


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Countess of Chester Hospital NHS Foundation Trust	
	Issue No: 001 Issue date: 28 March 2018	
	Countess Health Park Chester CH2 1UL	Contact: Kathleen Holden Tel: +44 (0) 1244 365519 Fax: +44 (0) 1244 365386 E-Mail: kathleen.holden@nhs.net Website: www.coch.nhs.uk
Testing performed at the above address only		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity
Address Countess of Chester NHS Foundation Trust Countess Health Park Liverpool Chester CH2 1UL	Local contact Kathleen Holden	Histopathology Diagnostic Cytopathology Biochemistry Immunology Haematology Blood Transfusion



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Site activities performed away from the locations listed above:

Location details	Activity
Countess of Chester NHS Foundation Trust Countess Health Park Liverpool Chester CH2 1UL	Mortuary Services Body Storage
Countess of Chester NHS Foundation Trust Countess Health Park Liverpool Chester CH2 1UL	Phlebotomy
Countess of Chester NHS Foundation Trust Countess Health Park Liverpool Chester CH2 1UL	Blood Fridges: Theatres Maternity
Ellesmere Port Hospital 114 Whitby Road Ellesmere Port CH65 6SG	Phlebotomy
Ellesmere Port Hospital 114 Whitby Road Ellesmere Port CH65 6SG	Body Store
Ellesmere Port Hospital 114 Whitby Road Ellesmere Port CH65 6SG	Blood Fridge
Hospice of the Good Shepherd Gordon Lane Backford Chester CH2 4DG	Blood Fridge



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (AS STATED)	<u>Biochemistry Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u>	Documented in-house methods and manufacturer's operating instructions as specified:
	Quantification of:	Beckman Coulter AU5811 Analyser BS-SOP016 and measurement principles:
Serum/ Urine	Sodium	ISE
Serum/ Urine	Potassium	ISE
Serum/ Urine	Chloride	ISE
Serum	Bicarbonate	PEP Carboxylase
Serum/ Urine	Urea	Urease
Serum/ Urine	Creatinine	Kinetic Jaffe (uncompensated)
Serum/ Urine	Calcium	Arsenazo
Serum/ Urine	Phosphate	Molybdate
Serum/ Urine	Magnesium	Xylidyl Blue
Serum	Albumin	BCP
Serum	Total Protein	Biuret- End Point
Serum	Globulins	Calculated
Serum	Bilirubin	O'Leary
Serum	Conjugated Bilirubin	DPD
Serum	ALT	IFCC no PLP
Serum	ALP	IFCC PMP



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Biochemistry Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
	Quantification of: (cont'd)	Beckman Coulter AU5811 Analyser BS-SOP016 and measurement principles:
Serum	GGT	IFCC
Serum	AST	Modified IFCC no PLP
Serum	CK	IFCC
Serum	LDH	Pyruvate to Lactate (SCE)
Serum	CRP	Immunoturbidimetric
Serum	Amylase	Ethylidene G7PNP
Serum/CSF	Glucose	Hexokinase
Serum/Urine	Urate	Uricase/Peroxidase
Plasma/CSF	Lactate	Lactate Oxidase L-P
Plasma	Ammonia	GLDH NASH-NAD
Plasma/ Urine	Ethanol	ADH
Serum	Paracetamol	Enzyme, Para-aminophenol
Serum	Salicylate	Enzyme, Salicylate Hydrogenase
Serum	Theophylline	Homogenous Enzyme Immunoassay
Serum	Digoxin	Immuno-inhibition
Serum	Lithium	Colourimetric



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Biochemistry Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Serum	Quantification of: (cont'd)	Beckman Coulter AU5811 Analyser BS-SOP016 and measurement principles
	Phenytoin	Homogenous Enzyme Immunoassay
	Phenobarbital	Homogenous Enzyme Immunoassay
	Valproate	Homogenous Enzyme Immunoassay
	Carbamazepine	Homogenous Enzyme Immunoassay
	Gentamicin	Homogenous Enzyme Immunoassay
	Vancomycin	Homogenous Enzyme Immunoassay
	Tobramycin	CEDIA
	Bile Acids	Enzymatic
	ACE	Enzymatic FAPGG
	Cholesterol	Cholesterol Oxidase
	HDL-C	Immunoinhibition
	Triglycerides	Lipase/ Glycerol Reduction
	IgG	Immunoturbidimetric
	IgA	Immunoturbidimetric
	IgM	Immunoturbidimetric
	C3	Immunoturbidimetric



