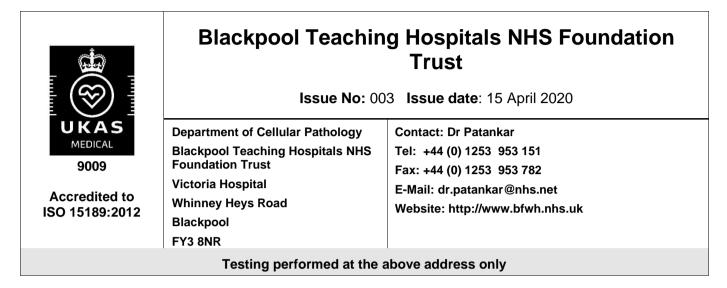
Schedule of Accreditation

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United Kingdom Accreditation Service

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



Supporting activities performed at the location listed above:

Location details	Activity
On-site Mortuary and Body Store Department of Cellular Pathology (as above)	Mortuary services (incl. body receipt, storage & release) for Coroner's deceased and hospital consented cases. Record keeping (body identification and audit trail)



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Blackpool Teaching Hospitals NHS Foundation Trust

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Accredited to ISO 15189:2012

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS	Histopathological examination of tissues 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):
Fixed, fresh and frozen tissue samples: excisional and incisional biopsies and surgical resection and post mortem specimens	Routine histopathology examination activities. Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnoses.	<u>Macroanalysis, Specimen</u> <u>dissection</u> using: CPPM 003 CPPC 002,007,008,009,010 <u>Decalcification</u> using: CPPC 032, 033, 034
		<u>Tissue processing</u> using: CPPC 035, 036 using the following tissue processors Thermo Excelsior Leica Peloris
		Embedding_using: CPPR 003 and Thermo Embedding Centre
		<u>Frozen sections</u> using: CPPC 024, 025, 026 and Leica Microsystems CM1950 Cryostat
		<u>Microtomy and slide production</u> using: CPPR 004 and Leica RM2135 and RM2235 Microtomes



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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 of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Fresh skin biopsies	Immunofluorescence Detection of the following autoantibodies:	Cryotomy using documented in- house procedure: In conjunction with manufacturer's instructions for : Thermo Scientific Cryotome followed by direct immunofluorescence microscopy using documented in-house procedure:
	IgM	FITC labelled IgM
	IgG	FITC labelled IgG
	IgA	FITC labelled IgA
	C ₃ (complement)	FITC labelled C ₃
FFPE tissue samples and cell blocks	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	Automated Routine Haematoxylin & Eosin staining using: CPPC 002 and Thermo Gemini staining machine and Clearvue Coverslipper
FFPE tissue samples and cell blocks	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	<u>Manual H&E staining</u> using: CPPC 026, CPPS005



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks	Special staining for identification of:	<u>Special staining manual</u> <u>techniques</u> : using CPPS 005
	Acid mucins	Alcian blue
	Acid mucins and neutral mucins	Alcian Blue Periodic Acid Schiff (AB PAS) +/- Diastase
	Amyloid	Congo Red
	Elastin and connective tissue	EVG - Miller's Elastic Van Gieson
	Helicobacter Pylori	Giemsa
	Differentiate between gram positive and negative bacteria	Gram
	Fungi	Grocott's Hexamine Silver
	Mast cells	Hughesdens
	Fibrin	Martius Scarlet Blue (MSB)
	Connective tissue	Masson Trichrome
	Melanin	Masson – Fontana
	Tissue carbohydrates e.g. glycogen, mucins and fungal cell walls.	PAS +/- diastase
	Demonstration of iron	Perls



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Special staining for identification of: (cont'd)	Special staining manual techniques (cont'd):
	Reticulin	Reticulin - silver impregnation technique
	Copper associated protein / HepBsAg	Shikata's Orcein
	Differentiation of collagen from other connective tissues	Van Gieson Stain
	Acid fast Bacilli	Ziehl Neelsen (ZN)
FFPE tissue samples and cell blocks	Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis	Automated Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit
	Epithelial marker	AE1/AE3
	Anaplastic lymphoma Kinase	ALK-1
	Hepatocytes of foetal liver and hepatomas	Alpha fetoprotein
	Cytokeratins 1,5,10, and 14.	High Molecular weight CK34BE12
	B cells in mantle zone and interfollicular T cells.	BCL-2
	Epithelial marker	BerEP4
	Associated with E-Cadherin. Fibromatous lesions of the breast and abdomen.	Beta-Catenin



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd) High weight glycoprotein. Luminal cells of fallopian tube	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd) CA125
	Parafollicular C-cells in thyroid	Calcitonin
	Smooth muscle, smooth muscle tumours.	Caldesmon
	Mesothelial cell lining	Calretinin
	Low molecular weight cytokeratin 7 and 8	CAM5.2
	Dendritic cells, Langerhans cells, Thymocytes	CD1a
	T cell marker	CD3
	T-Helper cell, regulatory T-cells	CD4
	T-Cell marker	CD5
	Immature B cells and T cells	CD10
	Reed-Sternberg Cells, Granulocytes	CD15 (Leu M1)
	B cell marker	CD20
	Reed Sternberg cells and plasma cells.	CD30 (Ki1)
	Stem cells of the haematopoietic system, vascular endothelial cells.	CD31



