


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 8625 Accredited to ISO 15189:2012	Portsmouth Hospitals University NHS Trust	
	Issue No: 008 Issue date: 18 October 2021	
	Department of Cellular Pathology Pathology Centre Queen Alexandra Hospital Portsmouth PO6 3LY	Contact: Michelle Jackson Tel: +44 023 9228 6718 Fax: +44 023 9228 6493 E-Mail: Michelle.Jackson@porthosp.nhs.uk Website: www.porthosp.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Mortuary Department of Cellular Pathology Pathology Centre Queen Alexandra Hospital Portsmouth PO6 3LY	<u>Mortuary Services</u> Reception, body storage and release



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
Formalin fixed, paraffin embedded (FFPE) tissue		<u>Microtomy</u> Manual method using: Shandon Finesse ME microtome Leica RM2255 SOP: HISPROL022
FFPE tissue	Basophilic and eosinophilic tissue structures	<u>Automated Haematoxylin and Eosin (H&E) staining and coverslipping</u> Automated method using: Leica Autostainer XL Staining Machine SOP: HISPROL025 Dako Coverstainer SOP: HISPROL130
Fresh tissue Frozen tissue	Intraoperative analysis: Presence or absence of malignancy Clearance of margins Presence of Thyroid or Parathyroid tissue	<u>Rapid frozen section</u> Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using: ThermoShandon Cryotome E or Leica CM1900 Cryostat SOP: HISPROL087 and HISINS115
FFPE tissue	<u>Special stains</u> Special staining to detect the following: Acid & Neutral Mucins Polysaccharides including glycogen Amyloid Differentiates amyloid types Haematopoietic cells Helicobacter Pylori	Manual methods using: SOP: HISPROL137 and the following stains: Alcian Blue Alcian Blue Van Gieson Alcian Blue Periodic Acid Schiff with or without Diastase Periodic Acid Schiff with or without Diastase Congo Red Congo Red with Bleach Giemsa Giemsa (Modified)



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Special stains (cont'd)</u>	Manual methods (cont'd)
	Gram positive and negative bacteria	Gram
	Argyrophil cell granules	Grimelius
	Fungi	Grocott
	Melanin	Masson Fontana
	Muscle and Connective Tissue	Masson Trichrome
	Bleaching of melanin pigment	Acid Permanganate Melanin Bleach
	Basement Membranes and other polysaccharides	Methenamine Silver (Jones' Silver)
	Elastic fibres	Millers Elastic van Gieson
	Fibrin connective tissue	Martius Scarlet Blue
	Lipid	Oil Red O
	Copper associated protein, hepatitis infection / Elastic tissue	Orcein
	Haemosiderin	Perls
	Reticulin fibres Connective tissue	Gordon & Sweets' Reticulin van Gieson
	Calcium salts	von Kossa
	Acid fast bacilli including Mycobacterium leprae, atypical Mycobacteria	Wade Fite
	Spirochetes, Helicobacter pylori, Bartonella henselae and Bartonella quintana	Warthin Starry



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Special stains (cont'd)</u>	Manual methods (cont'd)
FFPE tissue	Acid Alcohol fast bacilli (Aafb) including Mycobacterium tuberculosis	Ziehl-Neelsen
FFPE tissue	<u>Immunohistochemistry</u> Immunohistochemistry to detect the following: Liver Diseases, Embryonic cells in normal tissues and germ tumours Leiomyomas, Smooth muscle cells, myoepithelial cells Normal/neoplastic tissue epithelial in origin β CATENIN Protein Follicular lymphoma Adenocarcinoma C1q complement component, Renal disease, systemic lupus erythematosus (SLE) C3c fragment of complement, Renal disease Human complement split product C4d, Renal transplant rejection	Automated methods using: Leica Bond System Leica Autostainer XL DAKO Coverstainer SOP: HISPROL101 and the following antibodies: α -Fetoprotein Actin smooth muscle Cytokeratin Multi (AE1/AE3) β -Catenin BCL2 Oncoprotein Ber-EP4 C1q C3c C4d



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated methods (cont'd)
	Luminal cells of the fallopian tube, Ovarian carcinoma	CA125
	Medullary thyroid carcinoma / Parafollicular (C-Cells)	Calcitonin
	Smooth muscle, myoepithelial cells, Leiomyoma	Caldesmon
	Myoepithelial cells, smooth muscle, leiomyosarcomas	Calponin
	Mesothelial cells, malignant mesothelioma	Calretinin
	Low molecular weight cytokeratin marker	CAM 5.2
	Differentiation between renal cell tumours	Carbonic Anhydrase IX
	Carcinoembryonic antigen, adenocarcinoma	Carcinoembryonic Antigen
	Reed sternberg cells, hodgkins disease	CD15
	Mic2 gene products, small blue round tumours	CD99
	Immature B-cells, follicular dendritic cells, lymphoma	CD10
	Mast cells and GIST	CD117
	Plasma cells	CD138
	B-cell marker, lymphoma	CD20
	Mature B-cells, follicular dendritic cells, lymphoma	CD21



