

Elective Hematology/Oncology Rotation Information and Instructional Objectives

Instructor of Record for Elective Hematology/Oncology Rotation:

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Elective Hematology/Oncology Clinical Rotation Topics

Dermatologic System

Neoplasms: Benign, Malignant, Premalignant

Endocrine System

Neoplasms: Multiple endocrine neoplasia, Neoplastic syndrome, Primary endocrine malignancy

Eyes, Ears, Nose, and Throat

Ear disorders

Neoplasms: Benign, Malignant

Gastrointestinal System/Nutrition

Neoplasms: Benign, Malignant

Genitourinary System (Male and Female)

Neoplasms: Bladder cancer, Penile cancer, Prostate cancer, Testicular cancer

Hematologic System

Autoimmune disorders

Coagulation disorder: Clotting factor disorders, Thrombocytopenias

Cytopenias: Anemia, Leukopenia

Cytoses: Polycythemia, Thrombocytosis

Hemoglobinopathies: Hemochromatosis, Sickle cell disease, Thalassemia

Immunologic disorders: Transfusion reaction

Neoplasms, premalignancies, and malignancies: Acute/chronic lymphocytic leukemia,

Acute/chronic myelogenous leukemia, Lymphoma, Multiple myeloma, Myelodysplasia

Musculoskeletal System

Neoplasms: Benign, Malignant

Neurologic System

Neoplasms: Benign, Malignant

Pulmonary System

Neoplasms: Carcinoid tumors, Lung cancer, Pulmonary nodules

Renal System

Neoplasms: Renal cell carcinoma, Wilms tumor

Reproductive System (Male and Female)

Neoplasms of the breast and reproductive tract: Benign, Malignant

Elective Hematology/Oncology Rotation Learning Outcomes

Upon completion of the elective hematology/oncology clinical rotation,

1. Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Hematology/Oncology Clinical Rotation Topics above) encountered in hematology and oncology for patients seeking medical care for the following age populations: adults and/or elderly.
2. Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Hematology/Oncology Clinical Rotation Topics above) commonly encountered in patients seeking emergent, acute, and chronic hematology and oncology health care.
3. Students will demonstrate technical skills common to hematology and oncology.
4. Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (b) acute problem-focused encounters, and (c) chronic disease follow-up encounters.
5. Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in hematology and oncology.
6. Students will facilitate difficult health care conversations in hematology and oncology.
7. Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a hematology and oncology setting.
8. Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to hematology and oncology.
9. Students will (a) promote a safe environment for patients seeking care in a hematology and oncology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in hematology and oncology, (d) work effectively with other health professionals to provide collaborative, patient centered hematology and oncology care, (e) work effectively in an outpatient and/or inpatient health delivery settings, (f) incorporate considerations of cost awareness and funding into patients seeking care in a hematology and oncology setting, and (g) describe basic health payment systems and practice models for hematology and oncology.

Elective Hematology/Oncology Instructional Objectives

Upon completion of the elective hematology and oncology clinical rotation,

1. **Elective Hematology/Oncology Rotation Learning Outcome #1:** Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Hematology/Oncology Clinical Rotation Topics above) encountered in hematology and oncology for patients seeking medical care for the following age populations: adults and/or elderly.

- **Elective Hematology/Oncology instructional objective:** Evaluate the common disease processes in hematology and oncology using suggested readings and course study guide. (MK-PLO2)
 - **Elective Hematology/Oncology instructional objective:** Identify the etiology, pathophysiology, and clinical presentation of conditions listed in the clinical topics for this rotation. (MK-PLO3)
 - **Elective Hematology/Oncology Rotation instructional objective:** Select appropriate treatment plans for patients using all pertinent medical data, including history, physical examination, and diagnostic data, under the preceptor's supervision. (MK-PLO3)
 - **Elective Hematology/Oncology Rotation instructional objective:** Identify medications commonly used in hematology and oncology, including the indication, contraindication, mechanism of action, most common side effects, and appropriate dosage for age. (MK-PLO2)
 - **Elective Hematology/Oncology instructional objective:** Contrast possible risks and benefits of diagnostic studies and treatment plans. (MK-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Recommend appropriate screening tests and immunizations based on current standards. (MK-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Contrast the risks and benefits of procedures that must be performed on your patient. (MK PLO-3)
 - **Elective Hematology/Oncology instructional objective:** Interpret and apply setting appropriate healthcare guidelines. (MK PLO-3)
2. **Elective Hematology/Oncology Rotation Learning Outcome #2:** Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Hematology/Oncology Clinical Rotation Topics above) commonly encountered in patients seeking emergent, acute, and chronic hematology and oncology health care.
- **Elective Hematology/Oncology instructional objective:** Demonstrate an age and setting appropriate history and physical exam for a patient 18-64 years of age. (PC-PLO2)
 - **Elective Hematology/Oncology instructional objective:** Demonstrate an appropriate history and physical exam on a patient greater than 65 years of age. (PC-PLO2)
 - **Elective Hematology/Oncology instructional objective:** Choose appropriate diagnostic tests to identify an abnormality. (PC-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Interpret diagnostic studies related to the patient's medical condition. (PC-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Formulate an appropriate differential diagnosis based on history, physical examination, and diagnostic study data. (PC-PLO4)

