


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> MEDICAL 9609  Accredited to ISO 15189:2012	<b>NHS Greater Glasgow &amp; Clyde</b>  Issue No: 011 Issue date: 29 September 2023	
	<b>Laboratory Medicine and Facilities Management</b> 1345 Govan Road Glasgow G51 4TF	<b>Contact: Nicola Small</b> Tel: +44 (0) 141 354 9461 E-Mail: Nicola.small2@ggc.scot.nhs.uk

**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
<b>Address</b> Laboratory Medicine and Facilities Management Building 1345 Govan Road Glasgow G51 4TF	Andrology Cervical Cytology Diagnostic Cytology Routine Histology Frozen Section Special stain Histology Special Histology Neuropathology Electron Microscopy	A
Frozen Section Lab Glasgow Royal Infirmary 84 Castle Street Glasgow G4 0SF	Frozen Sections	B
Frozen Section Lab Golden Jubilee Hospital Agamemnon Street Clydebank G81 4DY	Frozen sections	C



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**Locations of other activities:**

Location details	Activity
QEUH Mortuary  Laboratory Medicine and Facilities Management 1345 Govan Road Glasgow G51 4TF	Mortuary and Body store
GRI Glasgow Royal Infirmary Body Store  84 Castle Street Glasgow G4 0SF	Body Store
Royal Alexandra Hospital body store  Corsebar Road Paisley PA2 9PN	Body Store
Inverclyde Royal Hospital Body store  Larkfield Road Greenock PA16 0XN	Body Store
Gartnavel Hospital body store  1053 Great Western Road Glasgow G12 0YN	Body Store
Vale of Leven Body store  Main Street Alexandria G83 0UA	Body Store
Yorkhill archive store  West Glasgow Ambulatory Care Hospital Dalnair Street Yorkhill Glasgow G3 8SJ	Slides and block storage
Vale of Leven archive store  Main Street Alexandria G83 0UA	Slides and block storage



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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	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		
Semen	<u>Post vasectomy</u>  Detection of sperm Sperm concentration	Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP PATH AND LP 062	A
Semen	<u>Fertility testing</u>  Volume  pH  Sperm morphology <b>including</b> TZI scoring  Sperm concentration  Sperm motility	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method using documented in-house procedure SOP PATH-AND-LP-063  Volume/weight  Colorimetric strips  Stained slides (Papanicolau) microscopy (Bright field)  Microscopy (Phase contrast)  Microscopy (Phase contrast)	A
Urine	<u>Antegrade/ Retrograde testing</u> <u>Sperm presence/absence</u>	Microscopy using phase contrast microscope SOP PATH AND LP 064	A



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Cervical smears LBC samples	<p><u>Cervical Cytology examinations to assist in clinical investigations</u></p> <p>Qualitative detection of high risk HPV mRNA for diagnosis of precancerous and cancerous cervical cells</p>	<p>In House documented procedure &amp; manufacturer's instructions using the following equipment</p> <p>Hologic Tomcat pre-analytical processor and targeted amplification nucleic acid probes on the Hologic Panther using the Aptima HPV assay PATH-CY-LP-008</p> <p>Using:</p> <p>Hologic T5000 Autoloader PATH-CY-LP-009</p>	A
Cervical Smears LBC samples		<p>Hologic T2000 Processor PATH-CY-LP-021</p> <p>Beckman Centrifuge PATH-CY-LP-022</p>	
Cervical Smears	Cervical smear abnormalities	<p>Automated Papanicolaou staining (PATH CY LP 008) on Sakura Tissue-Tek Prisma Plus Sakura Tissue-Tek Film Coverslipper Hologic Imaging System PATH-CY-LP-020</p> <p>Hologic Reviewscopes PATH-CY-LP-034</p>	
Slides/images prepared in house as above	Morphological assessment and interpretation/diagnosis	<p>Hologic Reviewscope Primary screening, Rapid Review, Checking and Medical Reporting PATH-CY-LP-001</p>	



