoire, there is likely to be a cost for this.

Photography

Photography of surgical specimens or slides can be performed in selected cases but must be requested in writing by clinicians. Capacity to photograph cases depends on the availability of Consultant Pathologists.

Uncertainty of measurement

All types of measurements have some inaccuracies and therefore measurement results can only be estimates of the quantities being measured.

Cellular Pathology specimens are collected in unique circumstances and as such there will always be some measure of uncertainty.

Our reports are mainly qualitative in nature, i.e., they may not yield a numeric result and a value for uncertainty cannot be derived in all cases. Some measurands e.g. weights and measurements in a macroscopic description do not give prognostic information and assessment of the uncertainty of measurement is inappropriate.

Differences in patient preparation, specimen collection technique, transportation and storage time, and analytical process all contribute to uncertainty

Our department regularly monitors its work with internal quality control and participation in external quality assurance schemes.

Factors affecting the performance of tests and diagnosis

- Time taken for the specimen to be placed in formalin once excised from the body
- Total immersion in formalin (ideally there should be 10x the fixative to specimen)
- Time taken for the specimen to arrive in the laboratory (Please send specimens in a timely manner)
- Quality of clinical information
- Failure to follow the specimen labelling policy
- Not correctly labelling requests as urgent or cancer pathway will result in a delay
- Failure to follow instructions for the specific specimen requirements e.g frozen sections/IMF will result in a frozen tests not being performed.
- Not contacting the laboratory in advance for a frozen section may mean it cannot be performed, due to a lack of availability of technical staff and/or Consultant staff.





Section 3: Cytology

Cytology samples are traditionally divided into two categories

- Gynaecological samples (e.g. cervical smears) and
- all other samples (diagnostic cytology).

Services Available at ELHT

ELHT only process and report on diagnostic non-gynaecological cytology samples. Samples for cervical cytology are collected from GP surgeries and processed at the Manchester Cytology Centre. The contact details for the lab are:

Manchester Cytology Centre First Floor, Clinical Sciences Centre Manchester Royal Infirmary Oxford Road, Manchester M13 9WL

Urgent & general enquiries Tel: 0161 276 5111 Cyto.pathology@mft.nhs.uk

Please also see their webpage:

https://mft.nhs.uk/app/uploads/2024/03/CERVICAL-SAMPLE-TAKER-INFORMATION-PACK-Jan-24-1.pdf ELHT has no access to results for cervical cytology.

Diagnostic cytology

High Risk Samples

Direct spreads are **NOT** to be sent for high risk specimens

Specimen Containers

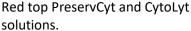
All diagnostic cytology samples should be collected either fresh, into CytoLyt or PreservCyt (transport media) in a red-top universal container. The containers of CytoLyt and PreservCyt can be requested from the laboratory. The only exceptions are the EBUS samples which are collected into formalin pots.

Please send specimens in the appropriate container (as shown below), ensuring that the lid is screwed on tightly and that the container is labelled with both patient and specimen details. If possible please avoid covering the volume scale on the side of the container in order to help us quantify the sample.

DO NOT SEND SAMPLES IN BORIC ACID CONTAINER. THIS IS NOT AN APPROPRIATE COLLECTION MEDIUM









Sterile container



Sterile container

Collection of Serous Fluids

Body Cavity Fluids (Includes: pleural/ascitic/peritoneal fluid/peritoneal washing/pericardial)

- Around 50mls of fluid should be collected into a sterile, dry container with a screw cap for transport
 to the laboratory (Note: no other transport medium or fixative is to be added to the sample as this
 can cause interference with adherence to the slide and quality of staining).
- The fluid should be delivered to the laboratory as soon as possible to minimise cell deterioration, so that cell preservation is not compromised.

If there is a delay in delivering the sample, please refrigerate around 4 C.

