


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	Oxford University Hospitals NHS Foundation Trust	
	Issue No: 004 Issue date: 04 April 2019	
	Cellular Pathology John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Contact: Sharon Roberts-Gant Tel: +44 (0)1865-220494 Fax: +44 (0)1865-220190 E-Mail: sharon.roberts-gant@ouh.nhs.uk Website: www.ouh.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	
John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Sharon Roberts-Gant (contact details above)	Cytopathology (inc. gynaecological & diagnostic) Histopathology (inc. routine & special staining, frozen sections) Immunocytochemistry In-situ hybridisation Mortuary services (inc. body receipt, storage & release)	JRH
Churchill Hospital Old Road Headington Oxford OX3 7LE	Sharon Roberts-Gant (contact details above)	Slide production, staining & mounting of fine needle aspirates for diagnostic cytology.	CHF

Site activities performed away from the locations listed above:

Location details	Activity	Location code	
Churchill Hospital Old Road Headington Oxford OX3 7LE	Sharon Roberts-Gant (contact details above)	Body receipt, storage & release	CHB
Horton General Hospital Oxford Road Banbury Oxfordshire OX16 9AL	Sharon Roberts-Gant (contact details above)	Body receipt, storage & release	HH



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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
HUMAN TISSUES AND FLUIDS	<u>Gynaecological cytopathology</u>		
Cervical/vaginal cells	Preparation and screening to identify or exclude cytological abnormalities for the purpose of diagnosis	<u>Liquid based cytology</u> In-house procedures based on Thin Prep method in conjunction with manufacturer's instructions using: Hologic T5000 processor: G55, G56 Sakura Tissue Tek staining machine & Glas automated coverslipper: G02, G05	JRH
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> In-house procedures: CPSOP27 in conjunction with manufacturer's instructions using microscopes: Leitz Dialux, Laboulux K, Laborlux S, Orthoplan, Orthomat II, Nikon Eclipse 50i, Ci-L, E200, E400 & E600, Optishot Olympus BH2, BHTU, BH-U, BHS312, BHS313, BX40, BX41, BX50, BX51, BX53	JRH
Ascitic fluid Bile Biliary brushings Breast cyst fluid Bronchial brushes Bronchial lavage Broncho-alveolar lavage Colonic brushings Hydrocele fluid Oesophageal brushings Ovarian cyst fluid Pericardial fluid Peritoneal fluid Pleural fluid Sputum Urine	<u>Diagnostic cytopathology</u> Examination to identify or exclude cytological abnormalities for the purpose of diagnosis	<u>Preparation/centrifugation</u> using procedures: NG02, NG03 in conjunction with manufacturer's instructions using: ThermoShandon Cytospin4, Heraeus Labofuge 400: NG08, NG40 Cytoblocks Kit NG16, NG25, NG32	JRH



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<p>HUMAN TISSUES AND FLUIDS (Cont'd)</p> <p>Ascitic fluid Bile Biliary brushings Breast cyst fluid Bronchial brushes Bronchial lavage Broncho-alveolar lavage Colonic brushings Hydrocele fluid Oesophageal brushings Ovarian cyst fluid Pericardial fluid Peritoneal fluid Pleural fluid Sputum Urine</p>	<p><u>Diagnostic cytopathology (cont'd)</u></p> <p>Examination to identify or exclude cytological abnormalities for the purpose of diagnosis</p>	<p><u>Staining</u> using in-house procedures for (as appropriate): Papanicolaou: NG41 May Grunwald Giemsa: NG20 Quick Diff: NG21 in conjunction with manufacturer's instructions using: Shandon Varistain 24-4: NG02, NG04, NG19</p>	<p>JRH</p>
<p>Slides prepared in house from samples listed above</p>	<p>Morphological assessment and interpretation/diagnosis</p>	<p><u>Microscopy (qualitative analysis)</u> In-house procedures: CPSOP27 in conjunction with manufacturer's instructions using microscopes: Leitz Dialux, Laboulux K, Laborlux S, Orthoplan, Orthomat II, Nikon Eclipse 50i, Ci-L, E200, E400 & E600, Optishot Olympus BH2, BHTU, BH-U, BHS312, BHS313, BX40, BX41, BX50, BX51, BX53</p>	<p>JRH</p>
<p>Fine needle aspirates from: Lymph nodes Neck mass Thoracic: lung, lymph node, mediastinal and pleural Pancreatic Breast</p>	<p>Examination to identify or exclude cytological abnormalities for the purpose of diagnosis</p>	<p><u>Staining</u> using in-house procedures for (as appropriate): Papanicolaou: NG41 May Grunwald Giemsa: NG20 Quick Diff: NG21 in conjunction with manufacturer's instructions using: Shandon Varistain 24-4: NG19</p>	<p>JRH CHF</p>
<p>Slides prepared in house from samples listed above</p>	<p>Morphological assessment and interpretation/diagnosis</p>	<p><u>Microscopy (qualitative analysis)</u> Using procedures: CPSOP27 in conjunction with manufacturer's instructions using microscopes listed above</p>	<p>JRH CHF</p>



