

**KING SAUD UNIVERSITY
FELLOWSHIP IN PATHOLOGY**

HAEMATOLOGY

PRACTICAL LOG BOOK

BASIC LABORATORY PROCEDURES (1)

PROCEDURES	Number of times preformed				Technical Supervisor Signature	Consultant Signature	Remarks
Preparation of solutions							
Performance of sterile procedures							
Calibration and use of diluters and pipettes							
Principles and usage of SI unit							
Haemoglobin estimation (P.E. colorimeter)							
P.C.V., using micro-haematocrit centrifuge							
Calculation of red cell "absolute values"							
Manual leucocyte count							
Differential count on blood and bone marrow aspirate films							
E.S.R							
Sickling test							
N.A.P. score							
Infectious mononucleosis screening test							
LE cell test							

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BASIC LABORATORY PROCEDURES (2)

PROCEDURES	Number of times preformed				Technical Supervisor Signature	Consultant Signature	Remarks
Blood Film Preparation & Staining							
Bone Marrow Aspirate preparation & staining							
Bone Marrow Trepchine Biopsy.							
Cyto-Chemistry							
Immuno-histochemistry							
Thick blood film for Malaria							
Schilling Test							
Serum viscosity measurement							
Radio isotope studies							
Red cell mass							
Red cell survival							
Measurement of faecal blood loss							

Pathology - Laboratory Procedures (2) - 2024/2025

HAEMOLYSIS (1)

HAEMOLYSIS TESTS	Number of times performed				Technical Supervisor Signature	Consultant Signature	Remarks
Reticulocytys count							
Direct antiglobulin test							
Schumm's test							
Heinz body preparation							
Heat instability test							
Screening test for G-6-PD and PK Deficiency							
Test for Urinary haemosiderin							
Planning of the investigation of a patient with haemolytic anaemia							
Osmotic fragility							
Autohaemolysis							
Acid serum (Ham) test							
Sucrose lysis test							

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HAEMOLYSIS (2)

HAEMOLYSIS TESTS	Number of times performed	Technical Supervisor Signature	Consultant Signature	Remarks
Cold agglutinin titre, thermal amplitude, I-I specificity				
Recognition of electrophoretic mobility of common abnormal haemoglobins Tests for Hb-S				
Hb-F measurement				
Hb-A2 measurement				
Cellulose acetate electrophoresis of haemoglobin solutions Acid – elution test				
Isopropanol precipitation test				
Donath – Landsteiner Test				

Date: _____

HAEMOSTASIS

HAEMOSTASIS TEST	Number of times performed				Technical Supervisor Signature	Consultant Signature	Remarks
Whole blood coagulation time							
Prothrombin time							
Activated partial thromboplastin time.							
Fibrin degradation product measurement							
Thrombin time							
Bleeding time Ivy or template method							
Plasma fibrinogen measurement							
Prothrombin consumption test							
Fibrin monomer screening test							
Euglobulin lysis time							
Clot solubility in 5M urea							
Factor VIII procoagulant assay							
Factor VIII antigen measurement							
Platelet aggregation and adhesion studies							
Coagulation inhibitor tests							

BLOOD TRANSFUSION

BLOOD TRANSFUSION TESTS	Number of times performed				Technical Supervisor Signature	Consultant Signature	Remarks
Blood grouping * Saline							
Crossmatching Procedures * Saline							
Crossmatching Procedures * Enzyme							
Crossmatching Procedures * Coombs							
Planning of the investigation of a suspected transfusion reaction							
Anti - A and anti - B haemagglutinin titres Rh genotyping							
Antenatal serology							
Antibody detection and identification using donor cell panels							

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MISCELLANEOUS (1)

MISCELLANEOUS TESTS	Number of times performed	Technical Supervisor Signature	Consultant Signature	Remarks
Gamma counting using scintillation detector				
Organ localization tests using in-vivo scintillation probes				
Basic chromosomal analysis				
Serum iron, total iron-binding capacity and ferritin measurements				
Ferokinetic studies using ⁵⁹ Fe				
Serum vitamin B 12 assay (microbiological or isotope method)				
Intrinsic factor antibody measurement				
Oxygen dissociation curve measurement				
Serum immunoglobulin measurement				
Immunoelectrophoresis and immunofixation of serum and urine				
Cryoglobulin and cryofibrinogen detection				
Serum complement measurement				

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MISCELLANEOUS (2)

MISCELLANEOUS TESTS	Number of times preformed	Technical Supervisor Signature	Consultant Signature	Remarks
Antinuclear factor demonstration				
Cell surface marker studies using rosette and immunofluorescence tests				
Serum lysozyme measurement				
Terminal deoxynucleotidyl transferase (Tdt) assay,				
Plasma haptoglobin measurement				
Factor VIII: WF measurement				
Antithrombin III measurement				
Tests for platelet factor 3 availability,				
Tests for Hepatitis B surface antigen and antibody				
Blood grouping and antibody screening by automated techniques				
HLA typing				
Elution of antibodies from red cells				
Preparation of blood components for transfusion purposes				
Tests for HIT				
FISH techniques				
Cytogenetic Studies				
PCR & Molecular Genetic Procedure				
Quality Assurance				