


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8192</p> <p>Accredited to ISO 15189:2012</p>	<h3>Cwm Taf Morgannwg University Health Board</h3> <p>Issue No: 009 Issue date: 06 May 2021</p>	
	<p>Cwm Taf Morgannwg University Health Board Ynysmeurig House Navigation Park Abercynon Rhondda-Cynon-Taf CF45 4SN</p>	<p>Contact: Rebecca Hopson Tel: +44 (0)1443 443443 ext 6847 Fax: +44 (0)1443 443335 E-Mail: Rebecca.Hopson@wales.nhs.uk Website: https://cwmtafmorgannwg.wales/</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Cwm Taf University Health Board Pathology Department Royal Glamorgan Hospital Ynysmaerdy CF72 8XR</p> <p>Local contact: Rebecca Hopson Tel: +44 (0) 1443443443 ext 6847 Fax: +44 (0) 144344335 E-Mail: Rebecca.Hopson@wales.nhs.uk Website: https://cwmtafmorgannwg.wales/</p>	<p>Haematology & Blood Transfusion Clinical Biochemistry Histopathology Non-Gynae Diagnostic Cytology Microbiology Blood issue fridges</p>	RGH
<p>Address Pathology Department Prince Charles Hospital Gurnos Estate Merthyr Tydfil CF47 9DT</p> <p>Local contact: Rebecca Hopson Tel: +44 (0) 1443443443 ext 6847 Fax: +44 (0) 144344335 E-Mail: Rebecca.Hopson@wales.nhs.uk Website: https://cwmtafmorgannwg.wales/</p>	<p>Haematology & Blood Transfusion Clinical Biochemistry Immunology Blood issue fridges</p>	PCH



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Mortuary Royal Glamorgan Hospital Ynysmaerdy CF72 8XR	DI Mortuary Services	C
Mortuary Prince Charles Hospital Gurnos Estate Merthyr Tydfil CF47 9DT	Mortuary Services	D
Royal Glamorgan Hospital Ynysmaerdy CF72 8XR	Amanda James Phlebotomy Services	E
Prince Charles Hospital Gurnos Estate Merthyr Tydfil CF47 9DT	Amanda James Phlebotomy Services	F
The Vale Hospital Hensol Castle Park Hensol Vale of Glamorgan CF72 8JX	Blood Issue Fridge	J
Haematology clinic	Sweat test sample using Wescor Macroduct sweat collection system	K



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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>Haematological examinations to assist in clinical diagnosis</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Venous whole blood: EDTA	Full Blood Counts <ul style="list-style-type: none"> • Haemoglobin estimation • Red cell and platelet counts • Haematocrit • Differential white cell count and reticulocytes • MCV • MCH • RDW • 	SOP Haem 103 Sysmex XN Analysers by Impedance & Flow Cytometry	RGH PCH
Venous whole blood: EDTA	Blood Film reporting of normal and abnormal morphologies including WBC Diff and detection of Intra-erythrocytic Parasites	SOP Haem 005 May-Grunwald staining on methanol fixed blood smears by Sysmex SP10 Examination by light microscopy SOP PCH - HH58: Hema-Tek Staining machine Automated May-Grunwald staining on methanol fixed blood smears Examination by light microscopy	RGH PCH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations to assist in clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Venous whole blood: EDTA	Sickle cell detection	Sickle check HbS test – Turbidimetric SOP Haem 39	RGHPCH
Venous whole blood: EDTA	Malarial screening and identification of species: Plasmodium Falciparum	CareStart Rapydtest Malaria kit SOP Haem 168	RGH PCH
Venous whole blood: EDTA	ESR	Vitech Starrsed Autocompact – Westergren method SOP Haem 121 Manual	RGH
Venous Blood: Citrated Plasma	Coagulation Studies for the following tests:	Using Stago STA-R MAX2 clot detection by Viscosity change / oscillating ball and optical transmittance	RGH
	Prothrombin Time (PT) & INR aPTT and Ratio Fibrinogen (Clauss) D-Dimer Mixing Studies (50:50) Thrombin clotting time (TCT)	SOP Coag 108 SOP Coag 109 SOP Coag 110 SOP Coag 111 SOP Coag 112 SOP Coag 113	RGH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations to assist in clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Plasma	Plasma Viscosity	Benson Viscometer SOP PCH HH38	PCH
Venous blood: EDTA Plasma	Detection of infectious mononucleosis heterophile to aid in diagnosis of infectious mononucleosis	Lateral Flow Immunoassay using Clearview IM II kit SOP: Haem 152:	RGHPCH
HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Venous Blood; red cells	Blood Grouping by antigen detection <ul style="list-style-type: none"> • A B and O groups. • Rhesus group antigens C, c, D, E, e Kell antigen status.	Using Ortho Innova – Micro Columns SOP BB70 SOP BB7	RGH
Venous Blood; red cells	Blood Grouping by antigen detection <ul style="list-style-type: none"> • A B and O groups. • Rhesus group antigens C, c, D, E, e Kell antigen status.	Using the Bio-Rad IH1000 analyser SOPs BBGA01 & BBGA02	PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Whole Blood	Compatibility testing: Compatibility testing of patients Plasma with donor cells	Automated testing using Ortho Innova, SOP BB.72 Or Manual procedures SOP BBGA 02	RGH
		Automated testing Using the Bio-Rad IH1000 analyser SOP BBGA 01 Or Manual procedures SOP BBGA 02	PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Whole Blood	Kleihauer for foetal/maternal bleed estimation reported as ml foetal red cells in maternal circulation	SOP BB30 Kleihauer testing by acid elution technique followed by microscopy	RGHPCH
Whole Blood	Direct Antiglobulin Test (Direct Coombs Test)	Automated testing using Ortho Innova, Micro-Columns SOP BB 17	RGH
Whole Blood	Monospecific Coombs panel	Manual Ortho panel SOP BB 18	RGH
Whole Blood	Direct Antiglobulin Test (Direct Coombs Test)	Automated testing using the Bio-Rad IH1000 analyser SOP BBGA 01 Or Manual procedures SOP BBGA 02	PCH
Whole Blood	Monospecific Coombs panel	Manual procedures SOP BBGA 02	PCH
Whole Blood	Papain enzyme panel	Manual Ortho panel SOP BB 18	RGH
Whole Blood	PADS for anti-D	Using Ortho Innova – Micro Columns SOPs BB70	RGH
Whole Blood	PADS for anti-D	Manual procedures SOP BBGA 02	PCH
Whole Blood	Red cell phenotyping	Automated testing using the Bio-Rad IH1000 analyser SOP BBGA 01 Or Manual procedures SOP BBGA 02	PCH