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HUMAN TISSUES	<u>Histopathology</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Macroanalysis & dissection</u> using: H4, H6, H140, MO03, MO05, MO06, MO07, MO08, MO09, MO10, MO11, MO12, MO13, MO15, MO16	JRH
		<u>Processing</u> using: Sakura VIP: H159, H273, Shandon Pathcentre: H158 and Leica Peloris III : H288, H301 processors	JRH
		<u>Embedding</u> using: Thermoshandon Histostar & Leica embedding centres: H21	JRH
		<u>Sectioning & slide production</u> using: Leica RM2135, RM2235&SM2400, Microm HM200 Ergostar & Shandon Finesse microtomes: H22	JRH
Tissues	Basophilic and eosinophilic tissue structures	<u>Routine Haemotoxylin and Eosin (H&E) staining & coverslipping</u> using: Sakura Tissue Tek Prisma staining machine: H23, H24 Sakura Tissue Tek DRS 200E stainer: H272, H289 Sakura Tissue Tek GLC 550 coverslipper: H25 Sakura Tissue Tek Glas g2 automated coverslipper: H274, CPSOP32	JRH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Special stains to detect the following:	<u>Special staining</u> Manual methods using procedures: H264	
	Ganglion cells	Acetylcholinesterase	
	Acidic mucins	Alcian blue	
	Acidic mucins, neutral mucins, PAS positive substances	Alcian Blue Periodic Acid Schiffs (PAS)	
	Alcian blue mucins, PAS positive substances	Diastase Alcian blue PAS	
	Alcian blue mucins	Alcian blue haematoxylin for skin	
	Bile	Fouchet	
	Haemopoietic cells	Giemsa	
	Gram positive & negative microorganisms	Gram's stain	
	Gram positive & negative microorganisms	Gram-twort	
	Reticulin fibres, collagen	Gordon & Sweets for reticulin	
	Fungi, <i>Pneumocystis jirovecii</i>	Grocott's Hexamine Silver	
	Amyloid	Highmans Congo red	
	Fungi, <i>Pneumocystis jirovecii</i>	Grocott's Hexamine Silver	
	Collagen, Muscle, RBCs Basement membranes (basal lamina)	Haematoxylin Van Gieson Jones Hexamine silver	
	Collagen, muscle, RBCs	Masson's trichrome	



