


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	West Hertfordshire Hospitals NHS Trust	
	Issue No: 004 Issue date: 17 June 2020	
	Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Contact: Peter Gregory or Eleanor Leonard Tel: +44 (0)1923 217171 E-Mail: peter.gregory@whht.nhs.uk
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 Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Local contact Peter Gregory Eleanor Leonard Chris Hessey	Haematology Coagulation Blood Transfusion WGH
Address Haematology Department Pathology Department Hemel Hempstead General Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD	Local contact Peter Gregory Eleanor Leonard Chris Hessey	Haematology Coagulation Blood Transfusion Immunology HHH



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address: Blood fridge, WGH Main Theatre Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p> <p>Local contact: Chris Hessey</p>	<p>Satellite Blood Issue Fridge for storage of blood and products</p>	
<p>Address: Blood fridge, WGH Maternity Delivery Suite Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p> <p>Local contact: Chris Hessey</p>	<p>Satellite Blood Issue Fridge for storage of blood and products</p>	
<p>Address: Blood fridge, WGH Helen Donald Unit Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p> <p>Local contact: Chris Hessey</p>	<p>Satellite Blood Issue Fridge for storage of blood and products</p>	
<p>Address: WGH Phlebotomy Haematology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p> <p>Local contact: Jan Stammers</p>	<p>Phlebotomy</p>	
<p>Address: Blood fridge, Main Theatres St Albans City Hospital Waverly Road St Albans Hertfordshire AL3 5PN</p> <p>Local contact: Chris Hessey/ Matt Ginger</p>	<p>Satellite Blood Issue Fridge for storage of blood and products</p>	



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Location details	Activity	Location code
Address: Phlebotomy St Albans City Hospital Waverly Road St Albans Hertfordshire AL3 5PN Local contact: Nadene Short	Phlebotomy	
Address: Blood fridge, Immunology corridor Hemel Hempstead Hospital Pathology Department Hemel Hempstead General Hospital Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD Local contact: Chris Hessey/ Matt Ginger	Satellite Blood Issue Fridge for storage of blood and products	
Address: Phlebotomy Hemel Hempstead General Hospital Pathology Department Hillfield Road Hemel Hempstead Hertfordshire HP2 4AD Local contact: Nadene Short	Phlebotomy	



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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	Blood Transfusion <u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Venous whole blood	Blood Group (ABO & RhD) and antibody Detection	<u>Automated method</u> Diamed (BioRad) Gelstation: Gel-capture with optical detection and NHSBT Antibody 2 cell Screen (SOP: HASOPBT201/202/203/204/208) <u>Manual method</u> Diamed (BioRad): Gel Capture-Manual technique agglutination and NHSBT Antibody 2 cell Screen (SOP: HASOPBT206)	WGH
Venous whole blood	Atypical antibody Identification <ul style="list-style-type: none"> • Rh blood group system: C, c, D, E, e, C^w • Kell blood group system: • K, k, Kp^a • Kidd blood group system: Jk^a, Jk^b • Duffy blood group system: Fy^a, Fy^b • MNS blood group system: M, N, S, s • P blood group system: P1 • Lewis blood group system: Le^a, Le^b 	<u>Manual method</u> Diamed (BioRad) Gelstation: Gel-capture with optical detection Manual and NHSBT Antibody Identification 10-cell panel (SOP: HASOPBT205) <u>Automated method</u> Diamed (BioRad) Gelstation: Gel-capture with optical detection Automated and Manual and NHSBT Antibody Identification 10-cell panel (SOP: HASOPBT205)	WGH