Collection of Cyst Fluids

- Cyst fluids should be collected into a red-top universal tube filled with 30ml of CytoLyt to prevent deterioration of the sample.
- The sample should be delivered to the laboratory as soon as possible to minimise cell deterioration, especially if not collected in CytoLyt.

If there is a delay in the delivering the sample, please refrigerate at around 4 C.

Collection of Urinary Tract Samples

Includes: voided / catheter / urethral washings / Ureteric and renal pelvis/ileal conduit samples

- Collect urine in a 50ml red-top universal tube containing 30ml CytoLyt to prevent deterioration of the sample (see above section on specimen containers). Fill the pot where possible to ensure specimen adequacy.
- BORIC ACID IS NOT SUITABLE FOR URINE SAMPLES FOR CYTOLOGICAL ANALYSIS.





- If the patient is collecting the specimen outside of a clinic surgery then please provide them with a clean, dry container with a screw top. Tubes containing CytoLyt are NOT to be sent home with patients. The urine they collect should be transferred into CytoLyt before transporting to the Laboratory.
- Note: the first sample voided in the morning is unsuitable for cytological analysis. An adequate sample
 is voided either mid-morning or randomly.
- State the method of collection (voided, catheter etc) on the request form.
- The sample should be delivered to the laboratory as soon as possible to minimise cell deterioration, especially if not collected into CytoLyt.
 - If there is a delay in delivering the sample, please refrigerate at around 4 C.

Collection of Respiratory Tract Samples

Bronchial Washings/Lavage/Trap/ Bronchoalveolar Lavage

- The specimen should be collected in a red-top universal tube containing 30ml of CytoLyt to prevent deterioration of the sample.
- Please note: we do not currently provide a service for differential white blood cell counts on bronchoalveolar lavage samples.
- The sample should be delivered to the laboratory as soon as possible to minimise cell deterioration, especially if not collected into CytoLyt.

If there is a delay in delivering the sample, please refrigerate at around 4 C

Bronchial Brush Samples

- Place brush into a red-top universal tube filled with 30ml of CytoLyt as soon as possible to prevent
 deterioration of the sample. Do not wait until the end of the procedure, as this causes the brush to
 dry and makes interpretation difficult.
- Ensure the brush is fully immersed in the CytoLyt
- The sample should be delivered to the laboratory as soon as possible to minimise cell deterioration.

If there is a delay in delivering the sample, please refrigerate at around 4 C



Endobronchial Ultrasound FNA (EBUS FNA)

• EBUS FNA samples should be collected in a yellow-top formalin pot.

Collection of Pancreaticobiliary Samples

Endoscopic Ultrasound FNA (EUS FNA)

- EUS FNA samples should be collected into a clear top PreservCyt container
- Cyst fluids requiring cytology should be collected into a red top PreservCyt container.
- Cyst fluids requiring Biochemistry analysis of glucose/amylase/CEA must be collected as below:

| Test required | Container type | Volume required | Timeline |
|-----------------|--------------------------|-----------------|--------------------|
| CEA and amylase | Plain universal | 1 ml | ASAP |
| | container | | |
| Glucose | Yellow top fluoride tube | 0.5 ml | Must be delivered |
| | | | immediately as the |
| | | | test is to be |
| | | | performed within 6 |
| | | | hrs of collection. |

Biliary Brush Samples

- Place brush into a clear-top universal tube filled with 30ml of PreservCyt as soon as possible to prevent deterioration of the sample. **Do not** wait until the end of the procedure, as this causes the brush to dry and makes interpretation difficult.
- Ensure the brush is fully immersed in the PreservCyt.
- The sample should be delivered to the laboratory as soon as possible to minimise cell deterioration.

Collection of FNA Samples

Includes: Breast lesions/Axillary lymph nodes/Thyroid/Head and neck lesions, salivary glands and lymph nodes/Any other lesions. <u>See above for EBUS and EUS FNA SAMPLES</u>

- Please take precautions to avoid contaminating the sample with substances such as Ultrasound Jelly, which makes the cells difficult to visualise. Please wipe away ultrasound jelly from site of FNA before inserting the needle.
- The aspiration is to be expelled in a red-top universal container containing 30ml CytoLyt as detailed above. A small amount of saline can be used to rinse the needle into the container.