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HUMAN TISSUES (cont'd) Tissues	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Special stains to detect the following:</p> <p>Fibrin, Muscle, Collagen, RBCs</p> <p>Neutral lipids</p> <p>HBsAg (Hep B), Elastin, Copper Associated Proteins</p> <p>Mucins, Glycogen, PAS positive substances - fungi</p> <p>Glycogen Collagen</p> <p>Haemosiderin, Ferric iron, Asbestos, Ferringinous bodies</p> <p>Basement membranes (basal lamina), Glycogen, PAS positive substances Copper, Copper-associated protein Mast cells</p> <p><i>Helicobacter pylori</i></p> <p>Mineralised bone, Canaliculi & Lacunae in the centre of the traberculae, Bone marrow, Osteoid seams</p> <p>Leprosy bacilli, RBCs</p> <p>Acid/alcohol fast bacilli</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Special staining</u> Manual methods (Cont'd)</p> <p>MSB trichrome</p> <p>Oil red o</p> <p>Orcein</p> <p>PAS</p> <p>PAS Diastase Fast green / Sirius red</p> <p>Perls Prussian Blue</p> <p>Renal PAS</p> <p>Rhodanine</p> <p>Toludine blue for mast cells</p> <p>Toluidine blue for Helicobacter Pylori</p> <p>Von kossa</p> <p>Wade-Fite</p> <p>Ziehl Neelsen</p>	<p>JRH</p>



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HUMAN TISSUES (cont'd) Tissues	<p><u>Histopathology</u> (cont'd)</p> <p>Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Special stains to detect the following:</p> <p>Reticulin fibres, collagen</p> <p>Fungi, <i>Pneumocystis jirovecii</i></p> <p>Basement membranes (basal lamina</p> <p>Collagen, muscle, RBCs</p> <p>Elastic, Collagen, RBCs</p> <p>Basement membranes (basal lamina), Glycogen, PAS positive substances</p> <p>Haemosiderin, Ferric iron, Asbestos, Ferringinous bodies</p> <p>Amyloid</p> <p>Acidic mucins, neutral mucins, PAS positive substances</p> <p>Acidic mucins, PAS positive substances</p> <p>Glycogen evidenced by loss of staining after Diastase</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Special staining</u> Automated using procedures: H26, H264 and Dako Artisan Link Pro System and stains as appropriate:</p> <p>Gordon & Sweets for reticulin</p> <p>Grocott's Hexamine Silver</p> <p>Jones Hexamine silver</p> <p>Masson's trichrome</p> <p>Miller's Elastic van Gieson</p> <p>Renal PAS</p> <p>Perls Prussian Blue</p> <p>Highmans Congo red</p> <p>Automated methods Sakura Tissue Tek DRS 200E stainer: H23 Alcian Blue Periodic Acid Schiffs (PAS)</p> <p>Diastase Alcian blue PAS</p> <p>Diastase PAS</p>	JRH



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HUMAN TISSUES (cont'd)	<u>Histopathology (cont'd)</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH	
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Special staining (cont'd)</u> Automated methods Sakura Tissue Tek DRS 200E stainer: H23		
	Mucins, Glycogen, PAS positive substances – fungi	PAS		
	Melanin, Argentaffin, Chromaffin, Lipofuscin	Masson Fontana		
	Elastic, Collagen, RBCs	Miller's Elastic van Gieson		
	Smooth muscle	Actin (1A4)		
	Epithelium	AE1/3 (multi CK)		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u>		JRH
	Alpha fetal protein	AFP		
	Anaplastic lymphoma kinase	ALK1		
	Alpha 1 anti-trypsin	Alpha 1AT		
	Racemase (Prostate ca)	AMACR (racemase)		
	Amyloid A	Amyloid A (MC1)		
	Lymphoma panel	Annexin		
	Androgen receptor	Androgen receptor		



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HUMAN TISSUES (cont'd) Tissues	Immunocytochemistry to detect the following: Apoptosis/Lymphoma Lymphoma panel Epithelial cell types Epithelial Lymphoma panel Complement factor Renal cell CA Ovarian marker Pancreatic marker C cell Thyroid Smooth muscle cells Muscle Mesothelial T cell Lymphoma Hogkins lymphoma Monocytes B Cell Langerhans cells T cell B cell Follicular dendritic cells	<u>Immunocytochemistry (cont'd)</u> Bcl-2 Bcl-6 BerEP4 Beta catinin C Myc C4d Ca1X CA125 CA19.9 Calcitonin Caldesmon Calponin Calretinin CD 7 CD10 CD15 Leu M1 CD163 CD19 CD1a CD2 CD20 (L26) CD21 (I2G9)	JRH



