


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO 15189:2012</p>	<b>Manchester University NHS Foundation Trust</b>  <b>Issue No: 003 Issue date: 19 August 2021</b>	
	<b>Cellular Pathology</b> <b>Clinical Sciences Building 2</b> <b>Manchester Royal Infirmary</b> <b>Oxford Road</b> <b>Manchester</b> <b>M13 9WL</b> <b>United Kingdom</b>	<b>Contact: John Hayes</b> <b>Tel: +44 (0)161 276 6138</b> <b>E-Mail: john.hayes@mft.nhs.uk</b> <b>Website: www.mft.nhs.uk</b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
Cellular Pathology Manchester Royal Infirmary Oxford Road Manchester M13 9WL	<b>Local contact</b> John Hayes – contact as above  Diagnostic histopathology cytology and cervical screening	A
Endoscopy (EBUS), ENT, Radiology Manchester Royal Infirmary Oxford Road Manchester M13 9WL	<b>Local contact</b> Jacquelyn Medlock Tel: 0161 276 5120 Jacquelyn.medlock@mft.nhs.uk  FNA smear preparation staining and reporting.	B
The Christie NHS Foundation Trust Wilmslow Road Manchester M20 4B	<b>Local contact</b> Jacquelyn Medlock – contact as above  FNA smear preparation staining and reporting	C
Endoscopy (EBUS), ENT Trafford General Hospital Moorside Road Davyhulme Manchester M41 5SL	<b>Local contact</b> Jacquelyn Medlock – contact as above  FNA smear preparation staining and reporting	D



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### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Cytopathology examination activities for the purposes of clinical diagnosis	In-house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions as specified	
Serous fluids, urine, CSF, cyst fluid, bronchial brush/lavage/wash/trap/aspirate, bile duct/anal/penile brushes, synovial fluid, osteoarticular aspirate, cell agar blocks, fine needle aspirates.	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities.	Diagnostic cytology (non-gynae) in-house documented procedures for preparation, screening and reporting CYT PREP NG001, CYT PREP NG002, CYT PREP NG 003, CYT PREP NG 021, CYT SF 014, CYT SCR NG 001	A
	Demonstration of: Cells (nuclei and cytoplasm) and micro-organisms.	May-Grunwald Giemsa staining of slides CYT PREP NG 017  Gram's stain for synovial fluid specimens CYT SF 006	A
Fine needle aspirates (various sites)	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities.	Diagnostic cytology (non-gynae) in-house documented procedures for preparation, screening and reporting  CYT PREP NG 019- Attendance of BMS at FNA at Christie Hospital  CYT PREP NG 018 Attendance of BMS at FNA clinics at MRI including the Trafford site CYT PREP NG 047	C  B, D
	Demonstration of: Cells (nuclei and cytoplasm)	CYT PREP 048 Use of Rapi-Diff II	B, C, D
Synovial fluid	Detection of crystals	Microscopy using bi-refringence and fluorescence CYT SF 001, CYT SF INS 005	A
Fluid bronchial lavage samples	Fat laden and hemosiderin laden macrophages	Fat Laden and Haemosiderin Laden Macrophages staining techniques (BAL) Hist-Paed-Surg-Proc49	A



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HUMAN BODY FLUIDS	Cytopathology examination activities for the purposes of clinical diagnosis	In-house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions as specified	
Fine needle aspirates (endo bronchial ultrasound)	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities.	Diagnostic cytology (non-gynae) in-house documented procedures for preparation, screening and reporting CYT PREP NG 047 Attendance of Consultants and BMS for EBUS guided FNA	B, D
Liquid based cervical cell samples	Demonstration of: Cells (nuclei and cytoplasm)  Examination of cellular material to identify or exclude morphological and cytological abnormalities	CYT PREP 048 Use of Rapi-Diff II  SurePath liquid based cytology preparation and Papanicolau staining using PrepStain slide processor CYT PREP G 027, CYT INS 152, CYT PREP G 006,  Thinprep liquid based cytology preparation using Hologic T5000 slide processor and CYT PREP G 027, CYT INS 152, CYT PREP G 006, CYT QUAL 055Thinprep slides stained using Papanicolau stain and TissueTek Sakura stainer, CYSPPR02, CYEQMAN2, CYSPPR06 Surepath and Thinprep processed stained slides coverslipped using TissueTek Sakura Tape Coverslipper, CYEQMAN3, CYSPPR02  Manual screening and reporting using CYT SCR GY 001, SCR GY 002, CYT SCR GY 003, CYT SCR GY 004, CYT SCR GY 005, CYT SCR GY 006, CYT SCR GY 027, CYT SCR GY 029, CYT SCR GY 013, CYT SCR GY 014 Automated screening using BD Focal Point Slide Profiler CYT SCR GY 032, CYT MAN 016, CYT EXT 070	A