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<p>Wet fixed preparations Serous fluids, Respiratory FNA's, Washings, Brushings, Urines Cyst Fluids and 'other' fluids EBUS samples, synovial fluids</p> <p>Air dried Preparations Serous fluids, FNA's, synovial fluids FNA Wet fixed Preparations: breast, thyroid, lymph node</p> <p>Serous fluids, Knee joint aspirates, Respiratory specimens CSF</p> <p>Respiratory specimens</p> <p>Slides prepared in house as above</p>	<p><u>Diagnostic Cytology examinations to assist in clinical investigations</u></p> <p>Detection of abnormal cells</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In House documented procedure &amp; manufacturer's instructions using the following equipment:</p> <p>PAP stain Method using Leica XL Autostainer SOP;- operation of PATH-NG-LP- 147 Pap staining;-PATH-NG-LP-199</p> <p>Manually stained using Rapid Romanowsky( Diff Quick) stain SOP PATH –NG-LP-196</p> <p>Manually stained using Leishman stain and microscopy SOP PATH-NG-LP-0-197</p> <p>Microscopy and Reporting SOP PATH-NG-LP-273; PATH- NG-LP-271</p>	<p>A</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Frozen Section Histology Examinations &amp; Touch Preparations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following	
Fresh Tissue	Detection of abnormal cells	Shandon Cryostat FE- manufacturer's instructions Leica CM1950 Cryostat PATH-SHI-GEN-LP-002, PATH-SHI-NP-LP-007, 008, 012- 014 & 036 & PATH-SHI-GEN-LP-001	A, B, C
Post Mortem tissue (Fresh)	Basophilic and eosinophilic cells	Manual methods using H&E stain and Microscopy PATH-HI-LP-003/004	
	Lipids	Oil Red O PATH-SHI-GEN-LP-001, PATH-SHI-GEN-LP-002, PATH-SHI-GEN-LP-003, PATH-SHI-GEN-LP-006, PATH-SHI-GEN-LP-010	A
Human Brain, CNS & PNS	Basophilic and eosinophilic cells	H&E PATH-SHI-GEN-LP-002, PATH-SHI-NP-LP-007, 008, 012- 014 & 036	
	General brain morphology	Toluidine Blue PATH-IMM-LP-013 PATH-SHI-GEN-LP-002 PATH-SHI-NP-LP-001 - 004 & 006 -013	
Muscle	Basophilic and eosinophilic cells	H&E PATH-SHI-EH-LP-009 & 036	
Rectal Tissue	Hirschsprungs disease	Methylene Blue PATH-SHI-GEN-LP-004, PATH-SHI-GEN-LP-001, PATH-SHI-GEN-LP-002, PATH-SHI-GEN-LP-014	
Frozen sections of Rectal tissue	Hirschsprung's disease-tissue	Acetylcholinesterase PATH-SHI-GEN-LP-005 & 089. PATH-SHI-EH-LP-036	
Tissues prepared as above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Routine Histopathology examinations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following  BMS Dissection manual;- PATH-BSD-LP002;003;049;052;053;067;  Decalcification of Paediatric and adult calcified tissue SOP Downdraft bench. PATH-SHIGEN-LP-037  Leica EH1150 Embedding Centres (x7). PATH-HI-LP-007/008 PATH-SHARE-MM-012/013 PATH-HI-LP-009/010  Leica RM2235 microtomes (x5) PATH-SHARE-MM-014  Leica RM2255 microtomes (x17). PATH-SHARE-MM-015  Shandon Finesse microtomes (x3). PATH-HI-LP-009/012 PATH-SHARE-MM-018  Leica Spectra ST (x4) PATH-HI-LP-002 PATH-SHARE-MM-016  Leica CV5030 Coverslipper (x3). PATH-HI-LP-005 PATH-SHARE-MM-017	A
Routine paraffin sections	Identification of basophilic and eosinophilic structures	Routine staining (H&E) PATH-HI-LP-005 PATH SHARE MM 017	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Routine Histopathology examinations to assist in Neuro clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following	A
Paraffin sections of; Brain, CNS, PNS & Temporal artery  Muscle	Identification of basophilic and eosinophilic structures	Shandon Varistain Gemini Stainer (x2). PATH-HI-LP-047 PATH SHARE MM 019 Routine staining (H&E)  Manual method using PATH-SHI-NP-LP-029 & 036  PATH-SHI-EH-LP-009 & 036	
Paraffin sections	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities</u>	In House documented manual methods and manufacturer's instructions using Manual methods and Microscopy SOPs -PATH-HI-LP- series	A
	Acid Mucins	Alcian Blue (pH2.5)	
	Amyloid	Highman's Congo Red	
	Amyloid	Sirius Red	
	Amyloid	Thioflavine T	
	Basement Membrane	Jones' Methenamine Silver - Light Green	
	Calcium	Von Kossa	
	Blood cell differentiation	Giemsa	
	Collagen/Muscle	Masson Trichrome (Microwave)	
	Copper/Hepatitis B antigen	Shikata'sOrcein	
	DNA	Feulgen	
	Ferric Iron	Perl's Prussian Blue	
	Fungi, PCP	Grocott's (Microwave)	





