Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

9844 **Accredited to ISO 15189:2022**	**York and Scarborough Teaching Hospitals NHS Foundation Trust** **Issue No:** 034 **Issue date:** 14 October 2026
Pathology Department **Pathology Building** **Hull Royal Infirmary** **Anlaby Road** **Hull** **HU3 2JZ**	**Contact: Dave Oglesby** **Tel: +44 (0)148 260 7722** **E-Mail: david.oglesby@nhs.net** **Website: www.hey.nhs.uk**

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Location details		Activity	Location code
Address	**Local contacts**		
Pathology Laboratory Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	Jennifer Williams Jennifer.williams69@nhs.net Jennifer Fulthorpe j.fullthorpe@nhs.net Carl Burkinshaw Carl.burkinshaw1@nhs.net Angela Carling angela.carling@nhs.net Mark Hajjawi mark.hajjawi@nhs.uk Lisa Mead: lisa.mead2@nhs.net	Haematology Blood Transfusion Automated Biochemistry Cellular Pathology Specialist Biochemistry and Immunology Microbiology and Virology	A
Address	**Local contact**		
Pathology Laboratory Castle Hill Laboratory Castle Hill Hospital Castle Road Cottingham HU16 5JQ	Jennifer Williams Jennifer.williams69@nhs.net Carl Burkinshaw Carl.burkinshaw1@nhs.net	Haematology Biochemistry	B

9844 Accredited to ISO 15189:2022	**Schedule of Accreditation** **issued by** **United Kingdom Accreditation Service** 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK **York and Scarborough Teaching Hospitals NHS Foundation Trust** **Issue No:** 034 **Issue date:** 14 October 2026

Testing performed by the Organisation at the locations specified

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Address Women's and Children's Hospital Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Women's and Children's blood fridge	A
Address Tower Block Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Tower Block blood fridge	A
Address A&E Resus Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of A&E Resus blood fridge	A
Address Queen's Centre Castle Hill Hospital Castle Road Cottingham HU16 5JQ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Blood storage issue only Management of CHH Day Unit blood fridge	B
Address Queen's Centre Castle Hill Hospital Castle Road Cottingham HU16 5JQ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Laboratory platelet incubator	B
Address Queen's Centre Castle Hill Hospital Castle Road Cottingham HU16 5JQ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of CHH Day Unit blood fridge	B

Address Cardiac Building Castle Hill Hospital Castle Road Cottingham HU16 5JQ	**Local contact** Amanda Burns Amanda.burns8@nhs.net Tel: 01482 607791	Blood storage & issue only Management of Cardiac Building blood fridge	B
Hospital Wards Hull Royal Infirmary Anlaby Road Hull HU3 2JZ	**Local contact** Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	C
Hospital Wards Castle Hill Hospital Castle Road Cottingham HU16 5JQ	**Local contact** Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	D
Adult outpatients Clinic East Riding Hospital Swinemoor Lane Beverley HU17 0FA	**Local contact** Alex Clubley alexandra.clubley@nhs.net Tel: 01482 607726	Point of Care Testing Clinical Chemistry	E

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Manufacturer's instructions and documented In-house methods using:	
Whole Blood: EDTA samples Red cells and plasma	Blood Grouping • A B O • Rhesus D status	Glass microbead column technology using Ortho Vision analysers SOP BT/SOP/HU-3 ABO / RhD Grouping and Antibody Screening Glass microbead column technology using manual Ortho BioVue methods	A
Plasma	Red cell Antibody Screening Antibodies of the following systems: • Rhesus • Kell • Duffy • Kidd • MNSs • P • Lutheran • Lewis	Glass microbead column technology using Ortho Vision analysers SOP BT/SOP/HU-3 ABO / RhD Grouping and Antibody Screening SOP BT/SOP/HU-5 Antibody Identification (Panels) Glass microbead column technology using manual Ortho BioVue methods SOP BT/SOP/HU-5 Antibody Identification (Panels) SOP BT/SOP/HU-3 ABO / RhD Grouping and Antibody Screening	
	Compatibility Testing • Manual testing of patient plasma and donor red blood cells.	Glass microbead column technology using manual OrthoBioVue. SOP BT/SOP/HU-20 Serological Crossmatch and Issue Procedure	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Blood Transfusion examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Red cells	Direct anti-globulin test	Glass microbead column technology using Ortho Vision analysers SOP BT/SOP/HU-6 Direct Antiglobulin Test (DAT) SOP BT/SOP/HU-3 ABO / RhD Grouping and Antibody Screening Glass microbead column technology using manual Ortho BioVue methods SOP BT/SOP/HU-6 Direct Antiglobulin Test (DAT)	A
Red cells	Rhesus phenotype and Kell type to include the specific antigens: D, C, c, E, e, K	Glass microbead column technology using: Ortho Vision analysers SOP BT/SOP/HU-7 Rh Phenotyping	
Red cells	Kleihauer test for estimation of foetal-maternal haemorrhage	Manual modified Kleihauer-Betke method. SOP BT/SOP/HU-9 Preparation and Staining of Kleihauer Slides SOP BT/SOP/HU-10 Kleihauer Reading / Reporting of Slides and Follow Up Testing	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>	Manufacturer's instructions and documented In-house methods using:	
Plasma (tri-sodium citrate)	Blood Coagulation	Sysmex Coagulation Auto Analyser	A
	Prothrombin time Activated partial Thromboplastin time using Actin FS, Actin FSL and Pathromtin Clauss Fibrinogen Thromboplastin time Fibrinogen Thrombin time INR for warfarin therapy APTT/APTR for Heparin monitoring	Optical clot detection SOP HA/SOP/HU-37 Routine Coagulation Tests	
	Reptilase time Mixing tests	SOP HA/SOP/HU-37 Routine Coagulation Tests Sysmex Coagulation CN6000 and CN3500	
Plasma (tri-sodium citrate)	D-Dimer	Immunoassay SOP HA/SOP/HU-37 Routine Coagulation Tests	
	Anti-Xa levels	Chromogenic detection SOP HA/SOP/HU-39 Biophen Heparin LRT LMWH Anti-Xa Assay	
	Factor's: VII IX XI XII V X II VIII	Clot based optical assay SOP HA/SOP/HU-40 Factor Assays	
	Lupus anticoagulant	Clot based optical assay SOP HA/SOP/HU-38 Lupus Anticoagulant Screening on the Sysmex CN Series Coagulometers	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Coagulation examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Plasma (tri-sodium citrate) (cont'd)	Von Willebrand factor antigen Von Willebrand factor activity	Latex base turbidometric assay SOP HA/SOP/HU-41 Von Willebrand Antigen and Activity Assay	A
	Inhibitor Screen and Bethesda Assay	Clot based Optical Detection and Chromogenic Assay SOP HA/SOP/HU-27 Screen for an Inhibitor of the Intrinsic Pathway SOP HA/SOP/HU-28 Bethesda Assay for an Inhibitor of the Intrinsic Pathway	
	Chromogenic Factor VIII	Chromogenic Assay SOP HA/SOP/HU-42 Chromogenic FVIII Assay (Human) SOP HA/SOP/HU-44 Chromogenic FVIII Assay (Bovine)	
	Direct oral anticoagulant assay (drug concentration level): Apixaban Rivaroxaban	Chromogenic assay Biophen LRT kit. SOP HA/SOP/HU-39	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Sysmex XN series (XN-9000 HRI and XN-3100 CHH)	
Whole blood in EDTA	Full Blood count: • Haemoglobin • Red Blood Cells • Platelet count • Haematocrit • Mean cell volume • Mean cell haemoglobin • Red cell distribution width • White cell count • White Cell Differential • Neutrophils • Lymphocytes • Monocytes • Eosinophils • Basophils Nucleated Red Blood Cells Fluorescent Platelet Count Reticulocyte count (including immature reticulocyte fraction and haemoglobin content)	HA/SOP/HU-61 Sysmex XN Series – Operation Procedures.	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Manufacturer's instructions and documented In-house methods using:	
