Schedule of Accreditation

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Accredited to ISO 15189:2022

The Mid Yorkshire Teaching NHS Trust

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Blood Science Department Pathology Pinderfields Hospital Aberford Road Wakefield WF1 4DG	**Local contact** **Emma Naylor** (details as above)	• Haematology • Blood Transfusion • Chemistry	A
Dewsbury and District Hospital Halifax Road Dewsbury WF13 4HS	**Emma Naylor** (details as above)	• Haematology	B

Site activities performed away from the locations listed above:

Location details	Activity
Pinderfields Hospital Gate 18 Labour ward A&E Theatres level D Gate 21 Haematology Inpatients	• Management of blood fridge • Phlebotomy (SOP IPC017)
Dewsbury and District Hospital: Ridings Ground Floor	• Management of blood fridge • Phlebotomy (SOP IPC017)
Pontefract Hospital Haematology Day Unit Elective Orthopaedic Suite	• Management of blood fridge • Phlebotomy (SOP IPC017)

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Biochemistry examination activities for the purpose of diagnosis:	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of:	Roche Cobas 8000 c702 module SOP-BIO-037	A
		by photometry	
Serum	Alanine Transaminase		A
Serum	Albumin		A
Serum	Alkaline Phosphatase		A
Plasma	Ammonia		A
Serum	Amylase		A
Serum	Angiotensin Converting Enzyme (ACE)		A
Serum	Aspartate transaminase (AST)		A
Serum	Bicarbonate		A
Serum	Bile acids		A
Serum	Bilirubin		A
Serum and Urine	Calcium		A
Serum	Cholesterol (Total)		A
Serum	Creatine Kinase		A
Serum and Urine	Creatinine		A
Serum	Direct Bilirubin		A
Plasma	Ethanol		A
Serum	Gamma glutamyl transferase		A
Plasma and CSF	Glucose		A
Serum	HDL (High density lipoprotein)		A
Serum	Iron		A
Plasma and CSF	Lactate		A
Serum	LDH		A
Serum	Lipase		A
Serum	Lithium		A
Serum and Urine	Magnesium		A
Serum	Paracetamol		A
Serum and Urine	Phosphate		A
Serum	Salicylate		A
Serum	Total Protein		A
Serum	Triglycerides		A
Serum and Urine	Urate		A
Serum and Urine	Urea		A

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 purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 c702 module SOP-BIO-037	A
		by Immunoturbidimetry	
Serum	Alpha-1-Antitrypsin		A
Serum	Antistreptolysin O		A
Serum/Plasma	Beta-2 Microglobulin		A
Serum	Complement 3		A
Serum	Complement 4		A
Serum	Caeruloplasmin		A
Serum	C-reactive protein		A
Serum	Haptoglobin		A
Serum	Immunoglobulin A		A
Serum	Immunoglobulin G		A
Serum	Immunoglobulin M		A
Serum	Rheumatoid Factor		A
Serum	Transferrin		A
		by turbidimetry	
Urine	Protein		A
CSF	Protein		A

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 purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 e801 module SOP-BIO-037 by electrochemiluminescence immunoassay (ECLIA)	A
Serum	Alpha Feto protein (AFP)		A
Serum	N-terminal pro B-type natriuretic peptide (NTPBNP)		A
Serum	Carcinoembryonic antigen (CEA)		A
Serum	CA125		A
Serum	CA15-3		A
Serum	CA19-9		A
Serum	Cortisol		A
Serum	Digoxin		A
Serum	Ferritin		A
Serum	Folate		A
Serum	Follicle Stimulating Hormone (FSH)		A
Serum	Free T3		A
Serum	Free T4		A
Serum	Human Chorionic Gonadotrophin (HCG)		A
Serum	Total Immunoglobin E		A
Serum	Luteinising Hormone (LH)		A
Serum	Oestradiol		A
Serum	Placental like growth factor (PlGF)		A
Serum	Progesterone		A
Serum	Prolactin		A
Serum	Prostatic Specific Antigen (PSA)		A
Plasma	Parathyroid hormone (PTH)		A
Serum	Sex hormone binding globulin (SHBG)		A
Serum	Soluble fms-like tyrosine kinase-1 (sFlt-1)		A

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 purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 e801 module SOP-BIO-037	A
		by electrochemiluminescence immunoassay (ECLIA)	
Serum	Testosterone		A
Serum	TPO Antibodies (TPOA)		A
Serum	Troponin-T (high sensitivity)		A
Serum	Thyroid stimulating hormone (TSH)		A
Serum	Vitamin B12 (total)		A
Serum	Vitamin D		A
Serum	Macroprolactin	By PEG precipitation Manual method then moved to Roch Cobas 8000	A
	Quantitative determination of:	Roche Cobas 8000 c702 SOP-BIO-037	A
		Measurement by enzyme immunoassay	
Serum	Valproic Acid		A
		Roche Cobas 8000 c702 By kinetic interaction of microparticles in a solution (KIMS)	A
Serum	Carbamazepine		
Serum	Phenytoin		A
Serum	Theophylline		A
Serum	Gentamicin		A
Serum	Vancomycin		A