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HUMAN BODY FLUIDS (cont'd)	Blood Transfusion (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Venous whole blood	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u> Direct Antiglobulin Test (DAT)	<u>Manual method</u> Diamed (BioRad): Gel Capture-Manual technique. (SOP: HASOPBT902) <u>Automated method</u> Diamed (BioRad): Gel Capture-Automated technique. (SOP: HASOPBT902)	WGH
Venous whole blood	Estimation of fetal bleed in maternal circulation (Kleihauer Screen)	Light Microscopy, Kleihauer Acid Elution Methodology (Clin-Tech) (SOP: HASOPBT905)	WGH
Venous whole blood	Compatibility testing of patient's plasma with donor cells (Serological Crossmatch)	Diamed (BioRad): Gel Capture-Serological Crossmatch, Manual technique and visual detection (SOP: HASOPBT303)	WGH



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous whole blood</p>	<p>Blood Transfusion (cont'd)</p> <p><u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Red cell Phenotyping:</p> <ul style="list-style-type: none"> • Rh blood group system: C, c, E, e, C^w • Kell blood group system: K, Kp^a • Kidd blood group system: Jk^a, Jk^b • Duffy blood group system: Fy^a, Fy^b • MNS blood group system: M, N, S, s • Lutheran blood group system: Lu^a • ABO blood group system: A1 	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Diamed (BioRad): Gel Capture- Manual technique; Using IgG Reagent. (SOP: HASOPBT501) Using IgM Reagent (SOP: HASOPBT502)</p>	<p>WGH</p>



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HUMAN BODY FLUIDS (cont'd)	Haematology		
	<u>Haematology examination activities for the purposes of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
EDTA whole blood	Full blood count: Haemoglobin (Hb) Red cell count (RBC), Platelet count, Haematocrit, White blood cell count (WBC) Differential white blood cell count (Neutrophil, Lymphocyte, Monocyte, Eosinophil, Basophil), NRBC count, MCV MCH	Beckman Coulter DxH: using fluorescence flow cytometry, electrical impedance, SLS-haemoglobin method, sheath flow direct current (DC) detection method and calculated red cell parameters (SOP: HASOPHA53)	WGH HHH
EDTA whole blood	Automated Reticulocyte Count	Beckman Coulter DxH: using fluorescence flow cytometry, (SOP: HASOPHA53)	WGH HHH
EDTA whole blood	Erythrocyte Sedimentation Rate (ESR)	<u>Automated method</u> Menarini Ves-Cube automated analyser, modified Westergren Sedimentation Method (SOP: HASOPHA70)	WGH HHH
EDTA whole blood	Detection of malarial antigens of: <i>P.falciparum</i> Pan-detection for <i>P.Malariae</i> , <i>P.Ovale</i> & <i>P. Vivax</i>	CareStart monoclonal antibody-antigen reaction (SOP: HASOPHA52)	WGH HHH
EDTA whole blood	Detection of Malarial Parasites and Speciation on thin films : <i>Plasmodium falciparum</i> <i>Plasmodium malariae</i> <i>Plasmodium ovale</i> <i>Plasmodium vivax</i> <i>Plasmodium knowesi</i>	Fields and Dilute Giemsa staining with light microscopic detection. (SOP: HASOPHA51/HASOPHA01)	WGH HHH



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HUMAN BODY FLUIDS (cont'd)	Haematology (cont'd) <u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
EDTA whole blood	Examination of Peripheral Blood Films, detection of normal and abnormal morphology and white cell differential count	Manual Peripheral Blood film staining May-Grunwald-Giemsa (MGG) stain (SOP: HASOPHA30) Automated Peripheral Blood film staining May-Grunwald-Giemsa (MGG) stain using Beckman Coulter SMS (SOP: HASOPHA62) Light Microscopy on MGG stained slides (SOP: HASOPHA27)	WGH HHH
BM aspirate	Examination of Bone Marrow Films, detection of normal and abnormal morphology	Manual Bone Marrow film staining May-Grunwald-Giemsa (MGG) stain (SOP: HASOPHA30) Automated Bone Marrow film staining May-Grunwald-Giemsa (MGG) stain using Beckman Coulter SMS (SOP: HASOPHA62)	WGH HHH
EDTA whole blood	Sickle Screening Test	Sickle Solubility test kit(TCS Biosciences) Qualitative assessment of Haemoglobin S (SOP: HASOPSH19)	WGH HHH