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HUMAN BODY FLUIDS (cont'd)	Cytopathology examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions as specified	
Synovial fluid	Quantitation of white blood cells	Cellometer Vision cell counter using fluorescence, CYT SF 008, CYT SF 005	A
Liquid based cervical cell samples	Sample preparation and referral to ISO 15189:2012 accredited laboratory (UKAS reference 8393) for the purposes of HPV DNA test using Abbott m2000 system	CYSRPRO1 CYT SCR GY 036 CYT FORM 246	A
HPV DNA result from ISO 15189:2012 accredited laboratory (UKAS reference 8393)	Interpretation and reporting of HPV DNA results	CYT INS 126, CYT INS 127, CYT SCR GY 029, CYT SCR GY 036	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> Preparation and examination to identify or exclude morphological & cytological abnormalities	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Formalin fixed tissues		Macroanalysis and dissection, Advanced Specimen Dissection HIST PROC SR 032	A
		Decalcification HIST INS SR 097 Hist-paed-SD-Proc21	A
		Tissue processing, automated method using Thermo Excelsior AS and Leica ASP300 and Peloris processors Processing tissue to wax in Cellular pathology CPP-4	A
		Tissue embedding using Leica and Thermo Shandon embedding centres Wax embedding (Instructions)d HIST INS SR 094	A
		Auto embedding using the Sakura Paraform tissue embedding cassettes and the Sakura A120 automated embedder SOP HIRDPRO50 SOP HIMLPRO19	A
		Tissue sectioning (Microtomy):  Manual method using Leica, Thermo Shandon finesse, Thermo rotary microtomes Microtomy HIST PROC ML 003, Hist-Paed-Surg-Proc3,	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Fresh tissue Frozen tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	Rapid frozen section. Cryotomy and manual Haematoxylin and Eosin (H&E) staining using Leica Cryostat: Procedure for frozen sections Hist-Paed-SD-Proc3 Preparation of frozen sections and use of Class 2 safety cabinet and Cryostats HIST PROC SR 044 H&E Frozen/wax hand staining HIST INS ML 007AP	A
Formalin fixed, paraffin embedded (FFPE) tissue	Basophilic and eosinophilic tissue structures	Routine H&E staining and coverslipping Automated method using Leica Autostainer XL and Leica CV5030 coverslipper. Staining techniques in Cellular Pathology, CPP-1	A
	Detection of the following:	Special staining using manual methods and the following stains	A
	Mast cells	Acid Toluidine Blue HIST INS ML 007AA	
	Acid & Neutral mucins	Alcian Blue PAS + Diastase HIST INS ML 007AB	
	Acid & Neutral mucins	Alcian Blue PAS HIST INS ML 007AC	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Formalin fixed, paraffin embedded (FFPE) tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	Special staining using manual methods and the following stains	
	Detection of the following:	Alcian Blue + Hyaluronidase HIST INS ML 007AD	
	Hyaluronic acid	Alcian Blue HIST INS ML 007AE	
	Acid mucins	Alcian Blue Techniques involving Critical Electrolyte Concentration HIST INS ML 007AF	
	Differentiation of acid mucins	Alcian Blue (pH2.5) – Acid Mucins & ABPAS Hist-Paed-Surg-Proc20	
	Acid mucins	Alizarin Red HIST INS ML 007AG	
	Calcium	Alkaline Congo Red Hist-Paed-Surg-Proc24	
	Amyloid	Congo Red Highman's HIST INS ML 007AI	
	Amyloid	Elastic Van Gieson HIST INS ML 007AJ Hist-Paed-Surg-Proc25	
	Elastic/Muscle/Connective tissue	Giemsa for haematological cells HIST INS ML 007AK	
	Haematopoietic cells	Giemsa (protozoa and helicobacter pylori) Hist-Paed-Surg-Proc9	
	Helicobacter	Fat Laden and Haemosiderin Laden Macrophages staining techniques (BAL) Hist-Paed-Surg-Proc49	
Fluid bronchial lavage samples	Fat laden and hemosiderin laden macrophages		