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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In House documented manual methods and manufacturer's instructions using Manual methods and Microscopy SOPs -PATH-HI-LP- series	A
Paraffin sections (cont'd)	Gram +ve/-ve organisms	Gram	
	Hyaluronic Acid Digestion	Alcian Blue (PH2.5) + - Hyaluronidase	
	Lipofuscin	Ziehl Neelsen (ZN)	
	Mast Cells	Toluidine Blue	
	Melanin	Masson Fontana (Microwave)	
	Melanin	Schmorl's	
	Mitochondria, Muscle Striations, Myelin, chromatin	Heidenhain's Iron Haematoxylin	
	Mucin/Glycogen differentiation	Southgate's Mucicarmine	
	Muscle Striations	Mallory's PTAH	
	<i>Mycobacterium Leprae</i> (+ other mycobacteria)	Wade Fite	
	Proteoglycans, Hyaluronic acid, acid mucin	Hale's Colloidal Iron	
	Reticulin Fibres	Gordon and Sweets Retic	
	Spirochaetes	Warthin Starry	
	Tubercle Bacilli	Auramine O	
	Tubercle Bacilli (+ other mycobacteria)	Ziehl Neelsen (Prolonged)	
	Viral Inclusions/Paneth Cell Granules	PhloxineTartrazine (Red Yellow)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In House documented methods and manufacturer's instructions using Automated Roche VentanaBenchmark SS staining machine and Microscopy SOPs -PATH-SS-LP-059	A
Paraffin sections (cont'd)	Acid Mucins	Alcian Blue staining kit	
	Acid mucins/Neutral polysaccharides	Alcian Blue PAS staining kit	
	Amyloid	Congo Red staining kit	
	Glycogen removal	Diastase removal kit for ABPAS Diastase and PAS Diastase	
	Leukocyte differentiation	Giemsa staining kit	
	Fungi, PCP	GMS II staining kit	
	Ferric Iron	Iron staining kit for Perls Prussian Blue	
	Glomerular basement membrane	Jones staining kit	
	Glycogen	PAS staining kit	
	Reticular fibres	Reticulum II staining kit	
	Connective Tissue, Muscle and Collagen Fibres	Trichrome staining kit for Masson Trichrome	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented methods and manufacturer's instructions using Automated Roche VentanaBenchmark SS staining machine and Microscopy SOPs -PATH-SS-LP-059	A
	<u>Specialist Histology examinations to assist in detection of clinical abnormalities</u>	Manual methods and microscopy	
Paraffin sections of;Brain & CNS	Myelin, Neurones and NISSL substance	Luxol fast blue/Cresyl violet, PATH-SHI-NP-LP-031 & 036	
	Neurones and NISSL substance	Cresyl violet-PATH-SHI-NP-LP-033 & 036	
Paraffin sections of;Brain, CNS & PNS	Nerve Fibres	PalmgrenPATH-SHI-NP-LP-032 & 036	
Paraffin sections of;Brain	senile plaques & neurofibrillary tangles	Modified Bielschowsky-PATH-SHI-NP-LP-034 & 036	
	neurofibrillary tangles & plaques	GallayPATH-SHI-NP-LP-035 & 036	
