


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8057</p> <p>Accredited to ISO 15189:2012</p>	<p>Northumbria Healthcare NHS Foundation Trust</p> <p>Issue No: 004 Issue date: 23 March 2022</p>	
	<p>North Tyneside General Hospital Rake Lane North Shields Tyne & Wear NE29 8NH</p>	<p>Contact: Jonathan Boxshall E-Mail: Jonathan.Boxshall@ncht.nhs.uk Website: http://www.northumbria-healthcare.nhs.uk</p>

Laboratory locations:

Location details	Activity
<p>Pathology Department North Tyneside General Hospital Rake Lane North Shields NE29 8NH</p> <p>Local contact: Mr Ian Taylor Mrs Carmen Ward Mr Philip Gibson</p>	<p>Routine Histopathology Special Stains Immunocytochemistry Cytology -Diagnostic Mortuary Services and Body Store</p>

Site activities performed away from the locations listed above:

Location details	Activity
<p>Body Store Hexham General Hospital Corbridge Road Hexham Northumberland NE45 1QJ</p> <p>Mr A McCrostie</p>	Storage of bodies
<p>Body Store Northumbria Specialist Emergency Care Hospital Northumbria Way Cramlington Northumberland NE23 6NZ</p> <p>Mr A McCrosite</p>	Storage of bodies
<p>Body Store Wansbeck General Hospital Woodhorn Lane Ashington Northumberland NE63 9JJ</p> <p>Mr A McCrostie</p>	Storage of bodies



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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 FLUIDS AND TISSUES</p> <p>Tissue samples</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p> <p><u>Histopathology</u></p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant</p> <p>Specimen Dissection</p> <p>Manual method using documented procedures in the range LP-HIS-SUH-N-072 to 096</p> <p>Tissue processing</p> <p>Documented procedure & manufacturer's instructions using Leica ASP, Leica Peloris (LP-HIS-SUH-N-098 & 117)</p> <p>Tissue embedding</p> <p>Manual method using documented procedure LP-HIS-SUH-N-018</p> <p>Tissue sectioning</p> <p>Manual method using documented procedure LP-HIS-SUH-N-019 & LI-HIS-MGT-N-004</p> <p>Decalcification using documented procedure LP-HIS-SUH-N-031</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Tissue samples (cont'd)	<u>Histopathology (cont'd)</u>	
Fixed Tissue Samples	Routine staining for identification of basophilic and eosinophilic structures	Manual rapid Haematoxylin & Eosin using (LP-HIS-SUH-N-101)
Fixed Tissue samples		Leica Autostainer XL LP-HIS-SUH-N-022
	Special staining to identify the following	In House documented procedure of manual methods and Microscopy and automated staining using Leica Autostainer XL LP-HIS-SUH-N-022
	Elastic Fibres & Collagen	Elastic Haematoxylin and Eosin LP-HIS-SUH-N-103
	Blood cells	May Grunwald Giemsa LP-HIS-SUH-N-052
	Reticulin	Gordon and Sweets Reticulin LP-HIS-SUH-N-048
	Gram positive and Gram negative bacteria	Gram LP-HIS-SUH-N-045
	Fungi	Grocott - Gomori Methenamine Silver LP-HIS-SUH-N-047
	Glycoaminoglycans, Acid & neutral mucins	Alcian Blue PAS & Diastase AB PAS LP-HIS-SUH-N-040
	Melanin	Masson Fontana LP-HIS-SUH-N-050
	Collagen	Masson Trichrome LP-HIS-SUH-N-051
	Helicobacter pylori	Modified Giemsa LP-HIS-SUH-N-049



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed tissue samples (cont'd)</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p><u>Histopathology (cont'd)</u></p> <p>Special staining to identify the following (cont'd)</p> <p>Fibrin</p> <p>Fungi Glycogen Mucins</p> <p>Iron</p> <p>Hepatitis B surface antigen, copper associated protein</p> <p>Amyloid</p> <p>Mast cells</p> <p>Collagen & Muscle</p> <p>Calcium</p> <p>Acid fast tubercle bacteria</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')</p> <p>Martius, Scarlet & Blue stain (MSB) LP-HIS-SUH-N-053</p> <p>PAS & Diastase PAS LP-HIS-SUH-N-040</p> <p>Perls Prussian Blue LP-HIS-SUH-N-057</p> <p>Orcein LP-HIS-SUH-N-055</p> <p>Sirius Red LP-HIS-SUH-N-059</p> <p>Toluidine Blue LP-HIS-SUH-N-061</p> <p>Van Gieson LP-HIS-SUH-N-062</p> <p>Von Kossa LP-HIS-SUH-N-113</p> <p>Ziehl Neilson LP-HIS-SUH-N-063</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Fixed tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Immunocytochemistry for the identification of: Embryonic cells in normal tissues and germ tumours B cells, follicular lymphomas B cells, lymphomas Epithelial cell types Tumour cells in gastrointestinal carcinomas Ovarian epithelial malignancies, seminal vesicalcarcimoma, anaplastic lymphoma Marker for mesotheliomas Mature T cells, T cell lymphomas Mature B cells, follicular dentritic cells, CALLA Granulocytes, Reed-Sternberg cells T cells	In house documented procedures & manufacturer's instructions using Leica Bond System LP-HIS-ICC-N-001 - 021 Using antibodies to and microscopy;- a-1-Fetoprotein Bcl-2 Bcl-6 Ber EP4 CA 19-9 CA125 Calretinin CD5 CD10 CD15 CD3



