

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



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ISO 15189:2012

Wirral University Teaching Hospital NHS Foundation Trust

Issue No: 004 Issue date: 22 August 2023

Cellular Pathology
Department of Cellular Pathology
Arrowe Park Hospital
Arrowe Park Road
Wirral
CH49 5PE

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E-Mail: alistair.armstrong@nhs.net
Website: www.wuth.nhs.uk

Testing performed at the above address only

Laboratory locations:

Location details	Activity
Address Cellular Pathology Department of Cellular Pathology Arrowe Park Hospital Arrowe Park Road Wirral CH49 5PE Local contact Alistair Armstrong Tel: +44 (0)151 604 7025 Fax: +44 (0)151 604 1733	Routine Histopathology Special Stains Immunohistochemistry Immunofluorescence Diagnostic Cytology (Non-Gynae) Mortuary Services

Site activities performed away from the locations listed above:

Location details	Activity
Mortuary Clatterbridge Hospital Clatterbridge Road Bebington Birkenhead Wirral CH63 4JY Contact: See above	Mortuary Services (body receipt, storage and release)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Supported by:</p> <p>Tissue Dissection: Dissection Procedures AP-SOP01-APSOP34. HPSR21: Pathologists cut-up procedure HPSR23 BMS cut-up procedure HPSR33: Decalcification Procedure HPSR42 Use of the Thermofisher Printmate</p> <p>Cryotomy: Leica CM 1510S HPSR30: Use and Maintenance of the Cryostat HPSR31: Use of Liquid Nitrogen HPSR15 Frozen Section Procedure</p> <p>Tissue Processing: Eprelia Excelsior AS Tissue Processors HPSR24 Use of the Excelsior Processor HPSR26 Programming of the Excelsior Processor HPSR45 Use of the Excelsior AS Processor HPSR46 Maintenance of the Excelsior AS Processor Thermo Fisher Excelsior ES.</p> <p>Embedding: HPSOP18 Embedding Procedure, HPSOP19 Operation and maintenance of Embedding Centres Thermoscientific Histostar</p>



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<p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks</p>	<p>Identification of nuclei, cell cytoplasm and connective tissues in cells and tissues for the purposes of clinical diagnosis using Haematoxylin & Eosin.</p>	<p>Haematoxylin and Eosin staining- Manual and automated methods- Rapid H&E stain for frozen sections: HTSOP21 H&E HPSOP27: Operation and Maintenance of the Leica Autostainer HPSOP28: Operation and Maintenance of the Leica Automatic Coverslipper Leica Autostainer XL Leica Coverslipper CV5030</p>
<p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks</p>	<p>Special staining of histopathology examinations to assist in detection of clinical abnormalities:</p> <p>Acid and Neutral Mucopolysaccharides</p> <p>Acid Mucopolysaccharides</p> <p>Helicobacter/Microorganisms</p> <p>Reticulin fibres</p>	<p>Special staining In-house manual documented procedures based on manufacturers' manuals as relevant</p> <p>HTOSP001 Alcian Blue</p> <p>HTSOP002 Alcian Blue+/- Diastase</p> <p>HTSOP015 Giemsa</p> <p>HTSOP017 Reticulin</p>



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	<p><u>Immunohistochemistry examination activities for detection of:</u> (cont'd)</p>	
	<p>Follicular and diffused large cell lymphomas from reactive lymph nodes</p>	<p>BCL-2</p>
	<p>Diffuse large B cell lymphomas and Burkitt's lymphoma and Reed Sternberg cells in Hodgkin's disease</p>	<p>BCL-6</p>
	<p>Intracellular localization of beta-catenin</p>	<p>BETA-CATENIN</p>
	<p>Ovarian epithelial malignancies</p>	<p>CA125</p>
	<p>Ductal epithelium of the breast, kidney, salivary glands and sweat glands</p>	<p>CA199</p>
	<p>Parafollicular cells of the thyroid</p>	<p>CALCITONIN</p>
	<p>Classification of mesothelial cells and malignant mesothelioma of the epithelial type</p>	<p>CALRETININ</p>
	<p>Epithelial Cells</p>	<p>CAM5.2</p>
	<p>T cells</p>	<p>CD3</p>
	<p>Langerhans cells</p>	<p>CD1a</p>
	<p>T cells</p>	<p>CD4</p>
	<p>T-Cells</p>	<p>CD5</p>
	<p>T Cells</p>	<p>CD8</p>