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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 of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd) Haematopoietic progenitor cells and vascular endothelium.	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd) CD34 (QBend)
	Used for diff diagnosis of urothelial TCC in situ v non neoplastic changes in the urothelium.	CD44
	Neural cell adhesion molecule.	CD56
	Cells of monocyte/macrophage lineage	CD68
	Ewing's sarcoma	CD99 (MIC2)
	GIST and mast cells	CD117 (c-kit)
	Plasma cell marker	CD138
	Intestinal epithelium	CDX-2
	Carcinoembryonic antigen (mono)	CEA
	As above (poly)	pCEA
	Endocrine tumours/Neuroendocrine cells.	Chromogranin A
	Squamous and myoepithelial.	CK5/6
	Ductal, glandular, and transitional epithelium.	СК7
	Reacts with wide range of normal and neoplastic epithelia.	CK19



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd) Gastric and intestinal epithelium, urothelium and Merkel cells.	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd) CK20
	Cytomegalovirus	CMV
	Normal smooth, skeletal, and cardiac muscle	Desmin
	Expressed in cells of epithelial lineage.	E-Cadherin
	Normal and neoplastic epithelium	EMA
	Breast epithelial cells and some carcinomas. Used as prognostic indicator, hormone receptor status.	Estrogen Receptor
	Neutrophils and vascular endothelium.	Galectin-3
	Breast and Urothelial endothelium carcinoma	GATA-3
	Mesothelial cells	HBME-1
	Trophoblasts	Human Chorionic Gonadotropin (hCG)
	Benign and malignant liver derived tissues	HEP-PAR1 (Hepatocyte)
	Immature melanosomes	HMB45
	Herpes Simplex Virus	Herpes Simplex Virus 1



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd)
	Leydig, sertoli cells	Inhibin
	Proliferation marker	Ki67 (MIB1)
	Cells of lymphoid or myeloid origin	Leucocyte Common Antigen
	Mammaglobin protein	(LCA) (CD45) Mammaglobin
	Melanocytes	Melan A (MART-1)
	Pan cytokeratin.	MNF 116
	Expressed in lung and kidney tissue. +ve adenocarcinoma of lung.	Napsin A
	Cells of neural and neuroendocrine lineage	Neuron Specific Enolase (NSE)
	Embryonic stem cells and germ cells	OCT3/4
	Non-small cell lung cancer tissue	PDL-1
	P53 suppressor gene product.	p53
	Alpha-Methyl acyl-CoA enzyme.	P504s
	Nuclei of myoepithelial	P63
	Prostatic tissue	Prostatic Acid Phosphatase (PAP)
	Thyroid gland and kidney.	PAX-8



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd)
	Germ cell tumours	Placental Alkaline Phosphatase (PLAP)
	Expressed in lymphatic endothelium.	Podoplanin (D2-40)
	Breast, ovarian, endometrial epithelia, and myometrial nuclei. Used in conjunction with ER.	Progesterone Receptor
	Normal prostate and prostate carcinoma.	Prostate Specific Antigen (PSA)
	Renal Cell Carcinoma	Renal Cell Carcinoma (RCC)
	Melanoma and neuroendocrine	S100
	Myofibroblasts, myoepithelial cells. Does not stain cardiac or skeletal muscle.	Smooth Muscle Actin (SMA)
	Smooth muscle cells	Smooth Muscle Myosin (SMM)
	Neuroendocrine cells	Synaptophysin
	Endothelial and mesothelial cells.	Thrombomodulin (CD141)
	Thyroglobulin. Precursor for T4 and T3 thyroid hormones.	Thyroglobulin
	Thyroid Transcription Factor -1 (Lung and Thyroid)	TTF-1



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Histopathological examination of tissues for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
FFPE tissue samples and cell blocks (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemical staining - Documented in house methods CPPI 003, CPPI 008, CPPST 0114, CPST 016 and Dako Link 48 Immunostainer and EnVision FLEX (High pH) kit (cont'd)
	Variety of mesenchymal cells	Vimentin
	Wilms' tumour protein	WT1
FFPE tissue samples and cell blocks	Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis	Immunohistochemical staining - Documented in house methods CPPST 012 and Ventana Benchmark platform
	Non-small lung cancer tissue	ALK fusion protein ROS-1 fusion protein
FFPE tissue samples and cell blocks	Detection of EGFR mutations for the purposes of clinical diagnosis	Qualitative PCR using Biocartis Idylla EGFR kit CPPST 002
	Non-small lung cancer tissue (Exon 18-21) mutation	EGFR mutation test kit
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> using:
		Leica/Nikon microscopes
		Consultant Reporting CPPP 003 CPPP 008 CPPM 003



