


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8720</p> <p>Accredited to ISO 15189:2012</p>	University Hospitals Coventry and Warwickshire NHS Trust	
	Issue No: 007	Issue date: 26 August 2020
Clifford Bridge Road Coventry West Midlands CV2 2DX	Contact: Dr Catherine Wight Tel: +44 (0)2476 968649 Fax: +44 (0)2476 965441 E-Mail: catherine.wight@uhcw.nhs.uk Website: www.uhcw.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
<p>Address: Department of Cellular Pathology Coventry and Warwick Pathology Service University Hospitals Coventry & Warwickshire NHS Trust Clifford Bridge Road Coventry West Midlands CV2 2DX</p> <p>Local contact: Clare Wood</p>	<p>Histology sample preparation and reporting</p> <p>Non-Gynae cytology sample preparation and reporting</p>	UHCW
<p>Address: Department of Cellular Pathology Coventry and Warwick Pathology Service South Warwickshire NHS Foundation Trust Lakin Road Warwick CV34 5BW</p> <p>Local contacts: Clare Wood</p>	<p>Histology sample preparation and reporting</p> <p>Non-Gynae Cytology reporting</p>	SWFT



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
On-site Mortuary and Body Store University Hospitals Coventry & Warwickshire NHS Trust Clifford Bridge Road Coventry West Midlands CV2 2DX	Storage of bodies Record keeping (body identification and audit trail)	C
On-site Mortuary and Body Store South Warwickshire NHS Foundation Trust Lakin Road Warwick CV34 5BW	Storage of bodies Record keeping (body identification and audit trail)	D
Body Store Hospital of St Cross Barby Road Rugby Warwickshire CV22 5PX	Storage of bodies	E
FNA Clinic Radiology (Ultrasound) Department South Warwickshire NHS Foundation Trust Lakin Road Warwick CV34 5BW	Non-Gynae cytology sample preparation	F



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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
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Formalin-fixed tissue samples</p> <p>Formalin-fixed tissue samples including thrombin clots prepared by systemic cytology service</p>	<p><u>Histopathological examination of tissues for the purpose of diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Specimen Dissection Key SOPs</p> <ul style="list-style-type: none"> • HI LPR 73 Routine Specimen Cut-Up • HI LPR 89 Breast specimens X-Ray procedure • HI LPR 64 Post Mortem Cut-Up • HI LPR 359 Network BMA transfers • HI LPR 361 Network BMS cut up • HI LPR 362 Network Advanced dissection <p>Tissue Processing</p> <p>Leica Peloris 240V</p> <p>Thermo Excelsior Processors Leica ASP 6025 and 3005</p> <p>Key SOPs</p> <ul style="list-style-type: none"> • HI-LPR390 Routine Tissue Processing • HI-LPR19 Network Tissue Processing 	<p>UHCW</p> <p>UHCW SWFT</p> <p>UHCW</p> <p>UHCW, SWFT</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin-fixed tissue samples including thrombin clots prepared by systemic cytology service</p> <p>Fresh/frozen tissue</p>	<p><u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u></p> <p>Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Embedding using:</p> <p>Sakura Tissue Tek TEC6 embedding centres</p> <p>Key SOPs</p> <ul style="list-style-type: none"> • HI LPR 105 Specimen Embedding <p>Leica embedding centres 1150c and arcadia Sakura Tissue Tek</p> <ul style="list-style-type: none"> • HI LPR 20 SWFT Embedding <p>Frozen sections using:</p> <p>Leica Cryostat CM1950</p> <p>Key SOPs</p> <ul style="list-style-type: none"> • HI LPR17 Network Production of Frozen Sections • <p>Leica cryostat CM1850</p> <p>Key SOP</p> <ul style="list-style-type: none"> • HI LPR17 Network Production of Frozen Sections 	<p>UHCW</p> <p>SWFT</p> <p>UHCW</p> <p>SWFT</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed paraffin wax blocks of processed tissue, including thrombin clots prepared by systemic cytology service</p>	<p><u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Microtomy using:</p> <p>Leica RM2235 Rotary microtomes and Leica Histocore Biocut</p> <p>Leica RM2245 microtomes</p> <p>Key SOP</p> <ul style="list-style-type: none"> HI LPR57 Network Microtomes and Cutting Sections 	<p>UHCW</p> <p>SWFT</p>
<p>FFPE slides (Formalin fixed paraffin embedded) and frozen sections</p>	<p>Routine morphological staining for the detection of basophilic and eosinophilic structures</p>	<p>H&E staining and coverslipping using:</p> <p>Sakura Tissue Tek Prisma automated stainer / coverslipper</p> <p>Key SOPs</p> <ul style="list-style-type: none"> HI LPR72 Routine H+E Staining and Coverslipping <p>Manual H&E staining</p> <p>Automated Leica XL stainer Leica CV 5030 coverslipper</p> <p>Key SOPs</p> <ul style="list-style-type: none"> HI WI36 H&E automated HI LPR23 Staining Sections Procedure 	<p>UHCW</p> <p>SWFT</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
FFPE slides (Formalin fixed paraffin embedded)	Special stains for the detection of:	Documented in-house procedures for manual special stains HI LPR 344 Network Special stains manual	
	Amyloid	Congo Red (Stokes')	UHCW
	Elastin	EVG-Elastin Stain (Miller's) including the combined AB-EVG	UHCW, SWFT
	Fibrosis, differentiation of muscle and collagen	Masson's Trichrome	UHCW
	Fibrin deposition, fibrinosis, fibrosis of liver	MSB-Martius Scarlet Blue	UHCW, SWFT
	Reticulin	Reticulin (Gordon & Sweet's)	UHCW, SWFT
	Fibrosis in alcoholic cirrhosis	Haematoxylin Van Gieson	UHCW
	Acid mucins and neutral mucins	Alcian Blue	UHCW, SWFT
	Sulphated mucins	Alcian Blue	UHCW, SWFT
	Mucin	Mucicarmine (Southgate's)	UHCW
	Glycogen, basement membranes, and other PAS-positive structures	PAS including PASD, PAS DAB	UHCW, SWFT
	Lymphoid cells helicobacter-like organisms	Giemsa	UHCW, SWFT
	Mast cells	Toluidine Blue	UHCW