	Identification of normal and abnormal morphologies including WBC differential count	Sysmex SP-50 automated slide preparation and manual microscopy May-grunwald Giemsa stain	A
		Manual slide preparation and manual microscopy – May-grunwald Giemsa stain SOP HA/SOP/HU-63 Routine Running of the Sysmex SP-50 Slide/Stain Maker SOP HA/SOP/HU-11 Manual Preparation of Blood Films SOP HA/SOP/HU-74 Routine Running and Maintenance of DI-60 Digital Morphology SOP HA/SOP/HU-54 Examination of Blood Films	A
	Malaria screening for: *P. falciparum* *P. vivax* *P. ovale* *P. malariae* *P. knowlesi*	Thick and thin films Giemsa stain and manual microscopy Apacor Care US Malaria Rapydtest kit SOP HA/SOP/HU-73 Rapid Diagnostic Test for Malaria	A
Whole blood in EDTA	Blood film morphology	DI-60 Digital morphology platform and Cellavision client software HA/SOP/HU-74 Routine Running and Maintenance of DI-60 Digital Morphology	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Whole blood in EDTA, serum, plasma	Detection of infectious mononucleosis heterophile antibodies	Clearview IM II test chromatographic immunoassay kit HA/SOP/HU-87 Infectious Mononucleosis Screening Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia (SCT) screening programme as defined in the 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory QA evidence requirements.'	A
Whole blood in EDTA	Antenatal Haemoglobinopathy screening: Detection of haemoglobin variants: HbA2 HbF HbS.	Automated HPLC using TOSOH G11 HA/SOP/HU-34 Routine Use of the HPLC Analyser Used for Haemoglobinopathy and HbA1c Testing	A
Whole blood in EDTA	Quantitation of HbA2, HbF levels and determine the presence of variant haemoglobins		
Whole Blood EDTA	Quantitative testing for glycated haemoglobin A (HbA1c)	TOSOH G11 HPLC Ionic strength elution using non-porous cationic exchange column HA/SOP/HU-34 Routine Use of the HPLC Analyser Used for Haemoglobinopathy and HbA1c Testing	A
Whole blood in EDTA	Identification of presence of sickling haemoglobin variant	SICKLEDEX reagent and Sickle-Chex controls, tube-based oxygen reduction turbidity test HA/SOP/HU-78 SICKLEDEX Sickle Solubility	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Whole blood in EDTA	Determine the presence of variant haemoglobins – HbA, HbF, HbS, HbC	Sebia HYDRASYS 2 using acid and alkaline gel electrophoresis, migration and staining HA/SOP/HU-88 Gel Electrophoresis for Haemoglobinopathies	A
Whole blood in EDTA	Detection of G6PD	Visual qualitative fluorescence using Trinity Biotech G-6-PDH Deficiency kit SOP HA/SOP/HU-83 G6PD Screening Test	
	Biochemistry examination activities for the purposes of clinical diagnosis	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
	Quantitative determination of:	Kinetic UV Colorimetric	
Serum/plasma	ALT(IFCC)	SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22	A, B
	ALP(IFCC)	SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	
	AST CK NAC Ethanol Glucose hexokinase LDH (L-P) IFCC		
Serum/plasma/urine	Urea STAT		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
CSF/Urine Serum/plasma	UALB Albumin in CSF and Urine B2 Microglobulin C3/C4 Complement C-Reactive Protein IgA IgG IgM Rheumatoid Factor Transferrin Vancomycin	Immunoturbidimetric	A, B
Serum/Plasma	Quantitative determination of:	BCP Dye-Binding Colorimetric	
	Albumin BCP	SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22 SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	A, B
Serum/plasma/urine/ Serum/plasma	Alpha-amylase Gamma- Glutamyltransferase Total Bile Acids	Kinetic Colorimetric	A
Plasma	Ammonia (GLDH)	Direct enzymatic SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Urine		SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22	
	Benzodiazepines	Enzyme immunoassay	
Serum/plasma	Carbamazepine		
Urine			
Serum/plasma	Phenobarbital Phenytoin Gentamicin Methotrexate	CB/SOP/HU-9 Methotrexate using the AU5800	
Urine	THC Cannabis		
Serum/plasma	Theophylline Valproic Acid		
Serum/plasma		SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22 SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	A
	Bicarbonate	Enzymatic	
Serum/plasma	Cholesterol (CHOD-PAP)		A, B
Serum/plasma/urine	Creatinine enzymatic		
Serum/plasma	Fructosamine	CB/SOP/HU-34 Fructosamine on the AU5800	A
	HDL -Cholesterol Lactate Salicylate Acid		
Serum/plasma	Triglyceride		
Serum/plasma/urine	Uric Acid		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum/plasma/urine	Calcium (Arsenazo)	Photometric /colorimetric SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22 SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	A, B
Serum/plasma	Direct Bilirubin Inorganic phosphate Iron (TPTZ) Lithium Magnesium		A
Serum/plasma	Total Protein		
Urine/CSF	Protein		
Serum/plasma/urine	Chloride	Indirect ISE SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22 SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	A, B
	Potassium Sodium		
Serum/plasma	Digoxin	Immuno-inhibition SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11	A
Serum/plasma	Total Bilirubin	Colorimetric SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22 SOP CB/SOP/HU-69 Beckman Coulter AU 680 Daily Maintenance Guide	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for analysis using Beckman AU5800 (HRI) and Beckman AU 680 (CHH)	
Serum	Paracetamol	Enzyme immunoassay SOP CB/SOP/HU-1 Daily Operational Procedure for AU5800 11 and AU5800 22	A
	Tobramycin	Beckman UniCel DXi 800 (Magnetic particle based Chemiluminescence) SOP CB/SOP/HU-22 DxI Operation Protocol	
	TSH FT4 FT3 Anti TPO Cortisol FSH/LH Prolactin Progesterone Oestradiol Testosterone DHEA AFP CA125 CA153 CA199 CEA PSA HCG B12 Folate Ferritin		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	
		Roche Cobas e411(Magnetic particle based Chemiluminescence)	A
Serum/plasma	ACTH	SOP CB/SOP/HU-24 e411 Operation Protocol	
	Trop T (high sensitivity) Pro BNP P1NP		
Serum	sFLT PIGF		
	SFLT/PIGF ratio	Calculated test	
	Human growth hormone (Hgh) IGFBP-3 IGF-1	IDS-isys (Magnetic particle based Chemiluminescence) SOP CB/SOP/HU-81 IDS iSYS Operation	
Faeces	Calprotectin	Phadia Unicap 250 (Antibody/Antigen onto solid phase) CB/SOP/HU-75 Calprotectin on the Phadia 250	
Serum/plasma	Vitamin A	Waters HPLC (High Pressure Liquid Chromatography) SOP CB/SOP/HU-102 Analysis of Vitamins A and E by Waters HPLC	
	Vitamin E		
		Beckman DXI 800 – Immunoenzymatic assay	A
Serum/Plasma	25(OH) Vitamin D	CB/SOP/HU-22	
Serum/Plasma	Procalcitonin	CB/SOP/HU-22	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	
		Waters Acquity Tandem Quadruple TQD (Tandem Mass Spectrophotometry)	A
Urine	Toxicology Confirmation of the following: Morphine 6-Monoacetylmorphine Morphine Glucuronide Codeine Dihydrocodeine Acetyl codeine Amphetamine Methamphetamine Methylenedioxymetamfetamine (MDMA) Methylenedioxyamfetamine (MDA) Cocaine metabolite (benzoylecgonine) Pholcodine Oxycodone Tramadol Meconin Methadone Methadone metabolite (EDDP)	SOP CB/SOP/HU-84 Analysis of drugs of abuse	
	Buprenorphine/ Norbuprenorphine	SOP CB/SOP/HU-88 Urine Buprenorphine analysis using LC-MS/MS	
	Cortisol	SOP CB/SOP/HU-91 SOP - Urine Cortisol by LC/MS/MS	
	Drug Screening (Chromalynx)	SOP CB/SOP/HU-87 Systematic Toxicological Analysis Using LC/MS and ChromaLynx	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using: Northstar BIO-UV **(**Spectrophotometry)	
