

Haematology

Test	Laboratory	Frequency	Sample Type	Special Instructions
Acid phosphatase (tartrate resistant)	Haem	On request	6 - 10 blood films	Smears must be unfixed
Activated protein C Resistance (APCR)	Haem	Weekly	5ml blue top - blood	
Alkali resistant Haemoglobin	Haem	Daily	5 ml purple top - blood	
Alkaline Phosphatase (Neutrophil)	Haem	Daily	Fresh blood smears	Do not use anticoagulated blood
Anti-Factor Xa assay	Coag	On request	5ml blue top - blood	Taken 3 hrs after last dose LMWH. Notify lab.
Antithrombin (ATIII)	Coag	Daily	5ml blue top - blood	
Atroxin time	Coag	Daily	5ml blue top - blood	
B-cells	Haem	Daily	5 ml purple top - blood	Do not refrigerate
BMCA (Chromosome analysis on marrow)	Med School	Daily	10ml green top - BM	Must get to lab as soon as possible
Bone Marrow Aspirate (BMA)	Haem	Daily	BMA smears	
Bone Marrow Trephine (BMT)	Haem	Daily	core biopsy	10% formalin
Boomslang Venom Time (BSVT)	Coag	Daily	5ml blue top - blood	
Capillary Collection	Haem	Daily		Done in fingerprick room - Haem lab (J)
CD 4	Haem	Daily	5ml purple top	Do not refrigerate
CD34	Haem	Daily	10 ml green top - blood/BM	Do not refrigerate
CD61/42b (Platelet Markers)	Haem	Daily	5ml purple top – blood x2	
Coagulation studies	Haem	On request	3 x 5ml blue top - blood	Contact Lab
Cold agglutinins	Haem	Daily	5ml red top - blood	Blood to be kept at 37 degrees Celsius
Combined Esterase	Haem	Daily	3 smears - BM/blood	Must be unfixed
Consult (peripheral blood/BM)	Haem	Daily	Stained/unstained smears	
Coombs (direct)	Haem	Daily	5ml purple top - blood	
Coombs (Indirect)	Haem	Daily	5ml purple & red top – blood	
D-Dimer	Coag	Daily	5ml blue top -blood	
DIC Screen	Coag	Daily	5ml purple & 3x5ml blue	DIC screen request form to be completed

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Differential Count	Haem	Daily	5ml purple top - blood	Must reach lab within 6 hrs, keep @2-10 deg.
DNA Ploidy	Haem	Daily	5ml green top - blood	Do not refrigerate
Eosinophils (urine/sputum/nasal)	Haem	Daily	Specimen as required	
ESR (erythrocyte sedimentation rate)	Haem	Daily	5ml black top - blood	Must reach lab within 6 hours
Factor VIII Inhibitors	Coag	Weekly	5ml blue top - blood	
Factor VIII related Antigen (ERA)	Coag	Weekly	5ml blue top - blood	
Factor XIII	Coag	Daily	5ml blue top - blood	Must reach lab within 2 hours
Factors II,V,VII,VIII,IX,X,XI.XII	Coag	Daily	2 x 5ml blue top - blood	Contact lab
FBC (full blood count)	Haem	Daily	5 ml purple top - blood	Must be refrigerated if kept overnight
Fibrinogen	Caog	Daily	5ml blue top - blood	
Flow Cytometry	Haem	Daily	10ml green top - BM/blood	Do not refrigerate
FNA for flow cytometry	Haem	Daily	Specimen in normal saline	Refrigerate if kept overnight
Foetal Haemoglobin (HbF)	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Fragility (Red Cell)	Haem	Daily	10ml green top -blood	Must be booked - contact Lab
Fragments (Red Cell)	Haem	Daily	5ml purple top - blood	Must be sent to lab within 6 hours
G6PD Assay	Haem	Daily	5ml purple top - blood	Must reach lab within 24 hours
G6PD Screen	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Glucose-6-Phosphate Dehydrogenase	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haematocrit	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haemoglobin	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haemoglobin Electrophoresis	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haemoglobin F (HbF)	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haemoglobinopathy Screen	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Haemolytic Studies	Haem	Daily	5ml purple & blue top - bl.	Contact lab to discuss
Haemophilia Carrier Status	Coag	Weekly	2x5ml blue top - blood	
Haemosiderin	Haem	Daily	Urine specimen	