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HUMAN TISSUES (cont'd) Tissues	Immunocytochemistry to detect the following: Follicular dendritic cells T cells Hogkins lymphoma Vascular Vascular/stromal T cell T cell Leucocyte common antigen T cell Neuroendocrine Platelets B Cell Lymphoma T Cell Ewings sarcoma Colonic transcription factor Carcino embryonic antigen Neuroendocrine Epithelial Epithelial Epithelial Epithelial (gastro)	<u>Immunocytochemistry (cont'd)</u> CD23 (MHM6) CD3 CD30 CD31 (Jc70) CD34 (Qbend) CD4 368 CD43 (DFT1) CD45 (LCA) CD5 CD56 CD61 (Y2/51) CD79a (JCB117) CD123 CD8 CD99 (Mic II) CDX2 CEA Chromogranin (Dak-A3) CK 19 (BA17) CK 34βE12 CK14 CK20	JRH



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HUMAN TISSUES (cont'd)	Histopathology (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> (cont'd)	
	Epithelial	CK8/18 (Cam 5.2)	
	GIST	C-Kit (CD117)	
	Cytomegalovirus	CMV (CCH2)	
	Mantle cell lymphoma	Cyclin D1	
	Endothelial	D240 (podoplanin)	
	Hairy cell leukaemia	DBA.44	
	Striated muscle	Desmin (DE33)	
	GIST	DOG-1	
	Neural cell adhesion	E Cadherin	
	Ebstein Barr virus	EBV (LMP) (CS1-4)	
	Epithelial	EMA (E29)	
	Oestrogen receptor	ER	
	Skin dendritic cells	Factor 13a	
	Vascular	Factor8	
	Epithelial / mesothelial	CK5	
	Epithelial	CK7	
	Hormone	Gastrin	



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> (cont'd)	
	Bladder carcinoma	Gata 3	
	Hormone	Glucagon	
	Liver panel	Glutamine Synthetase	
	Liver panel	Glypican 3	
	Human Chorionic gonadotrophin	HCG	
	Hep B virus	Hep b core	
	Hep B virus	He b surface	
	Hepatocyte	Hepar 1	
	Smooth muscle	HHF35	
	Human papilloma virus	HPV	
	Herpes simplex virus	HSV Type II	
	Immunoglobulin	IgA	
	Immunoglobulin B cell	IgD	
	Immunoglobulin	IgG	



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> (cont'd)	
	Immunoglobulin	IgG4	
	Immunoglobulin B Cell	IgM	
	Germ cell	Inhibin	
	Pancreatic	Insulin	
	Light chain	Kappa	
	Macrophage	KP1 (CD68)	
	Light chain	Lambda	
	Macrophage	Lysozyme	
	Mast cell	Mast Cell Tryptase	
	Melanocytic	Melan A	
	Proliferation	Mib1 (Ki 67)	
	MSI (HNPCC)	MLH 1	
	Epithelial	MNF116	
	Epithelial	MOC/031	
	MSI (HNPCC)	MSH 2	
	MSI (HNPCC)	MSH 6	
	Hogkins	MUM1	
	Myeloid cells	Myeloperoxidase (MPO)	
	Rhabdomyosarcoma	MYF4	



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> (cont'd)	
	Rhabdomyosarcoma	Myo D1	
	Smooth muscle	Myoglobin	
	Smooth muscle	Myosin (Smooth muscle)	
	Neuroblastoma	NB84a	
	Neurofilament	Neurofilament (2F11)	
	Melanocytic	NK1C3 /CD63	
	Neurone specific enolase	NSE	
	Seminoma	Oct 3/4	
	Lymphoma	Oct 2	
	Oncogene	P53 (DO7)	
	Mesothelial	P63	
	Pancreatic	Pancreatic PP	
	Parvo virus	Parvo Virus	
	Pneumocystis carini	PCP (3F6)	
	Macrophage	PGM1 (CD68)	
	Seminoma	PLAP	
	Membranous nephropathy	PLA2R	
	MSI (HNPCC)	PMS2	
	Progesterone receptor	PR Pgr 12	