CSF	Xanthochromia	SOP CB/SOP/HU-163 Assessment of CSF Xanthochromia by Spectrophotometric Scanning Advanced Instrument Osmometer 3320 (freezing point osmometry)	
Serum/plasma/urine	Osmolality	BI/M/002	
Sweat	Sweat collection	EliTechGroupMacroduct 3710SYS CB/SOP/HU-125	A
Sweat	Chloride	ELITechGroup ChloroChek Sweat Chloride analyser Model 3400 CB/SOP/HU-125	A
Faeces	Faecal Immunochemical Testing (FIT) for symptomatic testing	HM-JACKarc SOP CB/SOP/HU-73 HM-JACKarc standard operating procedure - latex turbidometry	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activates for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	
		Manual test: Colorimetric	A
Urine	Urine oxalate	SOP CB/SOP/HU-122 Urine Oxalate	
	Paraquat	SOP CB/SOP/HU-121 Qualitative Test for Paraquat in Urine	
		kit	
	Calculated Tests (data from primary tests, primary test sample requirements listed under that test)		
Urine	24hr Urine Calcium	SOP CB/SOP/HU-40 Blood Sciences Offline Calculated Tests	
Urine	24hr Urine Creatinine		
Urine	24hr Urine Phosphate		
Urine	24hr Urine Potassium		
Urine	24hr Urine Sodium		
Urine	24hr Urine Uric Acid		
Urine	Albumin: Creatinine Ratio		
Urine	Protein: Creatinine Ratio		
Serum	Calcium, adjusted		
Urine	Calcium: Creatinine Excretion Ratio		
Urine	Calcium: Creatinine Ratio		
Serum and urine	Creatinine Clearance (L/24hr)		
Serum and urine	Creatinine Clearance (mL/min)		
Serum	eGFR (CKD-EPI)		
Serum	Non-HDL Cholesterol		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activates for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	
	Calculated Tests (data from primary tests, primary test sample requirements listed under that test)		A
Serum	LDL-Cholesterol		
Urine	Protein:Creatinine Ratio		
Serum	Free androgen index		
Serum	AKI		
Serum	Globulins		
Serum and urine	Renal tubular absorption of phosphate (TmP/GFR)		
Urine	24hr Urine Uric Acid		
	<u>Provision of Point of Care testing</u>		
Whole blood	Glucose	Roche Accuchek Inform II glucose dehydrogenase method SOP PC/SOP/HU-26 Roche Inform II Glucose Meter Standard Operating Procedure	A - E

(See Appendix 1 for details of accredited examinations at location types)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES	<u>Histopathology & Neuropathology</u>	Documented in house methods and manufacturer's instructions for analysis using:	
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	Routine Histopathology & Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis	Macroscopic and Microscopic examination: SOP CP/SOP/HU-123 Specimen Dissection and Processing and as appropriate to specimen type CP/INF/HU-76 Specimen Codes and Points: General specimens Cardiothoracic GIT and Liver Gynaecological Head and Neck Skin Soft Tissue and Bone Urology Breast Central and peripheral nervous system Ophthalmic <u>Specimen dissection & tissue processing</u> Documented in-house procedure SOP CP/SOP/HU-123 Specimen Dissection and Processing in conjunction with manufacturer's instructions for Peloris III & Leica ASP 300 tissue processors <u>Tissue Embedding</u> Documented in-house procedure SOP CP/SOP/HU-112 Tissue Embedding in conjunction with manufacturer's instructions for Leica EG1160s,	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES (cont'd)	Histopathology & Neuropathology (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	
Fixed, fresh and frozen tissue, excisional and incisional biopsies and surgical resection specimens	Routine Histopathology & Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis	Tissue Sectioning Documented in-house procedure SOP CP/SOP/HU-113 Microtomy .. Sections are produced on microtomes; Leica RM2235, Leica RM2135 and Leica Histocore Biocut.	A
DIF: Skin, renal and buccal mucosa biopsy	**IgA, IgG, IgM, C3, C1q, kappa, lambda, C4d and fibrin.**	Direct immunofluorescence SOP CP/SOP/HU-17 Direct Immunofluorescence Technique (DIF) SOP CP/SOP/HU-17 DIF Antibody Dilutions	
Frozen sections Intra-operatives: Central and peripheral nervous system.	Diagnostic Frozen sections and Intra-operatives – frozen / smears	SOP CP/SOP/HU-13 Preparation of Intra-Operative Smears SOP CP/SOP/HU-10 Frozen Section Procedure Documented in-house procedure SOP CP/SOP/HU-9 (special techniques) in conjunction with manufacturer's instructions for the Leica cryostat CM1900 and CM1850 SOP CP/SOP/HU-10 Frozen Section Procedure CP/SOP/HU-13 Preparation of Intra-operative Smears Staining Automated Routine Stains	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES (cont'd) Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	Routine Histopathology & Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis	Documented in-house procedure SOP CP/SOP/HU-114 Routine Staining in conjunction with manufacturer's instructions for &	
	Nuclei and other cellular components	Haematoxylin & Eosin CP/SOP/HU-11 Rapid Haematoxylin and Eosin for Frozen Sections & CP/SOP/HU-92 Haematoxylin and Eosin manual and CP/SOP/HU-114 Routine Staining automated	A
		Manual Special Stains: Documented in-house procedure SOP CP/SOP/HU-83 Special Staining.	
	Acid mucins, elastic fibres & connective tissue	Alcian Blue EVG (Millers) CP/SOP/HU-87	
	Acid and neutral mucins	Alcian Blue PAS & Diastase CP/SOP/HU-85	
	Acid mucopolysaccharides	Alcian Blue pH 2.5 CP/SOP/HU-86	
	Amyloid	Congo Red CP/SOP/HU-69	
	Elastic fibres	Elastic van Gieson (Millers) CP/SOP/HU-88	
	Protozoans	Giemsa CP/SOP/HU-89	
	Gram +/- organisms	Gram CP/SOP/HU-90	
	Fungi	Grocott Gomori CP/SOP/HU-91	
	Haemosiderin	Iron (Perls Prussian Blue) CP/SOP/HU-93	
	Basement membrane	Jones Methenamine Silver CP/SOP/HU-94	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES (cont'd) Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	Routine Histopathology & Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	A
	Nuclei and other cellular components (cont'd)	Haematoxylin & Eosin CP/SOP/HU-11 Rapid Haematoxylin and Eosin for Frozen Sections & CP/SOP/HU-92 Haematoxylin and Eosin manual and CP/SOP/HU-114 Routine Staining automated	
	Melanin	Masson-Hamperl CP/SOP/HU-95	
	Connective tissue	Masson's Trichrome CP/SOP/HU-96	
	Melanin	Melanin Bleach CP/SOP/HU-97	
	Fibrin	MSB CP/SOP/HU-99	
	Hepatitis B and copper – associated protein	Orcein (Shikata's) CP/SOP/HU-100	
	PAS +ve substances e.g.: glycogen (and cells of pituitary) and fungi	Periodic Acid Schiff, CP/SOP/HU-101	
	Reticulin fibres	Reticulin (Gordon and Sweet) CP/SOP/HU-102	
	Amyloid	Sirius Red CP/SOP/HU-103	
	Metachromatic substances	Toluidine blue CP/SOP/HU-104	
	Connective tissue	Van Gieson CP/SOP/HU-105	
	Calcium	Von Kossa CP/SOP/HU-106	
	Spirochetes	Warthin Starry CP/SOP/HU-107	
	Tubercle bacilli (TB)	Ziehl – Neelsen CP/SOP/HU-109	
	Mycobacterium leprae bacilli	Wade fite modified ZN CP/SOP/HU-108	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES (cont'd) Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	Routine Histopathology & Neuropathology examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for analysis using:	A
Human Body Tissue Samples	Molecular Diagnostic examination activities: Examination of tissues to identify or exclude mutations within DNA for the purpose of clinical diagnosis, prognosis and treatment options. NRAS/BRAF KRAS EGFR BRAF	Documented in-house procedure SOP CP/SOP/HU-32 Molecular Diagnostics over-arching SOP in conjunction with manufacturer's instructions for Biocartis Idylla Molecular platform and test cartridges.	
