

MEDICAL ONCOLOGY Blueprint

For traditional, 10-year Maintenance of Certification (MOC) exam and Longitudinal Knowledge Assessment (LKA)

ABIM invites diplomates to help develop the Medical Oncology MOC exam blueprint

Based on feedback from physicians that MOC assessments should better reflect what they see in practice, in 2016 the American Board of Internal Medicine (ABIM) invited all certified medical oncologists to provide ratings of the relative frequency and importance of blueprint topics in practice.

This review process, which resulted in a new MOC exam blueprint, will be used on an ongoing basis to inform and update all MOC assessments created by ABIM. No matter what form ABIM's assessments ultimately take, they will need to be informed by front-line clinicians sharing their perspective on what is important to know.

A sample of over 300 medical oncologists, similar to the total invited population of medical oncologists in age, gender, geographic region, and time spent in direct patient care, provided the blueprint topic ratings. ABIM used this feedback to update the blueprint for the MOC assessment (beginning with the Fall 2016 administration).

To inform how assessment content should be distributed across the major blueprint content categories, ABIM considered the average respondent ratings of topic frequency and importance in each of the content categories. A second source of information was the relative frequency of patient conditions in the content categories, as seen by certified medical oncologists and documented by national health care data (described further under *Content distribution* below).

To determine prioritization of specific assessment content within each major medical content category, ABIM used the respondent ratings of topic frequency and importance to set thresholds for these parameters in the exam assembly process (described further under *Detailed content outline* below).

Purpose of the Medical Oncology MOC Assessments

The MOC assessment is designed to evaluate whether a certified medical oncologist has maintained competence and currency in the knowledge and judgment required for practice. The MOC assessment emphasizes 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, future 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 will be on recognition rather than on management.

Assessment format

The traditional, 10-year MOC exam is composed of 220 single-best-answer multiple- choice questions, of which approximately 50 are new questions that do not count in the examinee's score. Examinees taking the traditional, 10-year MOC assessment will have access to an external resource (i.e., UpToDate*) for the entire exam.

The LKA for MOC, is a five-year cycle in which physicians answer questions on an ongoing basis and receive feedback on how they're performing along the way. More information on how exams are developed can be found at abim.org/about/exam-information/exam-development.aspx.

Most 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

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ABIM is committed to working toward health equity and believes that board-certified physicians should have an understanding of health care 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.

Reflecting the overall predominance of office-based practice, most questions describe patient encounters that take place in outpatient settings; some encounters will occur in hospital or other inpatient settings because most medical oncologists provide patient care in these settings as well.

Clinical information presented may include patient photographs, radiographs, computed tomograms, photomicrographs, magnetic resonance images, an equianalgesic table, bone scans, family pedigree charts, nomograms, and other media to illustrate relevant patient findings.

Exam tutorials, including examples of question format, can be found at abim.org/maintenance-of-certification/examinformation/medical-oncology/exam-tutorial.aspx.

Content distribution

Listed below are the major medical content categories that define the domain for the Medical Oncology traditional, 10-year MOC and LKA. The relative distribution of content is expressed as a percentage of the total assessment. To determine the content distribution, ABIM considered the average respondent

CONTENT CATEGORY	TARGET %
Anticancer Therapeutics, Clinical Research Methodology, and Ethics	9.5%
Palliative Care, Survivorship, and Communication	11%
Genetics, Genomics, and Tumor Biology	2%
Hematologic Neoplasms	14%
Thoracic Cancer	11%
Breast Cancer	13%
Genitourinary Cancer	12%
Gynecologic Cancer	4%
Gastrointestinal Cancer	13.5%
Skin Cancer, Sarcomas, and Unknown Primary Site	6%
Head, Neck, Thyroid, and Central Nervous System Malignancies	4%
Total	100%

ratings of topic frequency and importance. To cross-validate these self-reported ratings, ABIM also considered the relative frequency of conditions seen in Medicare patients by a cohort of certified medical oncologists. Informed by these data, the Medical Oncology Approval Committee and Board have determined the content category targets shown below.

