

Haematology Assessment Blueprint

Curriculum area:	Competence	Workplace Assessment					MRCPPath Part 1		MRCPPath Part 2			
		Mini-CEX	CBD	DOPS	MSF	PS	MCQ	Essay	Morphology Paper	Transfusion Medicine Paper	Haemostasis Thrombosis Paper	Viva
Learning Objective: To achieve sufficient understanding of laboratory haematology to offer advice on the interpretation of results under supervision												
Knowledge	Explain the use of automated blood counters						X					X
	Explain the principles behind automated counters						X					X
Skills	Interprets results generated						X		X			X
Attitudes & Behaviours	Exhibits close rapport and understanding with laboratory staff				X							
Knowledge	Outline making and staining of peripheral blood films and setting up and use of the light microscope	X		X								
	Describe the use of different stains						X		X			
Skills	Analyses and interprets blood films and differential white cell count						X		X			

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	Recognises malignant haematological disorders, red cell abnormalities & malarial parasites						X		X			
A & B	Participates in liaison between laboratory and clinical staff				X							
Knowledge	Describe the methods for obtaining bone marrow aspirate and trephine biopsies	X										X
Skills	Performs procedure with supervision			X								
	Prepare slides and trephine roll preparations			X								
Knowledge	Outline basic Blood Transfusion techniques (manual and automated)						X	X				X
Skills	Performs and interprets:- Blood grouping Cross matching Direct antiglobulin test Kleihauer test Interprets clinically significant antibodies	X		X			X			X		

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A & B	Relates blood transfusion laboratory practice to patient care				X			X		X		X
	Participates in liaison between laboratory and clinical staff				X							
Knowledge	Describe the techniques for coagulation testing including automation of coagulation tests and thrombophilia tests	X					X	X				X
	Outline current methods for automated coagulation testing							X				X
Skills	Performs and interprets PT, INR, APPT, Thrombin time, Fibrinogen assay and FDPs	X		X			X				X	
	Interprets thrombophilia testing results						X	X			X	X
A & B	Applies laboratory results to patient care	X					X	X			X	X
Knowledge	Define the presentation and management of common haematological disorders						X	X	X	X	X	X

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Skills	Recognises in the laboratory and advises on the initial management of common anaemias, acute and chronic leukaemia, myeloma and lymphomas	X					X	X	X	X	X	X
A & B	Works as part of the clinical team in the management of these disorders				X							
Learning Objective - To be competent in the management of the haematology laboratory												
Knowledge	Identify normal and abnormal peripheral blood films including those flagged as abnormal by MLSO or automated counter	X			X				X			
Skills	Accurately reports red cell and platelet abnormalities.				X		X		X		X	
	Recognises acute and chronic leukaemia and malarial parasites on blood films	X							X			
A & B	Relates laboratory findings to clinical picture						X	X	X	X	X	X

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Knowledge	Describe the indications for and technique of performing bone marrow aspirate and trephine biopsies	X										X
Skills	Performs technique competently			X								
Skills	Accurately reports results				X		X		X	X	X	
A & B	Treats patient with respect and dignity.	X			X	X						
	Consults to obtain appropriate advice in reporting findings				X							
Knowledge	Define the indications for use of cytochemical staining, immunophenotyping and cytogenetics as applied to blood and bone marrow samples		X				X	X	X			X
Skills	Interprets results						X	X	X	X	X	X
A&B	Relates laboratory results to patient care						X	X	X	X	X	X
Knowledge	Describe lymph node histology and classification of lymphomas	X					X		X			

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	Identify CSF cytological appearances			X			X		X			
	Explain the principles of laboratory management							X				X
Skills	Interprets the classification of Hodgkin and non Hodgkin lymphomas particularly the WHO classification						X		X			X
	Applies knowledge of histological classification to patient management						X	X	X			X
	Performs lumbar puncture competently and obtain CSF for cytopsin preparation Interprets presence of malignant cells in CSF			X								