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Formalin fixed, paraffin embedded (FFPE) tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	Special staining using manual methods and the following stains	
	Detection of the following:	Gram HIST INS ML 007AL Modified Gram Hist-Paed-Surg-Proc-17	
	Gram positive and Gram-negative bacteria	Grocott HIST INS ML 007AO Hist-Paed-Surg-Proc10	
	Fungi	H&E Frozen/Wax hand Staining HIST INS ML 007AP	
	General cell morphology	H&E Staining of Decals HIST INS ML 007AQ	
	Decalcified tissue	Haematoxylin Van Gieson HIST INS ML 007AR	
	Collagen	Long ZN HIST INS ML 007AS	
	Lipofuscin	Luxol Fast Blue HIST INS ML 007AT Luxol Fast Blue H&E Hist-Paed-Surg-Proc30	
	Myelin	MSB HIST INS ML 007AU Hist-Paed-Surg-Proc22	
	Fibrin	Masson Fontana HIST INS ML 007AV Hist-Paed-Surg-Proc6	
	Melanin	Masson Trichrome HIST INS ML 007AW	
	Connective tissue		





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HUMAN TISSUES AND FLUIDS (cont'd)  Formalin fixed, paraffin embedded (FFPE) tissue	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Detection of the following:</p> <p>Removal of melanin</p> <p>Helicobacter</p> <p>Acid fast bacilli</p> <p>Adipose cells</p> <p>Hepatitis B surface antigen, copper associated protein</p> <p>Fungi/Glycogen/Mucins</p> <p>Basement membranes</p> <p>Digestion of glycogen</p> <p>Ferric Iron and haemosiderin</p> <p>Reticulin fibres</p> <p>Copper</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Special staining using manual methods and the following stains</p> <p>Melanin Bleach HIST INS ML 007AX</p> <p>Modified Giemsa HIST INS ML 007AY</p> <p>Modified ZN Hist-Paed-Surg-Proc18</p> <p>Oil Red O HIST INS ML 007AZ Hist-Paed-Surg-Proc21</p> <p>Orcein HIST INS ML 007B Hist-Paed-Surg-Proc15</p> <p>PAS HIST INS ML 007BA</p> <p>Periodic Acid Methenamine Silver HIST INS ML 007BB</p> <p>PAS Diastase HIST INS ML 007BC</p> <p>Perl's HIST INS ML 007BE Perl's Prussian Blue-reaction for ferric iron Hist-Paed-Surg-Proc11</p> <p>Reticulin stain HIST INS ML 007BG Hist-Paed-Surg-Proc12</p> <p>Rhodanine HIST INS ML 007BH Rhodanine stain for copper Hist-Paed-Surg-Proc16</p>	A



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HUMAN TISSUES AND FLUIDS (cont'd)  Formalin fixed, paraffin embedded (FFPE) tissue	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Detection of the following:</p> <p>Copper</p> <p>Amyloid</p> <p>Neutral mucin</p> <p>Muccopolysaccharides</p> <p>Acid mucins</p> <p>Calcium</p> <p>Mycobacterium leprae</p> <p>Spirochaetes</p> <p>Acid fast bacilli</p> <p>Proteoglycans, acid mucins, hyaluronic acid</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Special staining using manual methods and the following stains</p> <p>Rubeanic Acid HIST INS ML 007BI</p> <p>Sirius Red HIST INS ML 007BJ</p> <p>Southgates Mucicarmine HIST INS ML 007BK</p> <p>Toluidine Blue Method for Bone and Cartilage HIST INS ML 007BM</p> <p>Toluidine Blue – Mast Cells Hist-Paed-Surg-Proc7</p> <p>Von Kossa HIST INS ML 007BN</p> <p>Wade Fite HIST INS ML 007BO</p> <p>Warthin-Starry HIST INS ML 007BP</p> <p>Ziehl-Neelsen HIST INS ML 007BR</p> <p>Colloidal Iron HIST INS ML 007BS</p>	A