Frozen sections of;Muscle	General morphology, mitochondrial activity, nemaline rods, rimmed vacuoles	Modified Gomori's Trichrome - Corning 140 pH meter - PATH-SHI- EH-LP-010, 030 & 036	
	Lipid	Sudan Black B - PATH-SHI-EH-LP-011 & 036	
	Lipid	Oil Red O PATH-SHI-EH-LP-012 & 036	
	Glycogen	PAS & PAS Diastase - PATH-SHI-EH-LP-013 & 036	
	TR Reductase -	NADH -using Corning 140 pH meter and microscopyPATHSHI-EH-LP-014, 030 & 036	
	Lysosomal storage disorders &vascular myopathies	Acid Phosphatase activity - PATH-SHI-EH-LP-015, 030 & 036	
	Fibre typing - fibres with abnormal mitochondria.	Succinate dehydrogenase -PATH-SHI-EH-LP-016, 030 & 036	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Specialist Histology examinations to assist in detection of clinical abnormalities (cont'd)</u>	Manual methods and microscopy	A
	Fibre type pattern, fibres devoid of activity	Cytochrome oxidase -PATH-SHI-EH-LP-017, 030 & 036	
	Fibres devoid of cytochrome oxidase activity	Combined COX/ SD - PATH-SHI-EH-LP-018, 030 & 036	
	Enzyme activity absent in McArdle's disease	Myophosphorylase -PATH-SHI-EH-LP-019, 030 & 036	
Frozen sections of;Muscle	Fibre typing, distribution and involvement of fibre types and their sub-types	Adenosine Tri-phosphate - PATH-SHI-EH-LP-020, 021, 030 & 036	
	Exertional Myalgia	Adenylate deaminase Corning 140 pH meter - PATH-SHI-EH-LP-022	
Fresh samples of ciliated epithelium	Primary Ciliary Dyskinesia	Light microscopy of cilia samples PATH-SHI-GEN-LP-055	
Processed gastric tissue biopsies	Identification of Helicobacter Pylori.	Diff quick staining PATH-SHI-GEN-LP-023	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u>  Alpha 1 antitrypsin-liver disease  Adeno carcinoma - CEA antigen Adenocarcinoma  AMACR Protein  Androgen receptor +ve cells  Anti-Mullerian Hormone  <u>ATRX mutation</u>  <u>BAP1</u>  Basal Epithelium  Breast LCIS V DCIS - Epithelial cells	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  A-1-Anti trypsin  CEA (MONO) CEA(Poly)  AMACR  Androgen receptor  AMH  ATRX  BAP1  CK34  E-CADHERIN	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9	A
	C4d complement in kidney allograft rejection	C4d	
	C5B9 complement membrane attack complex	C5B9	
	Ca19.9 Antigen	Ca19.9	
	Carcinomas - GCDFP Protein	GCDFP	
	Cell proliferative marker - Dividing Nuclei	KI67	
	Chondroblastoma	K36	
	Chronic Lymphocytic Leukaemia	LEF-1	
	Claudin 4	CLAUDIN4	
	Clear Cell Renal Cell Carcinoma	CAIX	
	Colonic epithelium	CDX2	
	Cytomegalovirus inclusions	CMV	
	Epithelial cells	CK3	
	Epithelial cells	CK12	
Epithelial cells	EMA (Epithelial Membrane Antigen)		
Dermatological and lymphoma disease - Langerhans cells	Langerin		