How the blueprint ratings are used to assemble the MOC assessment

Blueprint reviewers provided ratings of relative frequency in practice for each of the detailed content topics in the blueprint and provided ratings of the relative importance of the topics for each of the tasks described in *Assessment format* above. In rating importance, reviewers were asked to consider factors such as the following:

- High risk of a significant adverse outcome
- Cost of care and stewardship of resources
- Common errors in diagnosis or management
- · Effect on population health
- · Effect on quality of life
- When failure to intervene by the physician deprives a patient of significant benefit

Frequency and importance were rated on a three-point scale corresponding to low, medium, or high. The median importance ratings are reflected in the *Detailed content outline* below. The Medical Oncology Approval Committee and Medical Oncology Board, in partnership with the physician community, have set the following parameters for selecting MOC assessment questions according to the blueprint review ratings:

- At least 75% of questions will address high-importance content (indicated in green)
- No more than 25% of questions will address mediumimportance content (indicated in yellow)
- No exam questions will address low-importance content (indicated in red)

Independent of the importance and task ratings, no more than 20% of questions will address low-frequency content (indicated by "LF" following the topic description).

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The content selection priorities below are applicable beginning with the Fall 2016 traditional, 10-year MOC exam and are subject to change in response to future blueprint review.

Note: The same topic may appear in more than one medical content category.

Detailed content outline for the Medical Oncology traditional, 10-year MOC exam and LKA



— **High Importance**: At least 75% of questions will address topics and tasks with this designation.

/ – **Medium Importance**: No more than 25% of questions will address topics and tasks with this designation.



— Low Importance: No questions will address topics and tasks with this designation.

LF - Low Frequency: No more than 20% of questions will address topics with this designation, regardless of task or importance.

ANTICANCER THERAPEUTICS, CLINICAL RESEARCH METHODOLOGY, AND ETHICS (9.5% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
PRINCIPLES OF ALLIED DISCIPLINES (<2%	of exam)				
Surgical oncology				✓	
Radiation oncology		⊘	⊘	⊘	⊘
Interventional radiology			⊘	⊘	⊘
Pathology	\bigcirc	\bigcirc	\bigcirc		⊘

ANTICANCER THERAPEUTICS (8% of exam)

Cytotoxic chemotherapy agents		_			
Alkylating agents		⊘	\bigcirc	⊘	⊘
Antimetabolites	⊘	⊘	⊘	⊘	⊘
Antitubulin agents	⊘	⊘	⊘	⊘	⊘
Anthracyclines	⊘	⊘	⊘	⊘	⊘
Topoisomerase I inhibitors	⊘	⊘	⊘	⊘	⊘
Topoisomerase II inhibitors	⊘	⊘	\bigcirc	⊘	⊘
Bleomycin and other DNA-damaging agents	⊘	⊘	⊘	⊘	⊘
Chemotherapy-drug interactions	⊘	⊘	\bigcirc	⊘	⊘



Low Importance: No questions will address topics and tasks with this designation.

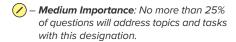
ANTICANCER THERAPEUTICS, CLINICAL RESEARCH METHODOLOG' AND ETHICS continued (9.5% of exam)	Y, Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
ANTICANCER THERAPEUTICS continued		1009			
Hormonal therapies		_			
Estrogens and selective estrogen					
response modifiers	⊘	∀	⊗	∀	<u> </u>
Progestins and antiprogestins	⊘	⊘	⊘	⊘	⊘
Aromatase inhibitors	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Androgens and antiandrogens		\bigcirc	\bigcirc		⊘
Gonadotropin-releasing hormone analogues	⊘	\bigcirc	\bigcirc		⊘
Glucocorticoids	⊘	\bigcirc	\bigcirc	⊘	⊘
Small molecule kinase inhibitors					
BCR-ABL1 inhibitors	⊘	⊘	⊘	⊘	⊘
Epidermal growth factor receptor (EGFR) inhibitors	⊘	⊘	⊘	⊗	⊘
Vascular endothelial growth factor receptor (VEGFR)/multitargeted inhibitors	⊘	⊘	⊘	⊘	
BRAF inhibitors	⊘	⊘	⊘	⊘	⊘
Anaplastic lymphoma kinase (ALK) and mesenchymal epithelial transition (MET) growth factor inhibitors	F	⊘	⊘	⊘	⊘
RET, ROS1, and NTRK inhibitors L	F	⊘	⊘	⊘	×
Mitogen-activated protein kinase (MEK) inhibitors	F 🕜	⊘	⊘	⊘	⊘
Bruton's tyrosine kinase (BTK) inhibitors	⊘	⊘	⊗	⊘	Ø
Janus kinase (JAK) inhibitors	⊘	⊘	⊘	⊘	⊘
Phosphoinositide-3 kinase (PI3K) inhibitors	F 🕜	⊘	⊘	⊘	(
Mammalian target of rapamycin (mTOR)/AKT inhibitors	⊘	⊘	⊘	⊘	⊘
Cyclin-dependent kinase (CDK) inhibitors	F 🗸	⊘	⊘	⊘	⊘



