

Rotation:
Hematology-Oncology Subspecialty Selective

Goals:

1. Provide medical residents and students with knowledge necessary to evaluate and treat a diverse group of hematologic and oncologic disorders.
2. Emphasize the need to know internal medicine in the management of hematologic and oncologic disorders.
3. Teach the importance of cancer prevention and expose medical residents and students to tools available to educate their disorders.

Objectives:

By the end of the Hematology-Oncology subspecialty selective, PGY-1 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Provide care for patients with acute or chronic leukemia or lymphoma, most of whom develop complications related to cytopenias.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate, treat, and follow-up neutropenic patients both febrile and afebrile.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the clinical characteristics and morphologic characteristics of all leukemias with bone marrow review.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Diagnose and management myelodysplastic syndromes and myeloproliferative syndromes.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and treat thrombocytopenic patients both bleeding and not bleeding.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	

Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage opportunistic infections	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage organ toxicities from chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Provide care for patients newly diagnosed with cancer, patients actively receiving chemotherapy and patients suffering from complications related to chemotherapy of cancer itself	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Choose a cost-effective evaluation of patients suspected to have a malignancy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify the risk factors, screening, and early detection of breast cancer, lung cancer, colon cancer, prostate cancer, skin cancers and cervical cancer.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage oncologic emergencies including, but not limited to: hypercalcemia, spinal cord compression, brain metastasis, SIADH, tumor lysis syndrome, superior vena syndrome, respiratory failure and effusions.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Recognize and management the classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Describe the TMN staging of cancers and prognosis/survival related to stage	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Demonstrate proper timing and compassionate delivery of bad news to patients and family	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and management somatic and neuropathic pain both acute and chronic. Demonstrate correct titration of pain medications both narcotic and non-narcotic, choosing the appropriate route of administration, and recognition of limitations due to metabolic pathways	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Apply principles of palliative care including but not limited to: management of fatigue, anorexia, pain, dyspnea and recognition of the benefits of appropriate medical therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Use ancillary tests in radiology, pulmonology, cardiology and gastroenterology properly in the evaluation of malignant disease	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify correct indications for use of radiation therapy and describe the basic principles of radiation oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and manage some less common tumors including but not limited to sarcoma, GU, GI, and head and neck tumors.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Provide care for patients with undiagnosed and diagnosed non-malignant hematologic disorders	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Patients with primary and secondary bleeding and/or thrombotic disorders are evaluated and treated	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Distinguish among microcytic, macrocytic, and normocytic (including hemolytic) anemia and describe evaluation and management of all types	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Distinguish primary from secondary thrombocytopenia describing evaluation and management.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify cause of leukopenia and make appropriate diagnosis and management	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Diagnose and treat DIC, TTP, platelet dysfunction, and Von Willebrand's disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the hematological complications of liver disease	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the multiple causes of thromophilia and demonstrate a cost-effective work-up	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Perform the following procedures (optional): <ul style="list-style-type: none"> • Accessing indwelling venous catheters • Bone marrow aspirate and biopsy • Pheresis • Bone marrow harvest • Intrathecal chemotherapy 	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Describe chemotherapy principles including concepts of induction, adjuvant and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	

Explain concepts of dose intensity including rationale for marrow ablative therapy and transplantation	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Recognize classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Describe etiology, prevention and treatment of tumor lysis syndrome	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Review indications and appropriate use of cytokines in hematologic disorders	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Describe classification, diagnosis, and management of Hodgkin's and non Hodgkin's lymphomas	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Describe the pathophysiology, diagnosis, and management of graft vs. host disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
apply medical knowledge and clinical skill to any patient who is immunocompromised and/or has a life threatening illness	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Discuss chemotherapy principles including concepts of radiation, adjuvant, and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Employ critical reading skills in reviewing clinical trials involving oncologic literature	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Discuss the importance of clinical trials in medical oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Apply basic science knowledge of blood cell maturation, biochemical pathways, the coagulation cascade and the continual balance between clotting and bleeding to the management of patients	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the pathophysiology, diagnosis and treatment of Vitamin K deficiency both dietary and warfarin induced	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Explain the pathophysiology of hemophilia and demonstrate how to evaluate and manage its complications	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list. End of the life issues, pain management, palliative care, and ethical issues are emphasized with practical experience in dealing with the dying patient.			
Systems-Based Practice	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Hematology-Oncology subspecialty selective, PGY-2 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
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Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Provide care for patients with acute or chronic leukemia or lymphoma, most of whom develop complications related to cytopenias.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate, treat, and follow-up neutropenic patients both febrile and afebrile.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the clinical characteristics and morphologic characteristics of all leukemias with bone marrow review.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Diagnose and management myelodysplastic syndromes and myeloproliferative syndromes.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and treat thrombocytopenic patients both bleeding and not bleeding.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and manage opportunistic infections	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and manage organ toxicities from chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Provide care for patients newly diagnosed with cancer, patients actively receiving chemotherapy and patients	Clinical Teaching	ABIM global assessment	