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>FFPE, Cell Blocks, Cytological preparations and frozen sections.</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Detection of the following:</p> <p>Acinar cells of the pancreas and hepatocytes</p> <p>Acinar cells of the pancreas and hepatocytes</p> <p>Myoepithelial cells, smooth muscle</p> <p>Sebaceous carcinoma</p> <p>Pan Cytokeratin, epithelial cells</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Immunohistochemistry Automated method using the Ventana Benchmark Ultra,</p> <p>Ventana Benchmark Ultra Operation guide HIST INS IHC 020 Immunofluorescence staining HIST INS IHC 031 Lung Cancer protocol HIST INS IHC 025 IHC Mismatch Repair Testing HIST INS IHC 018 Antibody preparation HIST INS IHC 022 IHC Quality Control HIST INS IHC 010 IHC Test Requesting HIST INS IHC 015 Control Material in Histopathology HIST INS ML 035</p> <p>A-1-Antichymotrypsin</p> <p>A-1-AT (A-1-Antitrypsin)</p> <p>Actin (Smooth Muscle Actin)</p> <p>ADFP (Adipophilin)</p> <p>AE1/AE3 (Cytokeratin Cocktail)</p>	<p>A</p>



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HUMAN TISSUES AND FLUIDS (cont'd)  FFPE, Cell Blocks, Cytological preparations and frozen sections.	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Detection of the following: (cont'd)</p> <p>Neoplastic liver diseases, yolk sac tumours and mixed germ cell tumours</p> <p>Anaplastic lymphoma</p> <p>NSCLC companion diagnostic</p> <p>Hairy cell leukaemia</p> <p>Prostate carcinoma</p> <p>GI tract epithelium, fibromatosis</p> <p>Basal epithelial cells</p> <p>B cells &amp; Interfollicular T cells</p> <p>Germinal centre B cells</p> <p>Differentiates adenocarcinoma from mesothelioma</p> <p>Peritubular and glomerular capillaries</p> <p>Tumours of lung, endometrium and ovarian origin</p> <p>Pancreatic disease/tumour</p> <p>Clear cell renal cell carcinoma</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Immunohistochemistry (cont'd)</p> <p>AFP (Alpha-1-Fetoprotein)</p> <p>ALK-1</p> <p>ALK (D5F3)</p> <p>Annexin A1</p> <p>Androgen Receptor</p> <p>B Catenin (Beta Catenin)</p> <p>Basal Cell Cocktail</p> <p>BCL2</p> <p>BCL6</p> <p>Ber-EP4 (Epithelial Antigen)</p> <p>C4d</p> <p>CA125</p> <p>CA19.9</p> <p>CAIX</p>	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
FFPE, Cell Blocks, Cytological preparations and frozen sections.	Preparation and examination to identify or exclude morphological & cytological abnormalities	Immunohistochemistry cont'd	
	Detection of the following: (cont'd)		
	Medullary thyroid tumours	Calcitonin	
	Smooth muscle	Caldesmon	
	Mesothelia, nerves	Calretinin	
	Langerhans cells	CD1a	
	Peripheral T lymphocytes	CD2	
	Pan T cell marker	CD3	
	Helper T Cells	CD4	
	T cells, neoplastic B cells	CD5	
	Natural killer T cells	CD8	
	T follicular helper cells, follicular lymphoma	CD10	
	Reed-Sternberg, activated T cells, Hodgkin's lymphoma	CD15	
	Pan B cell marker	CD20	
	Follicular dendritic cells	CD21	
	Follicular dendritic cells	CD23	
	Reed-Sternberg, Hodgkin's lymphoma	CD30	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
FFPE, Cell Blocks, Cytological preparations and frozen sections.	Preparation and examination to identify or exclude morphological & cytological abnormalities		
	Detection of the following: (cont'd)	Immunohistochemistry (cont'd)	
	Vascular endothelial cells	CD31	
	Myeloid cells	CD33	
	Vascular endothelial cells	CD34	
	T Cells, myeloid cells	CD43	
	T & B Cells (Pan-lymphocyte marker)	CD45/LCA	
	Thymocytes, mature activated T-cells	CD45 RO	
	Neurons, glia, schwann, Nk, T cells, neuroendocrine tumour	CD56	
	Megakaryocytes	CD61	
	Macrophages	CD68	
	Pan B cell marker	CD79a	
	Pancreatic islets, T cells, neuroectodermal tumour cells	CD99	
	Mast cells, GIST tumours	CD117	
	Epithelium, plasma cells	CD138	
	Intestinal epithelium	CDX2	
	Adenocarcinoma	CEA (mono and poly)	