- Please note that if two samples from different sites on the same patient, please try to distinguish clearly which specimen is from which site. For example, Pot 1: Right Breast FNA, Pot 2: Right Axillary FNA.
- For each FNA site, a minimum of 2 passes is recommended. Both passes must be put into the same container.
- For separate FNA sites, e.g left and right or upper and lower, then each FNA site sampled must be placed in a different container. Containers must be appropriately labelled as to site and side.
- If there is a delay in delivering the sample, please refrigerate at around 4 C

Collection of Head and Neck Rapid Clinic FNA Samples

- For samples from the Head and Neck (excluding high risk samples) we request that a direct spread of the sample onto a slide is provided. Instructions for how to do this are found below.
- A slide must be created from the <u>first pass</u> of the FNA only. The needle should then be rinsed in the CytoLyt.
- All subsequent passes are to be expelled entirely into CytoLyt, as described above.
- Please deliver specimens from the head and neck clinic, including those from Radiology, directly to the Histology lab as soon as possible. This is a rapid turnaround service.
- Please make clear on the request form that the sample is from the rapid head and neck clinic to ensure that it is processed and provisionally reported immediately.

Making Direct Spreads

A small drop of the aspirate is to be expelled onto a glass slide. Using a second (spreader) slide, spread the drop gently but swiftly to create a tongue-shaped preparation. Demonstrations of this technique can be arranged by contacting the department.

All slides must be **clearly labelled** with the patient details, and transported to the laboratory in a slide mailer box.

PLEASE NOTE THAT DIRECT SPREADS SHOULD **NOT** BE DONE FOR HIGH RISK SPECIMENS.



Collection of Cerebrospinal Fluid (CSF) Samples

• CSF should be collected into a 50ml red-top universal tube filled with 30ml CytoLyt to prevent deterioration of the sample. Samples collected in a sterile container will be accepted but any delay in transport will contribute to deterioration and compromise cytological interpretation.



Serous fluids must be collected in a sterile container



FNA samples, bronchial samples, cyst fluids, CSF samples must be collected in CytoLyt



EUS FNA samples must be collected in PreservCyt



EBUS FNA samples must be collected in formalin

Summary of sample containers and volume requirements

| Sample type | Container/Fixative | Total volume | |
|------------------------------------|---------------------------|--|--|
| Urine | CytoLyt | At least 40 mls | |
| Bronchial brushes | CytoLyt | Enough to completely cover brush | |
| Bronchial washes | CytoLyt | As much as possible | |
| Serous effusion | Sterile/fresh | At least 50 mls | |
| Fine needle aspirations (including | CytoLyt | At least 2 passes per site – each site | |
| breast) | | in a different container | |
| EBUS FNA samples | Formalin pot | Entire needle rinses | |
| EUS FNA samples | PreservCyt | Entire needle rinses | |
| Pancreatic cyst fluid for CEA and | Plain universal container | 1 ml | |
| amylase | | | |
| Pancreatic cyst fluid for glucose | Yellow top fluoride tube | 0.5 ml – must be delivered | |
| | | immediately | |
| | | | |
| Biliary brushes | PreservCyt | Enough to completely cover brush | |
| All miscellaneous fluids | Sterile/fresh | As much as possible | |
| CSF and cyst fluids | CytoLyt | As much as possible | |



Approved 24/10/2024 by Craig Rogers

Ordering specimen pots and request forms

Users that have consumables supplied by pathology can order the following from our stores:

Specimen pots (formalin-filled and dry) Cytology collection media Michel's transport media (IMF samples) Request forms

Please e-mail: gppathologysupplies.rbh@elht.nhs.uk