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated methods (cont'd)
	Follicular dendritic cells, lymphoma	CD23
	T-cell marker, lymphoma	CD3
	RS Cells, lymphoma	CD30
	Endothelial cells	CD31
	Endothelial Marker	CD34
	T-helper cells, lymphomas	CD4
	Leukocyte common antigen, lymphoma	CD45
	T-cells, Lymphoma	CD5
	Neural cell adhesion molecule, neuroendocrine cells	CD56
	Macrophages, stimulated T cells, lymphomas	CD68 PGM1
	B-Cell marker, lymphoma	CD79a
	Intestinal epithelial, invasive colorectal carcinoma	CDX2
	Neuroendocrine neoplasia	Chromogranin A
	Differentiation between mesothelioma and carcinoma	Claudin 4
	Cytomegalovirus (CMV) infected tissue	CMV
	Squamous, basal epithelia	Cytokeratin 14
	Epithelial cells, metastatic breast carcinoma in nodes	Cytokeratin 19
	Gastrointestinal epithelia, colonic carcinoma	Cytokeratin 20



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated methods (cont'd)
	Squamous, basal epithelia, mesothelioma	Cytokeratin 5
	Glandular, transitional epithelia, gynaecological tumours, lung carcinoma	Cytokeratin 7
	Vascular smooth muscle, leiomyomas, leiomyosarcomas, rhabdomyosarcomas	Desmin
	Lymphovascular invasion	D240
	Gastro Intestinal Stromal tumours (GIST)	DOG-1
	Mammary duct epithelia, invasive breast carcinoma	E-Cadherin
	Epithelial cells, mesothelial cells	EMA
	Oestrogen Receptor, ER positive breast carcinoma	ER
	Fibrohistocytic Tumour, dermatofibroma	Factor XIIIa
	Differentiation of carcinoma	GATA3
	Gross Cystic Disease Fluid Protein, breast tumours	GCDFP 15
	Hepatocellular carcinoma	Glypican 3
	Mesothelial cells	HBME-1
	Trophoblastic elements, e.g. in germ cell tumours	β -hCG
	Differential diagnosis of hepatocellular tumours	Hepatocyte



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Immunohistochemistry (cont'd)</u>	Automated methods (cont'd)
	Human Epidermal growth factor Receptor 2 (HER2)	Using test kit: Leica Bond Oracle HER2 IHC System SOP: HISPROL095
	Melanosomes, melanoma	HMB45
	High molecular weight cytokeratins	HMCK
	Immunoglobulin A, renal nephropathy	IgA
	IgG4 disease	IgG4
	Immunoglobulin G, renal glomerular nephritis	IgG Poly
	Immunoglobulin M, renal nephropathy	IgM
	Leydig, Sertoli cells	Inhibin
	Immunoglobulin Kappa light chains, plasma cells, renal disease	Kappa
	Proliferation marker	Ki67
	Immunoglobulin Lambda light chains, plasma cells, renal disease	Lambda
	Melanocytes, malignant melanoma	Melan A
	Mismatch repair protein, Lynch syndrome	MLH-1
	Broad range cytokeratin, epithelial cells	MNF116



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
FFPE tissue (cont'd)	<u>Immunohistochemistry (cont'd)</u> Mismatch repair protein, Lynch syndrome Mismatch repair protein, Lynch syndrome Neuroendocrine marker, carcinoid tumours Mismatch repair protein, Lynch syndrome Germ cell tumours Basal cells in benign prostate, squamous epithelial cells, squamous cell carcinoma HPV, oral SCC, cervical carcinoma Basal cells of squamous epithelia and squamous cell carcinoma Neoplastic prostate glands, prostate carcinoma Tumour suppressor gene	Automated methods (cont'd) MSH-2 MSH-6 NSE PMS2 OCT 3/4 p63 P16 P40 p504S p53



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Kidney, ovarian and thyroid cancer Membranous nephropathy Placental Alkaline Phosphatase, Molar pregnancies, choriocarcinoma Polyoma virus, renal transplant rejection Progesterone Receptor, breast cancer Prostatic Acid Phosphatase, prostate Prostate epithelium, prostate specific antigen	PAX 8 PLA2R Placental Alkaline Phosphatase Polyoma Progesterone Receptors Prostate-specific Acid Phosphatase Prostatic Specific Antigen



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>FFPE tissue (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Melanoma, neuroendocrine</p> <p>Melanocytic marker</p> <p>Myoepithelial cells in the breast / identification of smooth muscle neoplasm.</p> <p>Neuroendocrine marker</p> <p>Lumen of thyroid follicles, thyroid tumours</p> <p>Thyroid Transcription factor-1, adenocarcinoma of lung and thyroid</p> <p>Mesenchymal Marker, sarcomas</p> <p>Wilms tumour gene product, ovarian serous carcinoma</p>	<p>Documented in-house procedures</p> <p>Automated methods (cont'd)</p> <p>S100</p> <p>SOX10</p> <p>Smooth Muscle Myosin</p> <p>Synaptophysin</p> <p>Thyroglobulin</p> <p>TTF-1</p> <p>Vimentin</p> <p>WT1</p>