— Medium Importance: No more than 25% of questions will address topics and tasks with this designation. Low Importance: No questions will address topics and tasks with this designation.

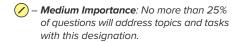
ANTICANCER THERAPEUTICS, CLINICAL RESEARCH METHODOLOGY AND ETHICS continued (9.5% of exam)	, Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science				
ANTICANCER THERAPEUTICS continued (8% of exam)									
Agents with epigenetic activity									
Histone deacetylase (HDAC) inhibitors		⊘	⊘	⊘	⊘				
DNA methyltransferase inhibitors LI		⊘	⊘	⊘	⊘				
Metabolic inhibitors other than antimetabolites		⊘	⊘	⊘	×				
Monoclonal antibodies and antibody co	njugates other tha	ın immune check	point inhibitors						
Monoclonal antibodies targeting EGFR, HER2, HER3	⊘	⊘	⊘	⊘	⊘				
Monoclonal antibodies targeting VEGFR pathway	⊘	②	⊘	⊘	⊘				
Monoclonal antibodies targeting B cell antigens (including CD20)	⊘	⊘	⊘	⊘	⊘				
Bispecific monoclonal antibodies LI		⊘	⊘	⊘					
Monoclonal antibody immune checkpoi	nt inhibitors								
Agents targeting cytotoxic T-lymphocyte-associated antigen 4 (CTLA4)		⊘	Ø	⊘	⊘				
Agents targeting programmed cell death protein 1 (PD-1) and programmed cell death ligand 1 (PD-L1)	⊘	⊗	⊘	⊘	⊘				
Tumor vaccines and viral-based immunotherapeutics		⊘	⊘	×	×				
Agents with other novel or specific target	ets								
Proteasome inhibitors	⊘	\bigcirc	⊘	⊘	⊘				
Immunomodulatory drugs (IMiDs)	\bigcirc	\bigcirc	\bigcirc	⊘	⊘				
Poly(ADP-ribose) polymerase (PARP) inhibitors		⊘	⊘	⊘	⊘				
Arsenicals LI		⊘	⊘	⊘	×				





Low Importance: No questions will address topics and tasks with this designation.

ANTICANCER THERAPEUTICS, CLINICAL RESEARCH METHODOLOGY,					
AND ETHICS continued	D iamenta		Treatment/	Risk Assessment/ Prognosis/	Pathophysiology/
(9.5% of exam)	Diagnosis	Testing	Care Decisions	Epidemiology	Basic Science
ANTICANCER THERAPEUTICS continued	(8% of exam)				
Cellular therapeutics					
High-dose therapy with stem cell rescue (autologous and allogeneic)	⊘	⊘	⊘	⊘	⊘
Chimeric antigen receptor (CAR) T-cell therapy	×	×	×	×	×
CLINICAL RESEARCH METHODOLOGY AN	D ETHICS (<2%	of exam)			
Clinical research methodology					
Design and interpretation of clinical trials		Not Applicable		⊘	⊘
Tumor assessment, imaging, and end points	\bigcirc	\bigcirc	⊘		
Ethics					
Human subjects and regulatory and legal issues		⊘	⊘		Not Applicable
Conflict of interest	⊘	⊘	⊘	⊘	Not Applicable
PALLIATIVE CARE, SURVIVORSHIP, AND COMMUNICATION (11% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
CLINICAL MANIFESTATIONS OF ADVANCE	D CANCER AND	ITS TREATMENT	(4.5% of exam)		
Cutaneous and mucosal manifestations	\bigcirc	⊘	⊘	⊘	⊘
Endocrine manifestations	⊘	⊘	⊘	⊘	⊘
Gastrointestinal manifestations	\bigcirc	⊘	⊘	⊘	⊘
Hematologic manifestations	\bigcirc	⊘	⊘	Ø	⊘
	\bigcirc		\bigcirc	⊘	⊘
Musculoskeletal manifestations					
Musculoskeletal manifestations Neurologic manifestations*	⊗	⊗	⊘	⊘	⊘
			∅∅	✓	✓✓



Low Importance: No questions will address topics and tasks with this designation.

