



Hematology LKA with Classical (Non-Malignant) Focus

Purpose

The Hematology LKA with Classical (Non-Malignant) Focus assessment is based on the [Hematology General LKA](#) blueprint, but includes a larger proportion of questions covering topics related to hematopoietic system and coagulation. Overall, there is about a 70% overlap with the current general Hematology blueprint. This overlap allows the focused assessment to better represent physicians with a focus in classical hematology while ensuring the focused assessment is comparable enough to uphold the same certification. Physicians taking the Hematology LKA with Classical (Non-Malignant) Focus assessment will continue to be reported as certified in Hematology.

ABIM assessments are designed to evaluate whether a certified hematologist has maintained competence and currency in the knowledge and judgment required for practice. The MOC assessments emphasize diagnosis and management of prevalent conditions, particularly in areas where practice has changed in recent years. As a result of the blueprint review by ABIM diplomates, MOC assessments place less emphasis on rare conditions and focus more on situations in which physician intervention can have important consequences for patients. For conditions that are usually managed by other specialists, the focus is on recognition rather than on management.

Longitudinal Knowledge Assessment format

The Hematology LKA with Classical (Non-Malignant) Focus assessment is only available as a Longitudinal Knowledge Assessment. ABIM's Longitudinal Knowledge Assessment (LKA™) is a five-year cycle in which physicians answer questions on an ongoing basis and receive feedback on how they are performing along the way. More information about this assessment can be found here: <https://www.abim.org/maintenance-of-certification/assessment-options/longitudinal-knowledge-assessment/>. More information on how assessments are developed can be found at <https://www.abim.org/about/abim-exams/exam-development-process/>.

Most assessment questions describe patient scenarios and ask about the work done (that is, tasks performed) by physicians in the course of practice:

- **Diagnosis:** making a diagnosis or identifying an underlying condition
- **Testing:** ordering tests for diagnosis, staging, or follow-up

- **Treatment/Care Decisions:** recommending treatment or other patient care
- **Risk Assessment/Prognosis/Epidemiology:** assessing risk, determining prognosis, and applying principles from epidemiologic studies
- **Pathophysiology/Basic Science:** understanding the pathophysiology of disease and basic science knowledge applicable to patient care

Clinical scenarios presented take place in outpatient or inpatient settings as appropriate to a typical hematology practice. Clinical information presented may include patient photographs, radiographs, photomicrographs, and other media to illustrate relevant patient findings.

Exam tutorials, including examples of question format, can be found at:

<https://www.abim.org/about/abim-exams/exam-tutorials/>.

Content distribution

Listed below are the major medical content categories that define the domain for the Hematology traditional, 10-year MOC exam and LKA. The relative distribution of content is expressed as a percentage of the total assessment. The Hematology Approval Committee and Specialty Board have determined the Hematology LKA: Classical (nonmalignant) focused assessment medical content category targets are appropriate, as shown below.

Medical Content Category	% of Exam
Hematopoietic System	44%
Coagulation	38%
Hematologic Neoplastic Disorders	12%
Transfusion Medicine	5%
Cellular Therapy	1%
	100%

ABIM is committed to working toward health equity and believes that board-certified physicians should have an understanding of healthcare disparities. Therefore, health equity content that is clinically important to each discipline will be included in assessments, and the use of gender, race, and ethnicity identifiers will be re-evaluated.

Hematopoietic System

44% of Exam

Normal hematopoiesis

<2%

Disorders of red blood cells or iron

36%

Red blood cell production disorders

Nutritional deficiencies

Iron deficiency

Nutritional anemia, non-iron deficiency

Anemia of chronic inflammation

Red cell aplasia and hypoplasia

Sideroblastic anemia

Red blood cell destruction disorders

Thalassemias

Alpha thalassemia

Beta thalassemia

Hemoglobin E disorders

Sickle cell disorders

Sickle cell trait

Sickle cell anemia (hemoglobin SS disease)

Hemoglobin SC disease

Sickle cell- β^0 and sickle cell- β^+ -thalassemias

Non-sickle hemoglobinopathies

Autoimmune hemolytic anemias (AIHA)