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Ham's Test	Haem	Daily	10ml green top - blood	Must be booked - contact Lab
Heat Denaturation	Haem	Daily	5ml purple top - blood	Must reach lab within 6 hrs - keep @ 2-10deg.
Heinz Bodies	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Hereditary Elliptocytosis	RCM unit Med S.	On request	2 x 6ml ACD - blood	Contact RCM Unit - blood must be kept cold
Hereditary Haemolytic Anaemias	RCM unit Med S.	On request	3 x 6ml ACD - blood	Contact RCM Unit - blood must be kept cold
Hereditary Spherocytosis (HS)	RCM unit Med S.	On request	4 x 6ml ACD - blood	Contact RCM Unit - blood must be kept cold
Immunophenotyping	Haem	Daily	10ml green top - BM/blood	Do not refrigerate
INR	Coag	Daily	5ml blue top - blood	Do not refrigerate
Isopropanol Instability Test	Haem	Daily	5ml purple top - blood	Must reach lab within 6 hrs - keep @ 2-10 deg.
Kleihauer Test	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Leukaemia Typing	Haem	Daily	10ml green top -BM/blood	Do not refrigerate
Lupus anticoagulant	Coag	2 x week	2x5ml blue top - blood	Not suitable for heparinised patients
Lupus Inhibitor	Coag	2 x week	2x5ml blue top - blood	Not suitable for heparinised patients
Lymph Node for flow cytometry	Haem	Daily	Specimen as required	Collected in saline (refrigerate overnight)
Manual Platelet Count	Haem	Daily	5ml purple top	
Myeloperoxidase	Haem	Daily	6 fresh smears (BM/blood)	Do not fix
Neutrophil oxidative burst	Haem	Daily	5ml heparin	Refrigerated
Neutrophil Alkaline Phosphatase (NAP)	Haem	Daily	6 fresh smears - blood	Do not fix - must reach lab within 6 hours
Non-Specific Esterase	Haem	Daily	6 fresh smears	Do not fix
Osmotic fragility	Haem	Daily	10ml green top - blood	Must be booked - contact lab
Paediatric immune screen	Haem	Daily	5ml heparin	Do not refrigerate
Ovalocytosis	RCM unit Med S.	On request	2x6ml ACD -yellow top	Blood must be kept cold (contact RCM unit)
PCR for APCR (Factor V Leiden)	Coag	Weekly	5ml purple top - blood	
PCR for <i>Chamydia trachomatis</i>	PCR Dept	Batched	Urine	
PCR for IgH Gene rearrangement/Bcells	PCR Dept	Daily	Purple top blood Bone marrow, tissue or body fluids	Appropriate form to be filled in