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Paraffin sections (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>Dermatology / lymphoma conditions - Dendritic Cells /Langerhans cells</p> <p>Detection of Syphilis</p> <p>DNAJB9 for glomerular deposits of FGN fibrils</p> <p>Dyskaryotic glands</p> <p>EBV virus</p> <p>EBNA 2 virus</p> <p>Endocrine cells / islet cell tumours</p> <p>Endocrine cells / islet cell tumours / thyroid Ca/ carcinoid tumours</p> <p>Endometrial / Mesothelium cells</p> <p>Endothelial cells / tumours</p> <p>Endothelial cells / tumours</p>	<p>In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9</p> <p>SOPs;-PATH-ICC-LP-004, 005, 006,007,008 &amp; 010</p> <p>CD1a</p> <p>T.Pallidum</p> <p>DNAJB9</p> <p>P-TEN</p> <p>EBV-LMP</p> <p>EBNA2</p> <p>Glucagon</p> <p>Chromogranin</p> <p>GLUT-1</p> <p>CD31</p> <p>CD34</p>	<p>A</p>



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Paraffin sections (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>Von Willebrands</p> <p>enterochromaffin cells</p> <p>Epithelial marker- Meso v Adeno</p> <p>Epithelial Cells</p> <p>Epithelial cells, adenocarcinomas</p> <p>Epithelial cells, adenocarcinomas of GI tract and pancreas</p>	<p>In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9</p> <p>SOPs;-PATH-ICC-LP-004, 005, 006,007,008 &amp; 010</p> <p>Factor 8</p> <p>Serotonin 5HT</p> <p>ERA(MOC 31)</p> <p>B-Catenin</p> <p>Ber-EP4</p> <p>Villin</p>	<p>A</p>





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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9	A
Paraffin sections (cont'd)		SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010	
	Erythrocytes	Glycophorin C	
	Ewing's sarcoma / Lymphoma	CD99	
	Expression of p16 - P16 protein	P16	
	Factor XIII	Factor 13	
	Galectin 3 Protein	Galectin 3	
	<u>Ganglion cells</u>	Vasoactive Intestinal Peptide (VIP)	
	Gastric Epithelium	MUC1	
	Gastric, Intestinal, urothelium epithelium and Merkel cells	CK20	
	Gastrin	Gastrin	
	GATA 3 Binding Protein	Gata-3	
	Germ cell tumours	OCT 3/4	
	Giant cell tumour of bone	G34	
	GIST TUMOURS	CD117 (C-KIT)	
	Interstitial cells of Cajal in GI tract, GIST tumours	DOG-1	
	Glandular epithelial cells	Mammoglobin	
	Glypican 3 Protein	Glypian3	
	Goblet cells	TFE3	
	H3K27M mutation	H3K27M (H3k27me3 Histone)	
	H Pylori positive cells	H Pylori	
	Hairy cell leukaemia	DBA44	
	HB virus infected cells	HB Surface	



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010	A
	HB virus infected cells	HB Core	
	HBME-1	HBME-1	
	Hepatoblastoma / Hepatocarcinoma - Hepatocytes	Hepar-1	
	HHV8 virus	HHV8	
	HPV virus	HPV	
	HSV virus	HSV-1	
	IL4 receptor	STAT6	
	Inhibin Alpha protein	Inhibin	
	Islet cell tumours - islets of Langerhans	Insulin	
	Islet cell in pancreas	Somatostatin	



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	L cells in intestine, A cells in pancreas	GLP-1	
	Lung Adenocarcinomas	Napsin A	
	Lymphatic Endothelium/ mesothelial cells	D2-40	
	Lynch Syndrome Markers (HNPCC)	MLH-1 MSH2 MSH6 PMS2	
	C-MYC nuclear protein involved in proliferation and differentiation of cells.	c-myc	
	- mantle cell lymphomas	Sox-11	
	Anaplastic lymphoma kinase (Human p80 protein)	Alk Protein	
	Lysozyme	Muramidase	
	Mismatch Repair (MMR) Protein expression in Endometrial Cancers	MLH-1 MSH-2 MSH6 PMS2	



