Schedule of Accreditation

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Wirral University Teaching Hospital NHS Foundation Trust

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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)

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks	Histopathological examination activities for the purposes of clinical diagnosis	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant): Supported by: 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 Cryotomy: Leica CM 1510S HPSR30: Use and Maintenance of the Cryostat HPSR31: Use of Liquid Nitrogen HPSR15 Frozen Section Procedure Tissue Processing: Epredia 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. Embedding: HPSOP18 Embedding Procedure, HPSOP19 Operation and maintenance of Embedding Centres Thermoscientific Histostar

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks		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 Leica Histocore Multicut Microtome Thermofisher Microtome Finesse E Microtome Thermofisher Microtome Finesse Thermofisher Microm HM340 E Leica RM 2235 Microtome Epredia SlideMate Pro
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks	Identification of nuclei, cell cytoplasm and connective tissues in cells and tissues for the purposes of clinical diagnosis using Haematoxylin & Eosin.	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
Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks	Special staining of histopathology examinations to assist in detection of clinical abnormalities:	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant
	Acid and Neutral Mucopolysaccharides	HTOSP001 Alcian Blue
	Acid Mucopolysaccharides	HTSOP002 Alcian Blue+/-Diastase

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	Special staining of histopathology examinations to assist in detection of clinical abnormalities: (cont'd)	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant:
	Helicobacter/Microorganisms	HTSOP015 Giemsa
	Reticulin fibres	HTSOP017 Reticulin
	Fungi	HPSOP034 Periodic Acid Schiff+/-Diastase HTSOP019 Grocotts Methanamine Silver
	Basement Membranes	HTSOP020 Modified Grocotts Methanamine Silver
	Fibrin and connective tissues	HTSOP024 Martius Scarlet Blue
	Melanin	HTSOP025 Masson Fontana
	Connective tissues	HTSOP026 Masson Trichrome
	Elastic Fibres and connective tissue	HTSOP029 Millers Elastin Stain
	Hepatitis B surface antigen	HTSOP033 Orcein Shikata
	Neutral mucopolysaccharides and glycogen, basement membranes	HPSOP034 Periodic Acid Schiff+/-Diastase
	Ferric iron	HTSOP035 Perls Reaction
	Connective tissues and Muscle	HTSOP038 Picro Sirius Red
	Removal of Melanin Pigment	HTSOP041 Pigment Removal: Melanin
	Mast cells	HTSOP046 Toludine Blue
	Calcium	HTSOP050 Von Kossa

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	Special staining of histopathology examinations to assist in detection of clinical abnormalities: (cont'd)	Special staining In-house manual documented procedures based on manufacturers' manuals as relevant:
	Acid fast mycobacteria	HTSOP052 Ziehl Neelsen
	Gram +ve & Gram –ve microorganisms	HTSOP054 Gram Staining
	Amyloid	HTSOP055 Alkaline Congo Red
	Bile Pigments	HTSOP13 Fouchet Van Giesen
	Immunohistochemistry examination activities for detection of:	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
	Embryonic cells in normal tissues and germ tumours	ALPHA FETOPROTEIN
	Keratinized and corneal epidermis, stratified squamous epithelia of internal organs, stratified epithelia, hyperproliferative keratinocytes, and simple epithelia	AE 1/3
	Squamous epithelium, follicular epithelia in thyroid, epithelia and mesothelium in small and large bowel	34BE12
	Anaplastic lymphoma kinase receptor tyrosine kinase	ALK-1
	Alpha fetal protein	ALPHA FETAL PROTEIN

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	Epithelial Cells	BEREP4
	Follicular and diffused large cell lymphomas from reactive lymph nodes	BCL-2
	Diffuse large B cell lymphomas and Burkitt's lymphoma and Reed Sternberg cells in Hodgkin's disease	BCL-6
	Intracellular localization of beta-catenin	BETA-CATENIN
	Ovarian epithelial malignancies	CA125
	Ductal epithelium of the breast, kidney, salivary glands and sweat glands	CA199
	Parafollicular cells of the thyroid	CALCITONIN
	Classification of mesothelial cells and malignant mesothelioma of the epithelial type	CALRETININ
	Epithelial Cells	CAM5.2
	T cells	CD3
	Langerhans cells	CD1a
	T cells	CD4
	T-Cells	CD5
	T Cells	CD8
	All germinal centre cells – tonsil Renal cell carcinoma	CD10