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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

## Manchester University NHS Foundation Trust

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HUMAN TISSUES AND FLUIDS (cont'd)  FFPE, Cell Blocks, Cytological preparations and frozen sections.	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Detection of the following: (cont'd)</p> <p>Fluorescent detection of IgA Immunoglobulins</p> <p>Fluorescent detection of complement C3</p> <p>Fluorescent detection of complement C1Q</p> <p>Fluorescent detection of Fibrinogen</p> <p>Peptide hormone gastrin</p> <p>Bladder cancers, breast cancer</p> <p>Breast/prostate carcinomas</p> <p>Astrocytes, glial (brain), demonstrates astrocytes</p> <p>Alpha islets of langerhans cells, pancreatic islets</p> <p>Differentiates hepatocellular tumours</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Immunohistochemistry (cont'd)</p> <p>FITC IgA</p> <p>FITC C3</p> <p>FITC C1Q</p> <p>FITC Fibrinogen</p> <p>Gastrin</p> <p>GATA 3 (GATA binding protein 3)</p> <p>GCDFP-15</p> <p>GFAP (Glial Fibrillary Acidic Protein)</p> <p>Glucagon</p> <p>Glutamine Synthetase</p>	A



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Resin tissue blocks	Electron Microscopy Examination of tissues to identify or exclude ultrastructural morphological abnormalities for diagnosis	Electron microscopy using Reichert Jung Ultracut E Ultramicrotome, Leica UC7 Ultramicrotome, JEOL JEM-1400 Electron Microscope  Receipt and booking in of samples for Electron Microscopy HIST INS EM 007  Secondary fixation of specimens for Electron Microscopy using Osmium tetroxide (Osmicating) HIST INS EM 002  Hand processing EM Samples to Araldite HIST INS EM 003  Embedding in Electron Microscopy HIST INS EM 008  EM-Block Trimming HIST INS EM 012  Ultramicrotomy – Cutting Semi Thin Sections HIST INS EM 013  Toluidine Blue Staining of semi-thin sections in Electron Microscopy HIST INS EM 017  Ultramicrotomy – Cutting Ultra-thin sections HIST INS EM 014	A



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Resin tissue blocks and cell preparations	Electron Microscopy (cont'd) Examination of tissues to identify or exclude ultrastructural morphological abnormalities for diagnosis	Staining Ultra-Thin sections on Grids HIST INS EM 018  Digital Imaging & Ultrastructural Review Processing in Electron Microscopy HIST INS EM 025  Basic Operation of the JEOL-1400 Electron Microscope HIST INS EM 053  Extraction, Dissection and Dewaxing of tissue from Paraffin Wax Blocks for Electron Microscopy HIST INS EM 034  Dissection of Non-embedded tissue in Electron Microscopy HIST INS EM 035	A
Human soft tissue tumours and neuroblastomas	Molecular detection of:  Numerical gene aberrations of Tp53 and 17q22 associated with high risk neuroblastoma and medulloblastoma	Manual Fluorescent in-situ hybridisation: GFL Molecular Diagnostic Tests Available GFL Form QL 006  GFL Reporting a FISH Result GFL Proc 014  GFL Paraffin FISH GFL Proc 017  17q Gain (p53/MPO) 17q Gain (tel17p/tel17q)	A