suffering from complications related to chemotherapy of cancer itself	Reading List	Written Exam Procedure Log Review	
Choose a cost-effective evaluation of patients suspected to have a malignancy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify the risk factors, screening, and early detection of breast cancer, lung cancer, colon cancer, prostate cancer, skin cancers and cervical cancer.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage oncologic emergencies including, but not limited to: hypercalcemia, spinal cord compression, brain metastasis, SIADH, tumor lysis syndrome, superior vena syndrome, respiratory failure and effusions.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Recognize and management the classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Describe the TMN staging of cancers and prognosis/survival related to stage	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Demonstrate proper timing and compassionate delivery of bad news to patients and family	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and management somatic and neuropathic pain both acute and chronic. Demonstrate correct titration of pain medications both narcotic and non-narcotic, choosing the appropriate route of administration, and recognition of limitations due to metabolic pathways	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Apply principles of palliative care including but not limited to: management of fatigue, anorexia, pain, dyspnea and recognition of the benefits of appropriate medical therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Use ancillary tests in radiology, pulmonology, cardiology	Clinical Teaching	ABIM global assessment	

and gastroenterology properly in the evaluation of malignant disease	Reading List	Written Exam Procedure Log Review	
Identify correct indications for use of radiation therapy and describe the basic principles of radiation oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage some less common tumors including but not limited to sarcoma, GU, GI, and head and neck tumors.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Provide care for patients with undiagnosed and diagnosed non-malignant hematologic disorders	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Patients with primary and secondary bleeding and/or thrombotic disorders are evaluated and treated	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Distinguish among microcytic, macrocytic, and normocytic (including hemolytic) anemia and describe evaluation and management of all types	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Distinguish primary from secondary thrombocytopenia describing evaluation and management.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify cause of leukopenia and make appropriate diagnosis and management	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	

	Diagnose and treat DIC, TTP, platelet dysfunction, and Von Willebrand's disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the hematological complications of liver disease	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the multiple causes of thromophilia and demonstrate a cost-effective work-up	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Perform the following procedures (optional): <ul style="list-style-type: none"> • Accessing indwelling venous catheters • Bone marrow aspirate and biopsy • Pheresis • Bone marrow harvest • Intrathecal chemotherapy 	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Describe chemotherapy principles including concepts of induction, adjuvant and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Explain concepts of dose intensity including rationale for marrow ablative therapy and transplantation	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Recognize classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe etiology, prevention and treatment of tumor lysis syndrome	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Review indications and appropriate use of cytokines in hematologic disorders	Clinical Teaching	ABIM global assessment	

		Reading List	Written Exam Procedure Log Review	
	Describe classification, diagnosis, and management of Hodgkin's and non Hodgkin's lymphomas	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the pathophysiology, diagnosis, and management of graft vs. host disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	apply medical knowledge and clinical skill to any patient who is immunocompromised and/or has a life threatening illness	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Discuss chemotherapy principles including concepts of radiation, adjuvant, and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Employ critical reading skills in reviewing clinical trials involving oncologic literature	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Discuss the importance of clinical trials in medical oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Apply basic science knowledge of blood cell maturation, biochemical pathways, the coagulation cascade and the continual balance between clotting and bleeding to the management of patients	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the pathophysiology, diagnosis and treatment of Vitamin K deficiency both dietary and warfarin induced	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Explain the pathophysiology of hemophilia and	Clinical Teaching	ABIM global assessment	

	demonstrate how to evaluate and manage its complications	Reading List	Written Exam Procedure Log Review	
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
	End of the life issues, pain management, palliative care, and ethical issues are emphasized with practical experience in dealing with the dying patient.			
Systems-Based Practice	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Hematology-Oncology subspecialty selective, PGY-3 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Provide care for patients with acute or chronic leukemia or lymphoma, most of whom develop complications related to cytopenias.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate, treat, and follow-up neutropenic patients both febrile and afebrile.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the clinical characteristics and morphologic characteristics of all leukemias with bone marrow review.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	