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Skills	Demonstrates familiarity with: <ul style="list-style-type: none"> ◆ Quality control including NEQAS schemes ◆ Commercially available laboratory computer systems Staff performance management and appraisals	X					x	X	X	X	X	X
A&B	Consults with the histopathologist on diagnosis				X							X
	Relates laboratory results to patient care						X	X	X	x	x	X
	Establishes rapport and understanding with laboratory staff				X							
Learning Objective - Competence in the diagnosis and management of patients presenting with anaemia												
Knowledge	Describe the pathophysiology of anaemia						X	X				X
	Define the haematological, biochemical and radiological techniques required for the investigation of anaemia						X	X	X			X
	Identify the underlying causes of anaemia						X		X			X

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Skills	Interprets the various causes of anaemia including:- <ul style="list-style-type: none"> ◆ Iron deficiency ◆ Megaloblastic anaemia ◆ Congenital and acquired haemolytic anaemia ◆ Haemoglobinopathies ◆ Anaemia of chronic disorders 						X	X	X			
	On the basis of history, examination and laboratory results, formulates an appropriate management and treatment plan	X	X				X	X	X	X	X	X
	Communicates the diagnosis and investigation to the patient and their relatives	X						X	X			X
A&B	Exhibits empathy	X			X	X						
	Consults colleagues in other relevant specialties appropriately				X							X
Learning Objective - Competence in the diagnosis and management of patients with acute leukaemia												

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Knowledge	Describe the presentation, diagnosis and classification of acute leukaemia in adults and children						X	X				X
	Define the principles of chemotherapy regimens: mode of action, side effects and interactions of agents used in the management of acute leukaemia.						X	X				X
	Justify the use of trial protocols and importance of multicentre trials in acute leukaemia							X				X
	Define entry criteria						X					X
	Explain ethical considerations of informed consent		X					X				X
	Describe the use of supportive care in management of acute leukaemia		X				X	X	X	X		X

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	Define the indications for autologous and allogeneic haemopoietic stem cell transplantation in the management of acute leukaemia		X				X	X	X			X
Skills	Interprets presenting features and conduct history and examination competently	X	X									
	Use appropriate laboratory investigations to establish diagnosis						X	X	X			X
	Formulate a management plan and offer full explanation to patient	X	X					X	X			X
	Prescribes and administers complex chemotherapy regimens appropriately				X		X					
Skills	Safely performs lumbar punctures & administer intrathecal chemothera			X								
	Communicate planned treatment clearly to the patient	X			x	X						
	Performs collection of entry and follow up data	X										

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	Practices appropriate use of: <ul style="list-style-type: none"> ◆ Blood products, including special requirements ◆ Antibiotic regimens ◆ Central lines ◆ Antiemetics ◆ in patient management 	X					X		X	X	X	X
	Assesses suitability for stem cell transplantation		X				X		X			X
	Successfully manages patients undergoing stem cell transplantation		X									
	Identifies complications of stem cell transplantation including post transplant viral syndromes and graft versus host disease						X	X	X			X
	Explains use of transplantation and its limitations to patient and family clearly	X										
A&B	Exhibits awareness of impact of diagnosis on patient and his/her family		X		X	X						X
	Displays empathy in communicating the diagnosis	X			X							

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	Recognises the need to provide full explanation of trial entry and informed consent after full discussion with patient and relatives	X										X
	Recognises the importance of supportive care for successful patient outcomes		X					X	X			X
Learning Objective - Competence in the diagnosis and management of patients with chronic leukaemia												
Knowledge	Describe the presentation, natural history, molecular biology and pathogenesis of chronic leukaemia						X	X				X
	Explain the classification and staging of chronic leukaemia						X	X	X			X
	Describe the therapeutic agents in the treatment of chronic leukaemia including their mode of action and side effects						X	X	X			X