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Fixed tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Leica Bond System LP-HIS-ICC-N-001 - 021 Using antibodies to and microscopy:- (cont'd)
	B cells	CD20
	Reed-Sternberg cells, plasma cells	CD30
	Endothelial cells	CD31
	Endothelial cells	CD34
	T cells. Natural killer cells, thymocytes	CD68 (Routine PG M1)
	T cells	CD79a
	Gastrointestinal stromal tumours	CD117
	Primary & metastatic tumours of gastrointestinal tract, carcinoids	CDX2
	CEA glycoproteins	CEA
	Tissues of neuroendocrine origin	Chromagranin A
	Basal cells, filamentous keratins form glandular to stratified squamous, prostate adenocarcinoma	CK, HMW (34bE12)
	Pan cytokeratin (broad range)	MNF116



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Fixed tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Immunocytochemistry for the identification of: (cont'd)	In house documented procedures & manufacturer's instructions using Leica Bond System LP-HIS-ICC-N-001 - 021 Using antibodies to and microscopy:- (cont'd)
	Epithelial tumours	Cytokeratin 8/18
	Epithelial cells	Cytokeratin 14
	Epithelial cells including ductal and glandular epithelia	Cytokeratin 19
	Adenocarcinomas, columnar epithelial cells	Cytokeratin 20
	Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5
	Normal and neoplastic epithelia	Cytokeratin 7
	Striated and smooth muscle cells	Desmin
	Gastrointestinal stromal tumours	DOG1
	Estrogen Receptor	ER
	Breast carcinoma's	GCDFFP-15
	Placental trophoblasts	HCG
	Her2 protein, breast cancer	HER2
	Mesothelial cells	HBME1
	Melanoma, melanocyte differentiation	HMB45



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Fixed tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Immunocytochemistry for the identification of: (cont'd)	D2-40 In house documented procedures & manufacturer's instructions using Leica Bond System LP-HIS-ICC-N-001 - 021 Using antibodies to and microscopy:- (cont'd)
	Hepatic tissue, hepatocellular carcinoma	HSA
	Cell proliferation marker	Ki67
	Melanoma marker	Melan A
	Smooth muscle cells	Myosin Heavy Chain
	Lung adenocarcinoma	Napsin
	Peripheral nerves, neuroendocrine tumours	NSE
	Prostate adenocarcinoma	P504/AMACR
	Breast, colon, lung and urothelial carcinomas	P53 (DO-7)
	Germ cell tumours, seminomas	PLAP
	Nuclei of cells showing expression of Progesterone	PR (PgR636)
	Prostate carcinoma	Prostatic acid phosphatase
	Prostate adenocarcinoma	Prostate specific antigen
	Renal cell carcinoma marker	RCC



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')
Fixed tissue samples (cont'd)	<u>Histopathology (cont'd)</u> Immunocytochemistry for the identification of: (cont'd) High Grade PIN Schwann cells, nerve processes, S100 +ve neoplasms Neuroendocrine cells TTF-1 found in lung and thyroid (thyroid follicular cells) Cells of mesenchymal origin Epithelial cells and smooth muscle in fallopian tube Cells of mesenchymal origin, mesotheliomas	In house documented procedures & manufacturer's instructions using Leica Bond System LP-HIS-ICC-N-001 - 021 Using antibodies to and microscopy:- (cont'd) S-100 Synaptophysin TTF-1 (8G7G31) Vimentin WT1



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Wet Fixed Preparations – Body fluids, urine, CSFs, aspirates, washings, brushings</p> <p>Air Dried Preparations Body fluids, CSFs</p> <p>FNA Wet Fixed Preparations Breast, Thyroid, Lymph nodes</p> <p>FNA Air Dried Preparations - Breast, Thyroid, Lymph nodes</p> <p>Blocks prepared from centrifuge deposits of cellular material from fluids.</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></p> <p><u>Cytopathology</u></p> <p>Processing and Staining of Diagnostic Specimens for detection of abnormal cells</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant (cont'd')</p> <p>Manual Methods using documented procedures in the range:</p> <p>SOP (LP-HIS-CYT-N-001 to 019)</p> <p>Documented procedure & manufacturer's instructions using the following equipment and staining using Papanicolou and Diff Quick</p> <p>Hologic T2000 Processor– (LP-HIS-CYT-N-006)</p> <p>Sigma centrifuge – (LP-HIS-CYT-N-019)</p> <p>Leica Autostainer XL staining machine – (LP-HIS-SUH-N-022)</p> <p>Leica CV 5030 coverslipper – (LP-HIS-SUH-N-107)</p> <p>Shandon Cytospin – (LP-HIS-CYT-N-015)</p> <p>Manual rapid Haematoxylin & Eosin using (LP-HIS-SUH-N-003 & 096)</p> <p>Leica Autostainer XL LP-HIS-SUH-N-022</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Slides prepared in house as above	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u> <u>Histopathology and Cytopathology</u> Morphological assessment and interpretation/diagnosis	Documented in house methods incorporating manufacturers' instructions where relevant (cont'd') Microscopy With reference to: LP-HIS-SUH-N-027 LP-HIS-ICC-N-006 LP-HIS-CYT-N-017
END		