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures
Slides prepared in-house from sample types listed above	<u>Microscopy (qualitative analysis)</u> Morphological assessment and interpretation/diagnosis	In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMRB Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2
Skin Biopsies (non-FFPE)	Skin Immunofluorescence	<u>Cryotomy</u> Thermo Shandon Cryotome E or Leica CM1900 Cryostat SOP: HISPROL030
Skin Biopsies (non-FFPE)	Detection of Immunoglobulin: IgA IgG C3c	<u>Manual FITC Staining</u> SOP : HISPROL030 using FITC antibodies: IgA FITC IgG FITC C3c FITC



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p> <p>Renal Biopsies</p> <p>Formalin fixed tissue</p> <p>FFPE tissue</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>FITC Microscopy (qualitative analysis)</u></p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Renal Biopsies</u></p>	<p>Documented in-house procedures</p> <p>In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMRB Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2</p> <p><u>Sample Preparation</u> In-house procedures: SOP: HISPROL024 using: Zeiss Stemi DV4 Stereo Microscope</p> <p><u>Tissue Processing</u> In-house procedures: SOP: HISPROL024 using: Leica Peloris or ASP300/S Tissue Processor</p> <p><u>Embedding</u> Manual method using: Leica Embedding Station SOP: HISPROL020</p> <p><u>Microtomy</u> Manual method using: Leica RM2255 SOP: HISPROL022</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Microscopy (qualitative analysis)</u></p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Documented in-house procedures</p> <p>In-house procedures: SOP: HISRMAN001 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMRB Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2</p>
<p>Renal Biopsies (non-FFPE)</p>	<p><u>Electron Microscopy: preparation of sample and interpretation of micrograph</u></p> <p>Preparation of Resin Blocks for Electron Microscopy</p>	<p><u>Sample Preparation</u> In-house procedures: SOP: HISPROL024 using: Zeiss Stemi DV4 Stereo Microscope</p>
<p>Renal Biopsies (non-FFPE)</p>		<p><u>Tissue Processing</u> Processing by manual method: SOP: HISPROL041</p> <p><u>Embedding</u> Resin block embedding by manual method for referred electron microscopy: SOP: HISPROL041</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Resin blocks</p> <p>Resin blocks</p> <p>Electron Micrograph produced by accredited referral laboratory on specimen types specified above</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Cutting Semi-thin Sections for Electron Microscopy</p> <p>Staining Semi-thin Sections for determining if Electron Microscopy is required</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>Documented in-house procedures</p> <p><u>Microtomy</u> Preparation of semi-thin sections by manual method for referred electron microscopy using: Glass Knife manufacture by in-house procedure: SOP: HISPROL042 Jung Ultracut E SOP: HISPROL043</p> <p><u>Staining</u> Manual method using: Toluidine Blue SOP: HISPROL043 using microscopes: Leica DMLB Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMRB Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2</p> <p><u>Qualitative analysis</u> In-house procedures: SOP: HISRMAN001</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Body fluid: Urine Joint fluid Serous effusions Endoscopic brushings EUS / EBUS in fluid Fine needle aspirates Needle washings Bronchial washings and lavages CSF Intraocular sample</p> <p>Slides prepared in-house from sample types listed above</p> <p>Slides prepared in-house from sample types listed above</p>	<p><u>Cytopathological examination activities for the purposes of clinical diagnosis</u></p> <p><u>Diagnostic Cytopathology</u></p> <p>Preparation and examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Staining to identify or exclude morphological and cytological abnormalities</p> <p>Staining to identify or exclude morphological and cytological abnormalities</p>	<p>Documented in-house procedures in conjunction with manufacturers instructions</p> <p><u>Preparation/centrifugation</u> In-house procedures: SOP: CYTPROL058 in conjunction with manufacturer's instructions using: Thermo Shandon Cytospin 4 IEC Centra CLS centrifuge Hologic T2000 processor</p> <p><u>Papanicolaou staining</u> Automated using in-house procedures: SOP: CYTPROL082 in conjunction with manufacturer's instructions using: Leica / Jung Autostainer XL</p> <p><u>May - Grünwald Giemsa staining</u> Automated using in-house procedures: SOP: CYTPROL082 in conjunction with manufacturer's instructions using: Leica / Jung Autostainer XL</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p> <p>Joint fluid</p>	<p><u>Cytopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Microscopy (qualitative analysis)</u></p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Joint Crystals</u></p> <p>Preparation and examination to identify Joint Crystals</p>	<p>Documented in-house procedures</p> <p>In-house procedures: SOP: CYTPROL091 SOP: CYTRMAN001 using microscopes: Leica DMLB Leica DM2500 Leica DM1000LED Leica DM2000LED Leica DM3000LED Leica DM4000B Leica DMLS Leica DMRB Olympus BX41 Olympus BX50 Olympus BX51 Olympus BX53 Nikon Eclipse E400 Zeiss Axioskop-2</p> <p><u>Sample preparation:</u> Temporary (wet) & permanent preparations Wet preparation for immediate crystal analysis (polarising microscopy) Permanent preparation for cellular analysis SOP: CYTPROL158</p>



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END		