


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL</p> <p>8836</p> <p>Accredited to ISO 15189:2012</p>	<p><b>Wirral University Teaching Hospital NHS Foundation Trust</b></p> <p>Issue No: 002    Issue date: 17 April 2019</p>	
	<p><b>Cellular Pathology</b> Department of Cellular Pathology Arrowe Park Hospital Arrowe Park Road Wirral CH49 5PE</p>	<p><b>Contact: Alistair Armstrong</b> Tel: +44 (0)151 604 7025 Fax: +44 (0)151 604 1733 E-Mail: alistair.armstrong@nhs.net Website: www.wuth.nhs.uk</p>
<p>Testing performed at the above address only</p>		

### Laboratory locations:

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

### Site activities performed away from the locations listed above:

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



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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: HPSR24 Use of the Excelsior Processor HPSR26 Programming of the Excelsior Processor Thermo Fisher Excelsior ES. Thermofisher Excelsior. Thermofisher Pathcentre</p> <p>Embedding: HPSOP18 Embedding Procedure, HPSOP19 Operation and maintenance of Embedding Centres Thermoscientific Histostar</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Section Cutting: HPSOP20: Trimming of Blocks HPSOP21 General Section Cutting, HPSOP23 Liver Biopsy Procedure, HPSOP24 Renal Biopsy Procedure, HPSOP72 Megablocks Procedure, HTSOP78 Use of the Slidemate Thermofisher Microtome Finesse E Microtome Thermofisher Microtome Finesse Thermofisher Microm HM340 E Leica RM 2235 Microtome</p>
<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 &amp; Eosin.</p>	<p>Haematoxylin and Eosin staining- Manual and automated methods- Rapid H&amp;E stain for frozen sections: HTSOP21 H&amp;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>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Special staining of histopathology examinations to assist in detection of clinical abnormalities: (cont'd)</p> <p>Fungi</p> <p>Basement Membranes</p> <p>Fibrin and connective tissues</p> <p>Melanin</p> <p>Connective tissues</p> <p>Elastic Fibres and connective tissue</p> <p>Lipids</p> <p>Hepatitis B surface antigen</p> <p>Neutral mucopolysaccharides and glycogen, basement membranes</p> <p>Ferric iron</p> <p>Connective tissues and Muscle</p> <p>Removal of Melanin Pigment</p> <p>Mast cells</p> <p>Calcium</p> <p>Acid fast mycobacteria</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Special staining In-house manual documented procedures based on manufacturers' manuals as relevant:</p> <p>HPSOP034 Periodic Acid Schiff+/- Diastase HTSOP019 Grocotts Methanamine Silver</p> <p>HTSOP020 Modified Grocotts Methanamine Silver</p> <p>HTSOP024 Martius Scarlet Blue</p> <p>HTSOP025 Masson Fontana</p> <p>HTSOP026 Masson Trichrome</p> <p>HTSOP029 Millers Elastin Stain</p> <p>HTSOP031 Oil Red O</p> <p>HTSOP033 Orcein Shikata</p> <p>HPSOP034 Periodic Acid Schiff+/- Diastase</p> <p>HTSOP035 Perls Reaction</p> <p>HTSOP038 Picro Sirius Red</p> <p>HTSOP041 Pigment Removal: Melanin</p> <p>HTSOP046 Toluidine Blue</p> <p>HTSOP050 Von Kossa</p> <p>HTSOP052 Ziehl Neelsen</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Special staining of histopathology examinations to assist in detection of clinical abnormalities: (cont'd)</p> <p>Gram +ve &amp; Gram -ve microorganisms</p> <p>Amyloid</p> <p>Bile Pigments</p> <p><u>Immunohistochemistry examination activities for detection of:</u></p> <p>Embryonic cells in normal tissues and germ tumours</p> <p>Keratinized and corneal epidermis, stratified squamous epithelia of internal organs, stratified epithelia, hyperproliferative keratinocytes, and simple epithelia</p> <p>Squamous epithelium, follicular epithelia in thyroid, epithelia and mesothelium in small and large bowel</p> <p>Anaplastic lymphoma kinase receptor tyrosine kinase</p> <p>Alpha