HUMAN BODY TISSUE SAMPLES & cell blocks	Immunocytochemistry**:** Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis ACTH secreting cells - pituitary Smooth muscle actin Epithelial cells Foetal liver cells	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for & Dako Omnis immunocytochemistry stainers and using antibodies: ACTH ACTIN AE1/3 AFP	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry: (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for & Dako Omnis immunocytochemistry stainers and using antibodies:	A
	HGPIN, prostate adenocarcinoma	AMACR	
	Astrocytoma identification	ATRX	
	Scattered T cells in germinal centres and mantle zone B cells	BCL-2	
	Epithelial cells of the colon	BEP4	
	Luminal cells of fallopian tube	CA125	
	Parafollicular C cells of the thyroid	CALCITONIN	
	Smooth muscle of blood vessels and of bowel wall	CALDESMON	
	Peripheral nerve ganglion	CALRETININ	
	Epithelial cells of the colon		
	All germinal centre cells of tonsil	CD10	
	Langerhans Cell in skin	CD1A	
	Germinal mantle zone B lymphocytes	CD20	
	Activated lymphocytes and plasma cells. RS cells in Hodgkins's lymphoma	CD30	
	Endothelial cells, activated B & T lymphocytes	CD31	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry**:** (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for & Dako Omnis immunocytochemistry stainers and using antibodies:	A
	Endothelial cells	CD34	
	T lymphocytes	CD3	
	All leucocytes	CD45	
	Peripheral nerves	CD56	
	Macrophages	CD68	
	Mantle zone B cells, germinal centre B cells, plasma cells	CD79	
	T cells, cytotoxic suppressor cells	CD8	
	Endothelial cells	CD99	
	Normal and neoplastic plasma cells, epithelium cells	CD138	
	Adenocarcinoma and carcinoid (intestinal epithelium).	CDX-2	
	CEA glycoproteins in adenocarcinoma	CEA	
	Islets of Langerhan cells of the pancreas	CHROMOAGRANIN	
	Squamous epithelium	CK 14	
	epithelial	CK19	
	Umbrella cells of ureter	CK20	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry: (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for & Dako Omnis immunocytochemistry stainers and using antibodies:	A
	Squamous epithelium	CK34BE12	
	Squamous epithelium	CK5/6	
	Transitional epithelium of ureter	CK7	
	Mast cells, GIST	CKIT	
	Epithelial cells	CKPAN	
	Cytomegalovirus infected cells	CMV	
	Smooth & striated muscle cells	DESM	
	Gastrointestinal stromal tumours	DOG1	
	Epstein Barr virus infected cells	EBV	
	Epithelial cell membranes	E-CAD	
	Epithelial cells of the kidney	EMA	
	FSH secreting cells of the pituitary	FSH	
	G - cells of stomach	GASTRIN	
	Bladder cancers, breast cancer	GATA3	
	Epithelial cells of sweat glands	GCDF	
	Astrocytes	GFAP	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry**:** (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:	A
	GH secreting cells of pituitary	GH	
	hepatocytes	HSA	
	Trophoblasts of placenta, secreting HCG	HCG	
	Melanoma cells	HMB45	
	H-pylori bacterium	HPYL	
	Oligo dentroglioma	IDH-1	
	Leydig and Steroli cells in testis	INHIBIN	
	Insulin secreting cells in pancreas	INSULIN	
	Proliferating cells in germinal centre B cells	Ki67	
	LH secreting cells in pituitary	LH	
	Dendrites and perikaya of neurons	Map-2	
	Melanocytes	MELAN A	
	Mesothelial cells, some epithelial cells of tonsil	MESOTHELIN	
	Mismatch repair protein MLH1	MLH1	
	Mismatch repair protein MSH2	MSH2	
	Mismatch repair proteinMSH6	MSH6	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry: (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:	A
	Small muscle myosin	MYOSIN	
	Alveolar macrophages, pneumocytes, lung adenocarcinoma	Napsin-A	
	Neurons	NFP	
	Neuroendocrine & neuronal cells	NSE	
	Embryonic cells and germ cell tumours	OCT3/4	
	Cervical intraepithelial neoplasia	P16	
	Squamous cell carcinoma	P40	
	Colon adenocarcinoma	P53	
	Squamous epithelium	P63	
	Tumour types including thyroid, renal cell and ovarian serous carcinomas	PAX-8	
	PD-L1 protein expression	PDL1	
	Pituitary marker somatotroph cell adenoma	PIT-1	
	Tropoblasts of placenta	PLAP	
	Mismatch repair protein PMS2	PMS2	
	Polyoma virus	POLV	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry: (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:	A
	PRL secreting cells of pituitary	Prl	
	Epithelial cells of proximal tubules of kidney	RCC	
	Schwann cell, adipocytes, cartilage	S100	
	Pituitary marker gonadotroph cell adenoma	SF-1	
	Islets of Langerhans cells of pancreas	SYNAPTOPHYSIN	
	Follicular epithelial cells of thyroid	TYHROGLOBULIN	
	TSH secreting cells of the pituitary	TSH	
	Pituitary marker corticotroph cell adenoma	T-PIT	
	Follicular epithelial cells of thyroid, Type II pneumocytes i.e.; smooth muscle, endothelium, lymphocytes	TTF1	
	Cells of mesenchymal origin	Vimentin	
	Mesenchymal cells	WT1	
	Prostatic epithelium used for Prostatic adenocarcinoma	NKX3.1	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry**:** (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd)	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for Dako Omnis immunocytochemistry stainers and using antibodies:	A
	Diagnosis and classification of benign prostate lesions, prostate adenocarcinomas and high-grade intraepithelial neoplasia	Dual Staining (AMACR/P63)	
	Used in the diagnosis of HCC, Hepatoblastoma, melanoma, testicular germ cell tumours and Wilms' tumour	Glypican-3	
	Nuclear staining significant in fibroblasts, nuclear staining is significant in epithelial cells, used in various carcinoma	Bata Catenin	
	Melanoma marker including spindle cell and desmoplastic subtypes	SOX-10	
	Present in Lymphatic endothelium and other cells used to aid the identification of lymphovascular space invasion	D240	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES & cell blocks (cont'd)	Immunocytochemistry: (cont'd) Immunocytochemistry examination activities: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis (cont'd) Breast carcinoma Breast cancer and normal gland Breast cancer ALK positive non-small cell lung carcinomas	Documented in-house procedure SOP CP/SOP/HU-45 Immunocytochemistry Over-arching SOP in conjunction with manufacturer's instructions for Ventana Ultra immunocytochemistry stainers and using antibodies: HER 2 OEST PROG ALK	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE SAMPLES, fine needle aspirates & brushings Including Urine, nipple discharge, cyst fluid, skin scrapings, synovial fluid, CSF, sputum, bronchial washings / brushings, pleural fluid, peritoneal ascites, pericardial fluid, FNA solid organ, Endoscopic USScan guided FNA and USScan guided transbronchial FNA	<u>Non-gynaecological cytology examination activities</u>: Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis Basic cellular components on fixed preparations and air-dried preparations (HG)	<u>Sample preparation, processing & routine staining</u> Documented in-house procedure SOP CP/SOP/HU-70 Preparation of diagnostic cytology specimens in conjunction with manufacturer's instructions for Hologic T2000 using: Papanicolaou stain CP/SOP/HU-81 Cytology Staining Procedures Hema- Gurr (HG) rapid stain CP/SOP/HU-81 Cytology Staining Procedures <u>Interpretive Microscopy</u> Leica Microscope Nikon Microscope Olympus Microscope CP/INF/HU-76 Specimen Codes and Points and as appropriate to specimen type	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Immunological examinations for the purpose of clinical diagnosis</u> <u>Autoimmune Disease Testing</u>		A
Serum	Liver, kidney, stomach & nuclear/cytoplasmic specific antibodies (IgG). Anti-Neutrophil cytoplasmic antibodies (IgG) Endomysial antibodies (IgA & IgG) Skin (IgG) Antibodies	Manual slide preparation or Automated slide preparation in conjunction with manufacturer's instructions using: Indirect immunofluorescence microscopy using the following SOPs: IM/SOP/SHY-14 LKS Screen Indirect Immunofluorescence Manual Set Up and Reading IM/SOP/SHY-11 ANCA by Indirect Immunofluorescence Manual Set Up and Reading IM/SOP/SHY-13 Endomysial Antibodies by Indirect Immunofluorescence Manual Set Up and Reading IM/SOP/SHY-15 Skin Autoantibodies by Indirect Immunofluorescence Manual Method IM/SOP/SHY-18 Maintenance and use of Werfen Quantalyser 3000	
Serum	Crithidia (IgG) Antibodies	Manual slide preparation followed by indirect immunofluorescence microscopy using the following SOP: IM/SOP/SHY-47 Crithidia Indirect Immunofluorescence Manual Set Up	
Serum	Cyclic Citrullinated Peptide antibodies CCP (IgG)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/SOP/SHY-17 Operation and Maintenance of Werfen BioFlash	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd) Autoimmune Disease Testing (cont'd)		A
Serum	Coeliac Screen: Tissue transglutaminase Ab tTG (IgA) IgG Tissue transglutaminase tTG (IgG)	Werfen Aptiva using particle-based multi-analyte technology (PMAT) SOP IM/A/036 Operation and Maintenance of the Aptiva	
Serum	Vasculitis Screen (IgG): Glomerular basement protein Ab (GBM) Proteinase 3 Ab (PR3) Myeloperoxidase Ab (MPO)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/SOP/SHY-17 Operation and Maintenance of Werfen BioFlash	
Serum	Antiphospholipid screen (IgG): Cardiolipin Ab Beta-2-glycoprotein I Ab (B2GP)	Werfen Bioflash using a chemiluminescent immunoassay SOP IM/SOP/SHY-17 Operation and Maintenance of Werfen BioFlash	