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Serum (unless otherwise stated)	<u>Biochemistry examinations for the purpose of clinical diagnosis</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
Plasma	ACE	SOP-BIO-Ace (by enzymatic assay)	PCH
Plasma	Acetaminophen (paracetamol)	SOP-BIO-ACET (by enzymatic assay)	RGH PCH
Plasma	ACTH	SOP-BIO-ACTH (by sandwich electrochemiluminescence immunoassay)	PCH
Plasma	AFP	SOP-BIO-AFP (by sandwich electrochemiluminescence immunoassay)	PCH
Plasma	Alanine Aminotransferase	SOP-BIO-ALT (by enzymatic assay)	RGH PCH
Plasma	Albumin	SOP-BIO-ALB (by colourimetric assay)	RGH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
Urine	Albumin (microalbumin)	SOP-BIO-MALB (by immunoturbidimetric assay)	RGH PCH
Plasma, Urine	Alcohol	SOP-BIO-ALC (by enzymatic assay)	RGH PCH
Plasma	Alkaline Phosphatase	SOP-BIO-ALP (by colourimetric assay)	RGH PCH
	Alpha1-Antitrypsin	SOP-BIO-A1AT (by immunoturbidimetric assay)	PCH
Plasma	Ammonia	SOP-BIO-AMON (by colourimetric assay)	RGH PCH
Urine	Amphetamine	SOP-BIO-AMPH (by KIMS immunoassay)	RGH PCH
Plasma, Urine	Amylase	SOP-BIO-AMY (by colourimetric assay)	RGH PCH
	Anti TPO	SOP-BIO-TPO (by competitive electrochemiluminescence immunoassay)	PCH
	Aspartate Aminotransferase	SOP-BIO-AST (by enzymatic assay)	RGH PCH
	β 2-Microglobulin	SOP-BIO-B2M (by immunoturbidimetric assay)	PCH
Urine	Barbiturate	SOP-BIO-BARB (by KIMS immunoassay)	PCH
Urine	Benzodiazepine	SOP-BIO-BENZ (by KIMS immunoassay)	RGH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
	Beta-HCG	SOP-BIO-HCG (by sandwich electrochemiluminescence immunoassay)	RGH PCH
Plasma	Bicarbonate CO2	SOP-BIO-CO2 (by colourimetric assay)	RGH PCH
Plasma	Bile Acids	SOP-BIO-Bile (by colourimetric assay)	PCH
Urine	Buprenorphine HEIA	SOP-BIO-UBUPR (by homogenous enzyme immunoassay)	RGH PCH
	CA125	SOP-BIO-Ca125 (by sandwich electrochemiluminescence immunoassay)	PCH
	CA153	SOP-BIO-Ca153 (by sandwich electrochemiluminescence immunoassay)	PCH
	CA199	SOP-BIO-Ca199 (by sandwich electrochemiluminescence immunoassay)	PCH
Serum (unless otherwise stated) Serum/Plasma	Caeruloplasmin	SOP-BIO-Caer (by immunoturbidimetric assay)	PCH
Plasma, Urine	Calcium	SOP-BIO-CAL (by colourimetric assay)	RGH PCH
Urine	Cannabis	SOP-BIO-CANN (by KIMS immunoassay)	RGH PCH
	CEA	SOP-BIO-CEA (by sandwich electrochemiluminescence immunoassay)	PCH