- **Elective Hematology/Oncology instructional objective:** Construct an appropriate treatment plan based on history, physical exam, and diagnostic data. (PC-PLO4)
 - **Elective Hematology/Oncology instructional objective:** Actively manage acute and chronic patient conditions. (PC- PLO4)
3. **Elective Hematology/Oncology Rotation Learning Outcome #3:** Students will demonstrate technical skills common to hematology and oncology.
 4. **Elective Hematology/Oncology Rotation Learning Outcome #4:** Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (b) acute problem-focused encounters, and (c) chronic disease follow-up encounters.
 5. **Elective Hematology/Oncology Rotation Learning Outcome #5:** Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in hematology and oncology.
 - **Elective Hematology/Oncology instructional objective:** Adapt communication style and information context to the individual patient interaction. (ICS-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Identify communication barriers with different patient populations. (ICS PLO-3)
 - **Elective Hematology/Oncology instructional objective:** Compose an oral case presentation and present it to the preceptor. (ICS-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Explain possible risks and benefits of diagnostic studies and treatment plans to your patient as approved by the supervising provider. (ICS-PLO3)
 6. **Elective Hematology/Oncology Rotation Learning Outcome #6:** Students will facilitate difficult health care conversations in hematology and oncology.
 7. **Elective Hematology/Oncology Rotation Learning Outcome #7:** Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a hematology and oncology setting.
 - **Elective Hematology/Oncology instructional objective:** Practice professionally in a working situation with other healthcare team members, including appropriate dress, punctual attendance, and professional attitude. (P-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Show sensitivity to the emotional, social, developmental, and ethnic background of patients and their families on their service. (P-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Apply professional attitude in such areas as attendance, dress code, and performance in the medical setting. (P-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Demonstrate sensitivity and responsiveness to patients' culture, gender, age, and disabilities. (P-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Demonstrate motivation and desire to learn. (P-PLO3)

- **Elective Hematology/Oncology instructional objective:** Demonstrate knowledge of the legal and regulatory requirements of the role of a physician assistant. (P-PLO4)
8. **Elective Hematology/Oncology Rotation Learning Outcome #8:** Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to hematology and oncology.
- **Elective Hematology/Oncology instructional objective:** Demonstrate an openness to receive constructive criticism. (PBLPI-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Recognize limitations and locate assistance from supervising preceptors and appropriate reference material. (PBLPI-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Develop the ability to learn from practice. (PBLPI-PLO2)
 - **Elective Hematology/Oncology instructional objective:** Recognize personal limitations and where to access help personally and professionally. (PBLPI-PL2)
 - **Elective Hematology/Oncology instructional objective:** Interpret independent outside readings concerning medical problems encountered. (PBL PI-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Show ability to understand and apply decision-making tools. (PBL PI PLO-3)
 - **Elective Hematology/Oncology instructional objective:** Recognize the importance of lifelong learning in the medical field. (PBLPI-PLO3)
 - **Elective Hematology/Oncology instructional objective:** Assess medical evidence and communicate it to patients and colleagues. (PBLPI-PL3)
 - **Elective Hematology/Oncology instructional objective:** Apply information technology to access online medical information and continue personal education. (PBLPI-PL3))
 - **Elective Hematology/Oncology instructional objective:** Use medical information technology in decision-making, patient care, and patient education. (PBLPI-PL3)
9. **Elective Hematology/Oncology Rotation Learning Outcome #9:** Students will (a) promote a safe environment for patients seeking care in a hematology and oncology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in hematology and oncology, (d) work effectively with other health professionals to provide collaborative, patient centered hematology and oncology care, (e) work effectively in an outpatient and/or inpatient health delivery settings, (f) incorporate considerations of cost awareness and funding into patients seeking care in a hematology and oncology setting, and (g) describe basic health payment systems and practice models for hematology and on.
- **Elective Hematology/Oncology instructional objective:** Operate under the rules of HIPAA to preserve patient confidentiality. (SBP-PLO1)
 - **Elective Hematology/Oncology instructional objective:** Practice according to policy and procedures set forth by the health care facility. (SBP-PLO1)