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	Explain the use of trial protocols and importance of multicentre trials in chronic leukaemia							X				X
	Indications for autologous and allogeneic haemopoetic stem cell transplantation in the management of chronic leukaemia						X	X	X			X
	Describe the management of short and long term complications of chronic leukaemias						X	X	X			X
Skills	Interprets presenting features and conducts history and examination competently	X	X									
	Demonstrates appropriate use of laboratory investigations to establish diagnosis						X	X	X			X
	Formulates a management plan and offers full explanation to patient	X	X					X				X
	Demonstrates understanding of entry criteria						X	X	X			X
	ethical considerations of informed consent											

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	Performs collection of entry and follow up data	X										
	Provides full explanation of trial entry Obtains informed consent after full discussion with patient and relatives	X										
	Contributes to the work of a multi-disciplinary team in managing complications				X							
A&B	Exhibits empathy in discussing the diagnosis	X			X							
	Explains use of transplantation and its limitations to patient and family	X					X					X
	Recognises the impact of chronic disease on the patient and family		X				X					X
	Recognises the importance of team-working				X			X				X
Learning Objective - Competence in the diagnosis and management of patients with myeloma												

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Knowledge	Describe the classification, natural history and molecular biology of myeloma							X				X
	Explain the presentation and staging						X	X				X
	Describe the treatment regimens and trial protocols in the management of myeloma						X	X	X			X
	Identify the indications for intensive chemotherapy and haemopoietic progenitor cell transplantation in the management of myeloma						X	X	X			X
Skills	Interprets presenting features and conducts history and examination competently	X	X									
	Selects appropriate laboratory investigations to establish diagnosis and stage of disease						X	X	X			X
	Formulates a management plan and offer full explanation to patient	X						X	X			X
	Evaluates suitability for stem cell transplantation							X				X

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	Successfully manages patients undergoing stem cell transplantation	X										
	Recognises complications of stem cell transplantation including post transplant viral syndromes and graft versus host disease						X	X	X			X
	Communicates effectively the use of transplantation and its limitations to patient and family	X										
A&B	Exhibits empathy in discussing diagnosis and treatment with patient and family	X										
Learning Objective - Competence in the diagnosis and management of patients with Hodgkin's and non Hodgkin's lymphoma												
Knowledge	Describe the natural history, classification and molecular biology of Hodgkin and non Hodgkin lymphoma						X	X	X			X
	Describe the presentation and define the staging criteria						X	X	X			X

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	Outline the histological classification of lymphomas particularly the REAL classification						X	X	X			X
	Describe the chemotherapy treatment regimens and explain the place of radiotherapy and trial protocols in the management of lymphoma						X	X	X			X
	Define the indications for intensive chemotherapy and haemopoietic progenitor cell transplantation in the management of lymphoma						X	X	X			X
Skills	Interprets the presenting features and conducts history and examination competently	X										
	Selects appropriate laboratory and radiological investigations to establish diagnosis and stage of disease	X	X				X	X	X			X
	Practices competent diagnosis of lymphoma on trephine biopsy								X			

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	Demonstrates working knowledge of lymph node histology								X			
	Formulates a management plan and offers full explanation to patient	X	X					X	X			
	Evaluates suitability for stem cell transplantation		X				X	X	X			X
	Successfully manages patients undergoing stem cell transplantation							X				X
	Recognises complications of stem cell transplantation including post transplant viral syndromes and graft versus host disease						X	X	X			X
	Communicates effectively the use of transplantation and its limitations to patient and family	X			X	X						
A&B	Recognises importance of histology in patient management		X					X				X
	Exhibits empathy in discussing diagnosis and treatment with patient and family	X			X	X						

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Learning Objective - Competence in the management of patients with congenital coagulation disorders												
Knowledge	Describe coagulation, the coagulation pathway including control mechanisms and fibrinolysis						X	X			X	X
	Describe the natural history, presentation and complications of congenital coagulation disorders including Haemophilia A, Haemophilia B and Von Willebrand's Disease						X	X				X
	Outline the features of the less common congenital coagulation disorders						X	X			X	X
	Explain the role of the clinical history in assessment of the bleeding patient							X				X
	Identify and explain the diagnostic methods used in assessment of coagulation disorders including specific factor assays						X	X			X	X