Serum	Antinuclear antibodies (IgG): Double stranded DNA Ro52 Ro60 La SmRNP Sm Ribosomal P Scl-70 Centromere B Jo-1	Werfen Aptiva using particle-based multi-analyte technology (PMAT) SOP IM/SOP/SHY-19 Operation and Maintenance of the Aptiva	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd) Autoimmune Disease Testing (cont'd)		A
Serum	Intrinsic factor antibodies	Competitive inhibition immunoenzymatic assay in conjunction with manufacturer's instructions using Beckman DXi and using in-house procedures: CB/IFU/HU-65 IFU - Reagent - Intrinsic Factor Antibody IFAb CB/SOP/HU-22 DxI Operation Protocol	
Serum	Thyroid peroxidase antibodies	Immunoenzymatic sandwich assay in conjunction with manufacturer's instruction using DXi and in-house procedures CB/SOP/HU-22 DxI Operation Protocol CB/IFU/HU-60 IFU - Reagent - TPO Antibody	
Serum	Extractable Nuclear Antigens (IgG): Ro La Sm SmRNP Jo-1 Scl-70	EuroImmun EuroblotOne Immunoblot SOP- IM/SOP/SHY-49 Use & Maintenance of Euroblotone for ENA, Liver & Myositis Profiles	
Serum	Liver antibodies (IgG): Anti-M2 M2-3E LKM 1 SLA/LP LC-1 Sp 100 gp 210 PML F-Actin Ro-52	EuroImmun EuroblotOne Immunoblot SOP- IM/SOP/SHY-49 Use & Maintenance of Euroblotone for ENA, Liver & Myositis Profiles	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd) Autoimmune Disease Testing (cont'd)		A
Serum	Myositis associated antibodies (IgG): Mi-2 α Mi-2 β TIF1γ MDA5 NXP2 SAE1 Ku PM-Scl100 PM-Scl75 Jo-1 SRP PL-7 PL-12 EJ OJ Ro-52 Zo Ks Ha cN-1A	EuroImmun EuroblotOne Immunoblot SOP- IM/SOP/SHY-49 Use & Maintenance of Euroblotone for ENA, Liver & Myositis Profiles	
	Immunochemistry		
Serum	Detection and immunotyping of monoclonal paraproteins	Sebia Capillarys Octa 3 using capillary zonal electrophoresis and immunosubtraction SOP IM/SOP/SHY-28 Operation of the Sebia Capillarys 3	
Serum/Urine	Detection and immunotyping of monoclonal paraproteins	Sebia Hydrasys using gel electrophoresis and immunofixation SOP IM/SOP/SHY-27 Operation of Sebia Hydrasys 2	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd) Immunochemistry (cont'd)		A
Serum	Cryoglobulins	Visual inspection, Sebia Capillarys Octa 3 using capillary zonal electrophoresis and Sebia Hydrasys gel immunofixation SOP IM/SOP/SHY-22 Cryoglobulin, detection and characterisation	
Serum	Serum free light chains: Free lambda Free kappa C1 Inhibitor antigenic assay Sensitive IgA	Turbidimetry using in-house procedures and in conjunction with manufacturer's instructions using: Optilite SOP IM/SOP/SHY-25 Use and Maintenance of the Optilite	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Immunodeficiency		
Whole blood EDTA		Flow cytometry using in-house procedures I in conjunction with manufacturer's instructions using: Beckman Coulter Navios Flow Cytometer & Beckman Coulter Reagents	
Whole blood EDTA	Lymphocyte Subset Counts: CD45/CD3 CD45/CD3/CD4 CD45/CD3/CD8 CD45/CD19 CD45/CD56/16 CD45/CD3/CD56/16 CD45/CD3/CD4/CD8/TCR alpha-beta CD45/CD3/CD4/CD8/TCR gamma-delta	IM/C/014	
	T-cell Receptor CD45/CD19/CD27-/IgD+ CD45/CD19/CD27-/IgD+ CD45/CD3/CD8	IM/SOP/SHY-3 T -Cell Receptor Assay SOP	
	B Cell Subset Phenotyping CD45/CD19/CD27-/IgD+ CD45/CD19/CD27+/IgD+ CD45/CD19/CD27+/IgD- CD45/CD19/CD27+/IgD-	IM/SOP/SHY-2 Lymphocyte B Cell Subset Assay SOP	
	HLA-B27 Typing	IM/SOP/SHY-4 HLA-B27 Assay SOP	
	CD34+ Stem Cell Enumeration	IM/SOP/SHY-5 CD34 Assay SOP	
	T-SPOT Interferon Gamma Release Assay	IM/SOP/SHY-6 T-Spot IGRA Assay SOP	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)	Enzyme Linked Immunosorbent Assay (ELISA) using Werfen DYNEX DS2 Automated Platform Enzyme Linked Immunosorbent Assay (ELISA) using Werfen DYNEX DS2 Automated Platform	A
Serum	Functional Antibody Studies: Pneumococcal IgG Antibodies Haemophilus B IgG Antibodies Tetanus IgG Antibodies	Functional Antibody Studies (PCP, HIB, TET) – SOP: IM/A/038	
Serum	Functional C1 Esterase Inhibitor Assay	Functional C1 Inhibitor – SOP:IM/M/033	
Serum	Infliximab Assays: Infliximab Drug Level Infliximab Neutralising Antibodies	Infliximab SOP: IM/SOP/SHY-54	
Serum	Antinuclear Antibodies on Hep-2 Cells	Indirect Immunofluorescence autoantibody screening using Werfen QUANTA-Lyser 3000 automated slide processor and Nova View automated microscope. SOP IM/SOP/SHY-18	
Serum	IgA Endomysial Antibodies & IgG Endomysial Antibodies on Monkey Oesophagus Tissue		
Serum	Skin Autoantibodies on Monkey Oesophagus Tissue		
Serum	Liver Kidney Stomach Antibodies on Rat Tissue		
Serum	Antineutrophil Cytoplasmic Antibodies (ANCA) on human peripheral neutrophils		
Serum	Double stranded DNA antibodies on Crithidia Lucilliae cells.		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd) Immunodeficiency (cont'd)		A
Serum	Total Immunoglobulin E (IgE): Sp. IgE Tryptase PR3/MPO/GBM antibodies (IgG)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase CB/SOP/HU-74 Vasculitis Testing on the Phadia 250	
Serum	Detection and quantification of specific IgE to the following allergens: Timothy grass Bermuda grass Ragweed Mugwort Wall pellitory Plantain Saltwort Birch Cypress Olive Saltwort Birch *Alternaria alternata* *Aspergillus fumigatus* Aspergillus oryzae Dog Cow Cat Horse House dust mite Honeybee venom Common wasp venom Paper wasp venom Latex Pineapple		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Papaya Egg Maxatase Savinase Pig pepsin Kiwi Cashew nut Celery Peanut Brazil nut Milk Hazel nut Carp Cod Soy Glycinin Walnut Apple Shrimp Peach Wheat Bovin thyroglobulin Bahia grass Barley Brome grass Canary grass Cocksfoot Common reed Cultivated oat Cultivated rye Cultivated wheat False oat grass Johnson grass Maize corn		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Meadow fescue Meadow grass Rye grass Salt grass Velvet grass Sweet vernal grass Wild rye grass Alfafa Camomile Careless weed Cocklebur Common ragweed Dandelion Dog fennel False ragweed Firebush Giant ragweed Goldenrod Goosefoot Japanese hop Lupin Marguerite Mugwort Nettle Plantain Rape Rough marshelder Saltwort Scale Sheep sorrel Sugar beet Sunflower wall pellitory Western ragweed		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Wormwood Yellow dock Acacia American beech Austaralin pine Blad cypress Bayberry Box elder Cedar Cedar elm Chestnut Common silver birch Cotton wood Cypress Date Douglas fir Elder Elm Eucalyptus European ash Grey alder Hackberry Hazel Horn beam Horse chestnut Italian/Mediterranean/Funeral cypress Japanese cedar Linden Maple leaf sycamore Melaleuca Mesquite Mountain juniper Mulberry		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Oak Oil Palm Paloverde Pecan, Peppertree Pine Privet Queen palm Red cedar Red mulberry Russian olive Scotch broom Spruce Sweet gum Walnut White ash White hickory White pine Willow Virginia live oak Acremonium kiliense Alternaria alternata Aspergillus flavus Aspergillus fumigatus Aspergillus niger Aspergillus terreus Aureobasidium pullulans Botrytis cinerea Candida albicans Chaetomium globosum Cladosporium herbarum Curvularia lunata Epicoccum purpurascens Fusarium proliferatum		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Setomelanomma rostrata Malassezia spp. Mucor racemosus Penicillium chrysogenum Penicillium glabrum Phoma betae Pityrosporum orbiculare Rhizopus nigricans Staphylococcal enterotoxin A Staphylococcal enterotoxin B Staphylococcal enterotoxin C Staphylococcal enterotoxin TSST Stemphylium herbarum Tilletia tritici Trichoderma viride Trichophyton mentagrophytes var. goetzii Trichophyton mentagrophytes var. interdigitale Trichophyton rubrum Trichosporon pullulans Ulocladium chartarum Budgerigar droppings Budgerigar feathers Canary bird droppings Canary bird feathers Cat dander Chicken droppings Chicken feathers Chicken, serum proteins Chinchilla epithelium Cow dander Deer epithelium		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Dog dander Duck feathers Ferret epithelium Ferret epithelium Finch feathers Fox epithelium Gerbil epithelium Goat epithelium Goose feathers Guinea pig epithelium Hamster epithelium Horse dander Horse, serum proteins Mink epithelium Mouse epithelium Mouse epithelium, serum proteins and urine proteins Mouse serum proteins Mouse urine proteins Parakeet droppings Parakeet feathers Parakeet serum Parrot feathers Pigeon feathers Rabbit epithelium Rabbit, serum proteins Rabbit, urine proteins Rat epithelium Rat epithelium, serum proteins and urine proteins Rat serum proteins Rat urine proteins Reindeer epithelium		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Rat epithelium, serum proteins and urine proteins Rat serum proteins Sheep epithelium Swine epithelium Turkey feathers Storage mite House dust mite Berlin beetle Blood worm Cockroach Fire ant Grain weevil Green nimitti Horse fly Mediterranean flour moth Moth Bumble bee venom European paper wasp White faced hornet Amoxicilloyl Ampicilloyl Cefaclor Chlorhexidine Chymopapain Gelatin bovine Insulin bovine Insulin human Insulin porcine Penicilloyl G Penicilloyl V Pholcodine Morphine Suxamethonium (succinylcholine)		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Abachi wood dust Bougainvillea Castor bean Chloramin T Cotton seed Ethylene oxide Ficus Formaldehyde/Formalin Green