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HUMAN TISSUES (cont'd)	<u>Histopathology</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
Tissues	Examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis		
	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> (cont'd)	
	Prostate specific antigen	PSA Poly	
	Prostatic alkaline phosphatase	PSAP	
	Renal cell carcinoma	Renal Cell CC	
	Red blood cells	Ret40f	
	Neural / melanocytic	S100	
	5 Hydroxytryptamine	Serotonin	
	Pancreatic	Somatostatin	
	Spirochaete	Spirochaete	
	Simian aids virus (Renal)	SV 40	
	Neuroendocrine	Synaptophysin	
	Lymphoma lymphoblastic	Tdt (339)	
	Mesothelial	Thrombomodulin	
	Thyroid	Thyroglobulin	
	Thyroid transcription factor	TTF1	
	Mesenchyme cells	Vimentin (V9)	
	Plasma cells	Vs38	
	Wilms tumour	Wilms WT1	



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HUMAN TISSUES (cont'd)	Histopathology (cont'd)		
Tissues	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> Automated using Ventana Benchmark ULTRA Testing Platform SOP H295 Use of the Ventana BenchMark ULTRA staining machine and antibodies as appropriate:	JRH
	Her 2 oncogene	HER-2	
	Helicobacter pylori	H Pylori	
	HHV-8	HHV-8	
	Dysplastic epithelia	P16	
Tissues	In-situ hybridisation to detect the following:	<u>In-situ hybridisation</u> Automated using procedures: H236 and Bond Max and probes as appropriate:	JRH
	Epstein Barr virus	EBER	
	Lambda light chain	Lambda	
	Kappa light chain	Kappa	
		Immunohistochemistry Manual method for renal biopsies SOP H255 renal IMP method	
	Complement factor	C1Q	
	Complement factor	C3	
	Immunoglobulin	IgA	
	Immunoglobulin	IgG	
	Immunoglobulin	IgM	



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HUMAN TISSUES (cont'd)	Histopathology (cont'd)	Immunofluorescence Manual method for skin and renal biopsies SOP H40 Immunofluorescence cutting and staining	JRH
Tissues	Complement factor (fluorescent)	C1Q FITC	
	Fibrinogen	Fibrinogen FITC	
	Immunoglobulin (fluorescent)	IgA FITC	
	Immunoglobulin (fluorescent)	IgG FITC	
	Immunoglobulin (fluorescent)	IgM FITC	
	Light chain	Kappa FITC	
	Light chain	Lambda FITC	
	Complement factor (fluorescent)	C3 FITC	
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> Using procedures: CPSOP27 and microscopes listed above	JRH
Tissues	Frozen section examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Cryotomy</u> Using procedures: H10, H201 and Leica CM1850 UV & CM1950 cryostats	JRH
	Basophilic and eosinophilic tissue structures	<u>Routine H&E staining</u> Manual methods using procedures: H23, H289, H171, H179	JRH
	Special stains to detect the following:	<u>Special staining</u> Manual methods using procedures: H26, H264 and stains as appropriate:	
	Ganglion cells	Acetylcholinesterase	



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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 TISSUES (cont'd)	Histopathology (cont'd)	<u>Special staining (cont'd)</u> Manual methods using procedures: H26, H264 and stains as appropriate:	
	Neutral lipids	Oil red o	JRH
Tissues	Immunocytochemistry to detect the following:	<u>Immunocytochemistry</u> Automated using procedures: CPP31, H151, H236, H237, H279 and Bond Max and antibodies as appropriate:	JRH
	Complement factor (fluorescent)	C1Q FITC	
	Complement factor (fluorescent)	C3 FITC	
	Fibrinogen	Fibrinogen FITC	
	Immunoglobulin fluorescent	IgA FITC	
	Immunoglobulin fluorescent	IgG FITC	
	Frozen section examination to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	JRH
	Immunoglobulin Fluorescent	IgM FITC	
	Light chain	Kappa FITC	
	Light chain fluorescent	Lambda FITC	
Slides prepared in house as above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> Using procedures: CPSOP27 and microscopes listed above	JRH
END			