# **Schedule of Accreditation**

issued by

**United Kingdom Accreditation Service** 

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



#### Site activities performed away from the locations listed above:

| Location details  | Activity  |
|---|---|
| Blood collection lobby P 1.027<br>Great Ormond Street Hospital<br>London<br>WC1N 3JH  | Blood component storage fridge<br>Platelet incubator / agitator PC900<br>No testing occurs on this site, blood storage only |
| Flamingo CICU Level 4 MSB N4100<br>Great Ormond Street Hospital<br>London<br>WC1N 3JH | Blood component storage fridge<br>No testing occurs on this site, blood storage only  |
| Main Theatres Level 3 MSB N3016<br>Great Ormond Street Hospital<br>London<br>WC1N 3JH | Blood component storage fridge<br>No testing occurs on this site, blood storage only  |



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#### Great Ormond Street Hospital for Children NHS Foundation Trust

Issue No: 012 Issue date: 20 January 2025

Testing performed at main address only

#### DETAIL OF ACCREDITATION

| Materials/Products Tested                               | Type of test/Properties<br>measured/Range of measurement  | Standard specifications/<br>Equipment/Techniques used   |
|---|---|---|
| HUMAN TISSUE AND FLUIDS                                 | Haematology examinations for the purposes of clinical diagnosis   | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant  |
| Whole Blood (EDTA)                                      | Full blood counts and automated<br>differential:<br>Haemoglobin (Hb)<br>White Blood Cell Count (WBC)<br>Red Blood Count (RBC)<br>Platelet Count<br>Haematocrit<br>Mean Cell Volume (MCV)<br>Mean Cell Haemoglobin (MCH)<br>Mean Cell Haemoglobin<br>Concentration (MCHC)<br>Red Cell Distribution Width (RDW)<br>Neutrophils<br>Lymphocytes<br>Monocytes<br>Eosinophils<br>Basophils<br>NRBC<br>Reticulocytes | Sysmex XN2000<br>Fluorescence flow cytometry,<br>electrical impedance, SLS-<br>haemoglobin method, RBC pulse<br>height detection method, sheath<br>flow direct current (DC) detection<br>method and calculated red cell<br>parameters<br>HSOP 204A & HSOP 208 |
| CSF/Body fluid/peritoneal, pleural and bronchial lavage | White Cell Count, Red Cell Count and White Cell Differential  | Automated Method:<br>XN-2000, HSOP 207 and 214  |
| Whole Blood (EDTA)                                      | Erythrocyte Sedimentation Rate (ESR)  | P4 Westergren Kits manufactured<br>by Aquisel<br>HSOP 216 – manual method<br>Manual ESR Aquisel tubes<br>Equipment / Westergren method  |
| Bone marrow   | Staining and examination of bone<br>marrow films: in order to identify or<br>exclude Morphological and<br>Cytological abnormalities for the<br>purpose of diagnosis   | Manual slide preparation and<br>interpretation.<br>HSOP 210 Staining of Bone<br>Marrow Slides using the<br>Hematek® Slide stainer<br>HQU 016 Clinical Reporting Policy  |



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|-------------------------------------|---|---|
| HUMAN TISSUE AND FLUIDS<br>(cont'd) | Haematology examinations for the purposes of clinical diagnosis (cont'd)  | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant              |
| Whole Blood (EDTA)                  | Staining and examination of<br>peripheral Blood Film: Detection of<br>normal and abnormal morphologies<br>and white blood cell differential | Blood film preparation and<br>examination by light microscopy<br>HSOP 210, HSOP 211,<br>FSOP 470.                       |
| Whole blood (EDTA)                  | Malarial Parasite Antigen for pLDH<br>(plasmodium Lactate<br>Dehydrogenase). Detects<br>Plasmodium +/-Falciparum (HRP <sub>2</sub> )        | CareStartTM Malaria<br>Rapydtest (RDT).<br>immunochromatogenic membrane<br>assay<br>HSOP 213                            |
| Whole Blood (EDTA)                  | Sickle Solubility test for presence of sickle haemoglobin (HbS)   | Using<br>SickleDex Sickle Solubiltiy Kit<br>Manual Method – Relative<br>insolubility<br>HSOP 220 Sickle Solubility Test |
| Whole Blood (EDTA)                  | Glandular fever by detection of IM<br>IgM heterophile antibodies  | Clearview IM (Infectious<br>Mononucleosis) test using HSOP<br>221 Chromatographic<br>immunoassay                        |
| CSF                                 | White Cell Count, Red Cell Count  | HSOP 214 – chamber count,<br>Shandon Cytospin & microscopy  |
| Whole blood (EDTA)                  | Glucose-6-Phosphate (G6PD)<br>quantitation  | Pointe Scientific Kit<br>Cecil Spectrophotometer,<br>Enzymecolorimetric method<br>HSOP 264                              |