PALLIATIVE CARE, SURVIVORSHIP, AND COMMUNICATION continued (11% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
CLINICAL MANIFESTATIONS OF ADVANCE	D CANCER AND I	TS TREATMENT	Continued (4.5%	of exam)	
Cardiothoracic manifestations	⊘	\bigcirc	⊘	⊘	⊘
Fatigue	⊘	\bigcirc	⊘	⊘	⊘
Psychiatric manifestations	⊘	<u>/</u>	⊘	⊘	×
Infectious risks and complications	⊘	\bigcirc	⊘	⊘	⊘
Lymphedema	*	*	⊘ *	⊘ *	*
CANCER PAIN (2% of exam)					
Use of opioids	⊘	\bigcirc	⊘	⊘	⊘
Use of nonopioids	⊘	⊘	⊘	⊘	⊘
SURVIVORSHIP ISSUES (<2% of exam)					
Fertility	⊘	⊘	⊘	Ø	×
Second primary cancers	⊘	\bigcirc	⊘	⊘	⊘
Secondary cancer prevention	⊘	\bigcirc	⊘	⊘	⊘
Nonmalignant sequelae	⊘	/	⊘	⊘	/
Surveillance	⊘	\bigcirc	⊘	⊘	×
END-OF-LIFE ISSUES (2% of exam)					
Hospice	⊘	⊘	⊘	⊘	×
Feeding and nutrition	⊘	⊘	⊘	⊘	⊘
Decision making/communication	⊘	\bigcirc	⊘	⊘	⊘
PROCEDURE-RELATED ISSUES (<2% of exa	am)				
Chemotherapy administration	⊘	⊘	⊘	⊘	⊘
Bone marrow aspiration, biopsy, and interpretation	⊘	\bigcirc	⊘	⊘	⊘
Tumor assessment	\bigcirc	\bigcirc	\bigcirc	⊘	⊘
Thoracentesis	⊘	⊘	⊘	⊘	×
Paracentesis	⊘	⊘	⊘	⊘	⊘
Feeding tubes	⊘	⊘	⊘	⊘	×

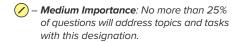




Low Importance: No questions will address topics and tasks with this designation.

PALLIATIVE CARE, SURVIVORSHIP, AND COMMUNICATION continued (11% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
COMMUNICATION (<2% of exam)					
Communicating prognosis and other clinical information	Not Ap	plicable	⊘	Not Ap	plicable
Discussing goals of care	Not Ap	plicable	\bigcirc	Not Ap	plicable
Discussing survivorship issues	Not Ap	plicable	⊘	Not Ap	plicable
GENETICS, GENOMICS, AND TUMOR BIOLOGY (2% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
CANCER BIOLOGY AND GENETICS (<2% o	f exam)				
Carcinogenesis LF	⊘	⊘	✓	✓	⊘
Genomics	⊘	⊘	✓	⊘	⊘
TUMOR IMMUNOLOGY (<2% of exam)					
Tumor immunology	⊘	⊘	⊘	×	⊘
HERITABLE CANCER SYNDROMES (<2% o	f exam)				
Li-Fraumeni syndrome (TP53) LF	⊘	⊘	⊘	⊘	×
BRCA1 and BRCA2 syndromes	⊘	⊘	⊘	⊘	⊘
Familial colorectal cancer					
Familial adenomatous polyposis LF	⊘	⊘	⊘	⊘	⊘
Lynch syndrome (hereditary nonpolyposis colorectal cancer)	⊘	⊘	⊘	⊘	Ø
Multiple endocrine neoplasia and familial medullary thyroid cancer syndromes	⊘	⊘	⊘	⊘	×
CANCER EPIDEMIOLOGY AND STATISTICS	6 (<2% of exam)				
Cancer epidemiology	⊘	⊘	⊘	⊘	⊘





Low Importance: No questions will address topics and tasks with this designation.