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Biochemistry Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
	Quantification of: (cont'd)	Beckman Coulter AU5811 Analyser BS-SOP016 and measurement principles
Serum	C4	Immunoturbidimetric
Serum	Transferrin	Immunoturbidimetric
Serum	Iron	TPTZ
Serum	UIBC	Nitroso-PSAP
Serum	Rheumatoid Factor	Immunoturbidimetric
Urine/CSF	Protein	Pyrogallol/Molybdate
Urine	Albumin	Immunoturbidimetric
	Quantification of:	Beckman Coulter DXI 800 Immunoassay System using Chemiluminescent Immunoassay with reference to:
Whole Blood	Red Cell Folate	DOC507
Serum	TSH	DOC28
Serum	FT4	
Serum	FT3	
Serum	TPO	
Serum	Tni	
Serum	FSH	
Serum	LH	



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<p>HUMAN BODY FLUIDS (AS STATED) (cont'd)</p> <p>Serum</p>	<p><u>Biochemistry Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)</p> <p>Quantification of: (cont'd)</p> <p>Prolactin</p> <p>Oestradiol</p> <p>Progesterone</p> <p>Testosterone</p> <p>SHBG</p> <p>PTH</p> <p>Total IgE</p> <p>Cortisol</p> <p>Vitamin B12</p> <p>Folate</p> <p>Ferritin</p> <p>Vitamin D</p> <p>HCG</p> <p>AFP</p> <p>PSA</p> <p>CEA</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Beckman Coulter DXI 800 Immunoassay System using Chemiluminescent Immunoassay DOC28</p>



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Biochemistry Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
	Quantification of: (cont'd)	Beckman Coulter DXI 800 Immunoassay System using Chemiluminescent Immunoassay DOC28
Serum	CA125	
Serum	CA19-9	
Serum	GH	
Serum	Zinc	Manual Method (colourimetric) using Wako Kit DOC183
	Detection of:	Beckman Coulter Immage 800 DOC21 and measurement principles:
Serum	Alpha-1-Antitrypsin	Nephelometric
Serum	Free Light Chains	Nephelometric/ Binding Site
Plasma	Ketone	Abbott Optimum using electrochemical method DOC705
Urine	Myoglobin	Checkflow Myoglobin using immunochemical method DOC734
Urine	HCG	Quadracheck 4 using immunochemical method CHEM408
Sweat	NaCl Molarity	Sweat test: collection and analysis using Macroduct System and Sweat-chek Analyser by conductivity CHEMP426 CHEMP427



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Urine	Drugs Screen for: Amphetamine Opiate Cocaine Benzodiazepine Cannabis EDDP	Accusign DOA 5 DOC706 using immunochromatographic method
Serum/Urine	Osmolality	Advanced Microosmometer M300 CHEM420 using freezing point depression
CSF	CSF Xanthochromia	Cecil 3000 BS-SOP005 using spectrophotometric method
Urine Faeces	Identification of Reducing Substances	Manual Method using Benedict's Reagent DOC870
Faeces	Detection of Occult Blood	Hemoscreen CHEM412 using guaiac method
Whole Blood	Qualitative testing for:	Roche b 221 Blood Gas Analyser DOC1045 and measurement principles: Potentiometric Measurement
	pH	Potentiometric Measurement
	pCO ₂	Potentiometric Measurement
	pO ₂	Clark Electrode
Serum	Co-oximeter	Spectrophotometric
Serum	Detection of serum proteins, abnormal electrophoretic pattern and identification	Sebia Capillarys DOC155 using capillary electrophoresis
Urine	Detection of free light chains	Sebia Hydrasis DOC710 using gel electrophoresis
Serum	BNP	Mini Vidas BS SOP004 using sandwich immunoassay



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Immunology Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u>	Documented in-house methods and manufacturer's operating instructions as specified:
Blood/ Serum	Quantification of:	LF Sprinter (Euroimmun) Semi-Automated/ Manual Methods using Indirect Immunofluorescence:
	Anti-Neutrophil Cytoplasmic Antibody Screen cANCA & pANCA	IMSOP007
	dsDNA Screen	IMSOP008
	IgA and IgG Anti Endomysial Abs	IMSOP004 IMSOP005
	Anti- Intrinsic Factor Antibody Screen	IMSOP009
	Autoantibody Screen (ANA, SMA, AMA, LKM, GPC)	IMSOP002
	Anti-Skin Antibody Screen, Basement Membrane and Epidermous	IMSOP010
	Anti-Phospholipase A2 Receptor (PLA2R) Abs	IMSOP017
Blood/ Serum	Liver Profile: AMA-M2 LKM LC-1 SLA/LP	Semi-Automated/ Manual (Immunoblot) Method Indirect Enzyme Assay IMSOP018