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HUMAN BODY FLUIDS (cont'd)	Haematology (cont'd) <u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Thalassaemia and Abnormal Haemoglobin Screening</u>	Documented in-house procedures in conjunction with manufacturer's equipment manuals: Documented in-house methods to meet the requirements of the SCT screening programme as defined in the 27th July 2018 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements'. BioRad Variant II HPLC liquid Chromatography (SOP: HASOPSH09) Confirmation using Acid/Alkali Gel Electrophoresis, Helena Gel system (SOP: HASOPSH01)	HHH
EDTA whole blood	Quantitation of HbA ₂ Quantitation of HbF Quantitation of HbS Variant Hb		
EDTA whole blood	Glandular Fever Screen	Clearview II kit, qualitative, lateral flow immunoassay for the detection of IM heterophile antibodies (SOP: HASOPHA26)	WGH HHH
EDTA whole blood	Glucose 6 Phosphate Dehydrogenase (G6PD) screen	Fluorescence Spot-Trinity Biotech modified Beutler Technique (SOP: HASOPHA10)	HHH
Bone Marrow/Urine	Iron stain	Light microscopy of Perls Prussian Blue reaction, qualitative assessment of Hemosiderin by ferric ferrocyanide (SOP: HASOPHA29)	WGH HHH



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HUMAN BODY FLUIDS (cont'd)	Coagulation <u>Haematology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Citrated Whole Blood	Prothrombin Time/ INR Warfarin control	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP:HASOPCO22)	WGH HHG
Citrated Whole Blood	Activated Partial Thromboplastin Time (APTT)/ Heparin Ratio	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Thrombin time	Werfen Automated Coagulometer ACL TOP 550 clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Fibrinogen/QFA Assay	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	D-Dimer Assay	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO22)	WGH HHH
Citrated Whole Blood	Clotting Factor Assays: VIII IX XI	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO23)	WGH
Citrated Whole Blood	Clotting Factor Assays: VIII IX XI XII II VII X V	Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO23)	HHH



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HUMAN BODY FLUIDS (cont'd)	Coagulation <u>Haematology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's equipment manuals:	
Citrated Whole Blood	Thrombophilia Screening (AT activity, Protein C activity, Free Protein S Antigen)	Werfen Automated Coagulometer ACL TOP 550 Chromogenic and immuno-turbidometric detection point detection. (SOP: HASOPCO24)	HHH
Citrated Whole Blood	Von Willebrands Antigen, Activity	Werfen Automated Coagulometer ACL TOP 550 Immuno-turbidometric Latex agglutination detection. (SOP: HASOPCO21)	HHH
Citrated Whole Blood	Anti-Xa Activity	Werfen Automated Coagulometer ACL TOP 550 Chromogenic detection. (SOP: HASOPCO26)	WGH HHH
Citrated Whole Blood	Lupus Anticoagulant Screening	APTT and DRVVT methodology Werfen Automated Coagulometer ACL TOP 550 Electronic clot end point detection. (SOP: HASOPCO25)	HHH



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<p>HUMAN BODY FLUIDS</p> <p>Blood (Serum)</p>	<p>Immunology</p> <p><u>Immunology examination activities for the purposes of clinical diagnosis</u></p> <p>Specific IgE: House dust mite Cat dander Dog dander Egg white Milk Fish (cod) Wheat Peanut Soya bean Hazel nut Brazil nut Almond</p>	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)</p>	<p>HHH</p>



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HUMAN BODY FLUIDS (cont'd)	<p>Immunology (cont'd)</p> <p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Specific IgE (cont'd): Pecan nut Cashew nut Pistachio Walnut Nut mix Mixed grass pollen Aspergillus fumigatus Mould mix Common silver birch Mixed tree pollen Penicilloyl G Penicilloyl V Amoxicilloyl Horse dander Guinea pig epithelium Budgerigar feathers Rabbit epithelium Hamster epithelium Milk (Bos d 6) Parrot feathers Barley Oat Rice Sesame seed Pea White bean Crab Tomato Pork Beef Carrot Orange Potato Blue Mussel Tuna Salmon Haddock</p>	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)</p>	HHH