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
FFPE slides (cont'd)	Special stains for the detection of: (cont'd)	Documented in-house procedures for manual special stains	
	Bile pigment	Fouchet's reaction	UHCW
	Atrophy pigment	Long ZN	UHCW
	Melanin	Masson Fontana	UHCW, SWFT
	Haemosiderin and asbestos bodies	Perls' Prussian Blue	UHCW, SWFT
	Calcium	Von Kossa	UHCW,
	Gram positive and negative bacteria	Gram's stain	UHCW, SWFT
	Fungi including pneumocystis	Grocott Hexamine Silver	UHCW, SWFT
	Hep B surface antigen Copper-associated protein	Orcein	UHCW
	Spirochetes	Warthin Starry	UHCW
	Acid-Alcohol fast bacilli	Ziehl-Neelsen	UHCW, SWFT



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
FFPE slides (Formalin fixed paraffin embedded)	Immunohistochemistry to detect the following:	Automated Immunohistochemical staining using Ventana Benchmark <ul style="list-style-type: none"> HI LPR 178 Network Ventana Benchmark Immunostainer Automated Immunohistochemical staining using Leica Bond Max and Bond III <ul style="list-style-type: none"> HI LPR 259 Network Bond automated immunohistochemistry 	UHCW/ SWFT Ventana 1: UHCW 2: SWFT Bond III 3: SWFT
	Identification of basal cells and squamous epithelium	34BE12	UHCW (1)
	Epidermal differentiation	AE1/3	UHCW (1),
	Embryonic cell in normal tissues and germ tumours	AFP	UHCW (1), SWFT (3)
	Lymphoma / Carcinoma	BCL2	UHCW (1)
	B-Cells	BOB1	UHCW (1)
	Complement (Renal disease)	C4D	UHCW (1)
	Pancreatic tumour	CA19.9	UHCW (1)
	Histiocytes/Langerhan cell	CD1A	UHCW (1)
	T antigen on Lymphocytes	CD3	UHCW (1)
	Pan T-cell marker	CD5	UHCW (1)
	T-cell subset	CD8	UHCW (1)
	Renal carcinoma/Lymphoma	CD10	UHCW (1), SWFT (3)
	Antigen of B lymphocytes	CD20	UHCW (1)



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Ventana Benchmark/ Leica Bond Max and Bond III	
	Follicular Dendritic cells	CD21	UHCW (1)
	Endothelial marker	CD31	UHCW (1)
	Stem cell/endothelium Sarcoma	CD34	UHCW (1)
	Neuropath,glial cells/Ureter	CD44	UHCW (1)
	Nerve and neuroendocrine cells	CD56	UHCW (1)
	Useful for identification of B-cell lymphomas	CD79A	UHCW (1)
	Lymphoma/Plasmacytoma	CD138	UHCW (1)
	Antigen in intestinal epithelium	CDX2	UHCW (1), SWFT (3)
	Neuroendocrine	CHROMOGRANIN	UHCW (1)
	GIST	DOG1	UHCW (1) SWFT (2)
	Ck for Carcinoma	CK14	UHCW (1)
	CK for Carcinoma	CK19	UHCW (1)
	CK in gastro-intestinal cells	CK20	UHCW (1), SWFT (3)
	CK in epithelium	CK5/6	UHCW (1)
	Cytokeratin in epithelium	CK7	UHCW (1), SWFT (3)