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Human soft tissue tumours and neuroblastomas (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities		
	Molecular detection of:	Manual Fluorescent in-situ hybridisation (cont'd)	
	Deletion of the 1p36 region associated with higher risk neuroblastoma	1p36 Deletion	
	ALK gene rearrangements associated with Anaplastic large cell lymphoma and inflammatory	ALK Break Apart	
	DDIT3 gene rearrangements associated with Myxoid liposarcoma	CHOP (DDIT3) Break Apart	
	COL1A1-PDGFB fusions associated with Dermatofibrosarcoma protuberans	COL1A1-PDGFB fusion	
	ETV6 gene rearrangements associated with Infantile fibrosarcoma/CMN and mammary analogue carcinoma	ETV6 Break Apart	
	EWSR1-ERG fusions associated with Ewing's sarcoma/PNET	EWS – ERG Fusion	
	EWSR1-FLI1 fusions associated with Ewing's sarcoma/PNET	EWS – FLI1 Fusion	



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Human soft tissue tumours and neuroblastomas (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities		
	Molecular detection of:	Manual Fluorescent in-situ hybridisation (cont'd)	
	EWSR1 gene rearrangements associated with a variety of different tumours	EWS Break Apart EWSR break apart EWSR1 Break Apart	
	FOXO1 gene rearrangements associated with Alveolar Rhabdomyosarcoma	FOXO1 Break Apart	
	FOXO1-PAX3 fusions associated with Alveolar Rhabdomyosarcoma	FOXO1-PAX3 Fusion	
	FOXO1-PAX7 fusions associated with Alveolar Rhabdomyosarcoma	FOXO1-PAX7 Fusion	
	FUS gene rearrangements associated with a variety of different tumours	FUS Break Apart	
	Amplification of the MDM2 gene associated with Lipomatous tumour	MDM2 Amplification	
	Amplification of the MYC-C gene associated with higher risk medulloblastoma	MYC-C	





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Human soft tissue tumours and neuroblastomas (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities	Manual Fluorescent in-situ hybridisation (cont'd)	
	Molecular detection of:	MYC-N Amplification	
	Amplification of the MYC-N gene associated with higher risk neuroblastoma and medulloblastoma	MYC-N Amplification	
	PAX3 gene rearrangements associated with Alveolar Rhabdomyosarcoma	PAX3 Break Apart	
	PAX7 gene rearrangements associated with Alveolar Rhabdomyosarcoma	PAX7 Break Apart	
	Deletion of the SMARCB1 region associated with Rhabdoid tumours	SMARCB1 deletion	
	SS18 gene rearrangements associated with Synovial sarcoma	SS18	
	TFE3 gene rearrangements associated with Renal cell carcinoma and alveolar soft part tumour	TFE3 Break apart	



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Human soft tissue tumours and neuroblastomas (cont'd)</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Molecular detection of:</p> <p>USP6 gene rearrangements associated with Aneurysmal bone cyst</p> <p>WT1 gene rearrangements associated with desmoplastic small round cell tumours</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Manual Fluorescent in-situ hybridisation (cont'd)</p> <p>USP6 break apart</p> <p>WT1 break apart</p>	A



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**Manchester University NHS Foundation Trust**  
  