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Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
Urine	Chloride	SOP-BIO-CL (by ISE)	RGH PCH
Plasma	Cholesterol	SOP-BIO-CHOL (by colourimetric assay)	RGH PCH
Urine	Cocaine	SOP-BIO-COCA (by KIMS immunoassay)	RGH PCH
	Complement C3	SOP-BIO-COMP (by immunoturbidimetric assay)	RGH PCH
	Complement C4	SOP-BIO-COMP (by immunoturbidimetric assay)	RGH PCH
	Conjugated Bilirubin	SOP-BIO-DBIL (by colourimetric assay)	RGH PCH
	Cortisol	SOP-BIO-Cort (by competitive electrochemiluminescence immunoassay)	RGH PCH
Plasma	C-Reactive Protein	SOP-BIO-CRP (by immunoturbidimetric assay)	RGH PCH
	Creatine Kinase	SOP-BIO-CPK (by enzymatic assay)	RGH PCH
Plasma, Urine	Creatinine	SOP-BIO-CREAT (by kinetic colourimetric assay)	RGH PCH
	DHEAS	SOP-BIO-DHEAS (by competitive electrochemiluminescence immunoassay)	PCH
	Digoxin	SOP-BIO-DIG (by KIMS immunoassay)	RGH &CH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
	Estimated Monomeric Prolactin	SOP-BIO-PROLP (by PEG precipitation and by sandwich electrochemiluminescence immunoassay)	RGH PCH
	Ferritin	BIO-SOP-FERR (by sandwich electrochemiluminescence immunoassay)	RGH PCH
	Folate	SOP-BIO-Folate (by competitive electrochemiluminescence immunoassay)	RGH PCH
Plasma	Fructosamine	SOP-BIO-Fruct (by colourimetric assay)	PCH
	FSH	SOP-BIO-FSH (by sandwich electrochemiluminescence immunoassay)	RGH PCH
	FT3	SOP-BIO-FT3 (by competitive electrochemiluminescence immunoassay)	RGH PCH
	FT4	SOP-BIO-FT4 (by competitive electrochemiluminescence immunoassay)	RGH PCH
	Gamma GT	SOP-BIO-GGT (by colourimetric assay)	RGH PCH



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Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
	Gentamycin	SOP-BIO-GENT (by CEDIA immunoassay)	RGH PCH
Plasma, Urine, CSF	Glucose	SOP-BIO-GLU, SOP-BIO-CSF (by enzymatic assay)	RGH PCH
	HDL-Cholesterol	SOP-BIO-HDL (by colourimetric assay)	RGH PCH
Plasma	hs Troponin T	SOP-BIO-TNT (by sandwich electrochemiluminescence immunoassay)	RGH PCH
Plasma	Hydroxybutyrate	SOP-BIO-3OHB (by enzymatic assay)	RGH PCH
	Immunoglobulin A	SOP-BIO-IGA (by immunoturbidimetric assay)	PCH
	Immunoglobulin G	SOP-BIO-IGG (by immunoturbidimetric assay)	PCH
	Immunoglobulin M	SOP-BIO-IGM (by immunoturbidimetric assay)	PCH
	Iron	SOP-BIO-IRON (by colourimetric assay)	RGH PCH
Plasma, CSF	Lactate	SOP-BIO-LACT, SOP-BIO-CSF (by colourimetric assay)	RGH PCH
	Lactate Dehydrogenase	SOP-BIO-LDH (by enzymatic assay)	RGH PCH



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Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
	LH	SOP-BIO-LH (by sandwich electrochemiluminescence immunoassay)	RGH PCH
	Lithium	SOP-BIO-LITH (by colourimetric assay)	RGH PCH
Plasma, Urine	Magnesium	SOP-BIO-MAG (by colourimetric assay)	RGH PCH
Urine	Methadone	SOP-BIO-METH (by KIMS immunoassay)	-
Urine	Methadone Metabolites (EDDP)	SOP-BIO-MMETH (by homogeneous enzyme immunoassay)	RGH PCH
	NT-proBNP	SOP-BIO-BNP (by sandwich electrochemiluminescence immunoassay)	PCH
	Oestradiol	SOP-BIO-OEST (by competitive electrochemiluminescence immunoassay)	RGH PCH
Urine	Opiates	SOP-BIO-OPIATES (by KIMS immunoassay)	RGH PCH
	Phenytoin	SOP-BIO-PHYT (by KIMS immunoassay)	RGH PCH
Plasma, Urine	Phosphate (Inorganic)	SOP-BIO-PHOS (by colourimetric assay)	RGH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
Plasma, Urine	Potassium	SOP-BIO-POT (by ISE)	RGH PCH
	Progesterone	SOP-BIO-PROG (by competitive electrochemiluminescence immunoassay)	RGH PCH
	Prolactin	SOP-BIO-Prol (by sandwich electrochemiluminescence immunoassay)	RGH PCH
	PSA	SOP-BIO-PSA (by sandwich electrochemiluminescence immunoassay)	RGH PCH
Plasma	PTH	SOP-BIO-PTH (by sandwich electrochemiluminescence immunoassay)	PCH
	Rheumatoid Factor	SOP-BIO-RF (by immunoturbidimetric assay)	RGH PCH
Plasma	Salicylate	SOP-BIO-SALI (by colourimetric assays)	RGH PCH
	SHBG	SOP-BIO-SHBG (by sandwich electrochemiluminescence immunoassay)	RGH PCH
Plasma, Urine	Sodium	SOP-BIO-SOD (by ISE)	RGH PCH



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Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
	Teicoplanin	SOP-BIO-TEICO (by immunoturbidimetric assay)	RGH
	Testosterone	SOP-BIO-Testo (by competitive electrochemiluminescence immunoassay)	RGH PCH
	Theophylline	SOP-BIO-THEO (by KIMS immunoassay)	RGH PCH
Plasma	Total Bilirubin	SOP-BIO-TBIL (by colourimetric assay)	RGH PCH
	Total IgE	SOP-BIO-IgE (by sandwich electrochemiluminescence immunoassay)	PCH
Plasma	Total Protein	SOP-BIO-TP (by colourimetric assay)	RGH PCH
Urine, CSF	Total Protein	SOP-BIO- UTP CSF, (by turbidimetric assay)	RGH PCH
	Transferrin	SOP-BIO-TRFN (by immunoturbidimetric assay)	RGH PCH
	Triglycerides	SOP-BIO-TRIG (by colourimetric assay)	RGH CH
	TSH	SOP-BIO-TSH (by sandwich electrochemiluminescence immunoassay)	RGH PCH