HEMATOLOGIC NEOPLASMS (14% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
ACUTE LEUKEMIA AND MYELODYSP	LASIA	(3% of exam)				
Acute myeloid leukemia (AML)						
Acute promyelocytic leukemia (APL)	LF	\bigcirc	\bigcirc	\bigcirc	⊘	⊘
AML with recurrent genetic abnormalities	LF	\bigcirc	\bigcirc			
AML with myelodysplasia-related changes		\bigcirc	\bigcirc	⊘		⊘
AML not otherwise specified	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Myeloid sarcoma	LF	⊘	⊘	⊘	×	×
Acute lymphoblastic leukemia/lymphoma	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Myelodysplastic syndromes		\bigcirc	\bigcirc	\bigcirc	\bigcirc	⊘
Chronic myelomonocytic leukemia		\bigcirc		⊘	⊘	⊘
CHRONIC MYELOID LEUKEMIA AND I	MYEL	OPROLIFERATIV	E NEOPLASMS	(2% of exam)		
Chronic myeloid leukemia		\bigcirc	\bigcirc	\bigcirc	\bigcirc	⊘
Myeloproliferative neoplasms		⊘	\bigcirc	⊘	⊘	⊘
CHRONIC LYMPHOPROLIFERATIVE LI	EUKE	MIAS (2% of exam	n)			
Chronic lymphocytic leukemia/ small lymphocytic lymphoma		\bigcirc	\bigcirc	⊘	⊗	⊘
Hairy cell leukemia	LF	\bigcirc	\bigcirc	\bigcirc	⊘	⊘
T-cell prolymphocytic leukemia	LF	⊘	⊘	⊘	×	×
T-cell large granular lymphocytic leukemia	LF	⊘	⊘	⊘	×	×
Monoclonal B-cell lymphocytosis		⊘	⊘	⊘	⊘	×
HODGKIN LYMPHOMA (<2% of exam)						
Early-stage disease		\bigcirc	\bigcirc	⊘	⊘	⊘
Advanced disease		⊘	\bigcirc	⊘	⊘	⊘



— Medium Importance: No more than 25% of questions will address topics and tasks with this designation.

Low Importance: No questions will address topics and tasks with this designation.

HEMATOLOGIC NEOPLASMS continued (14% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
MULTIPLE MYELOMA AND PLASMA CI	ELL DY	SCRASIAS (2%	of exam)	,		
Multiple myeloma/plasma cell leukem	iia	\bigcirc	\bigcirc	⊘	⊘	⊘
Solitary plasmacytoma	LF	⊘	⊘	⊘	⊘	⊘
Primary amyloidosis	LF	⊘	⊘	⊘	⊘	×
Monoclonal gammopathy of undetermined significance (MGUS)		\bigcirc	⊘	⊘	⊘	
Lymphoplasmacytic lymphoma (including Waldenstrom macroglobulinemia)	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
NON-HODGKIN LYMPHOMA (4% of exa	m)					
Low-grade disease		\bigcirc	⊘	⊘	⊘	⊘
Intermediate-grade disease		\bigcirc	⊘	⊘	⊘	⊘
High-grade disease		\bigcirc	\bigcirc	⊘	\bigcirc	Ø
Less common histologies						
Mantle cell lymphoma		\bigcirc	⊘	⊘	⊘	⊘
NK-T cell lymphoma	LF	⊘	⊘	⊘	×	×
Anaplastic large cell lymphoma	LF	<u>/</u>	⊘	⊘	⊘	⊘
Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma)		⊘	⊘	⊘	⊘	Ø
Nodal marginal zone lymphoma		⊘	⊘	⊘	⊘	⊘
Human immunodeficiency virus (HIV)-associated lymphoma	LF	⊘	⊘	⊘	⊘	⊘
Cutaneous T-cell lymphoma	LF	/	⊘	⊘	⊘	×
Primary central nervous system lymphoma	LF	⊘	⊘	⊘	⊘	×
Post-transplantation lymphoproliferative syndromes	LF	⊘	⊘	⊘	×	×
Peripheral T-cell lymphoma	LF				⊘	\otimes





X – Low Importance: No questions will address topics and tasks with this designation.