coffee bean Isocyanate HDI Isocyanate MDI Isocyanate TDI Ispaghula Methyltetrahydrophtalic anhydrid Phthalic anhydride Silk waste Sunflower seed Trimellitic anhydride fish feed Cotton Daphni Seminal fluid Streptavidin Tobacco leaf Anisakis Ascaris Apple Apricot Asparagus Aubergine Avocado Persea americana Bamboo shoot		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Banana Beetroot Blackberry Blueberry Broccoli Brussel sprouts Cabbage Carambola Carrott Cauliflower Cherry Cucumber Fennel Fig Garlic Grape Grapefruit Guava Jack fruit Jujube Kiwi Lemon Lettuce Lime Litchi Mandarin (tangerine, clementine, satsumas) Mango Melon Olive (black, fresh) Onion Orange Papaya Passion fruit Pear		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Persimon Pineapple Plum Potato Pumpkin Raspberry Red currant Rose hip Spinach Strawberry Sweet potato Tomato Watermelon Almond Barley Blue vetch Cashew nut Chickpea Coconut Common millet Fenugreek Foxtail millet Gluten Green bean Japanese millet Lentil Lima bean Linseed Lupin seed Macadamia Pea Peanut Pecan nut Pine nut Pistachio		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Poppy seed Pumpkin seed Quinoa Rape seed Red kidney bean Rice Rye Sesame seed Soybean Spelt wheat Sugar-beet seed Sweet chestnut White bean Allspice Anise Basil Bay leaf Black pepper Caraway Chilipepper Clove Coriander Dill Fennel seed Ginger Green pepper Lovage Mace Marjoram Mint Mustard Oregano Paprika		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Parsley Saffron Sage Tarragon Thyme Vanilla Abalone Anchovy Blue mussel Catfish Chub mackerel Clam Crab Crayfish Eel Grouper Gulf flounder Haddock Hake Halibut Herring Jack mackerel Langust Lobster Mackerel Megrim Octopus Orange roughy Oyster Pacific squid Plaice Pollock Red snapper Salmon Sardine		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
Serum (cont'd)	Japanese Pilchard Sardinops melanosticta Scallop Shrimp Snail Sole Squid Swordfish Tilapia Trout Tuna Walleye pike Whitefish Chicken Gallus spp. Egg white Egg yolk Turkey meat Chicken Cheese, cheddar type Cheese, mold type Cow's whey Goat milk Mare's milk Milk Milk, boiled Sheep milk Sheep whey Carob (E410) Guar, guar gum (E412) Gum arabic (E414) Tragacanth (E413) Cochineal extract (Carmine red) (E120) Cacao Coffee		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
Serum (cont'd)	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
	Malt Mushroom Tea Yeast		
	Food mixes of:		
	Peanut, Hazel nut, Brazil nut, Almond, Coconut		
	Fish, Shrimp, Blue mussel, Tuna, Salmon		
	Wheat, Oat, Maize, Sesame seed, Buckwheat		
	Egg white, Milk, Fish, Wheat, Peanut, Soybean		
	Tomato, Yeast, Garlic, Onion, Celery		
	Hazel nut, Brazil nut, Orange, Apple, Cacao		
	Almond, Kiwi, Melon, Banana, Grape		
	Pork, Beef, Egg yolk, Chicken, Turkey		
	Maize, Pea, White bean, Carrot, Broccoli		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
	<u>Food mixes of:</u> (cont'd)		
Serum (cont'd)	Rye, Rice, Potato, Mushroom, Pumpkin		
	Pea, White bean, Carrot, Potato		
	Tomato, Spinach, Cabbage, Paprika		
	Orange, Apple, Banana, Peach		
	Strawberry, Pear, Lemon, Pineapple		
	Apple, Banana, Pear, Peach		
	Pea, Peanut, Soybean		
	Carrot, Potato, Spinach, Cucumber		
	Wheat, Rye, Barley, Rice		
	Kiwi, Melon, Banana, Peach, Pineapple		
	Pecan nut, Cashew nut, Pistachio, Walnut		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunological examinations for the purpose of clinical diagnosis (cont'd)		A
	Detection and quantification of specific IgE to the following allergens: (cont'd)	Chemiluminescence using in house procedures in conjunction with manufacturer's instruction using Thermo Fisher Unicap 250 SOP CB/SOP/HU-78 Total and Specific IgE SOP CB/SOP/HU-77 Tryptase	
	Food mixes of: (cont'd)		
Serum (cont'd)	Pork, Beef, Chicken meat, Turkey meat		
	Hazel nut, Shrimp, Kiwi, Banana		
	Sesame seed, Yeast, Garlic, Celery		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES	<u>Microbiology examination for the purposes of clinical diagnosis</u>	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
	General isolation of microorganisms of clinical significance.	Manual inoculation followed by culture using:	
Aspirates Cellular and fluid material contained on swabs and cannulae		Ears examination MB/SOP/HU-51 Ear Examination Procedure Eye examination MB/SOP/HU-27 Eye Examination Procedure General bench SOP MB/SOP/HU-31 Clinical General & Hot Bench Procedure	
Faeces		Enteric processing MB/SOP/HU-49 Enteric Processing Procedure Campylobacter MB/SOP/HU-21 Camplyobacter Procedure E.coli O157 MB/SOP/HU-50 Ecoli 0157 Procedure Yersinia MB/SOP/HU-52 Yersinia Procedure Vibrio/Pleisiomonas/Aeromonas MB/SOP/HU-53 Vibrio/Aeromonas/Plesiomonas Procedure Salmonella MB/SOP/HU-54 Salmonella Procedure Shigella MB/SOP/HU-57 Shigella Species Procedure	
Fluids (incl. contact lenses fluid)		Investigation of Continuous Ambulatory Peritoneal Dialysis (CAPD) Fluid MB/SOP/HU-36CSF MB/SOP/HU-29 CSF Procedure Ascitic fluids MB/SOP/HU-31 Clinical General & Hot Bench Procedure	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Genital samples		Genital bench specimen processing MB/SOP/HU-56 Genital Bench - Specimen Processing/Medical Laboratory Assistant Duties	
Samples from sterile sites		Prosthetic joint associated tissue samples MB/SOP/HU-46 Prosthetic Joint Associated Tissue Samples	
Tissues		Clinical and hot bench specimen processing MB/SOP/HU-31 Clinical General & Hot Bench Procedure	
Urine		General urine methods MB/SOP/HU-12 Urine Procedure Urine sample processing MB/SOP/HU-48 Urine Sample Processing	
	Detection, identification and quantification of:	Staining (inc Gram) and microscopic examination using: MB/SOP/HU-7 Gram stain Procedure MB/SOP/HU-16 Mycology Methods Standard Operating Procedure MB/SOP/HU-29 CSF Procedure MB/SOP/HU-31 Clinical General & Hot Bench Procedure (Ascitic fluid – cell count)	
Aspirates Cellular and fluid material contained on swabs and cannulae Fluids Tissues Cultures isolated in house from the above	White blood cells Red blood cells Bacterial cells Yeast cell and fungal hyphae		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Whole blood	General isolation of microorganisms of clinical significance.	Automated culture using BD BACTEC FX continuous monitoring system MB/SOP/HU-28 Blood Culture Procedure	
Urine	Quantification of white and red blood cells, bacteria and epithelial cells	Automated urine analysis using Sedimax image urine analyser. Sedimax automated image urine analyser MB/SOP/HU-44 SediMAX Analyser Procedures	
Cerebral fluid samples	Quantification of white and red blood cells and bacteria	Microscopy (inc. Gram Stain) using MB/SOP/HU-29 CSF Procedure MB/SOP/HU-31 Clinical General & Hot Bench Procedure Gram stain	
Female genital tract swabs	Microscopic diagnosis of bacterial vaginosis	Microscopy examination (Hay's criteria) using: MB/SOP/HU-30 Genital Samples Procedure MB/SOP/HU-56 Genital Bench - Specimen Processing/Medical Laboratory Assistant Duties Genital bench specimen processing	
Swabs	Screening for Methicillin resistant *Staphylococcus aureus* (MRSA)	Manual inoculation and culture using MB/SOP/HU-55 Resistance screening - Specimen Processing MB/SOP/HU-58 MRSA/MSSA Screening SOP MRSA/MSSA screening	
Sputum	General isolation of microorganisms of clinical significance	Manual inoculation and culture using: Culture media, growth SOP MB/SOP/HU-4 Sputum Sample Processing-MLA	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
	General isolation of microorganisms of clinical significance (cont'd)	Manual inoculation and culture using:	
Bronchial lavage		Respiratory investigations MI/1026 Respiratory Fluid Sample Processing MB/SOP/HU-81 Legionella Investigation MB/SOP/HU-100 Bordetella Reading/Identification	
		Manual inoculation and culture using MB/SOP/HU-55 Resistance screening - Specimen Processing resistance screening and:	
Rectal swabs	Screening for Vancomycin resistant enterococci (VRE)	MB/SOP/HU-60 Vancomycin Resistant Enterococci (VRE) Screening	
Faeces	Screening for Extended spectrum betalactamases (ESBL)	MB/SOP/HU-64 Extended Spectrum Beta-Lactamases (ESBL) Screening SOP	
Rectal swabs	Screening for Extended spectrum betalactamases (ESBL)	MI/706 MB/SOP/HU-64 Extended Spectrum Beta-Lactamases (ESBL) Screening SOP	
Faeces and rectal swabs	Screening for Carbapenamase producing Enterobacteriaceae (CPE)	MB/SOP/HU-147 CPE Screening	
Faeces and rectal swabs	Trans-rectal screening for Carbapenamase producing Enterobacteriaceae (CPE) and Ciprofloxacin and Gentamicin resistance	MB/SOP/HU-63 TRUS Biopsy Screening	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Respiratory samples Urine Tissue Swabs (including endoscopy) Body fluids	Presumptive identification of Acid-alcohol fast bacilli (inc. *Mycobacterium spp)*	Fluorescent microscopy using Auramine stain. Mycobacterial investigations MB/SOP/HU-33 Mycobacterial Investigations (TB)	
Respiratory samples Urine Tissue Swabs (including endoscopy) Body fluids	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc *Mycobacterium spp)*	Automated culture using BD MGIT continuous monitoring system. MB/SOP/HU-28 Blood Culture Procedure Fluorescent microscopy as above.	