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PCR for HIV-1 (Qualitative)	PCR Dept	Daily	Purple top blood	
PCR for HIV-1 Viral Load	PCR Dept	Daily	Purple top blood	To be separated within 6 hours of collection
PCR for herpes simplex virus	PCR Dept	On request	Purple top blood Bone marrow, tissue or body fluids	
PCR for <i>Neisseria gonorrhoeae</i>	PCR Dept	Daily	Purple top blood Bone marrow, tissue or body fluids, urine	
PCR for Philadelphia chromosome	Haem Med Sch.	On request	5ml purple/ACD - BM/blood	BM sample preferred
PCR for Pml-Rar Alpha Gene	Haem Med Sch.	On request	5ml purple/ACD - BM/blood	BM sample preferred
PCR for TCR gene rearrangement	PCR Dept	Daily	Purple top blood Bone marrow, tissue or body fluids	Appropriate form to be filled in
PCR for T(11;14) Mantle cell lymphoma	PCR Dept	Daily	Purple top blood Bone marrow, tissue or body fluids	Appropriate form to be filled in
PCR for T(14;18) Follicular lymphoma	PCR Dept	Daily	Purple top blood Bone marrow, tissue or body fluids	Appropriate form to be filled in
PCR prothrombin gene (Thrombosis)	Coag	Weekly	5ml purple top - blood	
PCR Bcl2 (Ig - Bcl2)	Haem Med Sch.	On request	5ml purple top - BM/blood	For other sample type contact Cytogenetics
Peroxidase	Haem	Daily	6 fresh smears	Do not fix
PI (INR)	Coag	Daily	5ml blue top - blood	Do not refrigerate
Plasma Haemoglobin	Haem	Daily	5ml red top - blood	Care must be taken to avoid haemolysis
Platelet Aggregation	Coag	Daily	6x5ml blue top - blood	By appointment only
Platelet Count	Haem	Daily	5ml purple top -blood	
Platelet Markers for flow cytometry	Haem	Daily	5ml purple top – blood x2	Do not refrigerate
Protein C	Coag	Weekly	5ml blue top - blood	
Protein S (PS)	Coag	Weekly	5ml blue top - blood	

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Prothrombin Time	Coag	Daily	5ml blue top - blood	
PTT (partial thromboplastin time)	Coag	Daily	5ml blue top - blood	
PVC (packed cell volume)	Haem	Daily	5ml purple top - blood	Refrigerate if kept overnight
Red Cell Count (RCC)	Haem	Daily	5ml purple top blood	
Red Cell Fragility	Haem	Daily	10ml green top -blood	By arrangement with laboratory
Retics (Reticulocytes)	Haem	Daily	5ml purple top - blood	
Ristocetin Co-Factor	Coag	Weekly	5ml blue top- blood	
Russel Viper Venom test for Lupus	Coag	Weekly	2x5ml blue top-blood	
Sezary Cells	Haem	Daily	5ml purple top -blood	Do not refrigerate
Sickle Cell Anaemia	Haem	Daily	5ml purple top -blood	
Sickling Test	Haem	Daily	5ml purple top -blood	
SMIg Surface Markers	Haem	Daily	10ml green top -blood	Do not refrigerate
Specific Esterase	Haem	Daily	6 smears	Do not fix
STCA Chromosome (solid tumours)	Haem Med Sch.	On request	Specimen as required	
Sucrose Lysis	Haem	Daily	10ml green top - blood	Contact lab
Surface Immunophenotype	Haem	Daily	10ml green top – blood/BM	Do not refrigerate
Surface Markers	Haem	Daily	10ml green top – blood/BM	
T-cell Subsets	Haem	Daily	5ml purple top – blood	
Thalassaemia Screen	Haem	Daily	5ml purple top – blood	
Thrombin Time	Coag	Daily	5ml blue top- blood	
Thrombotic Screen	Coag		4 blue,2 purple, 3 red tops	Form to be filled in. Contact Lab.
TRAP (tartrate resistant acid phosphatase)	Haem	Daily	6 smears	Do not fix
Trephine Biopsy	Haem	Daily	Trephine core	10% formalin
Unstable Haemoglobin	Haem	Daily	5ml purple top	
Urinary Haemosiderin	Haem	Daily	Urine	
von Willebrand Activity	Coag	On request	5ml blue top -blood	Contact Coag. Lab

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Von Willebrand Antigen	Coag	On request	5ml blue top -blood	Contact Coag. Lab
Von Willebrand factor	Coag	On request	5ml blue top -blood	Contact Coag. Lab
Von Willebrand's Screen	Coag	On request		Must be pre-booked. Blood taken at lab.
White Cell Count	Haem	Daily	5ml purple top - blood	
White Cell Surface Markers	Haem	Daily	5ml purple top - blood	Do not refrigerate