Schedule of Accreditation

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8870 **Accredited to ISO 15189:2012**	**Worcestershire Acute Hospitals NHS Trust** **Issue No:** 005 **Issue date**: 03 October 2022
	Worcestershire Royal Hospital **Charles Hastings Way** **Worcester** **WR5 1DD** **Contact: Dhakir Ghaleb** **Tel: 01905 760230** **Fax: 01905 760885** **E-Mail: dhakir.ghaleb@nhs.net** **Website: www.worcsacute.nhs.uk**
Testing performed at the above address only	

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity
Address Cellular Pathology Worcestershire Royal Hospital Charles Hastings Way Worcester WR5 1DD **Local contact** Dhakir Ghaleb Tel: 01905 760230	Histology Cytology

Site activities performed away from the locations listed above:

Location details	Activity
Mortuary Worcester Royal Hospital Charles Hastings Way Worcester, WR5 1DD	Body Store
Mortuary Alexandra Hospital Woodrow Drive Redditch, B98 7UB	Body Store Frozen sections for rapid diagnosis
Dermatology Dept – Redwood Suite Worcester Royal Hospital Charles Hastings Way Worcester, WR5 1DD	MOHs clinic – Specimen collection and processing.
Ultrasound – level 1 Worcester Royal Hospital Charles Hastings Way Worcester, WR5 1DD	FNA assistance – Specimen collection.

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	Macroscopic and Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Specimen Dissection</u> LP-U-HIS-Management of Tissue from early Pregnancy loss LP-U-HIS-Cut up Pathologist dissection LP-U-HIS-Sentinel LN LP-U-HIS-Fat Clearing LP-U-HIS-Dissection – Orientated skin biopsy main method LP-U-HIS-Dissection – Orientated skin biopsy cruciform method LP-U-HIS-Dissection – Orientated skin CAA method LP-U-HIS-Dissection – Non Orientated skin biopsy LP-U-HIS-Dissection of a ganglion or bursa LP-U-HIS-Dissection of an appendix LP-U-HIS-Dissection of a gall bladder LP-U-HIS-Dissection Fallopian tube LP-U-HIS-Dissection POC LP-U-HIS-Dissection – Foreskin LP-U-HIS-Dissection – Lipoma LP-U-HIS-Dissection – of LLETZ or cervical cone biopsy LP-U-HIS-Dissection – Vas Deferens LP-HIS-Dissection of Axillary Lymph Nodes samples LP-HIS-Dissection of Colon LP-HIS-Dissection of Hysterectomy Samples LP-HIS-Dissection of Hysterectomy Cervical malignancy LP-HIS-Dissection of Hysterectomy endometrial malignancy LP-HIS-Dissection of Mastectomy samples LP-HIS-Dissection of Thyroid

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Cryotomy LP-U-HIS-Cryotomy using AFOS Cryostat microscope Tissue Processing LP-U-HIS- VIP Enclosed Tissue Processor LP-U-HIS-LOGOS Hybrid Tissue Processor
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	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 LP-U-HIS-Dako Coverstainer LP-U-HIS-Daily setup of Leica autostainer
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	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	LP-U-HIS-Alcian blue
	Acid Mucopolysaccharides	LP-U-HIS-Alcian blue PAS
	Asbestos fibres from Post Mortem lung samples	LP-U-HIS-Asbestos bodies
	Amyloid	LP-U-HIS-Congo Red
	Elastic Fibres and connective tissue	LP-U-HIS-Elastic Van Gieson
	Helicobacter/Microorganisms	LP-U-HIS-Giemsa
	Gram +ve & Gram –ve microorganisms	LP-U-HIS-Gram stain
	Fungi	LP-U-HIS-Grocott's