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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 c702 module SOP-BIO-37	A
		by indirect ion selective electrode	
Serum, Urine	Chloride		A
Serum, Urine	Potassium		A
Serum, Urine	Sodium		A
CSF	Xanthochromia	North Star Bio UV Spectrophotometer using measurement by spectrophotometry SOP-BIO-057	A
Whole Blood	HbA1C IFCC Standardised	Tosoh G11 Analyser using high pressure cation exchange chromatography SOP-BIO-201	A
Urine	pH	Mettler Toledo Five Easy F20 pH meter using suppliers methods and measurement by potentiometry SOP-BIO-027	A
	Quantitative determination of:		
Serum/Urine	Osmolality	Advanced Instruments Osmo Pro Osmometer – using freezing point depression SOP-BIO-177	A
Urine	Bence-Jones protein (Kappa and lambda free light chains)	Helena SAS 3 and V8 Nexus software by Gel immunofixation SOP-BIO-169	A
Serum	Identification of heavy and light chain components of monoclonal protein	Helena SAS 3 and V8 Nexus Gel immunofixation and capillary immunotyping SOP-BIO-167 SOP-BIO-169	A

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 purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)		
Urine	Identification of free light chain and potential heavy chain components	Helena SAS 3 Gel immunofixation SOP-BIO-167	A
	Calculated tests:	Calculated parameters/derived results from Roche Cobas SOP-BIO-205	
Serum/plasma	Acute kidney injury stage		A
	Adjusted calcium		A
	eGFR		A
	Liver fibrosis score (FIB-4)		A
	Globulin		A
	Low density lipoprotein		A
	Non HDL Cholesterol		A
	Total HDL:Cholesterol ratio		A
	Transferrin saturation		A
	Free androgen index		A
	Free testosterone		A
Serum	sFlt-1:PIGF ratio		A
Urine	Calcium 24 hr output		A
	Calcium:creatinine ratio		A
Urine	Creatinine 24hr output		A
	Potassium 24hr output		A
	Magnesium 24hr output		A
	Sodium 24hr output		A
	Phosphate 24hr output		A
	Protein 24hr output		A
	Protein:creatinine ratio		A
	Urate 24hr output		A
	Urea 24hr output		A