Whole Blood	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc *Mycobacterium spp)*	Automated culture using BD BacTec 40 continuous monitoring system. MB/SOP/HU-28 Blood Culture Procedure Fluorescent microscopy as above.	
Hair, skin, nail	General isolation and characterisation of clinically significant fungi.	Manual culture and Calcofluor white fluorescent microscopy using MB/SOP/HU-16 Mycology Methods Standard Operating Procedure	
Cultures isolated in house from the above	Identification of clinically significant bacteria.	Biochemical profile determination using automated Matrix-assisted laser desorption/ionisation (MALDITOF) MB/SOP/HU-11 Maldi Biotyper MB/SOP/HU-6 VITEK MB/SOP/HU-40 API	
Whole blood – positive blood culture specimens	Direct identification of clinically significant bacteria.	Matrix-assisted laser desorption/ionisation (MALDITOF) MB/SOP/HU-11 MaldiBiotyper	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Cultures isolated in house from the above	Antimicrobial susceptibility testing of clinically significant bacteria.	Manual disc diffusion and/or automated methods using EUCAST methodology using MB/SOP/HU-59 EUCAST method of disc diffusion Gradient MIC determination by E-test using MB/SOP/HU-94 Minimum inhibitory concentration (MIC) method	
Fungal cultures isolated in house from the above	Antifungal Susceptibility Testing of Yeasts of clinical significance.	Sensititre YeastOne (Trek Diagnostic Systems) by colourimetric microdilution MB/SOP/HU-70 Yeast Sensitivity Testing	
Culture isolated in house from the above	Identification of Staphylococcal isolates	Prolab Staphylococcal Latex Agglutination kit MB/SOP/HU-146 Staph Latex MB/SOP/HU-104 Tube Coagulase Test	
Culture isolated in house from the above	Serological identification of groups A, B, C, D, F and G of the Lancefield groups of Streptococci grown in agar plates.	Prolex Streptococcal Grouping latex Kit MB/SOP/HU-62 Streptococcal Grouping Test	
Urine	Detection of Legionella antigen	Binax NOW Legionella Urinary Antigen Test kit by Alere MB/SOP/HU-61 Legionella Antigen SOP	
Culture isolated in house from the above	Detection of *Salmonella* polyvalent 'O' (PSO) and 'H' (PSH); *Shigella spp. Vibrio spp*	Salmonella MB/SOP/HU-54 Salmonella Procedure Shigella MB/SOP/HU-57 Shigella Species Procedure Vibrio/Pleisiomonas/Aeromonas MB/SOP/HU-53 Vibrio/Aeromonas/Plesiomonas Procedure	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Female genital swabs	Detection of *Trichomonas vaginalis*	Broth culture and light microscopy MB/SOP/HU-56 Genital Bench - Specimen Processing/Medical Laboratory Assistant Duties	
Faeces	Detection of *Helicobacter pylori* antigen	Pro-flow Lateral flow kit MB/SOP/HU-39 Examination of Human Stool for Helicobacter Pylori Antigen	
	Identification of *E.coli O157*	Prolex latex kit using E coli O157 MB/SOP/HU-50 Ecoli 0157 SOP	
Faeces	Detection of ova, cysts and parasites (OCP)	Concentration and light microscopic examination using MB/SOP/HU-23 Parasite Procedure	
Faeces	Detection of *Cryptosporidium* oocysts	Fluorescent microscopy (Auramine stain) using MB/SOP/HU-13 Auramine Phenol Stain (Cryptosporidia)	
	Identification of Cyclospora by microscopy		
Faeces	Detection of *C.difficile* GDH antigen	MB/SOP/HU-82 Clostridium Difficile Testing Procedure DS2 automated EIA platform using MB/SOP/HU-41Techlab Cdiff MB/SOP/HU-37 DS2 OperationCheck and manual lateral flow Techlab Cdiff chek complete	
Faeces	Detection of *C.difficile* toxin A &B	Lateral flow Techlab Cdiff Chek complete using MB/SOP/HU-42 TECHLAB® C.DIFF QUIK CHEK COMPLETE®	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Microbiology examination for the purposes of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology investigations (UKHSA SMIs):	A
Faeces	Detection of Rotavirus antigen	DS2 automated EIA platform, EIA Rota Premier meridian, antigen kit using MB/SOP/HU-38 and MB/SOP/HU-37 DS2 Operation	
	Molecular examination activities for the purpose of clinical diagnosis	Documented in house methods incorporating manufacturer's' instructions where relevant using Cepheid GeneXpert real time PCR SOP VI/SOP/SHY-43	A
Cultures isolated in house from the above	Detection of MRSA	MB/SOP/HU-156 Cepheid MRSA Staph	
Faeces	Detection of Norovirus	MB/SOP/HU-32	
Faeces	Detection of *C.difficile* toxin	VI/SOP/SHY-43	
Nasopharyngeal swabs, nose and throat swabs	Quad test - detection of RSV and Influenza A & B, RSV and SARS-CoV-2	VI/SOP/SHY-43	
EDTA Plasma	HIV virus RNA	VI/SOP/SHY-44 CEPHEID GeneXper HIV-1 XC Viral Load	
EDTA Plasma	Hepatitis C virus RNA	VI/SOP/SHY-45 CEPHEID GeneXpert HCV Viral Load	
EDTA Plasma	Hepatitis B virus DNA	VI/SOP/SHY-46 CEPHEID GeneXpert HBV Viral Load	
Sputum, bronchial lavage	Detection of *Mycobacterium tuberculosis* nucleic acid and rifampicin resistance.	Cepheid GeneXpert real time PCR using SOP MB/SOP/HU-47 Cepheid MTB RIF SOP	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular examination activities for the purpose of clinical diagnosis (cont'd)	Documented in house methods incorporating manufacturer's' instructions where relevant using Cepheid GeneXpert real time PCR SOP VI/SOP/SHY-43	A
Pernasal aspirate/swab	RSV RNA	MB/SOP/HU-159 Xpert® Xpress SARS-CoV-2/Flu/RSV plus	
	Influenza RNA	MB/SOP/HU-159 Xpert® Xpress SARS-CoV-2/Flu/RSV plus	
Nasal swab	MRSA DNA	MB/SOP/HU-156 Cepheid MRSA Staph Elitech InGenius nucleic acid extraction and PCR system VI/SOP/SHY-13 Elitech InGenius Platform procedures (Equipment Management)	
CSF, skin, eye, throat, vesicle & genital swabs	HSV I & II	VI/SOP/SHY-14 Qualitative Examination of Patient Samples for Routine Viral Pathogens Using ELITe InGenius PCR System	
CSF	Adenovirus Varicella Zoster virus	VI/SOP/SHY-14 Qualitative Examination of Patient Samples for Routine Viral Pathogens Using ELITe InGenius PCR System	
Urine	Enterovirus Parechovirus virus CMV (qualitative)		
	Quantification of:		
EDTA/plasma	EBV viral load CMV viral load BKV viral load	VI/SOP/SHY-16 CMV, EBV, BK Virus Examination	
Urine	*Mycoplasma genitalium* and associated macrolide resistance genes *Mycoplasma genitalium* DNA	VI/SOP/SHY-17 Mycoplasma Genitalium Detection and Macrolide Resistance Screening Using the ELITe InGenius PCR System	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular examination activities for the purpose of clinical diagnosis (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant using: Elitech InGenius nucleic acid extraction and PCR system VI/SOP/SHY-13 Elitech InGenius Platform procedures (Equipment Management)	A
Genital swabs, urine	*C.trachomatis* DNA	VI/SOP/SHY-24 Cepheid GeneXpert CT/NG Assay	
