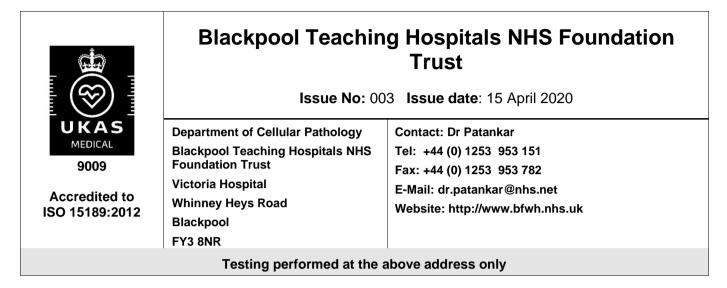
Schedule of Accreditation

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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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| 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 | 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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| 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) 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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| 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) 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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| 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) | 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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| 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) | 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 | | |