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Ventana Benchmark/ Leica Bond Max and Bond III	
	Used to aid classification of lymphomas	CYC	UHCW (1)
	Distinguish Lobular from Ductal carcinoma	ECAD	UHCW (1), SWFT (3)
	Protein in epithelial cells	EMA	UHCW (1)
	Oestrogen receptors, breast carcinoma	ER SP1 Clone	UHCW (1), SWFT (2)
	Glycoprotein in epithelium	GCDFP-15	UHCW (1)
	Mesothelial marker	HBME1	UHCW (1)
	For identification of Kaposi's sarcoma	HHV8	UHCW (1)
	Nuclear protein in proliferating cells	KI67	UHCW, (1) SWFT (3)
	Melanocytes (Melanoma)	MELAN	UHCW (1), SWFT (3)
	Pan-Cytokeratin	MCK	SWFT (2)
	Colorectal Cancer/Lynch Syndrome	MMR	SWFT (2)
	Ovarian cancer/HPV	P16 (p16)	UHCW (1), SWFT (2)
	Prostrate adenocarcinoma	P504S	UHCW (1)
	Cell proliferation marker	P53	UHCW (1)



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Ventana Benchmark/ Leica Bond Max and Bond III	
	Tumour suppressor gene	P63	UHCW (1), SWFT (3)
	PAX 8 +/-ve tumour differentiation	PAX8	UHCW (1)
	Enzyme produced by trophoblasts	PLAP	UHCW (1)
	Progesterone receptor expression in tumours	PR	UHCW (1), SWFT (2)
	Marker for prostatic carcinoma	PSA	UHCW (1)
	Renal carcinoma marker	RCC	UHCW (1)
	SV40 Virus	SV40	UHCW (1)
	Schwann cells, nerve processes, S100 positive neoplasm	S100	UHCW (1)
	Demonstration of synaptophysin producing cells	SYN	UHCW (1)
	Thyroid	THYR	UHCW (1)
	Nuclear protein in lung and thyroid	TTF1	UHCW, SWFT (3)
	Filaments in mesenchymal cells	VIM	UHCW, SWFT (3)
	Tumour marker Wilms	WT1	UHCW, SWFT (3)



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FFPE slides (Formalin fixed paraffin embedded)	Immunohistochemistry to detect the following:	Automated Immunohistochemical staining using Leica Bond Max <ul style="list-style-type: none"> • HI LPR 177 Renal Biopsy Immunocytochemistry • HI LPR 259 Network Bond automated immunohistochemistry Automated Immunohistochemical staining using Leica Bond Max and Bond III <ul style="list-style-type: none"> • HI LPR 259 Network Bond automated immunohistochemistry 	UHCW SWFT
	For the identification of anaplastic large cell Lymphomas	ALK	UHCW, SWFT
	Lymphoma/Carcinoma	BCL2	SWFT
	Lymphomas	BCL6	UHCW, SWFT
	Epithelial cells	BEREP4	UHCW, SWFT
	Complement (Renal disease)	C1Q	UHCW
	Complement (Renal disease)	C3C	UHCW
	Ovarian tumour	CA125	UHCW, SWFT



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
		Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	Pancreatic tumour	CA19.9	SWFT
	Gastrointestinal and pulmonary disease	CALC	UHCW
	Neuroanatomical marker	CALR	UHCW, SWFT
	Epithelial cell marker	CAM52	UHCW, SWFT
	GIST,RCC,Germ cell tumor	CD117	UHCW, SWFT
	Lymphoma/Plasmacytoma	CD138	SWFT
	Reed-Sterberg and other cell types	CD15	UHCW, SWFT
	Histiocytes/Langerhan cell	CD1A	SWFT
Pan t-lymphocytes	CD2	UHCW	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
		Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	Antigen of B lymphocytes	CD20	SWFT
	Follicular Dendritic cells	CD21	SWFT
	Aid in the classification of Lymphoma	CD23	UHCW, SWFT
	T antigen on Lymphocytes	CD3	SWFT
	Reed-Sterberg cells	CD30	UHCW, SWFT
	Endothelial marker	CD31	SWFT
	Stem cell/endothelium Sarcoma	CD34	SWFT
	T-cell subset	CD4	UHCW
	Human platelet plasma membrane	CD42B	UHCW
Pan T-cell marker	CD43	UHCW, SWFT	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
		Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	Pan Leukocyte marker (T&B)	CD45	UHCW, SWFT
	Pan T-cell marker	CD5	SWFT
	Nerve and neuroendocrine cells	CD56	SWFT
	Macrophages and mononuclear cells	CD68	UHCW, SWFT
	T-cell marker	CD7	UHCW
	Useful for identification of B-cell lymphomas	CD79A	SWFT
	T-cell subset	CD8	SWFT
	GI carcinoma	CEA	UHCW, SWFT
	Neuroendocrine	CHROM	SWFT
	Distinguish usual ductal hyperplasia from atypical ductal hyperplasia	CK5	UHCW, SWFT
	Cytomegalovirus	CMV	UHCW
	Smooth and striated muscle cells	DES	UHCW