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Special staining (cont'd) In-house manual documented procedures based on manufacturers' manuals as relevant
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Connective tissues	LP-U-HIS-Masson trichrome
	Fibrin and connective tissues	LP-U-HIS-Martius Scarlet Blue (MSB)
	Hepatitis B surface antigen	LP-U-HIS-Orcein for hep B surface antigen
	Neutral mucopolysaccharides and glycogen	LP-U-HIS-Periodic Acid Schiff
	Ferric iron	LP-U-HIS-Perls Prussian blue
	Reticulin fibres	LP-U-HIS-Reticulin Gordon and Sweet
	Mast cells	LP-U-HIS-Tol blue
	Connective tissues	LP-U-HIS-Van Gieson
	Acid fast mycobacteria	LP-U-HIS- Ziehl Neelsen
	Heptocelluar carcinomas, Endodermal sinus tumor (EST) or Yolk sac tumours (YST)	Alpha FetoProtein
	Follicular lymphomas	BCL2
	Germinal centre lymphocytes,Non Hodgkins lymphoma / DLBCL	BCL6
	High molecular weight cytokeratin	34be12
	Epithelial cells	BER EP4
	Gastrointestinal and pancreatic tumours	CA19.9
	Ovarian epithelial malignancies	CA125
	Thyroid c cells and tumours	CALCITONIN
	Smooth muscle	CALPONIN

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Histopathological examination activities for the purposes of clinical diagnosis (cont'd)	Special staining (cont'd) In-house manual documented procedures based on manufacturers' manuals as relevant
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Neurons, mesothelial cells, steroid producing cells, neuroendocrine cells, sweat glands.	CALRETININ
	Secretory epithelia	CAM 5.2
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Immunohistochemistry examination activities for detection of clinical abnormalities:	Immunohistochemistry Microscopic examination supported by in-house documented procedures based on Ventana Benchmark manuals as relevant: LP-U-HIS-ULTRA operational use and maintenance
	T cells	CD3
	Tcells , subset of B cells in mantle zone	CD5
	Lymphoblastic, Burkitts, follicular lymphomas. Germinal centres, perineurium,breast myoepithelial cells etc	CD10
	Reed Sternberg cells, granulocytes, monocytes	CD15
	B cells	CD20
	B cells, monocytes, FDCs	CD23
	RS cells, Hodgkin cells, ALCL	CD30
	Endothelial cells, platelets, monocytes, granulocytes, some B cells	CD31
	Vascular endothelium. Lymphoid and myeloid progenitor cells	CD34
	Majority of leucocytes	CD45

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Immunohistochemistry examination activities for detection of clinical abnormalities:	Immunohistochemistry (cont'd) Microscopic examination supported by in-house documented procedures based on Ventana Benchmark manuals as relevant: LP-U-HIS-ULTRA operational use and maintenance
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Neurons, astrocytes, schwann cells, NK cells,	CD56
	Macrophages, monocytes, neutrophils, basophils, large lymphocytes	CD68
	Platelets, megakaryocytes, monocytes, macrophages, endothelial cells	CD61
	B cells	CD79a
	GIST, Mast cells etc	CD117
	Plasma cells	CD138
	Intestinal epithelial cells	CDX2
	Cell surface glycoprotein, overexpressed in colonic and other tumours	CEA (MONO)
	Hepatocellular carcinoma, granulocytes	CEA (POLY)
	Neuroendocrine cells and tumours	CHROMOGRANIN A
	Epithelium	CK (AE1/AE3)
	Epithelium	CK (MNF116)
	Glandular and transitional epithelia	CK5/6
	Glandular and transitional epithelia	CK7
	Neoplasms of squamous cell origin	CK14
	Ductal and glandular epithelial	CK19