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	Outline the use of molecular biological techniques to identify genetic disorders							X			X	X
	Describe the types of coagulation factor concentrates including their safety profiles						X	X		X	X	X
Skills	Demonstrates competence in taking the history and conducting an examination of the patient.	X										
	Formulates an appropriate management plan.	X	X					X			X	X
	Demonstrates competence in genetic counselling	X						X			X	X
	Interprets results of laboratory assays accurately						X				X	X
	Discusses the role of these techniques in pre-natal and family testing						X	X			X	X
	Advises appropriately on prophylaxis and treatment of congenital coagulation disorders						X	X			X	X
A&B	Relates theoretical knowledge to patient management						X	X			X	X

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	Exhibits empathy in managing the disorder and its complications.				X	X						X
	Recognises the impact of the condition on the patient and family				X		X			X		X
	Relates laboratory results to clinical practice						X	X			X	X
Learning Objective - Competence in the diagnosis and management of patients with thrombophilic disorders												
Knowledge	Describe coagulation inhibitors and the fibrinolytic pathway						X	X				X
	Explain the epidemiology and molecular basis of thrombophilia						X	X			X	X
	Explain the pathogenesis of thrombosis in arteries veins and the microcirculation						X	X				X
	Identify the risk factors for thrombosis						X	X			X	X

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	Describe the natural history, presentation and complications of thrombophilia, including both inherited and acquired disorders						X	X				X
	Explain the techniques for the measurement of Protein C, Protein S, ATIII, APCR and Lupus Anticoagulant.						X	X			X	X
	Outline the molecular techniques used in diagnosis of heritable thrombophilia						X	X			X	X
	Define the effect of pregnancy, oral contraceptive pill use and hormone replacement therapy in thrombophilia						X	X			X	X
Skills	Demonstrates appropriate use of clinical and laboratory methods to reach a diagnosis	X	X				X	X			X	X
	Demonstrates competence in the treatment and prophylaxis of thrombophilic conditions		X				X	X			X	X

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	Demonstrates competence in genetic counselling	X					X	X			X	X
	Interprets and applies laboratory results to patient management	X	X				X	X			X	X
	Successfully manages of pregnancy in affected individuals						X	X			X	X
A&B	Relates theoretical knowledge to patient management						X	X			X	X
	Contributes to multidisciplinary team-working				X							
Learning Objective - Safe management of patients requiring anticoagulation												
Knowledge	Describe the mechanisms of action and define the indications for the use of heparin, oral anticoagulants and platelet inhibitors						X	X			X	X
	Describe the indications and methods for thromboprophylaxis, both pharmacological and non-pharmacological						X	X			X	X

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	Outline the range of models of anticoagulant control including computerised dosing methods and the use of the multi-professional team in delivering anticoagulant services							X			X	X
	Explain the side effects of anticoagulants						X	X			X	X
Skills	Practices safe and effective initiation of anticoagulant therapy and thromboprophylaxis						X				X	X
	Interprets and evaluates monitoring of anticoagulation and advises appropriately	X	X				X				X	X
	Performs appropriate follow up of patients receiving anticoagulants	X	X				X				X	X
	Advises appropriately on the management of over - anticoagulation	X	X				X				X	X
	Advises appropriately on the diagnosis and management of heparin induced thrombocytopenia		X				X	X			X	X