Diagnose and management myelodysplastic syndromes and myeloproliferative syndromes.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and treat thrombocytopenic patients both bleeding and not bleeding.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage opportunistic infections	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage organ toxicities from chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Provide care for patients newly diagnosed with cancer, patients actively receiving chemotherapy and patients suffering from complications related to chemotherapy of cancer itself	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Choose a cost-effective evaluation of patients suspected to have a malignancy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Identify the risk factors, screening, and early detection of breast cancer, lung cancer, colon cancer, prostate cancer, skin cancers and cervical cancer.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Evaluate and manage oncologic emergencies including, but not limited to: hypercalcemia, spinal cord compression, brain metastasis, SIADH, tumor lysis syndrome, superior vena syndrome, respiratory failure and effusions.	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Recognize and management the classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the TMN staging of cancers and prognosis/survival related to stage	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Demonstrate proper timing and compassionate delivery of bad news to patients and family	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and management somatic and neuropathic pain both acute and chronic. Demonstrate correct titration of pain medications both narcotic and non-narcotic, choosing the appropriate route of administration, and recognition of limitations due to metabolic pathways	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Apply principles of palliative care including but not limited to: management of fatigue, anorexia, pain, dyspnea and recognition of the benefits of appropriate medical therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Use ancillary tests in radiology, pulmonology, cardiology and gastroenterology properly in the evaluation of malignant disease	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify correct indications for use of radiation therapy and describe the basic principles of radiation oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Evaluate and manage some less common tumors including but not limited to sarcoma, GU, GI, and head and neck tumors.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Provide care for patients with undiagnosed and diagnosed non-malignant hematologic disorders	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Patients with primary and secondary bleeding and/or thrombotic disorders are evaluated and treated	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Distinguish among microcytic, macrocytic, and normocytic (including hemolytic) anemia and describe evaluation and management of all types	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Distinguish primary from secondary thrombocytopenia describing evaluation and management.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify cause of leukopenia and make appropriate diagnosis and management	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify indications and procedures for blood component therapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Diagnose and treat DIC, TTP, platelet dysfunction, and Von Willebrand's disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the hematological complications of liver disease	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the multiple causes of thrombophilia and demonstrate a cost-effective work-up	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Perform the following procedures (optional): • Accessing indwelling venous catheters	Clinical Teaching	ABIM global assessment	

	<ul style="list-style-type: none"> • Bone marrow aspirate and biopsy • Pheresis • Bone marrow harvest • Intrathecal chemotherapy 	Reading List	Written Exam Procedure Log Review	
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Describe chemotherapy principles including concepts of induction, adjuvant and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Explain concepts of dose intensity including rationale for marrow ablative therapy and transplantation	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Recognize classic toxicities of chemotherapy	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe etiology, prevention and treatment of tumor lysis syndrome	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Review indications and appropriate use of cytokines in hematologic disorders	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe classification, diagnosis, and management of Hodgkin's and non Hodgkin's lymphomas	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Describe the pathophysiology, diagnosis, and management of graft vs. host disease.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	apply medical knowledge and clinical skill to any patient who is immunocompromised and/or has a life threatening illness	Clinical Teaching Reading List	ABIM global assessment Written Exam	

			Procedure Log Review	
	Discuss chemotherapy principles including concepts of radiation, adjuvant, and intensification therapy.	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Employ critical reading skills in reviewing clinical trials involving oncologic literature	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Discuss the importance of clinical trials in medical oncology	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Apply basic science knowledge of blood cell maturation, biochemical pathways, the coagulation cascade and the continual balance between clotting and bleeding to the management of patients	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Identify the pathophysiology, diagnosis and treatment of Vitamin K deficiency both dietary and warfarin induced	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
	Explain the pathophysiology of hemophilia and demonstrate how to evaluate and manage its complications	Clinical Teaching Reading List	ABIM global assessment Written Exam Procedure Log Review	
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES			
	See General Internal Medicine Objectives for a comprehensive list.			
	End of the life issues, pain management, palliative care, and ethical issues are emphasized with practical experience in dealing with the dying patient.			
Systems-Based	SPECIALTY SPECIFIC OBJECTIVES			

Practice	See General Internal Medicine Objectives for a comprehensive list.			
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Learning Venues:

1. Methodist University Hospital inpatient oncology service.
2. Methodist University Hospital inpatient malignant hematology service.
3. Regional Medical Center/Bowld Hospital inpatient consultation service.
4. Veterans Affairs Hospital inpatient consultation service.
5. Outpatient Hematology-Oncology clinics located at 1331 Union Avenue, Suite 800.
6. Outpatient Hematology-Oncology clinics located at the VA Hospital. 7. Baptist Hospital Memphis and West Clinic.

Residents and students are assigned to a single inpatient service and are given the opportunity to participate two or more half day clinics in the outpatient learning venues. Specific guidelines for the inpatient services are given to the resident at the start of each rotation. Inpatient services minimally consist of an attending fellow and a resident. Clinics provide residents with the opportunity to see and evaluate patients with a variety of hematologic and oncologic disorders who are functioning well outside the hospital setting. A reading list is provided to all residents.

Competency Evaluation:

ABIM Global Assessment Form - all six competencies must be rated as satisfactory or superior. A written examination at the end of the rotation will be given to assess medical knowledge and patient care with either an 80% score expected on the closed book exam or a 100% score on the open book test. A procedure log should be maintained on all procedures.

Outcomes Assessment:

- 1) Hematology-oncology scores on the in-service examination of all residents successfully completing the elective and 2) hematology-oncology scores on the ABIM certifying examination. Our goal is for all residents to score > 50 percentile.