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Immunohistochemistry examination activities for detection of clinical abnormalities:	Immunohistochemistry (cont'd) Microscopic examination supported by in-house documented procedures based on Ventana Benchmark manuals as relevant: LP-U-HIS-ULTRA operational use and maintenance
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Gastric and intestinal epithelium, urothelium, Merkel cells of skin	CK20
	Mantle cell lymphomas, myelomas	CYCLIN D1
	Desmin in striated and smooth muscle	DESMIN
	Gastro intestinal stromal tumours	DOG – 1
	Epithelial cells	E CADHERIN
	Normal and neoplastic epithelia	EMA
	Estrogen receptors	ER
	Breast Tumours	HER2 LP-U-HIS-HER2 Procedure Tissue processed using VIP Processor only
	Trophoblastic tumour, other tumours expressing HCG	HCG
	Melanocytic tumours	HMB45
	Hepatocellular carcinoma	HEPATOCYTE SURFACE AG
	Granulosa cell and Sertoli cell tumours	INHIBIN A
	G1,S,G2 and mitotic phase cells	KI67
	Kappa immunoglobulin light chains	KAPPA
	Lambda immunoglobulin light chains	LAMBDA
	Melanocytes	MELAN A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Immunohistochemistry examination activities for detection of clinical abnormalities (cont'd):	Immunohistochemistry (cont'd) Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant: LP-U-HIS-ULTRA operational use and maintenance
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	adenocarcinomas	MOC 31
	Lung adenocarcinoma	NAPSIN A
	Nerve tissue and neuroendocrine cells	NSE
	Prostatic glands	PSA (POLY)
	Prostatic tumours / PIN	P504S (AMAC-R)
	P16 protein overexpression	P16
	SCC lung	P40
	P53 protein	P53
	P63 protein	P63
	Seminoma, some germ cell tumours	PLAP
	Progesterone receptor	PR
	Neuroectodermal tissues	S100
	Smooth muscle cells	SMMHC (MYOSIN)
	Smooth muscle cells	SMA (ACTIN)
	Neuroendocrine tumours, neurons	SYNAPTOPHYSIN
	Thyroid epithelial cells	THYROGLOBULIN
	Thyroid and lung cells	TTF1
	Mesenchymal cells	VIMENTIN
	Malignant melanomas	WT1
	Fibromatosis (desmoid tumours) of breast and abdomen	Beta Catenin

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Immunohistochemistry examination activities for detection of clinical abnormalities (cont'd):	Immunohistochemistry (cont'd) Microscopic examination supported by in-house documented procedures based on equipment manuals as relevant: LP-U-HIS-ULTRA operational use and maintenance
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens (cont'd)	Prostatic adenocarcinoma	34BE12/P504s Dual Staining
	Clear cell renal cell carcinoma	Carbonic Anhydrase IX (CAIX)
	T-Cell lymphomas	CD4
	T-Cell lymphomas	CD8
	Monocyte-derived lymphomas	CD14
	AMS and MDS	CD71
	Breast and urothelial carcinomas	GATA3
	Seminomas and embryonal carcinomas	OCT-4
	Ovarian serous carcinoma and clear cell renal carcinoma	PAX8
	Mesotheliomas	Podoplanin (D240)
	Melanoma	SOX10
	Germ cell tumours	SALL4

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Examination of non-gynaecological specimens to assist in detection of clinical abnormalities	Microscopic examination supported by in-house documented procedures based on Thinprep T2000 equipment manuals as relevant:
Fine needle aspirations (various sites) Serous effusions (pleural, ascetic, pericardial) Respiratory fluids and brushings Urine Gastrointestinal brushings Cyst Fluids Synovial Fluid	Examination of tissues to identify or exclude cytological abnormalities for the purpose of clinical diagnosis	LP-U-CYT-FNA in Pathology LP-U-CYT-FNA outside path LP-U-CYT-Use of Thinprep T2000 LP-U-CYT Centrifuge use LP-U-CYT-Using the cytospin LP-U-CYT Procedure for air-dried slides LP-U-CYT-Preparation of Biliary brushings specimens LP-U-CYT-Preparation of Bronchial Brush specimens LP-U-CYT-Bronchial Lavage specimens LP-U-CYT-Bronchial Washings LP-U-CYT-Preparation of cell blocks LP-U-CYT-Cerebrospinal fluid (CSF) LP-U-CYT-Procedure for High Risk specimens LP-U-CYT-Preparation of fine needle aspirates LP-U-CYT-Sputum samples LP-W-CYT-Thin Prep Body Fluids LP-U-HIS-Thin Prep EBUS LP-U-CYT-Thin Prep Mucoid Specimens LP-U-CYT-Preparation of Urine LP-U-CYT-Dealing with discards
Fine needle aspirations (various sites) Serous effusions (pleural, ascetic, pericardial) Respiratory fluids and brushings Urine Gastrointestinal brushings Cyst Fluids Synovial Fluid (cont'd)	Examination of tissues to identify or exclude cytological abnormalities for the purpose of clinical diagnosis	LP-U-CYT-PAP Staining method LP-U-CYT-Giemsa staining – Cytology LP-W-CYT reporting procedure of NG Specimens LP-U-CYT-Reporting of Synovial fluid LP-U-CYT-Non Gynae Correlation Audit

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