

MOC HEM - General Hematopathology (Mandatory 50-Question Module)

• acute monoblastic/monocytic leukemia	• infectious mononucleosis
• adult T cell leukemia/lymphoma	• in situ follicular lymphoma
• ALL; phenotypes	• large B-cell lymphoma and variants
• AML; cytogenetics; immunophenotypes	• lymphoma, differential diagnosis
• amyloidosis	• mantle cell lymphoma, FISH
• Anaplasma/Ehrlichia	• mastocytosis
• autoimmune lymphoproliferative syndrome	• May-Hegglin anomaly
• B cells differentiation; IgM	• micromegakaryocytes
• BCR/ABL FISH	• mycosis fungoides & Sezary syndrome
• bite RBCs	• myelodysplastic syndromes
• burr RBCs	• myeloproliferative neoplasms
• CSF; malignant cells	• paroxysmal nocturnal hemoglobinuria
• DIC	• pediatric follicular lymphomas
• essential thrombocythemia, JAK negative	• plasma cell neoplasms
• extranodal NK/T-cell lymphoma, nasal type	• platelet aggregation; ASA
• factor inhibitors	• Rosai-Dorfman
• flow cytometry, CML	• SOX11
• follicular lymphoma	• t(11;14); techniques for detection
• GI follicular lymphoma	• T cell prolymphocytic leukemia
• hairy cell leukemia	• Von Willebrand disease
• Hb S; related disorders	• zinc toxic effects
• Hodgkin lymphoma classification	

MOC HEM – Blood & Bone Marrow Pathology (Elective 50-Question Module)

• abnormal RBC morphology; inclusions	• juvenile myelomonocytic leukemia
• acute leukemia of ambiguous lineage	• Kostmann syndrome
• acute myelomonocytic leukemia	• liver disease
• Alder-Reilly anomaly	• lymphoplasmacytic lymphoma
• AML; FISH	• malaria
• amyloidosis	• megaloblastic anemia
• bacterial infections; WBC morphology	• metastatic neoplasms
• blood and bone marrow cell identification	• myelodysplastic syndromes; cytogenetics
• B-lymphoblastic leukemia; FISH	• myeloproliferative neoplasms
• bone marrow cell identification	• non-immune hemolytic anemias
• chronic myelogenous leukemia	• Parvovirus
• congenital anemias	• PDGFRB rearrangements
• copper deficiency	• peripheral blood; immature cells
• delta check; misidentified specimen	• peripheral blood; non-hematopoietic cells
• Dohle bodies	• plasma cell myeloma
• erythrocytic parasites	• platelet morphology
• erythroid hyperplasia	• polycythemia vera
• FISH vs. classical cytogenetics	• pseudo-Chediak Higashi anomaly
• hairy cell leukemia	• reactive lymphocytosis; WBC infections
• HbE disorders	• renal osteodystrophy
• hematogones	• rouleaux
• hemoglobin analysis; HPLC	• routine and special histologic stains
• hemolytic disease of the newborn	• serous atrophy
• hemophagocytic syndrome	• sickle solubility test
• iron deficiency anemia	• storage disorders; Gaucher disease

MOC HEM – Flow Cytometry (Elective 50-Question Module)

• aberrant antigen expression in CLL	• large B-cell lymphoma variants
• acute myelomonocytic leukemia	• large granular lymphocytic leukemia
• acute promyelocytic leukemia	• lymphoid hyperplasia; mantle zone
• anaplastic large cell lymphoma	• lymphoid neoplasms with eosinophilia
• angioimmunoblastic T-cell lymphoma	• mantle cell lymphoma
• autoimmune disorders	• mature T lymphocytes, immunophenotypes
• B lymphoblastic leukemia/lymphoma	• mature T-cell neoplasms
• basophils	• mycosis fungoides & Sezary syndrome
• B-cell differentiation sequence	• myeloid antigens
• CD3; ALL	• NK/T-cell lymphomas
• chronic granulomatous disease	• plasma cell leukemia
• CLL/SLL; pleural fluid	• plasma cell myeloma
• CLL; ZAP 70	• PNH
• CML (BCR-ABL1+)	• quality control
• dead cells	• SOX-11
• EMA binding test	• splenic marginal zone lymphoma
• hairy cell leukemia	• T cell maturation
• hematogones	• T-gamma lymphocytosis
• infectious mononucleosis	• T-lymphoblastic leukemia/lymphoma