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	<u>Immunohistochemistry examination activities for detection of:</u> (cont'd)	
	KIT protein in gastro-intestinal stromal tumours	CD117
	Plasma cells	CD138
	Macrophages	CD163
	Intestinal epithelial cells	CDX2
	Neuroendocrine cells	CHROMOGRANIN A
	Carcino embryonic antigen	CEAM
	Mantle cell lymphomas and breast	CYCLIN D1
	Epithelium	CK5/6
	Epithelium	CK7
	Epithelium	CK14
	Epithelium	CK19
	Epithelium	CK20
	Cytomegalovirus infected cells	CMV
	Desmin in striated and smooth muscle	DESMIN
	Gastro intestinal stromal tumours	DOG-1
	Ebstein Barr virus	EBV
	Epithelial cells	E-CADHERIN
	Normal and neoplastic epithelia	EMA
	Oestrogen receptors	ER



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	<u>Immunohistochemistry examination activities for detection of:</u> (cont'd)	
	Alpha-methylacyl-CoA racemase (AMACR)	P504S
	P53 protein	P53
	P63 protein	P63
	Prostatic Acid Phosphatase	PAPH
	Neurons and neuroendocrine cells	PGP9.5
	Placental trophoblasts	PLAP
	Postmeiotic segregation increased 2	PMS2
	Progesterone Receptor	PR
	Prostate Specific Antigen	PSA
	Schwann cells, adipocytes, cartilage	S100
	Smooth Muscle cells	SMOOTHLIN
	Smooth Muscle cells	SMA
	Smooth Muscle cells	SMM
	Islets of Langerhans cells	SYNAPTOHYSIN
	Mesothelial Cells	THROMBOMODULIN
	Thyroid cells	THYROGLOBULIN
	Thyroid transcription factor	TTF-1
	Mesenchyme cells	VIMENTIN



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<p>Renal and skin biopsies</p>	<p>Immunofluorescence- Identification of Antigens and antibodies in various auto-immune skin diseases:</p> <p>C3c fragment, native C3 and C3b</p> <p>alpha chains of human IgA</p> <p>gamma chains of human IgG</p> <p>mu chains of human IgM</p> <p>C1Q Complement</p> <p>Kappa Light Chain</p> <p>Lambda Light Chains</p> <p>Fibrogen</p>	<p>Documented in-house procedures in conjunction with manufacturer's instructions for Zeiss Fluorescent Microscope IHC-11 Immunofluorescence for Renal Biopsies, IHC-12 Immunofluorescence for Skin Biopsies</p> <p>C3c complement/FITC</p> <p>IgA/FITC</p> <p>IgG/FITC</p> <p>IgM/FITC</p> <p>C1Q complement/FITC</p> <p>KAPPA/FITC</p> <p>LAMBDA/FITC</p> <p>FIBROGEN/FITC</p>
<p>Post Mortem Lung Tissue</p>	<p>Microscopic Analysis and counting of asbestos fibres</p>	<p>Documented in house procedure HPSR35</p>



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<p>HUMAN BODY FLUIDS</p> <p>Fine needle aspirations (various sites) Serous effusions (pleural, ascetic, pericardial) Urine Cyst Fluids Peritoneal Washings Cerebrospinal Fluid EBUS and EUA</p> <p>Respiratory washing and brushings Sputum Bile Duct brushings</p>	<p><u>Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Identification of: Cells (nuclei and cytoplasm) and micro organisms</p>	<p>Macroscopic and microscopic examination</p> <p>Documented in-house procedures In conjunction with manufacturer's instructions for Thermoscientific Cytospin 4, Centrifuge, Thermofisher Gemini, Leica coverslipper CV5030 NGSOP05: Preparation of Urology Samples NGSOP06 Preparation of Serous Cavity Fluids, Washings and Cyst Fluids NGSOP09 Preparation of EBS and EUA Samples NGSOP10 Preparation of Breast Samples NGSOP11 Preparation of Fine Needle Aspiration Samples NGSOP12 Preparation of Cerebrospinal Fluids</p> <p>Documented in-house procedures In conjunction with manufacturer's instructions for Thermoscientific Centrifuge, ThinPrep T2000, Thermofisher Gemini, Leica coverslipper CV5030 NGSOP07 Preparation of Bronchial Brushes, Washes, Sputum and Common bile duct brushings NGSOP08 Preparation of Bronchoalveolar lavage Specimens NGSOP17 Cytoc T2000 Processor: Operation, maintenance and troubleshooting</p> <p>Papanicolaou NGSOP16 Shandon Gemini AS: Operation, Programming, Cleaning and Renewal of Reagents NGSOP21 Quality Control in Non-Gynaecology</p>



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HUMAN BODY FLUIDS	<u>Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis</u> Cells (nuclei and cytoplasm) Preparation of cell blocks for histology processing and staining	Macroscopic and microscopic examination Hema-Gurr NGSOP15 Diff Quik: Staining technique and renewal of reagents NGSOP14 Preparation of Non-Gynaecology specimens for Histological analysis NGSOP21 Quality Control in Non-Gynaecology
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	HOSOP05 Consultation Reports Winscribe Digital Dictation, A Range of Microscopes from Nikon, Olympus, Leica, Zeiss
END		