THORACIC CANCER (11% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
NON-SMALL CELL LUNG CANCER (9% of e.	xam)				
Early-stage disease	\bigcirc	\bigcirc	⊘	\bigcirc	⊘
Locally advanced disease					
Stage IIIA disease	\bigcirc	⊘	⊘	⊘	⊘
Stage IIIB disease	⊘	⊘	⊘	⊘	⊘
Metastatic disease					
Adenocarcinoma	*	*	*	✓ *	✓ *
Squamous cell carcinoma	*	⊘ *	⊘ *	⊘ *	⊘ *
SMALL CELL LUNG CANCER (<2% of exam)					
Limited disease	\bigcirc	⊘	⊘	\bigcirc	✓
Extensive disease	\bigcirc	⊘	⊘	⊘	⊘
MESOTHELIOMA AND THYMUS CANCER (<2% of exam)				
Mesothelioma LF	\bigcirc	⊘	⊘	⊘	⊘
Thymus cancer LF	⊘	⊘	⊘	⊘	×
BREAST CANCER (13% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
PREMALIGNANT CONDITIONS AND HIGH-F	RISK FACTORS (<	<2% of exam)			
High-risk histologies (including atypical ductal hyperplasia and atypical lobular hyperplasia)	⊘	⊘	⊘	⊘	⊘
Genetic predispositions	✓	⊘	⊘	⊘	✓
CARCINOMA IN SITU (<2% of exam)					
Carcinoma in situ	⊘	⊘	⊘	⊘	⊘
EARLY-STAGE AND LOCALLY ADVANCED II	NVASIVE CARCIN	IOMA (4.5% of e	xam)		
HER2-positive disease	*	*	*	⊘ *	/ *
HER2-negative, hormone receptor- positive disease	*	*	⊘ *	⊘ *	⊘ *
HER2-negative, hormone receptor- negative (triple-negative) disease	*	*	⊘ *	⊘ *	*

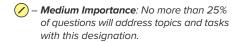




X – Low Importance: No questions will address topics and tasks with this designation.

BREAST CANCER continued					Risk Assessment/	
(13% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Prognosis/ Epidemiology	Pathophysiology/ Basic Science
INFLAMMATORY DISEASE (<2% of exa	m)	'				
Inflammatory disease		\bigcirc	\bigcirc	⊘	⊘	⊘
LOCALLY RECURRENT DISEASE (<2%	of exa	am)				
In-breast recurrence		\bigcirc	\bigcirc	⊘	⊘	⊘
Chest wall recurrence	LF	\bigcirc	\bigcirc	\bigcirc	⊘	⊘
METASTATIC DISEASE (4.5% of exam)						
HER2-positive metastatic disease		*	*	*	⊘ *	⊘ *
HER2-negative, hormone receptor-positive metastatic disease		*	*	*	⊘ *	⊘ *
HER2-negative, hormone receptor- negative (triple-negative) metastatic disease		⊘ *	*	*	⊘ *	⊘ *
LESS COMMON CLINICAL SCENARIO	S (<2%	% of exam)				
Tubular carcinoma	LF	Ø	⊘	⊘	⊘	×
Male breast cancer	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Pregnancy-associated breast cancer		*	*	*	✓ *	*
GENITOURINARY CANCER (12% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
GERM CELL TUMORS (<2% of exam)						
Seminoma	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Nonseminoma	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Germ cell tumor type not specified	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
PROSTATE CANCER (5% of exam)						
Localized disease		\bigcirc	\bigcirc	⊘	⊘	⊘
Locally advanced disease		⊘	⊘	⊘	⊘	⊘





X – Low Importance: No questions will address topics and tasks with this designation.