fetal protein</p> <p>Epithelial Cells</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Special staining In-house manual documented procedures based on manufacturers' manuals as relevant:</p> <p>HTSOP054 Gram Staining</p> <p>HTSOP055 Alkaline Congo Red</p> <p>HTSOP13 Fouchet Van Giesen</p> <p>Immunohistochemistry Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant: IHC-02: Use of the PT module IHC-13 Use of the Dako Autostainer Link48</p> <p>ALPHA FETOPROTEIN</p> <p>AE 1/3</p> <p>34BE12</p> <p>ALK-1</p> <p>ALPHA FETAL PROTEIN</p> <p>BEREP4</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <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>Diffuse large B cell lymphomas and Burkitt's lymphoma and Reed Sternberg cells in Hodgkin's disease</p> <p>Intracellular localization of beta-catenin</p> <p>Ovarian epithelial malignancies</p> <p>Ductal epithelium of the breast, kidney, salivary glands and sweat glands</p> <p>Parafollicular cells of the thyroid</p> <p>Smooth Muscle cells</p> <p>Classification of mesothelial cells and malignant mesothelioma of the epithelial type</p> <p>Epithelial Cells</p> <p>T cells</p> <p>Langerhans cells</p> <p>T cells</p> <p>T-Cells</p> <p>T Cells</p>	<p>Immunohistochemistry Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant: IHC-02: Use of the PT module IHC-13 Use of the Dako Autostainer Link48</p> <p>BCL-2</p> <p>BCL-6</p> <p>BETA-CATENIN</p> <p>CA125</p> <p>CA199</p> <p>CALCITONIN</p> <p>CALPONIN</p> <p>CALRETININ</p> <p>CAM5.2</p> <p>CD3</p> <p>CD1a</p> <p>CD4</p> <p>CD5</p> <p>CD8</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunohistochemistry examination activities for detection of:</u> (cont'd)</p> <p>All germinal centre cells – tonsil Renal cell carcinoma</p> <p>Granulocytes and Reed-Sternberg Cells</p> <p>B cells</p> <p>Follicular dendritic cells</p> <p>Reed Sternberg cells in Hodgkin's lymphoma, anaplastic large cell lymphoma and plasma cells</p> <p>Endothelial cells. Benign and malignant vascular disorders</p> <p>Leucocyte differentiation</p> <p>T and B cell lymphomas</p> <p>All Leucocytes</p> <p>Neural / neuroendocrine tissue and natural killer cells</p> <p>Mononuclear cells, natural killer and neuroectodermal cells</p> <p>Macrophages</p> <p>B cells all stages</p> <p>T- Lymphocytes, granulosa cells ovary, pancreatic islet cells, CNS ependymal cells and Sertoli's, Ewing's sarcoma</p>	<p>Immunohistochemistry</p> <p>Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant:</p> <p>IHC-02: Use of the PT module</p> <p>IHC-13 Use of the Dako Autostainer Link48</p> <p>CD10</p> <p>CD15</p> <p>CD20</p> <p>CD21</p> <p>CD30</p> <p>CD31</p> <p>CD34</p> <p>CD43</p> <p>CD45</p> <p>CD56</p> <p>CD57</p> <p>CD68</p> <p>CD79a</p> <p>CD99</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunohistochemistry examination activities for detection of:</u> (cont'd)</p> <p>KIT protein in gastro-intestinal stromal tumours</p> <p>Plasma cells</p> <p>Macrophages</p> <p>Intestinal epithelial cells</p> <p>Neuroendocrine cells</p> <p>Carcino embryonic antigen</p> <p>Mantle cell lymphomas and breast</p> <p>Epithelium</p> <p>Epithelium</p> <p>Epithelium</p> <p>Epithelium</p> <p>Epithelium</p> <p>Cytomegalovirus infected cells</p> <p>Desmin in striated and smooth muscle</p> <p>Gastro intestinal stromal tumours</p> <p>Ebstein Barr virus</p> <p>Epithelial cells</p> <p>Normal and neoplastic epithelia</p> <p>Oestrogen receptors</p>	<p>Immunohistochemistry</p> <p>Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant:</p> <p>IHC-02: Use of the PT module</p> <p>IHC-13 Use of the Dako Autostainer Link48</p> <p>CD117</p> <p>CD138</p> <p>CD163</p> <p>CDX2</p> <p>CHROMOGRANIN A</p> <p>CEAM</p> <p>CYCLIN D1</p> <p>CK5/6</p> <p>CK7</p> <p>CK14</p> <p>CK19</p> <p>CK20</p> <p>CMV</p> <p>DESMIN</p> <p>DOG-1</p> <p>EBV</p> <p>E-CADHERIN</p> <p>EMA</p> <p>ER</p>