**Issue No:** 003    **Issue date:** 19 August 2021

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Frozen human tissue including muscle and rectal samples</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities</p> <p>Histochemistry for the identification of the following</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Histochemical staining using: Handling Jejunal Biopsies [Hist-Paed-SD-Proc30] Receiving of rectal biopsy fresh samples only [Hist-Paed-SD-Proc25] Muscle biopsy handling [Hist-Paed-Mus-Proc1] Reception and treatment of tumours in histopathology [Hist-paed-SD-Proc39]</p> <p>Muscle Enzyme histochemistry</p> <p>Hist-Paed-Mus-Proc2    ATPase 4.3 and 4.6 Hist-Paed-Mus-Proc3    ATP 9.4 Hist-Paed-Mus-Proc4    NADH Hist-Paed-Mus-Proc5    SDH Hist-Paed-Mus-Proc6    Cytochrome Oxidase Hist-Paed-Mus-Proc7    Phosphorylase Hist-Paed-Mus-Proc12    Combined CytOxSDH Hist-Paed-Mus-Proc13    ACID PHOSPHATASE Hist-Paed-Mus-Proc17    MUSCLE BIOPSY QC - CHECK OUT Hist-Paed-Mus-Frm15    MUSCLE QC FORM Hist-Paed-Mus-Frm16    MUSCLE QC: Quick Reference Guide Hist-Paed-Mus-Frm17    MUSCLE REQUEST LOG Hist-Paed-Mus-Inst3    MUSCLE: Solution Preparation Instructions</p>	<p align="center">A</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Frozen human tissue including muscle and rectal samples (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities	Histochemistry staining (cont'd)	
	Histochemistry for the identification of the following (cont'd)		
	Muscle Fibre Typing	ATP 4.3	
	Muscle Fibre Typing	ATP 4.6	
	Muscle Fibre Typing	ATP 9.4	
	Mitochondrial abnormalities	NADH	
	Mitochondrial abnormalities	Cytochrome Oxidase C	
	Mitochondrial abnormalities / SDH activity	Cytochrome Oxidase C / SDH	
	SDH activity	SDH	
	McCardles disease	Phosphorylase	
	Lysosyme activity	Acid Phosphatase	
	Muscle IHC for the identification of	Hist-Paed-Mus-Proc9 Muscle IHC	
	Membranous Proteins	Adhalin	
	Membranous Proteins	Beta sarcoglycan	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Frozen human tissue including muscle and rectal samples (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities		
	Histochemistry for the identification of the following (cont'd)	Histochemistry staining (cont'd)	
	Inflammatory Myopathies	CD3	
	Inflammatory Myopathies	CD4	
	Inflammatory Myopathies	CD8	
	Inflammatory Myopathies	CD20	
	Inflammatory Myopathies	CD45	
	Inflammatory Myopathies	CD68	
	Inflammatory Myopathies	CD79a	
	Membrane attack complexes	C5b9	
	Collagen fibres	Collagen 6	
	Membranous Proteins	Dystrophin 1	
	Membranous Proteins	Dystrophin 2	
	Membranous Proteins	Dystrophin 3	
	Membranous Proteins	Dysferlin	
	Membranous Proteins	Emerin	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Frozen human tissue including muscle and rectal samples (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities	Histochemical staining (cont'd)	
	Histochemistry for the identification of the following (cont'd)		
	Membranous Proteins	Merosin2 300Kd	
	Membranous Proteins	Merosin 80Kd	
	Muscle Fibre Typing	MHC1	
	Muscle Fibre Typing	MHCN	
	Muscle Fibre Typing	MHCF	
	Muscle Fibre Typing	MNCS	
	Muscle Fibre Typing	MHCD	
	Membranous Proteins	Spectrin	
	Localisation of proteins	Transferrin	
	Localisation of proteins	Ubiquitin	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Frozen human tissue including muscle and rectal samples	Muscle Tinctorial / special stains for the identification of	Histochemistry staining using the following SOPs Hist-Paed-Mus-Proc10 PAS AND PAS DIGEST TECHNIQUE FOR MUSCLE Hist-Paed-Mus-Proc8 MODIFIED TRICHROME FOR MUSCLE BIOPSIES	A
	Tissue morphology	H&E	
	Glycogen storage disease	PAS	
	Glycogen storage disease	PAS/D	
	Lipid storage Disease	Oil Red O	
	Mitochondrial abnormalities	Modified Trichrome	
Frozen human tissue including muscle and rectal samples	Rectal Histochemistry for the identification of	Histochemistry staining using Hist-Paed-Surg-Proc38 Acetylcholine Esterase method	A
	Identification of Neurons in rectal biopsy – Absence indicates Hirsch sprung Disease	ACHE Acetyl Choline Esterase	
Slides prepared in-house from the specimens listed above	Morphological assessment and interpretation/diagnosis	Microscopy using Nikon, Olympus, Zeiss, Leica and Leitz microscopes and SOPs CCPOL-2 and HISTPOL SR 004	A
END			