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Serum (unless otherwise stated)	Quantification of:	RGH: c501 and e601 (c6000) PCH: c501 and e601 (c6000); ISE, c702 and e602 (c8000); Integra 400 and 400 plus	
Plasma, Urine	Urea	SOP-BIO-UREA (by enzymatic assay)	RGH PCH
Urine	Uric Acid	SOP-BIO-URIC (by colourimetric assay)	RGH PCH
	Vancomycin	SOP-BIO-VANC (by homogenous enzyme immunoassay)	RGH
	Vitamin B12	SOP-BIO-B12 (by competitive electrochemiluminescence immunoassay)	RGH PCH
		By calculation in the LIMS	RGH PCH
Urine	5HIAA Creatinine Ratio		
Serum	Adjusted Calcium		
Serum	Adrenaline Creatinine Ratio		
Serum	Albumin Creatinine Ratio		
Serum	AST:ALT ratio		
Urine	Creatinine Clearance		
Serum	eGFR		
Serum	Free Androgen Index		
Serum	Globulins		
Serum	HMMA Creatinine Ratio		
Serum	HVA Creatinine Ratio		
Serum	Kappa Lambda Ratio		
Serum	LDL		
Serum	Metadrenaline Creatinine Ratio		
Serum	Non-HDL		
Serum	Noradrenaline Creatinine Ratio		
Serum	Normetadrenaline Creatinine Ratio		
Serum	Protein Creatinine Ratio		
Serum	Total Cholesterol:HDL ratio		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods By calculation in the LIMS (cont'd)	RGH PCH
Serum Urine Urine Urine Urine	Transferrin Saturation Calcium Creatinine Ratio Copper Creatinine Ratio C-Peptide Ratio Creatinine Calcium Clearance		
24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine 24 Hr Urine	3 Methoxytyramine Output 5HIAA Output Adrenaline Output Amylase Output BJP Calcium Output Copper Output Dopamine Output Magnesium Output Magnesium Output Metadrenaline Output Noradrenaline Output Normetadrenaline Output Protein Output Urate Output Creatinine Excretion		
Serum	Paraprotein screen	Capillary Electrophoresis and Immunotyping Sebia Capillarys 2 Flex SOP-BIOCEP SOP-BIOIT	PCH
Urine	Bence Jones Protein	Electrophoresis using Sebia Hydrasys 2 Scan SOP-BIOBJP	PCH
Serum	Free Light Chains (K/λ)	Binding site Optilite – immunoturbidimetric assay SOP-BIO-FLC	PCH



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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 examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum, Urine	Protein Immunofixation	Using Sebia Hydrasys 2 Scan SOP-BIO-IFE/BJP	PCH
Whole Blood	HbA1c	HPLC using Tosoh G8 SOP-BIO-HbA1c	PCH
Whole blood	Total Glycated Haemoglobin	Alere Affinion by Boronate affinity assay SOP SOP-BIO-HBA1C	PCH
Serum, Urine	Osmolality	Advanced instruments Osmometer 3320 by freezing point depression SOP-BIO-OSMO	RGH PCH
Sweat	Sweat Tests (Chloride & Sodium)	Westcor Macroduct, Roche c6000 or c8000 ISE modules SOP-BIO-SWEAT	RGH PCH
CSF	Xanthochromia	Spectrophotometry using Agilent CARY 60 Spectrophotometer SOP BIOCHEM 83	RGH & PCH
Faeces	Elastase	BEST 2000 ELISA SOP BIOCHEM 44 ScheBo Pancreatic Elastase 1 ELISA kit on Dynex DS2 SOP-BIO_FEL	PCH PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum/Plasma	Growth Hormone	Immulite 2000 by sandwich chemiluminescence immunoassay SOP-BIO-GH	PCH
Serum/Plasma	Calcitonin	SOP-BIO-CALCITONIN	
Urine	Detection of: 5HIAA VMA HVA Adrenaline Dopamine Noradrenaline Normetanephrine 3-Methoxytyramine Metanephrine	Varian Chromsystems using HPLC SOP-BIO-VMA SOP-BIO-VMA SOP-BIO-VMA SOP-BIO-CATS SOP-BIO-CATS SOP-BIO-CATS SOP-BIO-CATS SOP-BIO-METS SOP-BIO-METS SOP-BIO-METS	PCH PCH PCH PCH PCH PCH PCH PCH PCH PCH
Serum	IGF-1	IDS iSYS Automated sandwich chemiluminescence immunoassay SOP-BIO-IGF-1	PCH
Serum	Vitamin D	Agilent Chromsystems using HPLC-MS:MS SOP-BIO-VITD	PCH
Serum	Total Vitamin D	By calculation in the LIMS	PCH
Faeces	Calprotectin	using Buhlmann fCAL turbo kit on Roche Cobas c6000 SOP-BIOCHEM 85 Roche Cobas 6000 SOP-BIO-FCalturbo	PCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Whole Blood	Detection of:	Varian AA spectrophotometer	
Serum, Urine	Lead	SOP-BIO-LEAD	PCH
Serum	Copper	SOP-BIO-COPPER	PCH
Serum	Selenium	SOP-BIO-SEL	PCH
	Zinc	SOP-BIO-ZINC	PCH
Faeces	Detection of occult blood	Guiaac/peroxide method using Immunostics Hemoscreen	RGH PCH
		SOP-BIO-FOB	
		Immunochemical method using Alpha Labs HM-JACKarc	PCH
		SOP-BIO-FIT	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods	
Serum	<u>Covid-19 Total Antibodies IgG & IgM</u>	Roche Cobas e602 Analyser using the Elecsys Anti-SARS-CoV-2 assay (ELCIA)	RGH PCH
Serum	<u>Covid-19 Total Antibodies IgG & IgM</u>	Roche Cobas e801 Analyser using the Elecsys Anti-SARS-CoV-2 assay (ELCIA)	PCH
Serum	<u>Thyroid Stimulating Immunoglobulin</u>	Immulite 2000 Immunoassay ISOP42	PCH