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 purpose of diagnosis: (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum/plasma/Urine	Calcium:creatinine clearance ratio Creatinine clearance Tubular reabsorption of phosphate TMP:GFR (phosphate threshold)		A A A A
Sweat	Conductivity & chloride measurement.	Wescor 3700 SYS Macroduct Sweat Collection System using suppliers methods by pilocarpine iontophoresis BIO_SOP_LPT_Man_132 Sherwood MK2 926S chloride meter by suppliers methods and measurement by Argentimetry BIO_SOP_LPT_Man_134 Wescor 3120 Sweat•Chek Conductivity Analyser using suppliers methods and measurement by conductivity BIO_SOP_LPT_Man_133	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematological examination for the purpose of clinical diagnosis	Documented procedures and manufacturer's instructions for	
Blood	Full Blood Count (FBC) analysis for the following parameters:	Sysmex XN Series analyser using fluorescence flow cytometry XN 9000 Sysmex XN Series analyser using fluorescence flow cytometry XN 2000	A B
	Haemoglobin WBC – differential neutrophils, lymphocytes, monocytes, basophils, eosinophils Retics Nucleated Red Blood cell count Platelets MCV MCH MCHC RDW	SOP-HAEM-001 SOP-HAEM-002 SOP-HAEM-005 SOP-HAEM-012	
Plasma	Automated coagulation testing	Sysmex CS-2500i Sysmex CS-5100 Optical analysis of turbidimetric and colorimetric changes SOP-HAEM_062 overview of analysers SOP_HAEM_064 Processing QC and changing reagents	A, B A
	Prothrombin time INR APTT/ APTT ratio Fibrinogen Thrombin Time D-dimer Anti-Xa	SOP_HAEM_074 SOP_HAEM_074 SOP_HAEM_075 SOP_HAEM_076 SOP-HAEM_078 SOP-HAEM_077 SOP_HAEM_098	A, B A, B A, B A, B A A, B A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematological examination for the purpose of clinical diagnosis (cont'd)	Documented procedures and manufacturer's instructions for	
Blood	Plasma Viscosity	Benson plasma viscometer SOP-HAEM-228 Documented in-house methods to meet the requirements of the Sickle Cell and Thalassemia screening programme(s) as defined in the July 2018 'NHS Sickle Cell and thalassemia screening: Laboratory QA evidence requirements.	A
Blood	Hb variant screening percent HBA2 and HBF	Bio-rad variant II HPLC SOP_HAEM_184 antenatal processing	A
Blood	Blood film analysis: White cell differential Immature leucocytes Red cell structural abnormality Platelet structure and number	Blood smears – light microscopic identification of pathological processes SOP-HAEM-115 SOP-HAEM-116 Using Aerospray slide stainer for May-Grunwald-Giemsa SOP-HAEM-113 RAL Stainer for May-Grunwald Giemsa SOP-HAEM-225 SP-10 Wright single stain May-Giemsa stain Wright-Giemsa stain SOP-HAEM-226	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)	Haematological examination for the purpose of clinical diagnosis (cont'd)	Documented procedures and manufacturer's instructions for	
Blood	Infectious mononucleosis	Clearview IM screening Kit for infectious mononucleosis detection Sandwich ELISA SOP-HAEM-122	A, B
Blood	G6PD	Trinity Biotech G6PD screening kit Production of a fluorescence or its absence under UV light SOP-HAEM-121	A
Blood	Sickle cell test	Clin-tech Sickle test SOP-HAEM-186 based on deoxy-HbS solubility in phosphate buffers	A
Bone Marrow	Reporting of normal and abnormal morphologies	Jenner and Giemsa stain and Perls Iron Stain SOP-HAEM-117 SOP-HAEM-118 SOP-HAEM-120 SOP-HAEM-243	A
Blood	Antiphospholipid Antibody screen: Dilute Russell's Viper Venom (DRVVT) APTTSP/Actin FSL Anti-cardiolipin assay Beta-2 glycoprotein I assay	Sysmex CS2500 SOP-HAEM-247 SOP-HAEM-250	A
Blood	Thrombophilia screening: Protein C Free Protein S Antithrombin III	Sysmex CS2500 SOP-HAEM-248	A
Blood	Thrombophilia Screening: DNA extraction and PCR for Factor II Prothrombin Gene and Factor V Leiden Mutations	Duplica Prep DNA extraction & ABI 7500 PCR system SOP-HAEM-249	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematological examination for the purpose of clinical diagnosis (cont'd)	Documented procedures and manufacturer's instructions for	
Blood	Antiphospholipid Antibody screen: Dilute Russell's Viper Venom (DRVVT) APTTSP/Actin FSL Anti-cardiolipin assay Beta-2 glycoprotein I assay	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-250	A
Serum	Coeliac Screening	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-256	A
Serum	Intrinsic Factor antibody screening	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-251	A
Blood	HLA B27 screening	DNA extraction and PCR Duplica Prep DNA extraction system ABI 7500 PCR system SOP-HAEM-254	A

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 examinations to assist in clinical investigations	Documented procedures and manufacturer's instructions for	
Blood Plasma	Compatibility testing of patients plasma with donor cells	Manual Cross matching using Bio-Rad Column gel IAT technology SOP_BT_030 SOP_BT_062 SOP_BT_049	A
Blood Plasma	Compatibility testing of patients plasma with donor cells	Automated Cross matching using Bio-Rad IH-1000 SOP_BT_062 SOP_BT_049	A
Blood Plasma	Blood group by detection and identification of antigens : AB Rh D Positive B Rh D Positive O Rh D Positive A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative A Rh D Positive Including the presence of A2 antigens	Automated using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A
Blood Plasma	Antibody screen by detection of antibodies to: Rh – C, c, D, E, e, Cw Kell – K, k, Kpa Duffy – Fya, Fyb MNSs – M, N, S, s Kidd – Jka, Jka Lewis – Lea, Leb Lutheran – Lua P – P1	Automated using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A
Blood	Direct Antiglobulin Test (DAT)	Automated method using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A

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 examinations to assist in clinical investigations (cont'd)	Documented procedures and manufacturer's instructions for	
Blood Plasma	Blood group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative Including the presence of A2 antigens	Manual Bio-Rad Column gel IAT technology SOP_BT_074 SOP_BT_026	A
Blood Plasma	Antibody screen by detection of antibodies to: Rh – C, c, D, E, e, Cw Kell – K, k, Kpa Duffy – Fya, Fyb MNSs – M, N, S, s Kidd – Jka, Jka Lewis – Lea, Leb Lutheran – Lua P – P1	Manual Bio-Rad Column gel IAT SOP_BT_027 SOP_BT_076	A
Blood	Direct Antiglobulin Test (DAT)	Manual method Bio-Rad Column gel IAT technology SOP_BT_025	A
END			