MOC HEM – Hemostasis & Thrombosis (Elective 50-Question Module)

• abciximab	• international normalized ratio
• amyloidosis	• lupus anticoagulant/inhibitor
• aspirin and platelet function	• macrothrombocytopenia; genetic defect
• Bernard-Soulier syndrome	• mixing studies
• calibration curve; Protein C	• PFA 100; closure times
• clopidogrel	• platelet aggregation; abciximab
• clopidogrel; thromboelastometry	• platelet aggregation; sample collection and processing
• coagulation factors and pregnancy	• platelet P2Y12 receptor
• coagulation testing; heparin	• proficiency testing performance
• coagulation testing; serum	• Prothrombin C20209T mutation; fluorescence resonance energy transfer analysis
• dabigatran	• prothrombin genotyping, FRET analysis
• direct thrombin inhibitors	• quantitative D-dimer
• dysfibrinogenemia	• reticulated platelet counts
• factor assays; interpretation	• secondary wave of platelet aggregation
• factor deficiencies	• thromboelastograph tracings
• factor deficiencies; TEG	• tirofiban; platelet aggregation
• factor inhibitors	• TTP
• factor IX deficiency	• validation of new reagent lots
• Glanzmann thrombasthenia	• von Willebrand disease, types
• GPIIIa	• von Willebrand disease; multimer analysis
• heparin induced thrombocytopenia	• warfarin ingestion
• heparin therapeutic range	• warfarin monitoring, argatroban therapy

MOC HEM – Laboratory Hematology - No Coag (Elective 50-Question Module)

• acanthocytes	• iron deficiency anemia
• acute monoblastic/monocytic leukemia	• leukemoid reaction
• bite cells	• lipemia; automated blood counts
• bone marrow; CD117	• MCV
• CLIA; moderate vs. high complexity testing	• megaloblastic anemia
• cold agglutinins	• monocytes
• computer interoperability; interfaces	• MSDS sheets
• cryoglobulinemia	• neonatal blood
• CSF; non-hematopoietic cells	• non-immune hemolytic anemia
• Dohle bodies	• Pelger-Huet anomaly
• FDA testing regulations	• pertussis
• giant platelets; spurious automated counts	• plasma cell myeloma
• Hb C disorders	• platelet satellitosis
• Hb E disorders	• pseudothrombocytopenia
• Hb S disorders	• quality control; moving averages
• Heinz bodies	• RBC parasites
• hemoglobinopathy analysis	• splenectomy; RBC morphology
• hemoglobinopathy/thalassemia	• supravital stains
• hemolytic uremic syndrome	• target RBCs
• Hgb A2 quantitation	• thalassemias
• histoplasmosis	• thrombocytosis; spurious lab results
• immune hemolytic anemia	• types of data
• infectious mononucleosis	

MOC HEM – Lymph Node & Related Tissues (Elective 50-Question Module)

• 7q loss	• lymphoid hyperplasia; IHC
• angioimmunoblastic T-cell lymphoma	• lymphoma karyotypes
• autoimmune disorders; LNs	• lymphoplasmacytic lymphoma
• CLL/SLL	• MALT lymphomas; cytogenetics
• CLL/SLL; IHC and flow cytometry	• mantle cell lymphoma
• cutaneous T-cell lymphomas	• mediastinal neoplasms
• CXCL13 immunostain	• metastatic neoplasms
• dendritic cells, IHC	• mycosis fungoides & Sezary syndrome
• dermatopathic lymphadenopathy	• myeloid sarcoma
• follicular lymphoma grading; WHO	• nodal marginal zone lymphoma; IHC
• heavy chain disease	• normal lymphoid tissue; IHC
• histiocytic/dendritic neoplasms	• NOTCH1 mutations
• histiocytic necrotizing lymphadenitis	• PD-1/CD279 IHC
• Hodgkin lymphoma	• pediatric follicular lymphomas
• IHC interpretation; pitfalls	• primary effusion lymphoma
• in situ follicular lymphoma; IHC	• sarcoidosis
• infectious lymphadenitis	• splenic cysts & other non-hematopoietic lesions
• Langerhans cell histiocytosis/sarcoma	• Stark law