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<p>HUMAN BODY TISSUE</p> <p>Tissue: biopsy, excision, resection and post-mortem specimens</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Supported by:</p> <p>Specimen dissection AFOS downdraft benches Thermo Shandon Print mate cassette printer SOPs: HPTD, CPPC, HTECH, CUXRB, CUP, CUBTW, CULZ, CPAOW, HSTREQ, CPSTS</p>	RGH
		<p>Tissue Processing Thermo Shandon Excelsior ES (x1) and AS (x2) tissue processors SOPs: HTPUM, CUDCAL, HBM, HTRUS, HHMBS, HLN, CPFTPHB</p>	RGH
		<p>Decalcification SOPs HTRCOE, HPTD and HBM</p>	RGH
		<p>Embedding & Microtomy Sakura tissue Tek embedding centres Thermo Shandon Slide Mate slide writers, Leica Microtomes (3x 2245RM, 1 x 2235RM) SOP: HEMB, HPPBC, HMIC, CPSWOM, HTRCOE, HMLSS, CPERW</p>	RGH
		<p>Cryomicrotomy - Intra-operative Frozen sections Leica CM1850 and CM1850UV Cryostats SOP: HFSB, HFSPC, HFSDC</p>	RGH
		<p>Interpretive Microscopy SOP: HQCHE, HEQA, IHCIQA, IHCEQA, HSSM</p>	RGH



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HUMAN BODY TISSUE (cont'd) Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides.	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u> Demonstration of:	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods: Macroscopic and Microscopic examination	RGH RGH
	Basophilic and eosinophilic structures	Routine Morphological Staining SOP: HSSC, HCBP, HSSCSP, HSSTSP Sakura Prisma – Glas 2 stainer / cover slipper using Haematoxylin and Eosin (H & E) stains	
	Acid Mucopolysaccharides	Special Tinctorial Histochemical Staining HSSM Histology special stains manual Alcian blue HSSM Appendix 2	
	Acid and Neutral Mucopolysaccharides	Alcian blue-PAS HSSM Appendix 3	
	Glycogen	Diastase PAS HSSM Appendix 4	
	Helicobacter/Microorganisms	Giemsa (H pylori) HSSM Appendix 5	
	Reticulin fibres	Gordon and Sweets reticulin stain HSSM Appendix 6	
	Gram +ve & -ve microorganisms	Gram HSSM Appendix 7	
	Fungi	Grocotts modification of Gomoris methenamine silver HSSM Appendix 9	
	Basophilic and eosinophilic structures	Haematoxylin and eosin (rapid) HSSM Appendix 10	
Fibrin	Martius scarlet blue (MSB) HSSM Appendix 11		



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:	RGH
Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)	Demonstration of: (cont'd)	Macroscopic and Microscopic examination	
	Melanin	Masson Fontana HSSM Appendix 12	
	Melanin, argentaffin, chromaffin, some lipofuscins	Masson Hamperl HSSM Appendix 13	
	Smooth muscle and collagen	Masson Trichrome HSSM Appendix 14	
	Basement membranes	Methenamine silver for basement membranes HSSM Appendix 15	
	Elastin	Miller's elastic Van Gieson (EVG) HSSM Appendix 16	
	Simple lipids	Oil red O HSSM Appendix 17	
	Copper associated protein	Orcein (Shikata's) HSSM Appendix 18	
	Glycogen, mucins, basement membranes and fungi	Periodic acid Schiff (PAS) HSSM Appendix 19	
	Neurofibrillary plaques	Periodic acid silver (PAAg) HSSM Appendix 20	
	Ferric iron, haemosiderin	Perl's Prussian blue HSSM Appendix 21	
	Amyloid	Sirius red HSSM Appendix 22	
	Mast cells	Toluidine blue for metachromatic Substances HSSM Appendix 23	
	Collagen	Van Gieson HSSM Appendix 24	
	Tubercle bacilli	Ziehl-Neelsen HSSM Appendix 25	