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measured/Range of measurementEquipment/Techniques usedHUMAN BODY TISSUE AND FLUIDS (cont'd)Cytopathological examination of tissues and fluids for the purpose of diagnosisMacroscopic and Microscopic examination using in house or diagnosisVariety of cytology samples including manufacture*: instructions for the following methods (where relevant):Examination of fluids in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosisSample preparation using: CPFM005 CPF020 and Thermo Scientific "Cytospin 4" cytology centrifue" CPFM006 CPF014, 015,016 and Shandon "Varistain 24-4" cytology stainerSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF 006 Non-gynae preparation Staining for nuclear detail in cells presentSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisStaining for nuclear detail in cells presentSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisStaining for nuclear detail in cells presentSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis); Licia/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology SpecimensCPMS 006 Consultant ReportingCPF005 Consultant Reporting	Materials/Products tested	Type of test/Properties	Standard specifications/
FLUIDS (cont'd)tissues and fluids for the purpose of diagnosisexamination using in house procedures in conjunction with manufacture's instructions for the following methods (where relevant):Variety of cytology samples including washings, brushings, EBUS, CSF, Fine needle aspirations, urines and fluids.Examination of fluids in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosisSample preparation using: CPFM005 CPF020 and Thermo Scientific "Cytology the" cytology centrifugeSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid Preparation for all fixed and non-fixed fluids CPF007 Joint Fluid Preparation Staining using: CPF006 Manual stainingSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid Preparation Staining using: CPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopes		measured/Range of measurement	Equipment/Techniques used
washings, brushings, EBUS, CSF, Fine needle aspirations, urines and fluids.identify or exclude morphological and cytological abnormalities for the purpose of diagnosisCPFM005 CPF020 and Thermo Scientific "Cytospin 4" cytology centrifugeSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF 006 Non-gynae preparation for all fixed and non-fixed fluidsSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid Preparation Staining for nuclear detail in cells presentSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesCPF011, CPF012 Screening and Reporting Non-Gynae Cytology staining Non-Gynae Cytology staining Non-Gynae Cytology staineMicroscopy (cuantitative analysis): Leica/Nikon microscopes		tissues and fluids for the purpose of	examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where
Fine needle aspirations, urines and fluids.and cytological abnormalities for the purpose of diagnosisCPFM005 CPF020 and Thermo Scientific "Cytospin 4" cytology centrifugeSynovial fluidsCPFM006 CPF014, 015,016 and Shandon "Varistain 24-4" cytology stainerCPF 006 Non-gynae preparation for all fixed and non-fixed fluidsSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid Preparation 			Sample preparation using:
Synovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF 006 Non-gynae preparation for all fixed and non-fixed fluids CPF 034 Preparation of cell block for Cytology specimensSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid PreparationStaining for nuclear detail in cells presentStaining using: CPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology specimens	Fine needle aspirations, urines and	and cytological abnormalities for the	Scientific "Cytospin 4" cytology
Synovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF 034 Preparation of cell block for Cytology specimensSynovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid PreparationStaining for nuclear detail in cells presentStaining using: CPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			Shandon "Varistain 24-4" cytology
Synovial fluidsCrystal identification - calcium pyrophosphate, urate and cholesterolCPF007 Joint Fluid PreparationStaining for nuclear detail in cells presentStaining using: CPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesCPF011, CPF012 Screening and Reporting Non-Gynae Cytology SpecimensCPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			
pyrophosphate, urate and cholesterolStaining for nuclear detail in cells presentStaining using: CPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesCPF015, CPF012 Screening and Reporting Non-Gynae Cytology SpecimensCPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			
presentCPF015 Automated Papanicolaou Staining methodSlides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesCPF011, CPF012 Screening and Reporting Non-Gynae Cytology SpecimensCPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens	Synovial fluids	pyrophosphate, urate and	CPF007 Joint Fluid Preparation
Slides prepared in house from samples listed aboveMorphological assessment and interpretation/diagnosisMicroscopy (quantitative analysis): Leica/Nikon microscopesCPF011, CPF012 Screening and Reporting Non-Gynae Cytology SpecimensCPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			<u>Staining</u> using:
Slides prepared in house from samples listed above Morphological assessment and interpretation/diagnosis Microscopy (quantitative analysis): Leica/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			
samples listed above interpretation/diagnosis Leica/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			CPFM006 Manual staining
Leica/Nikon microscopes CPF011, CPF012 Screening and Reporting Non-Gynae Cytology Specimens			Microscopy (quantitative analysis):
Reporting Non-Gynae Cytology Specimens			Leica/Nikon microscopes
CPMS 006 Consultant Reporting			Reporting Non-Gynae Cytology
			CPMS 006 Consultant Reporting



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Andrological examination activities for the purpose of clinical diagnosis	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):
Ejaculate		Documented in-house procedures based on WHO guidelines 5 th Edition (2010):
		CPF 003 Analysis Seminal Fluids CPF 037 Examination of Post Vasectomy Samples CPF015 Rapid Papanicolaou method CPF054 Special clearance
	<u>Fertility screening</u> Semen volume Sperm motility Sperm concentration Sperm morphology	Volume / weight Microscopy using wet preparation Slide assessment (count) Stained slide assessment (PAP) Centrifugation
	Post Vasectomy Detection of presence/absence of sperm	Centrifugation and slide assessment by microscopy Using fixed depth chambers CPF 037 Examination of Post Vasectomy Samples
END		