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HUMAN BODY TISSUE AND FLUIDS (cont'd) Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Immunohistochemistry examination activities for detection of:</u> (cont'd)	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
	Granulocytes and Reed-Sternberg Cells	CD15
	B cells	CD20
	Follicular dendritic cells	CD21
	Reed Sternberg cells in Hodgkin's lymphoma, anaplastic large cell lymphoma and plasma cells	CD30
	Endothelial cells. Benign and malignant vascular disorders	CD31
	Leucocyte differentiation	CD34
	T and B cell lymphomas	CD43
	All Leucocytes	CD45
	Neural / neuroendocrine tissue and natural killer cells	CD56
	Mononuclear cells, natural killer and neuroectodermal cells	CD57
	Macrophages	CD68
	B cells all stages	CD79a
	T- Lymphocytes, granulosa cells ovary, pancreatic islet cells, CNS ependymal cells and Sertoli's, Ewing's sarcoma	CD99
	KIT protein in gastro-intestinal stromal tumours	CD117

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HUMAN BODY TISSUE AND FLUIDS (cont'd) Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd) Immunohistochemistry examination activities for detection of: (cont'd)	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
	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
	Gastrointestinal stromal tumours	DOG-1
	Ebstein Barr virus	EBV
	Epithelial cells	E-CADHERIN
	Normal and neoplastic epithelia	EMA
	Oestrogen receptors	ER
	Skin dendritic cells	FACTOR 13

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	Breast Carcinoma	GCDFP-15
	Membranous Protein	GLUT-1
	Human Chorionic Gonadotrophin	HCG
	Helicobacter pylori	H.PYLORI
	Hepatocytes	HEPATOCYTE
	Melanocyte differentiation	HMB45
	Herpes simplex virus 1	HSV1
	Herpes simplex virus 2	HSV2
	G1,S,G2 and mitotic phase cells	KI-67
	Mesothelial cells	MESOTHELIN
	Melanocytes	MELAN A
	MutL protein homolog 1	MLH-1
	MutL protein homolog 2	MSH-2
	MutL protein homolog 6	MSH-6
	Epithelial Cells	MNF116
	Central and peripheral neuroendocrine cells	NSE
	Seminoma / germ cell tumour	OCT3/4
	P16 protein overexpression	P16

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HUMAN BODY TISSUE AND FLUIDS (cont'd) Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Immunohistochemistry examination activities for detection of:</u> (cont'd)	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
	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
	Plasma cells	V538C

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HUMAN BODY TISSUE AND FLUIDS (cont'd) Fixed, fresh tissue, excisional and incisional biopsies and surgical resection specimens Non-gynae cytology cell blocks (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Immunohistochemistry examination activities for detection of:</u> (cont'd)	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
	Von Willebrand factor	VWF (FACTOR 8)
	Mesenchymal cells, Wilms tumour, Serous ovarian adenocarcinoma	WT1
	HER2 protein (c-erbB-2 oncoprotein)	HER2
Renal and skin biopsies	Immunofluorescence- Identification of Antigens and antibodies in various auto-immune skin diseases:	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
	C3c fragment, native C3 and C3b	C3c complement/FITC
	alpha chains of human IgA	IgA/FITC
	gamma chains of human IgG	IgG/FITC
	mu chains of human IgM	IgM/FITC
	C1Q Complement	C1Q complement/FITC
	Kappa Light Chain	KAPPA/FITC
	Lambda Light Chains	LAMBDA/FITC
	Fibrogen	FIBROGEN/FITC

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis	Macroscopic and microscopic examination
Fine needle aspirations (various sites) Serous effusions (pleural, ascetic, pericardial) Urine Cyst Fluids Peritoneal Washings Cerebrospinal Fluid EBUS and EUA	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	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
Respiratory washing and brushings Sputum Bile Duct brushings		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 Cytyc T2000 Processor: Operation, maintenance and troubleshooting

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis (cont'd)	Macroscopic and microscopic examination
Respiratory washing and brushings Sputum Bile Duct brushings	Identification of: Cells (nuclei and cytoplasm) and micro-organisms	Papanicolaou NGSOP16 Shandon Gemini AS: Operation, Programming, Cleaning and Renewal of Reagents NGSOP21 Quality Control in Non-Gynaecology
	Diagnostic Cytopathology (Non-Gynaecological) examination activities for the purposes of clinical diagnosis	Macroscopic and microscopic examination
	Cells (nuclei and cytoplasm)	Hema-Gurr NGSOP15 Diff Quik: Staining technique and renewal of reagents
	Preparation of cell blocks for histology processing and staining	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		