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides.</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following:</p> <p>Alpha fetoprotein – hepatocellular carcinoma, hepatoid tumour, germ cell tumours, embryonal carcinoma</p> <p>Bcl-2 oncoprotein: follicular lymphoma, lymphoproliferative diseases</p> <p>Epithelial antigen: normal and malignant epithelial cells</p> <p>Mucin-like glycoprotein expressing CA-125 epitope</p> <p>Calponin- smooth muscle</p> <p>Calretinin: normal and malignant mesothelial cells</p> <p>CD3 antigen – normal and malignant T lymphocytes</p> <p>CD4 antigen - normal and malignant T lymphocytes – helper / inducer subset</p> <p>CD 8 antigen - normal and malignant T lymphocytes – cytotoxic / suppressor subset</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra IHC instrument SOP IHCOPVU, IHCMVU, IHCIVK, IHCPMT, IHCCSP, IHCTSP, IHCBR, IHCPPK, IHCRR, SOP IHCPRP, IHCIQA, IHCEQA, IHCPREG Incorporating the following antibodies ():</p> <p>Alpha – 1 fetoprotein</p> <p>bcl-2 oncoprotein</p> <p>Ber EP4</p> <p>Ca 125</p> <p>Calponin</p> <p>Calretinin</p> <p>CD3</p> <p>CD4</p> <p>CD8</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>CD10 antigen (neprilysin) – renal cell carcinoma, Burkitt lymphoma, follicular lymphoma, precursor B cell lymphoblastic lymphoma</p> <p>CD20 antigen – normal and malignant B Lymphocytes</p> <p>CD30 antigen - Reed-Sternberg cells, Hodgkin lymphoma, anaplastic large cell lymphoma</p> <p>CD31 antigen (PECAM-1) – endothelial cells, benign / malignant vascular disorders</p> <p>CD34 antigen - benign / malignant vascular disorders, CD34+ progenitor cells</p> <p>Leukocyte common antigen – normal and malignant lymphoid cells</p> <p>CD56 antigen (NCAM) – NK cells, normal and malignant neural / neuroendocrine tissues / tumours</p> <p>CD68 antigen – macrophages, neoplasms of monocyte origin</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>CD10</p> <p>CD20</p> <p>CD30</p> <p>CD31</p> <p>CD34</p> <p>CD45 (LCA)</p> <p>CD56</p> <p>CD68</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>CD79a -: normal and malignant B lymphocytes</p> <p>CD99 expressed on T lymphocytes, cortical thymocytes, granulosa cells of the ovary, pancreatic islet cells, CNS ependymal cells and Sertoli's cells</p> <p>CDX2 - Intestine –specific transcription factor: adenocarcinoma and carcinoids of GI tract</p> <p>Carcinoembryonic antigen – normal and malignant epithelial cells</p> <p>Chromogranin A protein – normal and malignant neuroendocrine cells / tumours</p> <p>C-Kit oncoprotein (CD117 antigen): Gastro intestinal stromal tumours, small lung cell carcinomas, melanomas</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>CD79a</p> <p>CD99</p> <p>CDX2</p> <p>CEA</p> <p>Chromogranin A</p> <p>C-Kit (CD117)</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>High molecular weight cytokeratin (1, 5, 10 and 15): normal and malignant epithelial cells. Prostatic adenocarcinoma vs PIN / atypical hyperplasia, ductal adenosis vs carcinoma</p> <p>High molecular weight cytokeratin (1, 5, 10 and 15) normal and malignant epithelial cells, PIN / atypical hyperplasia, and alpha – methyl acyl-CoA racemase protein: prostatic adenocarcinoma</p> <p>Cytokeratin 20 – normal and malignant epithelial cells: gastrointestinal tumours, ovarian tumours, Merkel cell carcinoma</p> <p>Cytokeratin 5, 6 – normal and malignant epithelial cells, epithelioid mesothelioma</p> <p>Cytokeratin 7 - normal and malignant epithelial cells: tumours of unknown origin</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>CK34BE12</p> <p>CK34Be12/P504S cocktail</p> <p>CK20</p> <p>CK5/6</p> <p>CK7</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Cytokeratin 14 - normal and malignant epithelial cells: neoplasms of squamous cell origin</p> <p>Cytokeratin acidic and basic (pan) - normal and malignant epithelial cells</p> <p>Cytokeratin 8 - normal and malignant epithelial cells</p> <p>Cytokeratin 5,6,8,17 and 19 - normal and malignant epithelial cells</p> <p>Desmin – intermediate filament protein: muscle cells, tumours of muscle origin, reactive mesothelial cells</p> <p>Epithelial cadherin transmembrane cell adhesion molecule: ductal and lobular carcinoma</p> <p>Epithelial membrane antigen – normal and malignant epithelial cells</p> <p>Oestrogen receptors</p> <p>Gross cystic disease fluid protein -1%: metastases from breast carcinoma</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>CK14</p> <p>CK AE1/AE3</p> <p>CK CAM5.2</p> <p>CK MNF116</p> <p>Desmin</p> <p>E Cadherin</p> <p>EMA</p> <p>Oestrogen Receptor</p> <p>GCDP15</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>HMB45 antigen on intracytoplasmic protein; normal and malignant melanocytes</p> <p>Ki67 – proliferating cells in normal and neoplastic tissues</p> <p>Melanocyte differentiation marker – melanoma</p> <p>Neuron specific enolase: normal and malignant neuronal and neuroendocrine cells</p> <p>Wild / mutant type P53 tumour suppressor protein – neoplastic vs benign tissue</p> <p>P16 tumour suppressor protein - neoplastic vs benign tissue (HPV)</p> <p>P63 tumour suppressor protein - neoplastic vs benign tissue</p> <p>Pax-8 protein</p> <p>PD-L1 protein in urothelial carcinoma and non-small cell lung cancer</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>HMB45</p> <p>Ki 67</p> <p>MELAN-A</p> <p>NSE</p> <p>P 53</p> <p>P16 INK4a</p> <p>P63</p> <p>PAX-8</p> <p>PD-L1 SP263 clone</p>	<p>RGH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Immunohistochemistry to detect the following:(cont'd)</p> <p>Placental alkaline phosphatase – malignant germ cell tumours</p> <p>Progesterone receptors</p> <p>Prostate specific antigen - Normal and malignant cells of prostatic origin</p> <p>Prostate specific antigen - Normal and malignant cells of prostatic origin</p> <p>Protein gene product 9.5 pan – neuronal marker: normal and malignant neuronal and neuroendocrine cells</p> <p>Alpha – methyl acyl-CoA racemase protein – prostatic adenocarcinoma</p> <p>S100B protein- melanoma, normal and malignant cells of neuroectodermal origin</p> <p>Smooth muscle actin – smooth muscle cells, myofibroblasts, myoepithelial cells and related tumours.</p> <p>Synaptophysin membrane glycoprotein: Normal and malignant neuroendocrine cells</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies</p> <p>PLAP</p> <p>Progesterone receptor</p> <p>PSA Mab</p> <p>PSA Pab</p> <p>PGP9.5</p> <p>P504S</p> <p>S100</p> <p>Smooth muscle actin</p> <p>Synaptophysin</p>	<p>RGH</p>