Warm antibody-mediated autoimmune hemolytic anemia

Cold antibody-mediated autoimmune hemolytic anemia

Drug-induced hemolysis

Metabolic abnormalities and enzyme deficiency hemolytic anemias

Oxidant hemolysis, including glucose-6-phosphate dehydrogenase (G6PD) deficiency

Pyruvate kinase deficiency and other metabolic deficiencies

Paroxysmal nocturnal hemoglobinuria

Red blood cell membrane disorders

Microangiopathic hemolytic anemias

(other than TTP, HUS, or DIC)

Non-autoimmune, acquired hemolytic anemias

Erythrocytosis

Porphyrias

Hemochromatosis

White blood cell disorders 3%

Granulocyte disorders

Quantitative granulocyte disorders

Qualitative granulocyte disorders

Lymphocytopenia and lymphocyte dysfunction syndromes

Leukocytosis

Eosinophilia

Hemophagocytic syndromes

Bone marrow failure syndromes 4%

Aplastic anemia

Inherited aplastic anemia

Acquired aplastic anemia

Pancytopenia

Coagulation

38% of Exam

Platelet and megakaryocyte disorders 10%

Inherited disorders of platelet function

Acquired disorders of platelet function

Drug-induced disorders

Non-drug-induced disorders

Thrombocytopenia

Inherited thrombocytopenia

Acquired thrombocytopenia

Immune thrombocytopenic purpura (ITP)

Drug-induced thrombocytopenia

Thrombotic thrombocytopenic purpura (TTP)

Hemolytic uremic syndrome (HUS)

Thrombocytopenia secondary to liver

Disease and splenic disorders

Thrombocytosis

Hemostasis 14%

Molecular basis of coagulation and hemostatic agents

Normal hemostasis

Laboratory evaluation

Hemostatic drugs

Inherited bleeding disorders (non-platelet)

Von Willebrand disease

Types 1, 2A, 2M, 2N, and 3

Type 2B

- Modifiers of von Willebrand factor levels
 - Hemophilias A and B
 - Hemophilia A
 - Hemophilia B
 - Factor XI deficiency
 - Factor deficiencies other than factor XI
- Inherited vascular abnormalities
- Acquired bleeding disorders (non-platelet)
 - Factor inhibitors
 - Disseminated intravascular coagulation (DIC)
 - Acquired vascular abnormalities
 - Secondary acquired factor deficiencies

Thrombosis

14%

- Molecular basis of natural anticoagulants, fibrinolytic pathway, and anticoagulant therapy
 - Normal anticoagulant and fibrinolytic mechanisms
 - Laboratory evaluation
 - Anticoagulant drugs
- Thrombotic disorders
 - Inherited thrombotic disorders
 - Factor V Leiden and prothrombin G20210A
 - Deficiencies of natural anticoagulants (antithrombin, proteins C and S)
 - Hyperhomocysteinemia
 - Acquired thrombotic disorders
 - Heparin-induced thrombocytopenia (HIT)
 - Anti-phospholipid antibody syndrome (APS)
 - Cancer-related thrombotic disorders
 - Thromboembolism at unusual sites
 - Thrombosis management (non-disease-specific)
 - Complications of thrombotic disorders

Hematologic Neoplastic Disorders	12% of Exam
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Myeloproliferative neoplasms

<2%

- Chronic myeloid leukemia
- Polycythemia vera and secondary erythrocytosis
- Primary myelofibrosis