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Blastic Plasmacytoid Dendritic Cell Tumours  Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres  B lymphocytes  Key molecule for B cell activation and growth  Follicular dendritic cells, B cells  Follicular center cell lymphoma; identify Reed-Sternberg cells  Normal & neoplastic B lymphocytes  Pan-B-cell antigens  Pluripotent germ cell tumours  Pre-B cells  Multifunctional enzyme, identify plasma cells and plasmablastic differentiation  Dendritic Cells and Interleukin 3 receptor a-chain in Monocytes; neutrophils; basophils  Follicular Dendritic Cells  Germinal centre Cells	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  CD303 TCL-1  CD10  CD20  CD23  CD35  CD75  CD79a  CD19 CD22  OCT 2  PAX 5  CD38  CD123  CD21  BCL6	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  B cell populations in reactive lymphoid tissues ( germinal b cless + plasma cells)  Hairy cell leukaemia  IL2r Receptor  Mantle zone B lymphocytes & inter-follicular T lymphocytes and other rare tumour types  T & B lymphocytes  Multiple myeloma oncogene-1  Mantle Cells  Mast Cells  Megakaryocytes  Megakaryocytes/Platelets  Monocytes  MTAP  Myeloid cells  Neuroblastoma tumour cells  NKX3.1 protein	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  BOB-1  Anenxenin  CD25  BCL2  CD45  MUM-1  Cyclin D1  Mast cell tryptase  CD42b  CD61  CD33  MTAP  Myeloperoxidase  PHOX2B  NKX3.1	A



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Paraffin sections (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>PLA2R</p> <p>Plasma Cells</p> <p>Plasma cells and related lymphoid cells containing IgA</p> <p>Plasma cells and related lymphoid cells containing IgG</p> <p>Plasma cells and related lymphoid cells containing IgD</p> <p>Plasma cells and related lymphoid cells containing IgM</p>	<p>In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9</p> <p>SOPs;-PATH-ICC-LP-004, 005, 006,007,008 &amp; 010</p> <p>PLA2R</p> <p>CD138</p> <p>IgA</p> <p>IgG</p> <p>IgD</p> <p>IgM</p>	<p>A</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Plasma cells and related lymphoid cells containing IgG4  Plasma cells and related lymphoid cells containing IgE  Plasma cells and related lymphoid cells containing Kappa light chains  Plasma cells and related lymphoid cells containing Lambda light chains  –Reed Stenberg Cells  T /B Lymphocytes  T cells- Terminal deoxynucleotidyl transferase in thymic and small number of bone marrow cortical lymphocytes  Cytolytic lymphocytes, cytotoxic T- cells  T Cell antigen receptor  T Cells/NK cells  Circulating T lymphocytes  T lymphocytes; helper/inducer T lymphocytes  Helper/inducer T lymphocytes	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  IgG4  IgE  Kappa light chain  Lambda Light chain  CD30  CD44  TDT  TIA  Delta TCR  ZAP 70  CD2  CD3  CD4	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Germinal centre T lymphocytes; B lymphocyte subset  Peripheral blood T lymphocytes; NK cells; thymocytes  Suppressor/cytotoxic T lymphocytes  T lymphocytes; myeloid lineage cells  T & B lymphocytes  Cytotoxic T Lymphocytes, Natural killer cells  Histiocytes  NK Cells  -Reed Stenberg Cells/Granulocytes  Cell adhesion in gut  Macrophages; monocytes; granulocytes  Macrophages / Lymphoma - Mast Cells  Melanocytes  Melanocytes	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  CD5  CD7  CD8  CD43  CD45-RO  Granzyme B  CD11C  CD57  CD15 (leum1)  ATPase  CD68(PGM1)  Mac-387  MITF  HMB45	A





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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9	A
Paraffin sections (cont'd)		SOPs:-PATH-ICC-LP-004, 005, 006,007,008 & 010	
	Melanocytes	Melan A	
	Melanomas / Melanocytes	Tyrosinase	
	Normal and neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types	S100	
	Mesenchymal cells	Tenascin	
	Mesenchymal cells	Vimentin	
	Mesothelial / neuron cells	Calretinin	
	Mesothelial cells	Thrombo CD141	
	Mesothelioma - Mesothelial Cells	Mesothelin	
	MGMT Protein	MGMT	
	Mucin 4 protein	MUC-4	
	Muscle cells	Muscle Specific Actin	
	Succinate Dehydrogenase Subunit B gene mutations	SDHB	
	Smooth Muscle Cells	Caldesmon	
	Smooth muscle cells	Calponin	
	Myeloid cells, lymphocytes and macrophages	TRAP-1	
	Nervous tissue and neuroendocrine cells	NSE	
	Neuroblastoma - cytoplasmic in most cells	Neuroblastoma	