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:	RGH
Formalin fixed paraffin embedded tissue (FFPE) sections on glass slides. (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunohistochemistry - Automated Method using Ventana Benchmark Ultra Incorporating the following antibodies (cont'd)	RGH
	Thrombomodulin: endothelial cells, epithelioid mesothelioma	Thrombomodulin (CD141)	
	Thyroglobulin – normal thyroid epithelium and malignant cells of thyroid origin	Thyroglobulin	
	Thyroid transcription factor – normal and malignant cells of thyroid and lung origin	TTF-1	
	Vimentin intermediate filament protein – normal and malignant mesenchymal cells	Vimentin	
	Wilms tumour 1 protein- Wilms tumour, malignant mesotheliomas, serous ovarian carcinoma. Normal endothelial cells, smooth muscle cells and epithelial cells	WT1	



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<p>HUMAN BODY FLUIDS AND TISSUE</p> <p>Fluids, brushings, imprints, fine-needle aspirations from a diverse range of Human body sites</p> <p>Slides prepared in-house</p>	<p><u>Cytopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities</p> <p>Demonstration of:</p> <p>Cells (nuclei and cytoplasm) and micro organisms</p>	<p>Procedures documented in relevant equipment manuals and in house documented procedures by the following methods:</p> <p>Diagnostic cytology (non-cervical)</p> <p>Preparation Liquid based cytology Cytospin SOPs: CPSWOM, NGPRE, NGMF, NGVOR, NGCEN, NGSP, NGTP, NGCYTO, NGDIR, NGFIXS, NGGEM, NGCOV, NGLABL, NGQA, NGMES, NGCB, NGCLOT, NGEFP</p> <p>Tinctorial stains:</p> <ul style="list-style-type: none"> • Papanicolaou stain • Romanowsky Stain • Giemsa • May Grunwald Giemsa <p>SOP NGSP</p> <p>Microscopy SOP NGMES</p>	<p>RGH</p>



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Testing performed by the Organisation at the locations specified

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>Microbiology examination activities for the purpose of clinical diagnosis</u>	In House documented methods based on related All Wales Standard Methods for Microbiology Investigations.	
Whole blood	Culture and detection of microorganisms	Automated Blood Culture (Biomerieux BacTAlert system) SOP CTMSOP 15	RGH
CSF & sterile fluids, Urines, Corneal scrapes, tissue samples, bone Swabs from pus, eyes, ears, throat, mouth, skin, nose, paranasal, Genital and GUM samples, Intravascular cannula and associated samples. Respiratory samples – sputum, BAL, NBL, NPA, sinus aspirates Bronchoscope sterility aspirates	Isolation and identification of bacterial and fungal isolates of clinical significance	Manual culture: CSF & sterile fluids SOP CTMSOP 14 & CTMSOP 8 Urines SOP CTMSOP 12 Wound swabs SOP CTMSOP 16 Eye swabs SOP CTMSOP Ear swabs SOP CTMSOP Throat swabs SOP CTMSOP 10 Tissue samples SOP CTMSOP 9 Mouth swabs SOP CTMSOP 19 Genital and GUM samples SOP CTMSOP 1 Respiratory Samples SOP CTMSOP 26, CTMSOP 13, CTMSOP 91 Intravascular cannula and associated samples SOP CTMSOP 27 Bone and prosthetic joint SOP CTMSOP 22 Skin and superficial sites SOP CTMSOP 11	RGH
Faeces	Isolation and identification of gastrointestinal pathogens of clinical significance	Manual culture SOP CTMSOP 80	RGH
Bacterial isolates produced by the laboratory	Antimicrobial susceptibility testing and EMIC gradients on bacterial isolates	Manual Disc Diffusion (EUCAST) SOP CTMSOP 3 E test Gradient strips SOP CTMSOP 50 & CTMSOP 37	RGH