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|---|--|--|
| HUMAN TISSUE AND FLUIDS<br>(cont'd)         | Biochemistry examination activities<br>for the purpose of clinical diagnosis               | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant   |
| Plasma (EDTA)                               | Quantitation of Methotrexate   | ARK <sup>™</sup> Immunoassay using HSOP<br>218 and manufacturers'<br>instructions for Vitros 7600  |
| Plasma (Citrate) unless otherwise specified | Haematology examinations for the purposes of clinical diagnosis                            | In house documented procedures<br>based on standard methods and<br>incorporating Sysmex CN3000<br>analyser manufacturers'<br>instructions as relevant: for all<br>tests below unless otherwise<br>stated |
|   | Coagulation screen:<br>Prothrombin Time, APTT, Thrombin<br>Time, Fibrinogen, Mixing tests, | Photometric end-point clot<br>detection HSOP 109   |
|   | D Dimers   | Latex Immunoassay<br>HSOP 109  |
|   | Factors II, V, VII, VIII, IX, X, XI, XII   | One Stage assay using multi<br>dilution analysis HSOP 120  |
|   | Factor VIII<br>Factor XIII   | Chromogenic assay<br>HSOP 120  |
|   | Antithrombin Antigen   | Immunoturbidimetric Assay,<br>HSOP 148   |
|   | Protein C Activity   | Chromogenic assay HSOP 148   |
|   | Free Protein S Antigen   | Latex Immunoassay<br>HSOP 148  |
|   | Lupus Anticoagulant Screen by DRVVT  | DRVVT HSOP 137   |
|   | Plasminogen  | Chromogenic assay HSOP 133   |
|   | Activated Protein C Resistance<br>(APCr)   | Clotting assay HSOP 148  |
|   | Antithrombin Activity  | CN3000 Chromogenic Assay,<br>HSOP 148  |



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|---|---|
| Haematology examinations for the purposes of clinical diagnosis (cont'd)                | In house documented procedures<br>based on standard methods and<br>incorporating Sysmex CN3000<br>analyser manufacturers'<br>instructions as relevant: for all<br>tests below unless otherwise<br>stated  |
|   |   |
| Heparin Anti Xa activity  | Photometric end-point clot<br>detection<br>HSOP 109   |
| Inhibitor Assays - FVIII, FIX   | Clotting assay, Bethesda Assay<br>HSOP 127  |
| Alpha 2 antiplasmin   | Chromogenic assay HSOP 133  |
| Von Willebrand Factor Collagen<br>Binding Assay (vW:CBA)                                | Manual Method<br>ELISA read on<br>MultiSkan plate reader<br>HSOP 158  |
| Von Willebrand Factor antigen,<br>(vW:Ag), Von Willebrand Factor<br>Activity (vW:GpIbM) | Latex assay<br>HSOP 128   |
| Platelet function (PFA)   | Platelet Function Analysis Via<br>Shear Flow Volume for<br>Collagen/Epinephrine and<br>Collagen/ADP<br>HSOP 134   |
|   | <ul> <li>measured/Range of measurement</li> <li>Haematology examinations for the purposes of clinical diagnosis (cont'd)</li> <li>Heparin Anti Xa activity</li> <li>Inhibitor Assays - FVIII, FIX</li> <li>Alpha 2 antiplasmin</li> <li>Von Willebrand Factor Collagen Binding Assay (vW:CBA)</li> <li>Von Willebrand Factor antigen, (vW:Ag), Von Willebrand Factor Activity (vW:GplbM)</li> </ul> |