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Neurofibrillary tangles in Alzheimer's disease  neurones, axons, dendrites.  Neurones/ nerves/neuroendocrine cells  Neurons, Neuroendocrine cells  Glial fibrillary acidic protein (Neural cells) Astrocytes  Neuronal cell marker  Neuronal intermediate filament  Lewy bodies / degenerative neurons  presence of Amyloid  Amyloid  Used to aid identification of gliomas  NK cells, Schwann cells, neuroendocrine cells, T lymphocytes  Non keratinised, stratified squamous epithelial cells / Mesotheliomas  Ovarian & Wilms tumour	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs:-PATH-ICC-LP-004, 005, 006,007,008 & 010  TAU  Tyrosinase Hydroxylase  PGP 9.5  Synaptophysin  GFAP  Neun N  Neurofilament  A-SYN  BAPP  B-Amyloid  IDH1  CD56  CK5  WT1	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Ovarian Panel - Ca125 Antigen  Ovarian Tumours - Nuclear Antigen  P Jirovec Organisms  P24 expression  P53 expression  P57 protein  Pan Epithelial marker - Epithelial Cells  Pan Muscle marker  Pancreatic Polypeptide  Parafollicular cells in thyroid  Parathyroid Hormone  Parvo virus  Pituitary tumours - Gonadotrophic cells  Follicle Stimulating Hormone  Human Growth Hormone  Leutinzing Hormone  Prolactin hormone  Simian Virus 40  Thyroid stimulating hormone  Ubiquitin	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  Ca125  PAX 8  PnemocytosisJirovec  P24  P53  P57  AE1/AE3  Desmin  PPP  Calcitonin  Parathyroid Hormone  Parvo virus  ACTH  FSH  HGH  LH  PROLACTIN  SV40  TSH  Ubiquitin	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Pneumocytes / alveolar macrophages  Presence of Amyloid - Amyloid  Presence of Amyloid - Amyloid  Prostate secretory and ductal epithelium  Prostate secretory and ductal epithelium  Renal cell Carcinomas - apical surface of cortical tubules  Rhabdoid tumours  Rhabdomyosarcoma marker - skeletal Muscle  Skeletal muscle  Simple and glandular epithelium  Smooth muscle cells  Specific epithelial cells  Simple, glandular & transitional epithelia  Cytokeratin marker  Epithelia  Pan Cytokeratin marker	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  Surfactant Apolipoprotein  Amyloid A  Amyloid P  PSA  PSAP  RCC  INI-1(BAF-47)  MyoD1  Myogenin  Cam 5.2  SMM  CK2  CK7  CK10  CK19  MNF-116	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)  Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>  Hair follicles, basal keratinocytes in stratified epithelium (various tissue/organs), myoepithelial cells (breast and salivary gland), thyroid oncocytes  Squamous cell carcinoma - Basal Epithelium  Squamous cell carcinoma - Epithelial cells  SOX10  Stratified squamous epithelium, basal cells, mesotheliomas  Striated muscle  Syncytiotrophoblasts  T Cells  T Lymphocytes  Thyroglobulin producing cells  Toxoplasma  Trophoblastic disease/ Germ cell tumours - syncytiotrophoblasts  Thyroid and lung tumours  WAF1  Yolk sac / Germ Cell tumours - A-Fetalprotein	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers x9  SOPs;-PATH-ICC-LP-004, 005, 006,007,008 & 010  CK14  P63  P40  SOX10  CK5/6  Sarcomeric actin  PLAP  PD1  Beta -F1  Thyroglobulin  Toxoplasma  Beta HCG  TTF-1  P21 (WAF)  a-1-Fetal protein	A