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Blood/Serum	Identification of: Anti-Glomerular Basement Membrane Screen	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) with reference to: IMSOP021 IMSOP022 IMSOP012
Blood/Serum	Anti-Neutrophil Cytoplasmic Antibody Quantification PR3 & MPO	
Blood/Serum	dsDNA Quantification	
Blood/Serum	IgA & IgG Anti- Tissue Transglutaminase (tTG)	
Blood/Serum	Extractable Nuclear Antibodies (ENA) Screen	
Blood/Serum	ENA Identification: Ro, La, Sm, RNP, Scl-70, Jo-1, Centromere	
Blood/Serum	Anti- Cardiolipin Antibody Screen IgG and IgM	
Blood/Serum	Anti B2 Glycoprotein 1 Screen, IgG and IgM	
Blood/Serum	Cyclic Citrullinated Peptide (CCP) Antibody Screen	
Blood/ Serum	Identification of Avian Precipitins, IgG Abs against Pigeon, Parrot, Budgie	IMSOP021 IMSOP015 IMSOP022



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Blood/Serum	Identification of: Aspergillus Precipitins, IgG & IgE against <i>Aspergillus fumigatus</i>	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) with reference to: IMSOP021 IMSOP013 IMSOP022
Blood/Serum	Micropolyspora Precipitins (Farmer's Lung)	
Blood/Serum	Quantification of Total IgE and specific IgE (RAST) for the following allergens: House dust mite Bumblebee Common wasp Timothy grass Common ragweed Mugwort Common silver birch <i>Aspergillus fumigatus</i> <i>Alternaria alternate</i> <i>Aspergillus niger</i> Cat dander Dog dander	IMSOP21 IMSOP14 IMSOP22



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Immunology Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood/Serum (cont'd)	Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) IMSOP21 IMSOP14 IMSOP22
	Horse dander	
	Guinea pig epithelium	
	Rabbit epithelium	
	Rat epithelium	
	Serum and urine proteins	
	Hamster epithelium	
	Goose feathers	
	Chicken feathers	
	Duck feathers	
	Turkey feathers	
	Budgerigar feathers	
	Canary bird feathers	
	Parakeet feathers	
	Parrot feathers	
	Finch feathers	
	Cefaclor	



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Immunology Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood/Serum (cont'd)	Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) IMSOP21 IMSOP14 IMSOP22
	Chlorhexidine	
	Penniciloyl G	
	Penniciloyl V	
	Latex	
	Apple	
	Banana	
	Broccoli	
	Cherry	
	Garlic	
	Grape	
	Kiwi	
	Lime	
	Mango	
	Melon	
	Onion	
	Orange	



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Immunology Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood/Serum (cont'd)	Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) IMSOP21 IMSOP14 IMSOP22
	Passion fruit	
	Peach	
	Pear	
	Pineapple	
	Plum	
	Potato	
	Raspberry	
	Strawberry	
	Tomato	
	Almond	
	Barley	
	Brazil nut	
	Cashew nut	
	Chick pea	
	Coconut	
	Gluten	



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<p>HUMAN BODY FLUIDS (AS STATED) (cont'd)</p> <p>Blood/Serum (cont'd)</p>	<p><u>Immunology Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)</p> <p>Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)</p> <p>Green bean</p> <p>Hazelnut</p> <p>Lentil</p> <p>Mace</p> <p>Corn</p> <p>Oat</p> <p>Pea</p> <p>Peanut</p> <p>Pine nut</p> <p>Pistachio</p> <p>Red kidney bean</p> <p>Rice</p> <p>Rye</p> <p>Sesame seed</p> <p>Walnut</p> <p>Wheat</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich)</p> <p>IMSOP21 IMSOP14 IMSOP22</p>