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|-------------------------------------|--|--|
| HUMAN TISSUE AND FLUIDS<br>(cont'd) | Blood transfusion examinations   | Documented in-house procedures<br>based on manufacturer's<br>instructions              |
| Whole blood (EDTA)                  | <ul><li>Blood grouping by antigen screening:</li><li>ABO/D blood groups</li><li>Antibody screening</li></ul>   | Automated method using HSOP<br>331, 331C<br>Bio-Rad IH-500                             |
| Whole blood (EDTA)                  | Antibody Identification for the<br>following antigens:<br>D,C,E,c,e,Cw,K,k,Kpa,Kpb,Fya,Fyb,<br>Jka,Jkb,Lea,Leb,P1,M,N,S,s,Lua,                                     | Automated identification of red<br>cell antibodies<br>HSOP 306<br>Bio-Rad IH-500       |
| Whole blood (EDTA)                  | <ul> <li>Blood grouping by antigen screening:</li> <li>ABO/D blood groups</li> <li>Antibody screening</li> </ul>   | Manual method using Diamed ID<br>Gel cards<br>HSOP 305                                 |
| Whole blood (EDTA)                  | Antibody screening and<br>identification using cells containing<br>the following antigens:<br>D,C,E,c,e,Cw,K,k,Kpa,Kpb,Fya,Fyb,<br>Jka,Jkb,Lea,Leb,P1,M,N,S,s, Lua | Manual method using Diamed ID<br>Gel cards<br>HSOP 306                                 |
| Whole blood (EDTA)                  | Direct Antiglobulin Test (DAT)   | Automated method using Bio-Rad<br>IH-500 and HSOP319                                   |
| Whole blood (EDTA)                  | Direct Antiglobulin Test (DAT)   | Manual method Diamed Gel cards using HSOP319   |
| Whole blood (EDTA)                  | Compatibility Testing:<br>Serological Crossmatch -<br>serological compatibility testing<br>between donor red cell antigens<br>and patient plasma                   | Diamed Gel cards using<br>HSOP307  |
| Whole blood (EDTA)                  | Red cell phenotyping for the following antigens:<br>C,E,c,e,Cw,K,  | Manual using Diamed cards and<br>automated method using Bio-Rad<br>IH-500 and HSOP 308 |
| Whole blood (EDTA)                  | Isohaemagglutinins<br>Anti-A IgM immunoglobulin<br>Anti-B IgM immunoglobulin   | Cold agglutination titration using HSOP 312  |



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|--|---|--|
| HUMAN TISSUE AND FLUIDS<br>(cont'd)                  | Blood transfusion examinations<br>(cont'd)                            | Documented in-house procedures<br>based on manufacturer's<br>instructions  |
| Plasma (EDTA blood)                                  | Semiquantitative detection of Total ABO Isohaemagglutinins (IgG/IgM)  | Titration performed manually or by automated method using the IH-<br>500   |
|  |   | HSOP 312   |
|  | Molecular testing examinations for the purposes of clinical diagnosis | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant   |
| Bone Marrow / Peripheral Blood /<br>Unstained slides |   | DNA extraction for downstream applications/assays using:   |
|  |   | QIAamp extraction mini blood<br>DNA extraction kit and in house<br>procedure HSOP 499<br>NanoDrop One UV-Vis<br>Spectrophotometer  |
| Blood EDTA, Bone marrow (EDTA or ACD)                |   | Cell sorting for downstream applications/assays using:   |
|  |   | Magnetic bead cell sorting<br>technology following<br>manufacturers' instructions for Cell<br>Fractionation using the AutoMACS<br>Pro and MultiMACS X using in-<br>house standard operating<br>procedures HSOP 461.                                |
|  |   | Lymphoprep Ficoll cell sorting<br>process using in-house standard<br>operating procedure HSOP 407  |
| RNA derived from Blood/<br>Bone Marrow               |   | Reverse transcription using<br>commercially available kit<br>(GoScript), thermal cyclers and<br>in-house standard operating<br>procedures; HSOP 499, HSOP<br>780<br>Analysis of products for QC<br>purposes using Albumin control<br>gene HSOP 500 |



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|---|--|---|
| HUMAN TISSUE AND FLUIDS<br>(cont'd)                           | Molecular testing examinations for<br>the purposes of clinical diagnosis<br>(cont'd)   | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant  |
| DNA from Bone Marrow/Peripheral<br>Blood                      | Kymriah Chimeric Antigen Receptor<br>(CAR T)   | Quantitative measurement using<br>digital droplet PCR (ddPCR).<br>Range of Measurement: 0 –<br>100%. Using Bio-Rad QX200 Auto<br>Droplet Generator Plate Sealer<br>(Bio-Rad) Bio-Rad C1000 Touch<br>Thermal Cycler Bio-Rad QX200<br>Plate Reader and SOP ASOP 117   |
| DNA from Bone Marrow / Peripheral<br>Blood / Unstained slides | Minimal Residual Disease analysis<br>as defined by (number of cells<br>displaying clonal rearrangement<br>previously identified at diagnosis)<br>on patient follow-up samples.<br>Range of Measurement: 10 –<br>0.0001% (within maximum range of<br>1 – 5 logs). | Next Generation Sequencing<br>using Illumina MiSeq Sequencer<br>(Life Technologies)<br>following in-house SOPs<br>MRD NGS Library preparation<br>HSOP 805<br>ALL MRD Selection of Targets,<br>Design and Ordering of ASO<br>primers HSOP 496,<br>ALL MRD Control Gene Analysis<br>HSOP 500,<br>ALL MRD Measurement by RQ-<br>PCR HSOP 501.<br>ALL MRD Measurement by RQ-<br>PCR for ALLtogether trial (A2G) |