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Slides as prepared above</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>Morphological assessment and interpretation/diagnosis Reporting</p> <p>Non small cell lung cancers</p>	<p>SOP PATH-MD-LP-004</p> <p>Ventana Benchmark Ultra's x2. In-House documented procedures and manufacturer instructions. PATH-ICC-LP-010, 019, 020, 021,022,023,025,026,</p> <p>ALK ROS1</p>	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>		
Paraffin sections	Cellular oestrogen receptor expression	Oestrogen receptor (ER)	
	Cellular progesterone receptor expression	Progesterone receptor (PR)	
	HER2	HER2	
	HER-2 (clone 4B5) (Gastric and Oesophageal cancers)	HER-2 (clone 4B5)	
	In situ hybridization (ISH) of Histopathology examinations to assist in detection of clinical abnormalities		
	Detection of mRNA in Lymphomas;-ISH Markers		
	Epstein Barr Encoded RNA expressing cells	EBER probe	
	Kappa Mrna	Inform Kappa probe	
	Lambda mRNA	Inform Lambda probe	
	Triple Negative Breast Cancer	PDL-1 SP142	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-ICC-LP-043	
		Dako P/T module and Autostainer Link 48	
	Non small cell lung cancer and Head and neck SCC	PDL-1	
	Gastric and Oesophageal cancers	PD-L1 (clones 22C3 and 28-8)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunofluorescence of Histopathology examinations to assist in detection of clinical abnormalities</u>	Manual staining. In-House documented procedures. PATH-IMM-LP-001,002,16. 017 & 019.	A
Renal/Skin samples	Deposition of IgG Deposition of IgA Deposition of IgM Deposition of C3 Deposition of Kappa Deposition of Lambda Deposition of Fibrinogen Deposition of C1Q	IgG-FITC IgA-FITC IgM-FITC C3-FITC Kappa-FITC Lambda-FITC Fibrinogen-FITC C1Q-FITC	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	
Muscle fibres	<u>Immunocytochemistry for Demonstration of muscle fibre architecture</u> Cytoskeletal protein Inflammatory myopathies	Menarini Intellipath Immunostainer Path-ICC-LP-010, 012, -013, 014, 015. Spectrin Utrophin	A
Frozen tissue	Inflammatory myopathies and some muscular dystrophies Limb-girdle muscular dystrophy Limb-girdle muscular dystrophy Limb-girdle muscular dystrophy Sarcoglycanopathies Sarcoglycanopathies Sarcoglycanopathies Sarcoglycanopathies Congenital muscular dystrophies	HLA DYS1 DYS2 DYS3 SARC A SARC B SARC G SARC D LAM A2	





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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry for Demonstration of muscle fibre architecture (cont'd)</u>	Menarini Intellipath Immunostainer Path-ICC-LP-010, 012, -013, 014, 015.	A
Muscle fibres	Congenital muscular dystrophies	LAM A5	
	Congenital muscular dystrophies	LAM B1	
	Congenital muscular dystrophies	LAM B2	
	Congenital muscular dystrophies	HAM 1	
	Congenital muscular dystrophies	HAM 2	
	Rare muscle diseases	Emerin	
	Neonatal muscle myosin	Neomyosin	
FFPE	CXCL13	CXCL13	
Slides as prepared above	Morphological assessment and interpretation/diagnosis	Microscopy SOP PATH-MD-LP-004	
	<u>Electron Microscopy examinations to assist in detection of clinical abnormalities</u>	In house documented procedure & manufacturer's instructions using	A
Tissue, fluids and samples		Tissue processing & embedding Leica EMTP & Genlab oven, Mistral centrifuge and Eppendorf mini-spin PATH-EM-LP-014, 022-027, PATH-EM-LP-079-080	
		Tissue sectioning for light and electron microscopy using Leica EM UC7, Leica KMR3, Leica EM MP, PATH-EM-LP-028, 029	
	Demonstration of general tissue architecture	Tissue staining for light microscopy manual methods -Toluidine blue	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Electron Microscopy examinations to assist in detection of clinical abnormalities (cont'd)</u>	In house documented procedure & manufacturer's instructions using	A
Tissue, fluids and samples (cont'd)	Contrast enhancement of tissue architecture of ultrathin sections	Contrast enhancement ; -manual methods and microscopy ; - Uranyl acetate and Reynold lead citrate	
Slides as prepared above	Detection of abnormal cells	Electron microscopic analysis including digital imaging using FEI Tecnai& Hitachi 7800TEMs PATH-EM-LP-032-042, PATH-EM-LP-045,082	
	Morphological assessment and interpretation/diagnosis	Microscopy SOP PATH-MD-LP-004	
End			