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HUMAN BODY FLUIDS (cont'd)	<p>Immunology (cont'd)</p> <p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Specific IgE (cont'd): Strawberry Yeast Garlic Onion Shrimp Coconut Apple Egg yolk Milk (Bos d 4) Milk (Bos d 5) Milk (Bos d 8) Gluten Lobster Cheese, cheddar type Chicken meat Kiwi Melon Mustard Mango Banana Cacao Pear Peach Avocado Mackerel Lemon Pineapple Mushroom Paprika (Sweet pepper) Pumpkin seed Egg (nGal d 2) Egg (nGal d 1) Lentil Cherry Pine nut Plaice Squid (Atlantic) Grape</p>	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)</p>	HHH



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HUMAN BODY FLUIDS (cont'd)	<p>Immunology (cont'd)</p> <p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Specific IgE (cont'd): Aubergine (eggplant) Chilipepper Goat milk Chick pea Rape seed Egg (nGal d 3) Raspberry Macadamia nut Peanut (rAra h 8) rBer e 1 (Brazil nut) Wheat (Tri a 19 Omega-5 Gliadin) rPru P 3 LTP (Peach) Peanut (rAra h 1) Peanut (rAra h 2) Peanut (rAra h 3) Hazel nut (Cor a 8) Peanut (rAra h 9) Hazel nut (Cor a 1) Hazel nut (Cor a 14) Hazel nut (Cor a 9) Walnut (Jug r 1) Walnut (Jug r 3) Cashew nut (Ana o 3) Seafood mix Food mix Timothy grass Budgerigar mix Pigeon mix Micropolyspora faeni IgG Thermactinomyces vulgaris IgG Honey Bee Common Wasp Yellow hornet Latex Sunflower seed</p>	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)</p>	HHH



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HUMAN BODY FLUIDS (cont'd)	<p>Immunology (cont'd)</p> <p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Specific IgE (Cont'd): Penicillium chrysogenum Cladosporium herbarum Alternaria alternata Weed mix</p> <p>Total IgE Specific IgG Mast Cell Tryptase Anti-Thyroid Peroxidase Ab Anti-ENA Ab Screen Anti-dsDNA Ab Anti-MPO Ab Anti-PR3 Ab Anti-GBM Ab Anti-Cardiolipin Ab (IgG) Anti-Cardiolipin Ab (IgM) Anti-β2-Glycoprotein 1 (IgG) Anti-tTG Ab (IgA) Anti-CCP Ab</p>	<p>Documented in-house procedures in conjunction with manufacturer's equipment manuals:</p> <p>Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)</p>	HHH
Faecal sample	Calprotectin	Enzyme Immunoassay using Phadia 250 (SOP: HASOPIM20)	HHH
Blood (Serum)	<p>Anti-nuclear Antibody (ANA) Smooth Muscle Antibody (SMA) Anti-Mitochondrial Antibody (AMA) Gastric Parietal Cell Antibody (GPC) Crithidia Antibody Islet Cell Antibody Endomysial Antibody (IgA + IgG)</p>	<p>Immunofluorescence-HTZ 320 Automated Slide processor and fluorescent microscopy, (SOP: HASOPIM41)</p>	HHH



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HUMAN BODY FLUIDS (cont'd) Blood (Serum)	Immunology (cont'd) <u>Immunology examination activities for the purposes of clinical diagnosis (cont'd)</u> Liver Kidney Microsomal Antibody (LKM) Intrinsic Factor Mitochondrial (AMA-M2) Antibody	Documented in-house procedures in conjunction with manufacturer's equipment manuals: ImmunoBlots-Blue Diver methodology (SOP: HASOPIM38)	HHH
END			