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| HUMAN TISSUE AND FLUIDS<br>(cont'd) | Molecular testing examinations for<br>the purposes of clinical diagnosis<br>(cont'd) | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant  |
| DNA                                 | Chimerism genotyping   | Using G-storm 4 and Proflex<br>thermal cyclers, 3500xl Genetic<br>Analyser and PowerPlex Fusion<br>commercial kit (Promega) for STR<br>analysis, HSOP 460, HSOP 790,<br>HSOP 791 and FSOP 49  |
| Sorted cells from blood (EDTA)      | Quantification of T cell receptor diversity  | T cell receptor spectratyping using<br>Magnetic bead cell sorting of T<br>cells using HSOP 461 and HSOP<br>466 (Spectratyping Guidelines).  |
|                                     |  | RNA extraction using commercial<br>kit (Qiagen) and following<br>manufacturers' instruction and in-<br>house standard operating<br>procedure HSOP 499.  |
|                                     |  | Reverse transcription for cDNA<br>synthesis using commercial kit<br>(Invitrogen) and in-house standard<br>operating procedures HSOP 780<br>RT-PCR using HSOP 467<br>Fragment analysis HSOP 468  |
|                                     |  | AutoMACS Pro (MiltenyiBiotec),<br>GorScript <sup>™</sup> First-Strand Synthesis<br>System for RT-PCR (Promega),<br>QiagenHot Star Taq DNA<br>Polymerase, G Storm 4 PCR<br>machine and ProFlex machines,<br>3500xl Genetic Analyser (FSOP<br>491). |
|                                     |  |   |



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| HUMAN TISSUE AND FLUIDS<br>(cont'd)          | Molecular testing examinations for<br>the purposes of clinical diagnosis<br>(cont'd)                   | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant  |
| TCRE DNA from cells sorted from blood (EDTA) | Thymic T-cell recovery   | Detection of T cell receptor excision circle using:   |
|  |  | Taqman Universal PCR Mastermix<br>and the Taqman 7500 Fast PCR<br>System (Life Technologies) or<br>QuantStudio realtime instrument.   |
|  |  | Quantitative real-time PCR using<br>manufacturers' instructions and<br>HSOP 482 TRECs part 2 - qPCR<br>and HSOP 483 TRECs part 3  |
| Extracted DNA                                | Adenosine Deaminase Deficient<br>(ADA) Severe Combined<br>Immunodeficiency (SCID) Mutation<br>Analysis | G Storm 4, ProFlex or Veriti PCR<br>machine.<br>3500xl Genetic Analyser.<br>DNA extraction using commercial<br>kit (Qiagen) HSOP 499.<br>PCR using Qiagen Hot Star Taq<br>DNA Polymerase with HSOP 735<br>and HFM743<br>PCR product clean-up using<br>commercial enzymatic method<br>(ExoStar, GE Healthcare) and<br>HSOP 736.<br>Cycle Sanger sequencing using<br>commercial method (Big Dye 3,<br>Life Technologies) and HSOP 737 |



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| HUMAN TISSUE AND FLUIDS<br>(cont'd) | Molecular testing examinations for<br>the purposes of clinical diagnosis<br>(cont'd)                                       | Following in-house documented<br>procedures and manufacturer's<br>equipment instructions where<br>relevant  |
| Extracted DNA                       | Mutation detection for Factor V<br>Leiden and Prothrombin Variant  | Thrombotic Mutation Detection<br>Assay by Taqman Q-PCR.<br>HSOP444  |
|                                     |  | TaqMan ® Fast Universal PCR<br>Master Mix (2X) (No AmpErsae<br>UNG), TaqMan 7500 Fast PCR<br>system or QuantStudio realtime<br>instrument                   |
|                                     | Immunophenotyping examinations<br>for the purposes of clinical<br>diagnosis  | Using manufacturers instructions<br>for Becton Dickinson FACSCanto<br>II 3 laser flow cytometer or BD<br>Fortessa flow cytometer and in<br>house procedures |
| Blood                               | Platelet Glycoproteins<br>Quantification of surface expression<br>of platelet glycoproteins Gplb,<br>Gpllb/IIIa and GplIIa | HSOP427, FSOP489, HSOP490<br>and HSOP491  |
| Blood<br>Bone marrow                | Quantification of Paroxysmal<br>Nocturnal Haemoglobinuria (PNH)<br>clone   | HSOP488, FSOP489, HSOP490<br>and HSOP491  |
|                                     |  |   |
|                                     |  |   |
|                                     |  |   |
|                                     |  |   |