Essential thrombocythemia	
Mastocytosis	
Chronic neutrophilic leukemia	
Acute leukemias and myelodysplasia	3%
Acute promyelocytic leukemia	
Acute myeloid leukemia (non-promyelocytic)	
Therapy-related myeloid neoplasms	
Myeloid sarcoma/extramedullary leukemia	
Myelodysplastic syndromes	
Chronic myelomonocytic leukemia and myelodysplastic/myeloproliferative neoplasm overlap syndromes	
B-cell acute lymphoblastic leukemia/lymphoma (B-ALL)	
T-cell acute lymphoblastic leukemia/lymphoma (T-ALL)	
B-cell neoplasms	4%
Chronic lymphoid leukemias	
Chronic lymphocytic leukemia/small lymphocytic lymphoma	
Monoclonal B-cell lymphocytosis	
Hairy cell leukemia	
Plasma cell neoplasms	
Multiple myeloma	
Plasmacytomas	
Amyloidosis	
Castleman disease and POEMS syndrome (polyneuropathy, organ enlargement, endocrinopathy, Monoclonal plasma-proliferative disorder, skin changes)	
Monoclonal gammopathy of undetermined significance (MGUS)	
Non-Hodgkin lymphomas, B-cell	
Diffuse large B-cell lymphoma	
Follicular lymphoma	
Mantle cell lymphoma	
Marginal zone B-cell and mucosa-associated lymphoid tissue (MALT) lymphomas	
Burkitt lymphoma	
Primary central nervous system lymphoma	

Lymphoplasmacytic lymphoma (including Waldenström macroglobulinemia)	
General lymphoma issues (not specific to lymphoma type)	
Immunodeficiency-associated lymphoproliferative disorders	<2%
Post-transplantation lymphoproliferative disorders (solid organ transplant)	
Lymphomas associated with human immunodeficiency virus (HIV) infection or primary immune disorders	
Lymphoproliferative disorders associated with iatrogenic immunodeficiency	
T-cell and NK-cell neoplasms	<2%
Cutaneous T-cell lymphoma (mycosis fungoides and Sézary syndrome)	
T-cell lymphomas	
Adult T-cell leukemia/lymphoma	
Large granular lymphocyte leukemia	
Prolymphocytic leukemia	
Hodgkin lymphoma	<2%
Classical Hodgkin lymphoma	
Nodular lymphocyte-predominant Hodgkin lymphoma	
Histiocytic and dendritic cell neoplasms	<2%
Myeloid and lymphoid neoplasms with eosinophilia and Abnormalities of <i>PDGFRA</i>, <i>PDGFRB</i>, or <i>FGFR1</i>	<2%
Complications of hematologic malignancies	<2%
Tumor lysis syndrome	
Spinal cord compression	
Paraneoplastic disorders	
Pharmacology	<2%
Toxicities and complications, including cytopenic complications	
Drug dosing and dose modifications	
Clinical trial design and interpretation	<2%

Transfusion Medicine

5% of Exam

Clinical indications for the use of blood products	<2%
Red blood cell preparations	
Platelet preparations	
Fresh frozen plasma	
Cryoprecipitate	

Risks associated with blood products	4%
Risks associated with administration	
Allergic reactions	
Nonanaphylactic allergic reactions	
IgA deficiency	
Anaphylactic reactions	
Graft-versus-host disease	
Electrolyte disturbances	
Infectious organisms	
Alloimmunizations	
Transfusion reactions	
Hemolytic reactions	
Febrile reactions	
Transfusion-related acute lung injury (TRALI)	
Transfusion-associated circulatory overload (TACO)	
Post-transfusion purpura and other risks associated with administration	
Risks associated with therapeutic apheresis procedures	
Management of patients who refuse transfusion	<2%

Cellular Therapy	1% of Exam
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Hematopoietic cell biology and engraftment	<2%
Biology of hematopoietic cell transplantation	
Biologic and immunologic relationship between donor and host	
Hematopoietic cell transplantation in the management of hematologic diseases	<2%
Autologous HCT	
Allogeneic HCT	
Conditioning regimens	<2%
Regimen intensity	
Toxicities	
Supportive care	<2%
Preventing infectious disease	
Transfusion support, including graft compatibility and blood product issues	

Graft-versus-host disease (GVHD)	<2%
Acute GVHD	
Chronic GVHD	
Other complications after hematopoietic cell transplantation	<2%
Engraftment failure or rejection	
Infections	
Organ toxicity	
Transplant-associated thrombotic microangiopathy	
Post-transplant lymphoproliferative disorder	
Late effects	
Disease relapse	<2%
Chimeric antigen receptor (CAR) T-cell therapy and other genetically modified cell therapy	<2%

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