GENITOURINARY CANCER continued			Treatment/	Risk Assessment/ Prognosis/	Pathophysiology/
(12% of exam)	Diagnosis	Testing	Care Decisions	Epidemiology	Basic Science
PROSTATE CANCER continued (5% of exar	n)				
Prostate-specific antigen-only nonmetasti	c disease				
Castration-sensitive disease	*	*	⊘ *	⊘ *	⊘ *
Castration-resistant disease	*	*	*	⊘ *	⊘ *
Metastatic disease			,		,
Metastatic castration-sensitive disease	\bigcirc	\bigcirc	⊘	⊘	⊘
Metastatic castration-resistant disease	\bigcirc	\bigcirc	⊘	⊘	⊘
Special issues in prostate cancer					
Small cell carcinoma LF	⊘	⊘	⊘	⊘	×
RENAL CELL CANCER (2.5% of exam)					
Localized disease	✓	⊘	✓	⊘	⊘
Metastatic disease	\bigcirc	\bigcirc	⊘	⊘	⊘
Special issues in renal cell cancer	⊘	⊘	⊘	⊘	×
UROTHELIAL AND OTHER GENITOURINAR	Y CANCERS (2.59	% of exam)			
Bladder cancer					
Non-muscle invasive disease LF	⊘	⊘	⊘	✓	×
Muscle-invasive disease	\bigcirc	\bigcirc	⊘	⊘	⊘
Metastatic disease	\bigcirc	\bigcirc	⊘	⊘	⊘
Other urothelial cancers	⊘	⊘	Ø	Ø	×
Adrenal tumors					
Adrenocortical carcinoma	×	×	×	×	×
Pheochromocytoma and paraganglioma	⊘	×	×	×	×

— Medium Importance: No more than 25% of questions will address topics and tasks with this designation.

— Low Importance: No questions will address topics and tasks with this designation.

GYNECOLOGIC CANCER (4% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
CERVICAL CANCER (<2% of exam)						
Local-regional disease (Stages II and III)	LF	⊘	⊘	⊘	⊘	×
Recurrent and metastatic disease	LF				⊘	×
OVARIAN, FALLOPIAN TUBE, AND PR	IMAR	Y PERITONEAL C	CANCERS (2% of	exam)		
Epithelial ovarian, fallopian tube, and	d prim	nary peritoneal ca	ancers			
Stage I	LF	⊘	⊘	⊘	⊘	⊘
Stages II-IV		\bigcirc	\bigcirc	\bigcirc	⊘	⊘
Nonepithelial ovarian cancers	LF	/	⊘	⊘	⊘	×
Low malignant potential (borderline) cancers	LF	(×	⊘	×	×
OTHER GYNECOLOGIC MALIGNANC	ES (<	2% of exam)				
Uterine sarcoma	LF	⊘	⊘	⊘	⊘	×
Gestational trophoblastic disease	LF	⊘		⊘	⊘	×
Cancers of the vulva and vagina	LF	⊘	⊘	⊘	⊘	×
GASTROINTESTINAL CANCER (13.5% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
ANAL CANCER (<2% of exam)						
Local-regional disease	LF	\bigcirc	\bigcirc	⊘	⊘	⊘
Recurrent and metastatic disease	LF	⊘	⊘	⊘	Ø	×
BILIARY TREE AND GALLBLADDER C	ANCE	ER (<2% of exam)				
Local-regional disease	LF	⊘	\bigcirc	⊘	⊘	⊘
Recurrent and metastatic disease	LF	⊘	⊘	⊘	⊘	×





X – Low Importance: No questions will address topics and tasks with this designation.

GASTROINTESTINAL CANCER continued (13.5% of exam)	Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
COLORECTAL CANCER (4.5% of exam)					
Colon cancer					
Local-regional disease	⊘	\bigcirc	⊘	⊘	⊘
Recurrent and metastatic disease	⊘	\bigcirc	⊘	⊘	⊘
Rectal cancer					
Local-regional disease	⊘	⊘	⊘	\bigcirc	⊘
Recurrent and metastatic disease	⊘	⊘	⊘	⊘	⊘
ESOPHAGEAL CANCER (<2% of exam)					
Local-regional disease	⊘	\bigcirc	⊘	⊘	⊘
Recurrent and metastatic disease	⊘	\bigcirc	⊘	⊘	⊘
GASTRIC CANCER (<2% of exam)					
Resectable disease	⊘	\bigcirc	\bigcirc	⊘	⊘
Unresectable and metastatic disease	⊘	⊘	⊘	⊘	⊘
HEPATOCELLULAR CANCER (<2% of exa	m)				
Resectable disease LI	F 🔗	\bigcirc	⊘	⊘	⊘
Unresectable, liver-only disease	⊘	\bigcirc	⊘	⊘	⊘
Metastatic disease LI	F 🔗	\bigcirc	⊘	⊘	×
GASTROINTESTINAL NEUROENDOCRIN	E TUMORS (<2% of	exam)			
Gastrointestinal neuroendocrine tumors	F	\bigcirc	⊘	⊘	⊘
PANCREATIC CANCER (3% of exam)					
Resectable disease	⊘	\bigcirc	⊘	⊘	⊘
Unresectable disease	⊘	\bigcirc	⊘	⊘	⊘
Metastatic and recurrent disease	⊘	\bigcirc	⊘	⊘	⊘

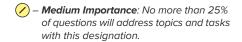




Low Importance: No questions will address topics and tasks with this designation.