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<p>HUMAN BODY FLUIDS (AS STATED) (cont'd)</p> <p>Blood/Serum (cont'd)</p>	<p><u>Immunology Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)</p> <p>Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)</p> <p>White bean</p> <p>Crab</p> <p>Fish (cod)</p> <p>Lobster</p> <p>Salmon</p> <p>Sardine (pilchard)</p> <p>Shrimp</p> <p>Tuna</p> <p>Chicken</p> <p>Egg</p> <p>Cheese (cheddar type)</p> <p>Cheese (mould type)</p> <p>Milk</p> <p>Cochineal extract (carmine red E120)</p> <p>Cacao</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich)</p> <p>IMSOP21 IMSOP14 IMSOP22</p>



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Blood/Serum (cont'd)	Quantification of Total IgE and specific IgE (RAST) for the following allergens (cont'd)	Elia Phadia 250 using EliA fluorescence enzyme immunoassay (sandwich) IMSOP21 IMSOP14 IMSOP22
	<i>Yeast Saccharomyces cerevisiae</i>	
	Budgerigar serum proteins, feathers and droppings	
	Parrot serum proteins, feathers and droppings	
	Pigeon serum proteins, feathers and droppings	
Faecal	Quantification of Calprotectin	Elia Phadia 250 (cont') using EliA fluorescence enzyme immunoassay (sandwich) IMSOP21 IMSOP19 (preparation) IMSOP22



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Haematological Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u>	Documented in-house methods and manufacturer's operating instructions as specified:
Blood (Citrate/Plasma)	Quantification of: Antithrombin Activity Antithrombin Antigen APCR Dil Russell Viper Venom Test Lupus Anticoagulant Screen APTT APTT 50% Correction APTT for IV Heparin Monitoring APTT Ratio Factor V111:C Factor IX INR Prothrombin Time PT 50% Correction PTTLA Thrombin Time	STAGO Starmax using clot- based method with reference to: DOC377 and DOC1765 DOC1765
Blood (Citrate/Plasma)	Thrombophilia Screen	STAGO Starmax using clot based/chromogenic method DOC377 and DOC1765



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Blood (Citrate/Plasma) (cont'd)	Quantification of: (cont'd)	STAGO Starmax using chromogenic method with reference to:
	Heparin Anti Xa Post	DOC557 and DOC1765
	Heparin Anti Xa Pre	
	Heparin- induced Thrombocyte Test	COAG047
	Protein C Activity	DOC1765 and DOC377
Blood (Citrate/Plasma)	Quantification of:	STAGO Starmax using Mechanical- Chronometry and Immunological- Photometry DOC1765
	Clauss Fibrinogen	
	Coagulation Screen	
	D-Dimer	
	Protein S Free	STAGO Starmax using immunological-photometry DOC377 and DOC1765
Bone Marrow	Identification of cell types, cell contents and structures	Examination of Bone Marrow Aspirate Slides by Manual Microscopy HAEMSOP52 HAEMSOP62 Using Wright's Giemsa BSSOP35
Bone Marrow Trepine		Examination of Bone Marrow Trepine Slides by Manual Microscopy CPPATH059



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Blood (EDTA)	Quantification of: Thalassaemia Screen Hb A Hb A2 Hb F Hb S Hb C Hb D Haemoglobinopathy Screen Hb A2 Hb F Haemoglobinopathy Screen Hb S Hb Variant Screen Hba1C Hb S	TOSOH G8 using HPLC with reference to: BSS09011 HAEMSOP040 Sickledex Kit qualitative solubility test HAEM SOP 040
Blood (EDTA)	ESR	Alifax ESR Analyser HAEMSOP 30-34 using photometric method
Blood (EDTA)	ESR	HAEMSOP 30-34 using manual method Citrate and Westgren Dispette 2 (Fisherbrand)
Blood (EDTA)	Identification of cell types	Examination of Blood Film by Manual Microscopy using Wright's Giemsa (including review by consultants and urgent films) HAEMSOP 010 HAEMSOP 053 HAEMSOP 051 Using Wright's Giemsa BSSOP35



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Haematological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood (EDTA)	Full Blood Count: White blood cells Red blood cells Hb PCV MCV MCH MCHC RDW Platelets MPV Neutrophils Lymphocytes Monocytes Eosinophils Basophils Reticulocytes	Beckman Coulter DXH HAEMSOP013 HAEMSOP014 HAEMSOP015 DOC1036 using Cell Volume, High Frequency Conductivity and Laser methods
Blood (EDTA)	Absolute Reticulocytes	Beckman Coulter DXH DOC1036 HAEMSOP013 HAEMSOP014 using light scatter
Blood (EDTA)	Detection of infectious mononucleosis heterophile antibodies	IM Screen HAEM SOP 045 using Biokit - Monogen latex method
Blood (EDTA)	Cell differential and morphology	Blood Film Differential by Manual Microscopy HAEMSOP10 HAEMSOP053 Using Wright's Giemsa BSSOP35