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A&B	Consults with other relevant specialists appropriately				X		X	X			X	X
	Contributes to multi-disciplinary team-working				X							
Learning Objective - Competence in the diagnosis and management of patients with acquired bleeding disorders												
Knowledge	Describe the pathogenesis and mechanisms of acquired bleeding disorders including :- <ul style="list-style-type: none"> ◆ DIC ◆ Massive transfusion ◆ Renal & hepatic disease ◆ Obstetric complications ◆ Coagulation factor inhibitors 						X	X		X	X	X
	Explain the role of the clinical history in the assessment of the bleeding patient							X				X
	Describe the pharmaceuticals and blood products available for the management of excessive bleeding, their indications and side-effects						X	X		X	X	X

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Skills	Selects and evaluates laboratory results correctly						X				X	X
	Formulates an appropriate plan in the management of these disorders	X	X					X			X	X
	Communicates effectively with colleagues on the appropriate use of blood products including coagulation factors				X			X			X	X
A&B	Contributes to multidisciplinary team-working				X							
Learning Objective - Competence in the diagnosis and management of congenital and acquired platelet disorders												
Knowledge	Outline platelet structure and function.						X	X				X
	Define platelet and vessel wall interaction						X	X				X
	Describe congenital and acquired qualitative platelet disorders						X	X	X			X

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	Explain the measurement of platelet numbers by automated counters						X					X
	Describe platelet function tests, their uses and limitations						X	X			X	X
	Outline the mechanisms of action of pharmaceutical platelet inhibitors						X	X			X	X
Skills	Selects and evaluates investigations correctly and formulates an appropriate management plan	X	X				X	X			X	X
	Communicates appropriate clinical advice on the use of antiplatelet agents				X		X	X			X	X
A&B	Relates theoretical knowledge to patient management						X	X			X	X
	Contributes to multi-disciplinary team-working				X							
Learning Objective - Competence in the diagnosis and management of patients with haemoglobinopathies												
Knowledge	Outline the molecular basis of abnormal haemoglobins and thalassaemia syndromes						X	X				X

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	Describe the natural history, epidemiology, presentation and complications of thalassaemias, sickle cell disease and other haemoglobin abnormalities.						X	X	X			X
Knowledge	Explain the laboratory methods used in the screening and diagnosis of abnormal haemoglobins						X	X	X			X
Skills	Demonstrates competence in genetic counselling	X					X		X			X
	Applies clinical and laboratory methods to reach a diagnosis and formulate an appropriate management plan.	X	X				X	X	X			X
	Practices use of appropriate support eg pain relief and blood transfusion in the management of patients with haemoglobin disorders	X	X				X	X	X			X
	Communicates effectively to hospital teams and general practitioners on antenatal diagnosis and family testing				X		X	X	X			X

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A&B	Exhibits understanding of the impact of haemoglobin disorders on the patient and their family				X	X		X	X			X
	Contributes to multidisciplinary team-working				X							
Learning Objective - Competence in the diagnosis and management of patients with bone marrow failure												
Knowledge	Describe the aetiology, natural history and classification of pancytopenia including:- Aplastic anaemia Myelodysplastic syndromes						X	X				X
	Explain the use of blood product support and define the complications of long term transfusion						X	X	X	X		X
	Describe the indications for use of chemotherapy, immunosuppression and haemopoietic progenitor cell transplant in the management of marrow failure syndromes						X	X	X			X

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Skills	Selects and evaluates clinical and laboratory methods to reach a diagnosis and formulate an appropriate management plan	X	X				X	X	X			X
	Practices appropriate use of blood transfusion and iron chelation regimens						X	X	X	X		X
	Practices appropriate management						X	X	X			X
A&B	Exhibits empathy in delivering a clear explanation of disorder and its long term management to the patient and family	X										
Learning Objective - Competence in the diagnosis and management of patients with myeloproliferative disorders												