Genital swabs, urine	*N. gonorrhoeae* DNA	VI/SOP/SHY-24 Cepheid GeneXpert CT/NG Assay	
Genital swabs, urine	*T. vaginalis* DNA	VI/007 BioFire FilmArray Torch multiplex PCR technology	
Nasopharyngeal secretion	Respiratory Pathogens (RP2) plus Panel: Adenovirus Coronavirus 229E, Coronavirus HKU1 Coronavirus NL63 Coronavirus OC43 Human Rhinovirus/Enterovirus Human metapneumovirus Influenza B Influenza A including subtypes H1, H1-2009 and H3 Parainfluenza virus 1 Parainfluenza virus 2 SARS-CoV-2	MB/SOP/HU-45 FilmArray® RP2.1 plus Panel	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd) Nasopharyngeal secretion (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis</u> (cont'd) <u>Respiratory Pathogens (RP2) plus Panel:</u> Parainfluenza virus 3 Parainfluenza virus 4 Respiratory syncytial virus Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Chlamydia pneumoniae B. pertussis (ptxP) Bordetella parapertussis (IS1001) Mycoplasma pneumoniae	Documented in house methods incorporating manufacturers' instructions where relevant using: MB/SOP/HU-45 FilmArray® RP2.1 plus Panel	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular examination activities for the purpose of clinical diagnosis (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant using:	A
Bronchoalveolar lavage, Sputum	Pneumonia panel plus Acinetobacter calcoaceticus-baumannii complex Klebsiella oxytoca Serratia marcescens Enterobacter cloacae complex Klebsiella pneumoniae group Staphylococcus aureus Escherichia coli Moraxella catarrhalis Streptococcus agalactiae Haemophilus influenzae Proteus spp. Streptococcus pneumoniae Klebsiella aerogenes Pseudomonas aeruginosa Streptococcus pyogenes Chlamydia pneumoniae Legionella pneumophila Mycoplasma pneumoniae Chlamydia pneumoniae Legionella pneumophila Mycoplasma pneumoniae Adenovirus Human Rhinovirus/Enterovirus Middle East Respiratory Syndrome (MERS-CoV) Coronavirus Influenza A Parainfluenza Virus Human Metapneumovirus Influenza B Respiratory Syncytial Virus CTX-M NDM mecA/C and MREJ IMP OXA-48-like VIM KPC	BioFire FilmArray Torch multiplex PCR technology using MB/SOP/HU-45 FilmArray® RP2.1 plus Panel	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular examination activities for the purpose of clinical diagnosis (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant using:	A
CSF	Meningitis/Encephalitis Panel Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis, Streptococcus agalactiae, Streptococcus pneumoniae, Cryptococcus gattii/neoformans, Cytomegalovirus, Herpes simplex virus 1, Herpes simplex virus 2, Human herpesvirus 6, Enterovirus, Human parechovirus, Varicella zoster virus.	MB/SOP/HU-74 FilmArray Meningitis/Encephalitis Panel SOP	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serological activities for the purpose of clinical diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant using: Documented in-house methods to meet the requirements of the Infectious Diseases in Pregnancy screening programme (relevant tests marked with *) as defined in the Quality Assurance evidence requirements:	A
Serum	Microbial serology for: Hepatitis A Total Ab Hepatitis A IgM Hepatitis B surface antibody Hepatitis B core total Ab Hepatitis C antibody CMV IgG Rubella IgM Rubella IgG HIV antigen/antibody* Hepatitis B Sag*	Beckman Coulter -UniCel DxI 9000 Procedures: VI/SOP/SHY-52 Virology Unicel Dxi Analyser (Equipment Management) Hepatitis results protocol: VI/SOP/SHY-41 HIV results protocol: VI/SOP/SHY-21	
Serum	HIV antigen/antibody* Hepatitis A IgM Hepatitis C Ab Hepatitis B eAg/Ab Hepatitis B core IgM Hepatitis B surface antigen* Toxoplasma Ab Hepatitis E IgM Hepatitis E IgG Hepatitis B core Ab* Mumps IgG	VIDAS 30 Enzyme Immunoassay with fluorescence (ELFA), VI/SOP/SHY-19 Biomerieux VIDAS 30 Procedures	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	Serological activities for the purpose of clinical diagnosis (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant using: Documented in-house methods to meet the requirements of the Infectious Diseases in Pregnancy screening programme (relevant tests marked with *) as defined in the Quality Assurance evidence requirements:	A
Serum	Microbial Serology for: CMV IgG/IgM CMV IgG avidity Parvovirus IgG/M HTLV Ab Syphilis Ab* EBV VCA IgG/M EBV EBNA IgG VZ IgG Measles IgG/M Mumps IgM	DiaSorin Liaison XL VI/SOP/SHY-2 Diasorin Liaison XL (Equipment Management) (chemiluminescence)	
END			

Appendix 1

C Hull Royal Infirmary - Wards	Glucose	C Hull Royal Infirmary - Clinics/outpatient	Glucose
HRI Gastro	x	HRI Acute care, ambulatory	x
HRI Diabetes	x	HRI Respiratory	x
HRI Neurology	x	HRI General surgery	x
HRI Stroke	x	HRI Diabetes	x
HRI Orthopaedic	x	HRI Renal	x
HRI Medical	x	HRI Medical day unit	x
HRI General medicine (COVID-19)	x	HRI Medical OPD	x
HRI Ophthalmology	x	HRI Orthopaedic OPD	x
HRI Respiratory (COVID-19)	x	HRI Xray	x
HRI General medicine (COVID-19)	x	HRI Surgical	x
HRI Neurology	x	HRI Acute care - ED	x
HRI Respiratory	x	HRI Endoscopy	x
HRI Winter ward	x	HRI Ophthalmology OP	x
HRI General surgery	x	HRI Ophthalmology Clinic	x
HRI Rheumatology	x	HRI Fracture Clinic	x
HRI Vascular	x	HRI discharge lounge	x
HRI Medical Elderly	x	HRI Antenatal clinic	x
HRI Acute Medical Unit	x	HRI occupational therapy	x
HRI Frailty Assessment Beds	x	HIR Surgical OPD	
HRI Surgery	x		
HRI Gynae	x		
HRI Gynae surgery	x		
HRI Labour ward (antenatal)	x		
HRI Labour ward (neonatal)	x		
HRI Antenatal	x		
HRI Postnatal	x		
HRI Surgery - theatre	x		
HRI ICU - theatre	x		
HRI Acute care	x		
HRI Surgical	x		
HRI Medical	x		
HRI NICU	x		
HRI OPD	x		
HRI SCBU	x		
HRI Paed assessment unit	x		

Appendix 1

D Castle Hill Hospital- Wards	Glucose	D Castle Hill Hospital - Clinics/outpatient	Glucose
CHH Complex rehab	x	CHH Oncology	x
CHH Colorectal	x	CHH Cardiology	x
CHH Colorectal and gynae	x	CHH Dermatology	x
CHH Upper GI	x	CHH Endoscopy	x
CHH Urology	x	CHH Immunomodulatory Infusion Centre	x
CHH Breast / ENT	x	CHH Immunology	x
CHH Cardiac	x	CHH Oncology	x
CHH Oncology	x	CHH Urology Ambulatory Bay	x
CHH Surgical	x	CHH Day Surgery -recovery area post op	x
CHH Infectious diseases	x	CHH Breast / ENT-recovery area post op	x
CHH Medical Elderly	x	CHH Cardiac -recovery area post op	x
CHH intensive Care unit	x	CHH Plastics	x
CHH Max Fax theatre	x	CHH Preassessment	x
CHH Surgery theatre	x	CHH Xray	x
CHH Cardiology Catheter Lab theatre	x	CHH Surgical assessment	x
CHH Plastics theatre	x	CHH Breast care	x
CHH General medicine theatre	x	CHH ENT	x
CHH Gynae theatre	x		
E East Riding Hospital			
Adult Outpatients Clinic	x		