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Haematological Examination</u> <u>Activities for the Purpose of</u> <u>Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood (EDTA)	Malarial Parasite Screen for detection of: <i>Plasmodium falciparum</i> <i>Plasmodium ovale</i> <i>Plasmodium malariae</i> <i>Plasmodium vivax</i>	Humasis Malarial Screening Test using immunodiffusion HAEM60 DOC1397 manual method
Blood (EDTA)	Red Cell Folate	Beckman Coulter DXI using immunoassay DOC028 DOC507
Blood (EDTA)	Reticulocytes	Beckman Coulter DXI using Cell Volume, High Frequency Conductivity and Laser HAEMSOP013 HAEMSOP014 HAEMSOP015 DOC1036



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<p>HUMAN BODY FLUIDS (AS STATED) (cont'd)</p> <p>Blood (EDTA)</p> <p>Cord Blood</p>	<p><u>Blood Transfusion Testing for the purpose of clinical diagnosis</u></p> <p>Blood Grouping</p> <ul style="list-style-type: none"> • A B • Rhesus: C^w, C, c, D, E, e, Kell • Rhesus: C^w, C, c, D, E, e, K, k, • Kidd: Jk^a, Jk^b, • Duffy: Fy^a, Fy^b, • MNS: M, N, S, s, • A B • Rhesus: C^w, C, c, D, E, e • ABO • Jka, Jkb • Kell • M, N <p>Antibody detection</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Fully automated Ortho Autovue Innova Analyser (Column Agglutination) by Electronic detection of interface TR014, TR090, TR 069 and TR070</p> <p>Manual Innova gel cards macroscopic examination TR 014</p> <p>TR 024</p> <p>Manual procedures: by tube technology, macroscopic detection antigen /antibody reaction TR 046, TR014, TR090,</p> <p>Fully automated Ortho Autovue Innova analyser (Column Agglutination) by Electronic detection of interface using NBS panel, NBS enzyme panel and Enzyme panels of cells TR 05 TR 090</p>



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HUMAN BODY FLUIDS (AS STATED) (cont'd)	<u>Blood Transfusion Testing for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
Blood (EDTA)	Antibody Identification <ul style="list-style-type: none"> • AB • Rhesus: anti-C^w, anti-C, anti-c, anti-D, anti-E, anti-e, • Kell system: anti-K, anti-k, • Kidd: anti-Jk^a, anti-Jk^b, • Duffy: anti-Fy^a, anti-Fy^b, • MNS: anti-M, anti-N, anti-S, anti-s, 	Fully automated Ortho Autovue Innova analyser (Column Agglutination) by Electronic detection of interface TR 05, TR090 Manual Innova column agglutination- Macroscopic detection of agglutination TR 05, TR090
Blood (EDTA)	Compatibility testing of patient's plasma with donor cells	Manual serological crossmatch- detection of agglutination TR 026 Electronic Issue TR 036
Blood (EDTA)	Direct Anti Human Globulin	Ortho Autovue Innova Analyser TR 032
Blood (EDTA)	Kleihauer Test: detection of foetal cells in maternal blood	Manual acid elution method and with eosin counterstain and microscopy TR 055 TR055



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<p>HUMAN TISSUES</p> <p>Biopsy, Resection and Post Mortem Tissue, Formalin –Fixed and Fresh</p> <p>Formalin-fixed paraffin wax blocks of processed tissue</p> <p>Fresh frozen tissue</p>	<p><u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u></p> <p>Demonstration of General Tissue Architecture</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Sample Reception and Dissection HIST001 HIST003 HIST010 HIST05</p> <p>Tissue Processing Shandon Excelsior Tissue Processors HIST013 HIST014 HIST015</p> <p>Decalcification HIST038</p> <p>Tissue Embedding Leica Embedding Stations HIST010</p> <p>Tissue Sectioning Microtomes: Leica RM2135, RM2235, RM2255, RM3135 and Thermo Finesse HIST024 HIST025 HIST026</p> <p>Frozen Sections and manual H&E Staining Leica CM1950 Cryostat HIST011 HIST012 HIST0410</p>