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		Mini-CEX	CBD	DOPS	MSF	PS	MCQ	Essay	Morphology Paper	Transfusion Medicine Paper	Haemostasis Thrombosis Paper	Viva
Knowledge	Describe the pathophysiology and classification of myeloproliferative disorders						X	X				X
	Outline the diagnostic methods including isotopic evaluation of red cell mass and evolving molecular methods						X	X	X			X
	Describe the therapeutic options, their indications and side-effects, including :- Venesection Chemotherapy Other pharmaceuticals Supportive therapies						X	X	X	X		X
Skills	Selects and evaluates clinical and laboratory methods to achieve a diagnosis and formulate an appropriate management plan	X	X				X	X	X			X
	Performs therapeutic venesection competently			X								
Learning Objective - Competence in advising on haematological problems arising in medical and surgical patients												

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Knowledge	Outline the impact of systemic disease on the blood and bone marrow						X	X				X
	Identify the role of the haematologist in management of:- <ul style="list-style-type: none"> ◆ Massive transfusion ◆ Multi-organ failure ◆ Haemostatic problems in pregnancy ◆ Abnormalities of blood and bone marrow in the neonate 						X	X	X	X	X	X
Skills	Evaluates laboratory results in these clinical situations and provides appropriate and timely advice	X	X				X	X	X	X	X	X
	Communicates clearly with colleagues in other specialities				X		X	X	X	X	X	X
A&B	Contributes to multidisciplinary team-working				X							

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Learning Objective - Development of the communication and other generic skills required for the practice of clinical and laboratory haematology												
Knowledge	Explain the value of good communication and the essential skills required						X					X
	Justify the requirement for accurate and contemporaneous record keeping						X					X
	Describe essential practical skills						X					X
	Describe the principles of clinical audit including the audit cycle						X					X
	Explain the critical appraisal of research data						X					X
Skills	Elicits and records an accurate history	X										
	Records accurately clinical findings, differential diagnosis and a management plan	X			X							
	Communicates the diagnosis clearly to patients and their relatives	X										

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	Explains the treatment required and its side effects	X										
	Demonstrate an ability to break bad news clearly and empathically including the communication of a terminal prognosis	X										
	Communicates clearly with colleagues in primary and secondary care via clinic letters, letters of referral and discharge documents				X		X					
	Performs insertion, removal and care of central venous lines safely and appropriately			X								
	Practices appropriate use of antibiotic regimens for treatment and prophylaxis in the immunosuppressed patient						X	X	X			X
	Practises appropriate use and interpretation of imaging and radio-isotope methods in haematology						X	X	X			X

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	Participates in audit				X							
	Evaluates research data and/or publications in scientific journals				X			X				
A&B	Recognises the impact of disease on the patient and their family				X							X
	Recognises the importance of good communication in the practice of haematology Contributes to multidisciplinary team-working				X							
	Recognises the benefit of audit to clinical care							X				X
	Recognises the role of research in medical advances											X
Learning Objective - To acquire sufficient knowledge of blood transfusion practice to provide safe advice to clinical colleagues in a general hospital												

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Knowledge	Outline the principles of blood transfusion laboratory practice including :- <ul style="list-style-type: none"> ◆ Blood grouping ◆ Identification of allo and auto antibodies ◆ Crossmatching techniques ◆ Automation in blood transfusion ◆ Use of computers in blood transfusion 							X				X
	Describe the basic principles of donor selection and the preparation of blood components including:- <ul style="list-style-type: none"> ◆ Donor selection ◆ Donor safety ◆ Preparation of blood components, including for paediatric/neonatal use ◆ Donation testing ◆ Role of Quality System 							X		X		X

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Knowledge	Describe the principles of clinical blood transfusion practice including :- <ul style="list-style-type: none"> ◆ Hazards of blood transfusion ◆ Appropriate use of blood products ◆ Special requirements ◆ Alternatives to blood and blood products ◆ Exchange transfusion and plasma exchange therapy ◆ SHOT and SABRE reporting ◆ The role of the Hospital Transfusion committee ◆ Organisation of the laboratory and relevant transfusion legislation 						X	X		X		X
Skills	Interprets blood transfusion laboratory results to an adequate standard						X			X		X
	Practices the appropriate use of blood and blood products	X	X				X	X		X		X
	Manages complications of blood transfusion appropriately	X	X				X	X		X		X