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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunohistochemistry examination activities for detection of:</u> (cont'd)</p> <p>Skin dendritic cells</p> <p>Breast Carcinoma</p> <p>Membranous Protein</p> <p>Human Chorionic Gonadotrophin</p> <p>Helicobacter pylori</p> <p>Hepatocytes</p> <p>Melanocyte differentiation</p> <p>Herpes simplex virus 1</p> <p>Herpes simplex virus 2</p> <p>G1,S,G2 and mitotic phase cells</p> <p>Mesothelial cells</p> <p>Melanocytes</p> <p>MutL protein homolog 1</p> <p>MutL protein homolog 2</p> <p>MutL protein homolog 6</p> <p>Epithelial Cells</p> <p>Central and peripheral neuroendocrine cells</p> <p>Seminoma / germ cell tumour</p> <p>P16 protein overexpression</p>	<p>Immunohistochemistry</p> <p>Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant:</p> <p>IHC-02: Use of the PT module</p> <p>IHC-13 Use of the Dako Autostainer Link48</p> <p>FACTOR 13</p> <p>GCDFP-15</p> <p>GLUT-1</p> <p>HCG</p> <p>H.PYLORI</p> <p>HEPATOCYTE</p> <p>HMB45</p> <p>HSV1</p> <p>HSV2</p> <p>KI-67</p> <p>MESOTHELIN</p> <p>MELAN A</p> <p>MLH-1</p> <p>MSH-2</p> <p>MSH-6</p> <p>MNF116</p> <p>NSE</p> <p>OCT3/4</p> <p>P16</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens</p> <p>Non-gynae cytology cell blocks (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p><u>Immunohistochemistry examination activities for detection of:</u> (cont'd)</p> <p>Alpha-methylacyl-CoA racemase (AMACR)</p> <p>P53 protein</p> <p>P63 protein</p> <p>Prostatic Acid Phosphatase</p> <p>Neurons and neuroendocrine cells</p> <p>Placental trophoblasts</p> <p>Postmeiotic segregation increased 2</p> <p>Progesterone Receptor</p> <p>Prostate Specific Antigen</p> <p>Schwann cells, adipocytes, cartilage</p> <p>Smooth Muscle cells</p> <p>Smooth Muscle cells</p> <p>Smooth Muscle cells</p> <p>Islets of Langerhans cells</p> <p>Mesothelial Cells</p> <p>Thyroid cells</p> <p>Thyroid transcription factor</p> <p>Mesenchyme cells</p>	<p>Immunohistochemistry</p> <p>Microscopic examination supported by in-house documented procedures based on DAKO machines as relevant:</p> <p>IHC-02: Use of the PT module</p> <p>IHC-13 Use of the Dako Autostainer Link48</p> <p>P504S</p> <p>P53</p> <p>P63</p> <p>PAPH</p> <p>PGP9.5</p> <p>PLAP</p> <p>PMS2</p> <p>PR</p> <p>PSA</p> <p>S100</p> <p>SMOOTHLIN</p> <p>SMA</p> <p>SMM</p> <p>SYNAPTOHYSIN</p> <p>THROMBOMODULIN</p> <p>THYROGLOBULIN</p> <p>TTF-1</p> <p>VIMENTIN</p>



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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 Cytopsin 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  Slides prepared in house from samples listed above	<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  Morphological assessment and interpretation/diagnosis	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  HOSOP05 Consultation Reports Winscribe Digital Dictation, A Range of Microscopes from Nikon, Olympus, Leica, Zeiss
END		