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HUMAN TISSUES (cont'd)	<u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides	Demonstration of General Tissue Architecture	Haematoxylin & Eosin Staining Leica Autostainer ST5020 Leica Coverslipper CV5030 HIST028 HIST046 HIST0410
	Demonstration of:	Special Stain Manual Techniques:
	Carbohydrates	Alcian Blue Diastase PAS (ABDPAS) HIST032
	Carbohydrates	Alcian Blue PAS (ABPAS) HIST033
	Carbohydrates	Alcian Blue HIST034
	Amyloid	Congo Red HIST037
	Carbohydrates	Diastase PAS (DPAS) HIST039
	Elastic fibres	Elastic Van Gieson (EVG) HIST040
	<i>Helicobacter pylori</i>	Giemsa HIST042
	Gram positive and negative bacteria	Gram Stain HIST043
	Fungi	Grocott HIST045



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HUMAN TISSUES (cont'd)	<u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)	Demonstration of: (cont'd)	Special Stain Manual Techniques
	Melanin	Mallory's Bleach HIST049
	Melanin	Masson Fontana HIST050
	Connective Tissues	Masson Trichrome HIST0500
	Cell nuclei	Mayer's Haematoxylin HIST051
	Fibrin	MSB HIST052
	Hepatitis B viral inclusions	Orcein HIST054
	Carbohydrates	Period Acid- Schiff (PAS) HIST056
	Haemosiderin	Perl's Prussian Blue HIST057
	Reticulin Fibres	Reticulin- Gordon and Sweet's HIST059
	Mast Cells	Toluidine Blue HIST062
	Connective Tissues	Van Gieson HIST063



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HUMAN TISSUES (cont'd)	<u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)	Demonstration of: (cont'd)	Special Stain Manual Techniques
	Spirochetes	Warthin and Starry HIST065
	Acid- fast bacilli	Ziehl Neelsen HIST066
	Demonstration of:	Immunohistochemistry Dako Autostainer SOP DOC 1124 and Link 48 Deparaffinization and antigen retrieval using PT Links
	Cytokeratin	AE1/3
	Hepatocytes and germ cell tumours	AFP
	Mesothelioma	BerEP4
	Small cell lymphoma panel	BCL2
	Large cell lymphoma panel	BCL6
	GI Tumours/Pancreas	CA19.9
	Mesothelial and Lung tumours	Calretinin
	Small cell lymphoma panel	CD3
	T Cells	CD4
	Small cell lymphoma panel	CD5
	T Cells	CD8



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HUMAN TISSUES (cont'd)	<u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)	Demonstration of: (cont'd)	Immunohistochemistry Dako Autostainer SOP DOC 1124 and Link 48 Deparaffinization and antigen retrieval using PT Links
	Small cell lymphoma panel	CD10
	Small cell lymphoma panel	CD15
	Small cell lymphoma panel	CD20
	Small cell lymphoma panel	CD21
	Small cell lymphoma panel	CD23
	Large cell lymphoma panel	CD30
	Endothelial cells	CD31
	Vascular Epithelium	CD34
	Small cell lymphoma panel	CD43
	Neuroendocrine marker	CD56
	Macrophages	CD68
	Small cell lymphoma panel	CD79a
	Neuroectoderm tumours	CD99
	GIST	CD117
	Small cell lymphoma panel	CD138
	Colonic tumours	CDX2
	Epithelial tumours	CEA



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<p>HUMAN TISSUES (cont'd)</p> <p>FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)</p>	<p><u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)</p> <p>Demonstration of: (cont'd)</p> <p>Neuroendocrine marker</p> <p>Myoepithelial marker</p> <p>Lung panel</p> <p>Lung panel</p> <p>Prostate</p> <p>Small cell lymphoma panel and mantle cell tumours</p> <p>Smooth and striated muscle</p> <p>GIST</p> <p>Prognostic marker in breast carcinoma and non-small cell lung carcinoma</p> <p>Large cell lymphoma panel</p> <p>Breast tumours</p> <p>Breast</p> <p>Germ cell tumours</p> <p>Stomach</p> <p>Melanoma panel</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Immunohistochemistry (cont')</p> <p>Dako Autostainer SOP DOC 1124 and Link 48 Deparaffinization and antigen retrieval using PT Links</p> <p>Chromogranin</p> <p>Ck5/6</p> <p>Ck7</p> <p>Ck20</p> <p>CK34</p> <p>Cyclin D1</p> <p>Desmin</p> <p>DOG1</p> <p>ECAD</p> <p>EMA</p> <p>ER</p> <p>GCDFP</p> <p>HCG</p> <p>Helicobacter pylori</p> <p>HMB45</p>