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	Gives appropriate advice in patients with allo or auto antibodies, including in pregnancy						X	X		X		X
	Advises appropriately on the indications for exchange transfusion and plasma exchange						X	X		X		X
A&B	Liaises between laboratory and clinical staff				X							
	Recognises the hazards of transfusion of blood products	X	X				X	X		X		X
Learning Objective -Competence, to the level of a general haematologist in the diagnosis and management of common haematological disorders in childhood												
Knowledge	Describe the laboratory practice required to handle small samples						X					X
	Outline the need for age-related normal values						X		X			X
	Describe the appearances of the blood and bone marrow in neonates, infants and children						X		X			X

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	Describe the pathophysiology diagnosis and management of neonatal anaemia, coagulation disorders, haemorrhagic disease of the newborn and haemolytic disease of the newborn						X	X	X	x	x	X
	Identify the haematological manifestations of paediatric diseases including solid tumours						X		X			X
	Describe the haematological investigation of non-accidental injury						X		X		X	X
	Describe the aetiology, classification and prognosis of childhood leukaemia, myeloproliferative disorders and myelodysplastic syndromes.						X	X	X			X

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	Outline the principles of chemotherapy and justify entry into clinical trials. (See relevant section of general curriculum)							X				X
	Outline the importance of long term follow up for late effects of chemotherapy and SCT in children						X	X	X			X

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	<p>Describe the pathophysiology, diagnosis and management in childhood of:</p> <ul style="list-style-type: none"> ◆ Haemoglobinopathies including <ul style="list-style-type: none"> ◆ Identification of high risk sickle disease ◆ Principles of population screening ◆ Congenital and acquired thrombocytopenias ◆ Congenital and acquired coagulopathies ◆ Congenital and acquired thrombotic states ◆ Inherited & acquired anaemias, ◆ Disorders of leucocytes including <ul style="list-style-type: none"> ◆ Neutropenia; lymphopenia ◆ Abnormal function ◆ Immune deficiency (See relevant section of general curriculum) 						X	X	X	x	X	X

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	Describe the pathophysiology, diagnosis and management in childhood of: Inherited and acquired bone marrow failure syndromes including haemophagocytic syndromes Paediatric aspects of stem cell transplantation						X	X	X			X
Skills	Analyses and interprets results generated						X		X		X	X
	Analyses and interprets blood films and bone marrow smears						X		X			
	Evaluates and manages these disorders appropriately in conjunction with paediatrician colleagues				X				X			X
	Advises appropriately on the prophylaxis and management of haemolytic disease of the newborn	X	X				X	X		X		X

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	Demonstrates use of clinical and laboratory skills to make a diagnosis and formulate an appropriate management plan, including palliative care.	X	X				X		X			X
	Performs bone marrow aspiration safely on infants and children			X								
	Performs lumbar puncture safely on infants and children			X								
	Demonstrates appropriate use of genetic investigation of haematological disorders	X	X				X	X	X		X	X
	Demonstrates an understanding of inherited disease and investigation of the family						X	X	X		X	X
	Demonstrates an understanding of the transfusion requirements of neonates and children with occasional or continued need and the long term side effects						X	X	X	X		X

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	Communicates effectively the use of transplantation and its limitations to the patient where appropriate and family	X			X	X						
A&B	Recognises the need for consultation				X							X
	Contributes to multidisciplinary team-working				X							
	Shows an understanding of the knowledge base of paediatricians, including oncologists							X				X
	Exhibits empathy and clear communication in discussions of diagnosis, treatment and prognosis with the patient if appropriate and his/her parents Recognises the need for genetic counselling and consent for testing	X					X					
A&B	Recognises the importance of care networks for congenital disease				X							X

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	Recognises the need for transitional care medicine				X							X
	Recognises when to refer to a paediatric haematologist						X					X