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In House documented methods based on related All Wales Standard Methods for Microbiology Investigations.	
Groin, mouth, nasal, throat, wound, axillae, Urine swabs	Detection of MRSA	Manual culture using chromogenic media SOP CTMSOP 7	RGH
Nasal, groin, skin, anal swabs	Detection of Pseudomonas	Manual Culture using selective media SOP CTMSOP 20	RGH
Nails, hair, tissue & skin	Isolation and identification of fungal isolates of clinical significance	Manual culture SOP CTMSOP 21	RGH
Sputum, NBL, BAL, Pleural Fluid, PUS,	Presence or absence of Acid-Fast Bacilli	Heated ZN stain (light microscopy) – SOP CTMSOP 41 & CTMSOP 101	RGH
Bacterial/fungi/yeasts isolates produced by the laboratory and direct from Blood Cultures	Identification of bacteria / fungi / yeasts	Automated - BRUKER/BD MalDI-ToF by Matrix-assisted laser desorption/ionization. SOP CTMSOP 24	RGH
Urine	Examination for white and red blood cells, crystals, epithelial cells, casts, bacteria and yeasts	Automated using Beckman Coulter Iris iQ2000 Urinalysis SOP CTMSOP 12.0 Manual Microscopy SOP CTMSOP 12	RGH
Genital samples; High Vaginal Swab, endocervical, urethral	Detection of Trichomonas vaginalis, yeasts, white blood cells, clue cells.	Wet Films (Light Microscopy) CTMSOP 1	RGH
Urine	Detection of Pneumococcal and Legionella urinary antigen	BinaxNOW Antigen cards (Lateral Flow Cytometry) SOP MICRO 114	RGH
Faeces	Qualitative detection of rotavirus antigen	Using ProLab Proflow rotavirus rapid membrane immunoassay kit	RGH
Faeces	Detection of C. difficile toxins	Rapid Membrane Immuno Assay Meridian Bioscience SOP CTMSOP 35	RGH



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In House documented methods based on related All Wales Standard Methods for Microbiology Investigations.	
Bacterial/fungi/yeasts isolates produced by the laboratory	Identification of bacteria/fungi/yeasts	Manual methods Oxidase, chemical reaction SOP CTMSOP 31 Catalase, chemical reaction SOP CTMSOP 54 Staph latex, agglutination: SOP CTMSOP Tube coagulase, agglutination: SOP Strep latex grouping agglutination: SOP CTMSOP 36 Enteric Serology, agglutination: SOP CTMSOP 80 Urea, chemical reaction: SOP CTMSOP 34 β -lactamase, chemical reaction SOP CTMSOP 32 Optochin, growth inhibitor: SOP CTMSOP 38 X&V discs: growth enhancement: SOP CTMSOP 33 Tributylin, chemical reaction: SOP CTMSOP 95 E coli O157 latex SOP CTMSOP 55 Legionella latex SOP CTMSOP 39 Phadebact Monoclonal GC SOP CTMSOP 45 Target organism SOP CTMSOP 86	RGH
Blood Culture, Pus samples, eye swabs, genital swabs, CSF, Sterile Fluids	Differentiation between different organism types: gram positive /negative/ variable, branching organisms, yeast, fungal hyphae, presence of clue cells.	Gram stain (light microscopy) CTMSOP 56 Methylene Blue Stain (light microscopy) CTMSOP 59	RGH
Faeces	Detection and identification of ova, cysts and parasites	Concentration using Midi ParaSep and microscopic identification SOP CTMSOP 17	RGH



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In House documented methods based on related All Wales Standard Methods for Microbiology Investigations.	
Faeces	Detection of Oocysts of Cryptosporidium	Fluorescent microscopy – Auramine stain SOP CRMSOP 2	RGH
Peri-anal swab	Detection of Enterobius vermicularis	Microscopy - SOP CTMSOP 17	RGH
Urine	Detection and identification of Schistosoma haematobium	Concentration and microscopic identification SOP CTMSOP 17	RGH
Serum	Quantification of Anti Streptolysin O	Rheumajet ASO latex kit SOP CTMSOP 197	RGH
	Detection of:	Dynex DS2 by Enzyme Linked Immunosorbent assay	RGH
Faeces	Helicobacter pylori stool antigen	CTMSOP 4	
	C. Difficile antigen (GDH) Cryptosporidium EIA	CTMSOP 35	
Serum	Hep BsAg Hep A IgM Hep B Core Ab Hep C Ab HIV Ab/Ag	Roche COBAS 6000 EIA SOP MICRO 212	RGH
	Quantification of: Hep B surface Antibody	SOP MICRO 212	RGH
Serum	Measles IgG CMV IgG CMV IgM CMV Avidity	CHORUS by Enzyme Immunoassay SOP MICRO 211	RGH



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In House documented methods based on related All Wales Standard Methods for Microbiology Investigations.	
Serum	Syphilis total antibody	Triturus by Enzyme Linked Immunosorbent assay)	RGH
	ANC Screens (1 Test) HBsAg Syphilis total antibody, HIVAgA)	SOP MICRO 107 SOP MICRO 75	
Serum	ToxoPlasma IgG ToxoPlasma IgM VZV IgG Lyme IgG Lyme IgM EBV NAIGG Rubella IgM	Biomerieux min-VIDAS by Enzyme Immunoassay SOP-MICRO 123	RGH
	Hep A Total antibody		
	HIV Ag/Ab HepB core total HepB sAg HBeAg Anti-HBe Anti-HBc IgM		
	Rubella IgG Hepatitis E Igg and IgM		
HUMAN BODY FLUIDS AND TISSUES	<u>Miscellaneous examination activities for the purpose of clinical diagnosis</u>	In House documented methods based on manufacturer's instructions for use	
Urine	Pregnancy testing by detection of Human chorionic gonadotropin (hCG)	Clinitest chromatographic immunoassay (CIA) SOP CTMBSOP 47	RGH

END