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<p>HUMAN TISSUES (cont'd)</p> <p>FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)</p>	<p><u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)</p> <p>Demonstration of: (cont'd)</p> <p>Melanoma panel</p> <p>Sex cord stromal tumours</p> <p>Light chains</p> <p>Light chains</p> <p>Large cell lymphoma panel</p> <p>Melanoma panel</p> <p>Proliferating cells</p> <p>Cytokeratin</p> <p>Large cell lymphoma panel</p> <p>Cervical cancer</p> <p>Tumours of multiple cell linages</p> <p>Lung panel</p> <p>Germ cell tumours</p> <p>Thyroid and differential in ovarian tumours</p> <p>Lymphatic endothelium and mesothelial cells</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Immunohistochemistry Dako Autostainer SOP DOC 1124 and Link 48 Deparaffinization and antigen retrieval using PT Links</p> <p>HMB45</p> <p>Inhibin</p> <p>Kappa</p> <p>Lambda</p> <p>LCA</p> <p>MEL-A</p> <p>MIB-1</p> <p>MNF116</p> <p>MUM1</p> <p>P16</p> <p>P53</p> <p>P63</p> <p>PLAP</p> <p>PAX 8</p> <p>Podoplanin</p>



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HUMAN TISSUES (cont'd)	<u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions as specified:
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides (cont'd)	Demonstration of: (cont'd)	Immunohistochemistry Dako Autostainer SOP DOC 1124 and Link 48 Deparaffinization and antigen retrieval using PT Links
	Breast	PR
	Prostate	PSA
	Prostate	PsAP
	Melanoma panel	S100
	Smooth muscle	SMA
	Smooth muscle myosin	SMM
	Neuroendocrine	Synaptophysin
	Mesothelial panel	Thrombo
	Thyroid	TTF-1
	Thyroid	Thyroglobulin
	Mesenchymal cells	Vimentin
	Renal tumours, mesothelioma	WT1
FFPE Slides (Formalin-fixed paraffin embedded) tissue on glass slides from samples listed above	Morphological assessment and interpretation/ Diagnosis	Interpretative/ diagnostic microscopy CPMED010 CPMED047 QMS11 CPMED003 RCPath Guidelines



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<p>HUMAN TISSUES (cont'd)</p> <p>Head and neck Breast FNAs Body cavity fluids CSF Urine Bronchial washings/lavage Brushings- Bronchial/biliary Sputa TBNA/EBU</p>	<p><u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)</p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Demonstration of cells (nuclei and cytoplasm) and micro organisms</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Diagnostic cytology (non-gynae) in- house documented manual procedures for preparation, screening and reporting:</p> <p>CYT0195 Body Fluids Unfixed Specimens CYT0197 Specimens received in fixative DOC831 Preparing Cell blocks from Cytology Specimens CYT0200 Pre-cassetting small clots from Cytology Specimens for Histology</p> <p>Leica ST5020 – Stainer Leica CV 5030- Coverslipper CYT060 Rapi Diff II staining method for air-dried slides HIST028 Use of Stainer and Coverslipper HIST057 Perl's Prussian Blue</p>



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<p>HUMAN TISSUES (cont'd)</p> <p>Stained cytological preparations on glass slides from samples listed above</p>	<p><u>Histological/ Cytological Examination Activities for the Purpose of Clinical Diagnosis</u> (cont'd)</p> <p>Morphological assessment and interpretation/ Diagnosis</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified:</p> <p>Microscopes: Leica DM LB Leica DM LB DS Leica DM 2000 Leica DM 4000 Leitz Dialux 20 Leitz Laborlux 12 Leitz Laborlux K Nikon Eclipse 80i Nikon Eclipse E400 Olympus BX50 Olympus BX41TF QMS011 QMS Review and Reporting of Results PATH0321 reporting results-an overview of the process PATH0250 Meditech: Amending a report CPMED005 Consultants Report Entry Screen CPMED021 Private patient cytology result entry (consultants)(Histo) CPMED042 Report entry - technical staff(Histo)</p>
END		