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| HUMAN TISSUE AND FLUIDS<br>(cont'd)  | Immunophenotyping examinations<br>for the purposes of clinical<br>diagnosis (cont'd)  | Using manufacturers instructions<br>for Becton Dickinson FACSCanto<br>II 3 laser flow cytometer or BD<br>Fortessa flow cytometer and<br>documented in house procedures |
| Blood<br>Bone marrow<br>Pleural fluid<br>Ascitic fluid<br>Pericardial fluid<br>Cerebro-spinal fluid<br>Biopsies<br>Other fluids and tissues as indicated | <ul> <li>Full Bone marrow / blood<br/>characterization</li> <li>Extended Myeloid<br/>immunophenotyping</li> <li>Lymphoid phenotyping</li> <li>Lymphoma phenotyping</li> <li>B-cell maturation phenotyping</li> <li>T-cell phenotyping</li> <li>Erythroid phenotyping</li> <li>Myelodysplastic</li> <li>/ Myeloproliferative phenotyping:<br/>CD19, CD2, CD34, CD10, CD13,<br/>CD45, CD20,CD16, CD7, CD4,<br/>CD5, CD117, CD33, HLADR,<br/>sCD3, CD8, CD79b, CD38, CD86,<br/>CD44, NG2, CD24,CD22, CD41a,<br/>CD42b, CD61, CD11b, CD15,<br/>CD14, CD64, CD71, GlyA, CD133,<br/>CD56</li> <li>Others as indicated:<br/>Kappa, Lambda, CD1a, Smlg,<br/>TCRalpha/beta, TCR gamma/delta,<br/>CD123, CD21, PD1</li> </ul> | HSOP413, HSOP414A,<br>HSOP414B, HSOP415,<br>HSOP416, HSOP419, HSOP420,<br>HSOP421, FSOP481, FSOP489,<br>HSOP490 and HSOP491  |
| Blood<br>Bone marrow   | CD66abce expression   | FSOP485, FSOP489, HSOP490<br>and HSOP491   |
| Blood<br>Bone marrow<br>Cerebro-spinal fluid   | NG2 expression  | HSOP416 ,FSOP489, HSOP490<br>and HSOP491   |



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| HUMAN TISSUE AND FLUIDS<br>(cont'd)  | Immunophenotyping examinations<br>for the purposes of clinical<br>diagnosis (cont'd)  | Using manufacturers instructions<br>for Becton Dickinson FACSCanto<br>II 3 laser flow cytometer or BD<br>Fortessa flow cytometer and<br>documented in house procedures |
| Blood<br>Bone marrow<br>Pleural fluid<br>Ascitic fluid<br>Pericardial fluid<br>Cerebro-spinal fluid<br>Biopsies<br>Other fluids and tissues as indicated | Intracellular Marker Expression<br>CD79a<br>CyCD3<br>MPO<br>TDT   | HSOP418, FSOP489, HSOP490<br>and HSOP491   |
| Blood<br>Bone marrow<br>Cerebro-spinal fluid<br>Other if indicated   | Quantification of Minimal Residual<br>Disease (MRD) in Myeloid and<br>Lymphoid Leukaemia - detected<br>levels of a leukaemia associated<br>immunophenotype                              | FSOP483,HSOP484, FSOP489,<br>HSOP490 and HSOP491   |
| Blood  | Red cell membrane defects by calculating the EMA ratio  | Becton Dickinson FACSCanto II 3<br>laser flow cytometer or BD<br>Fortessa flow cytometer and<br>Eosin-5-Maleimide (E5M) Dye<br>binding fluorescence Assay              |
| Biopsy<br>Resection tissue<br>Bone Marrow  | Neuroblastoma Panel – by<br>detecting non haematopoietic<br>population that meet NBL<br>phenotype criteria  | FSOP492 ,FSOP489, HSOP490<br>and HSOP491   |
| Bone marrow<br>Blood   | B-Cell Precursor Acute<br>Lymphoblastic Leukaemia (BCP-<br>ALL) Flow MRD quantification using<br>the CYT-BCP B-Cell Precursor<br>Panel for patients enrolled on the<br>All2gether trial | 8 Colour BD FACS Canto II x 2<br>(S/N V96300806 and<br>R33896202743)<br>BCP-ALL MRD7 Cytognos Kits<br>FSOP 524 ALL2gether Trial Flow<br>MRD Quantification             |
| END  |   |  |