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
		Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	Epstein-Barr Virus-ISH	EBER	UHCW
	Protein in epithelial cells	EMA	SWFT
	Lymphoma (Hodgkins)	FASC	UHCW
	Glycoprotein in epithelium	GCDFP	SWFT
	Melanocytes (Melanoma)	HMB45	UHCW
	Immunoglobulin A	IGA	UHCW
	Immunoglobulin G	IGG	UHCW
	Immunoglobulin M	IGM	UHCW
	Carcinoma vs Germ cell tumor	INHIB	UHCW
	Kappa light chains	KAP	UHCW, SWFT
	Lambda light chains-used to identify tumor monoclonality	LAM	UHCW, SWFT
	Pan Leukocyte marker (T&B)	LCAPA	UHCW
Cytokeratin expressed in epithelial cells	MNF	UHCW	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
		Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	GI Carcinoma	MOC	UHCW
	Leukaemia	MPO	UHCW
	B cell marker used to aid classification of lymphomas	MUM1	UHCW, SWFT
	B-Cell marker	OCT2	UHCW
	Germ cell tumours	OCT34	UHCW
	Cell proliferation marker	P53	SWFT
	Cytokeratin expressed in epithelial cells	PANC	UHCW, SWFT
	Lymphoma	PAX5	UHCW
	Enzyme produced by trophoblasts	PLAP	SWFT
	Used to aid classification metastatic PR carcinoma	PSAP	UHCW, SWFT
	RBC	RET40	UHCW
	Schwann cells, nerve processes, S100 positive neoplasm	S100	SWFT
Smooth muscle actin	SMA	UHCW, SWFT	



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FFPE slides (Formalin fixed paraffin embedded) (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Automated Immunohistochemical staining using Leica Bond Max	UHCW
	Smooth muscle Myosin/Useful in breast diagnosis	Automated Immunohistochemical staining using Leica Bond Max and Bond III	SWFT
	Immature T cells	SMMHC	UHCW
		TDT	UHCW
Slides prepared as above	Morphological assessment and interpretation/diagnosis	Interpretive microscopy: Microscopes: Leica DM2000 and DM2500	UHCW
		Key SOPs <ul style="list-style-type: none"> HI LPR 68 Quality Control of Work HI LPR 360 Proforma and Non-Proforma based reporting procedure for Cellular Pathology 	
		Microscopes: <ul style="list-style-type: none"> Leica Laborlux K Nikon E801 Nikon E600 Olympus BX45 Olympus BX51 Nikon E400 Olympus BX50 	SWFT
		Key SOPs <ul style="list-style-type: none"> HI LPR 68 Quality Control of Work Procedure 	



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issued by

United Kingdom Accreditation Service

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

University Hospitals Coventry and Warwickshire NHS Trust

Issue No: 007

Issue date: 26 August 2020

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
Digital slides images	Morphological assessment and interpretation/diagnosis	Using Omnyx system HI LPR352 UHCW reporting histopathology specimens via Omnyx	UHCW
Lymph node tissue samples	One-Step Nucleic acid Amplification for the detection of Cytokeratin 19 (CK19) mRNA expression.	Polytron homogenizer Eppendorf minispin centrifuge Sysmex RD210i Analyser HI LPR315 Procedure for OSNA	SWFT
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Cytopathological examination of fluids for the purpose of diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
Systemic body fluid samples including fine needle aspirations.	Examination of fluids in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Samples centrifuged and processed using Hologic ThinPrep technique – T5000 Leica Staining machine (Papanicalou stain technique) Leica coverslipper – 22 x 50mm glass coverslips. Key SOPs <ul style="list-style-type: none"> • CY LPR24 Brain Cyst Fluids for Dr Carey • CY LPR25 CSF Cytospins for Haematology • CY LPR26 Cytology Preparation of Thrombin Clots • CY LPR30 Non-Gynae Preparation using T5000 • CY LPR34 Wet Fixed Direct Smear 	UHCW



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Cytopathological examination of fluids for the purpose of diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	F
Fine needle aspirate samples	Examination of samples in order to assess adequacy for diagnosis	Manual slide preparation and staining using Diffquik	
Slides prepared as above	Morphological assessment and interpretation/diagnosis	Key SOPs <ul style="list-style-type: none"> SWFT Histo Head and Neck Clinic and preparation of FNA medium- HI LPR172 Interpretive microscopy using microscopes as above	UHCW, SWFT
END			