GASTROINTESTINAL CANCER continued (13.5% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
SMALL BOWEL AND APPENDICEAL O	CANC	ER (<2% of exam)				
Small bowel cancer	LF	⊘	⊘	⊘	⊘	×
Appendiceal cancer	LF	⊘		⊘	⊘	×
SKIN CANCER, SARCOMAS, AND UNKNOWN PRIMARY SITE (6% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
MELANOMA (2% of exam)						
Localized melanoma		⊘	\bigcirc	⊘	⊘	⊘
Regional nodal and in-transit metastasis		⊘	⊘	⊘	⊘	Ø
Metastatic disease		\bigcirc	\bigcirc	\bigcirc	⊘	⊘
OTHER SKIN CANCERS (<2% of examp)					
Squamous cell and basal cell cance	r of th	ne skin				
Local-regional disease	LF	⊘		⊘	×	×
Recurrent and metastatic disease	LF	⊘	⊘	⊘	⊘	×
Merkel cell carcinoma	LF	⊘	⊘	⊘	×	×
BONE AND SOFT-TISSUE SARCOMAS	6 (<2%	of exam)				
Localized primary disease	LF	⊘	⊘	⊘	⊘	×
Local disease recurrence	LF	⊘	(⊘	⊘	×
Metastatic disease	LF	⊘	⊘	⊘	⊘	×
Gastrointestinal stromal tumor (GIST)					
Local-regional disease	LF	⊘	⊘	⊘	⊘	⊘
Recurrent and metastatic disease	LF	⊘	⊘	⊘	⊘	⊘
UNKNOWN PRIMARY SITE (2% of example)	m)					
Unknown primary site		⊘	\bigcirc	⊘	⊘	×





X – Low Importance: No questions will address topics and tasks with this designation.

HEAD, NECK, THYROID, AND CENTRAL NERVOUS SYSTEM MALIGNANCIES (4% of exam)		Diagnosis	Testing	Treatment/ Care Decisions	Risk Assessment/ Prognosis/ Epidemiology	Pathophysiology/ Basic Science
SQUAMOUS CELL CARCINOMA OF	ГНЕ Н	EAD AND NECK (<2% of exam)			
Human papillomavirus-positive dise	ease					
Local-regional disease		⊘		\bigcirc		×
Recurrent and metastatic disease		⊘	⊘	\bigcirc	⊘	×
Human papillomavirus-negative dis	ease					
Local-regional disease		⊘	⊘	⊘	⊘	×
Recurrent and metastatic disease		⊘	⊘	⊘	⊘	×
SALIVARY GLAND TUMORS (<2% of	exam)					
Salivary Gland Tumors	LF	⊘	⊘	⊘	⊘	×
THYROID CANCER (<2% of exam)						
Papillary	LF	⊘	⊘	⊘	⊘	⊘
Medullary	LF	⊘	⊘	⊘	⊘	⊘
Anaplastic	LF	⊘	⊘	⊘	⊘	×
NASOPHARYNGEAL CARCINOMA (<	2% of	exam)				
Local and regional disease	LF	⊘	⊘	⊘	⊘	⊘
Metastatic disease	LF	⊘	⊘	⊘	⊘	×
CENTRAL NERVOUS SYSTEM MALIC	NANC	CIES (<2% of exam)			
Primary central nervous system lesi	ons					
High-grade gliomas (astrocytoma and glioblastoma)		⊘	⊘	⊘	⊘	Ø
Oligodendroglioma and other central nervous system lesions	LF	⊘	⊘			\otimes
Metastatic central nervous system I	esions	5				
Parenchymal metastases		⊘	\bigcirc	⊘	⊘	×
Meningeal metastases	LF	⊘	⊘	⊘	⊘	⊘