- **Elective Hematology/Oncology instructional objective:** Employ a professional relationship with the supervising providers and other health care team members. (SBP-PLO4)
- **Elective Hematology/Oncology instructional objective:** Identify the obstacles to obtaining medical care for those with financial difficulties. (SBP-PLO6)
- **Elective Hematology/Oncology instructional objective:** Evaluate cost-effective health care and resources that do not compromise the quality of patient care. (SBP-PLO6)
- **Elective Hematology/Oncology instructional objective:** Identify the funding sources and payment systems that provide coverage for the patient. (SBP-PLO7)
- **Elective Hematology/Oncology instructional objective:** Choose the appropriate code for billing the responsible payment service under the direct supervision of the preceptor. (SBP-PLO7)

Elective Hematology/Oncology Rotation Curriculum Integration Table

Elective Hematology/Oncology Rotation Learning Outcome	Assessment Method (Benchmark Requirements)	PAS Program Goal	PAS Program Learning Outcome (ARC-PA)/Student Learning Outcomes (GVSU)
<p>Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Hematology/Oncology Clinical Rotation Topics above) encountered in hematology and oncology for patients seeking medical care for the following age populations: adults and/or elderly</p>	<p>Preceptor Evaluation (80% average score on Medical Knowledge competency section)</p>	<p>Medical Knowledge and Competence in Patient Care</p>	<p>MK #2 MK #3</p>
<p>Students will elicit a detailed and accurate patient history, perform an appropriate physical examination, appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Hematology/Oncology Clinical Rotation Topics above) commonly encountered in patients seeking emergent, acute, and chronic hematology and oncology health care.</p>	<p>Preceptor Evaluation (80% average score on Patient competency section)</p>	<p>Medical Knowledge and Competence in Patient Care</p>	<p>PC #1 PC #2 PC #3 PC #4</p>

Students will demonstrate technical skills common to hematology and oncology	Preceptor Evaluation (80% average score on Patient competency section)	Medical Knowledge and Competence in Patient Care	PC #5
Students will obtain and document information clearly and appropriately for the following types of patient encounters: (a) emergent problem-focused encounters, (b) acute problem-focused encounters, and (c) chronic disease follow-up encounters	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS#2
Students will listen empathetically and effectively, communicate clearly, and utilize shared decision-making for patients seeking care in hematology and oncology	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS #1
		Collaborative Practice	ICS #3 ICS #5
Students will facilitate difficult health care conversations in hematology and oncology	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Collaborative Practice	ICS #4
Students will demonstrate compassion, integrity, respect, patient responsiveness, and accountability while providing care to patients in a hematology and oncology setting	Preceptor Evaluation (80% average score on Professionalism competency section)	Professionalism	P #1 P #2 P #3
Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to hematology and oncology	Preceptor Evaluation (80% average score on Practice-Based Learning and Proficiency Improvement	Lifelong Learning	PBLPI #1 PBLP #2 PBLP #3

	competency section)		
Students will (a) promote a safe environment for patients seeking care in a hematology and oncology setting, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions in hematology and oncology, (d) work effectively with other health professionals to provide collaborative, patient centered hematology and oncology care, (e) work effectively in an outpatient and/or inpatient health delivery settings, (f) incorporate considerations of cost awareness and funding into patients seeking care in a hematology and oncology setting, and (g) describe basic health payment systems and practice models for hematology and on	Preceptor Evaluation (80% average score on Systems-Based Practice competency section)	Medical Knowledge and Patient Care	SBP #1 SBP #6
		Lifelong Learning	SBP #2
		Collaborative Practice	SBP #3 SBP #4 SBP #5 SBP #7

Elective Hematology/Oncology Rotation Preceptor Evaluation of the Student

1. What is your group and/or site name (i.e., The Cancer & Hematology Centers)
2. Medical Knowledge: This section evaluates the student's ability to demonstrate medical knowledge, clinical reasoning, and problem-solving ability of sufficient breadth and depth to practice medicine as an entry-level physician assistant

	60% (Failing)	70% (D+ / C-)	80% (C+ / B)	90% (B+ / A-)	100% (A)	N/A
Student demonstrates medical knowledge in pathophysiology, etiology, and epidemiology for patients seeking medical care for common conditions encountered in hematology and oncology in the following age populations (MK#2, 3):						
Adults						
Elderly						
Student demonstrates medical knowledge of patient presentations for common conditions encountered in hematology and oncology for the following age populations (MK#2,3):						
Adults						
Elderly						
Student demonstrates medical knowledge of differential diagnosis and diagnostic work-up for patients seeking medical care for common conditions encountered in hematology and oncology in the following age populations (MK#2,3)						
Adults						
Elderly						
Student demonstrates medical knowledge of patient management strategies for patients seeking medical care for common conditions encountered in hematology and oncology in the following age populations (MK#2,3):						
Adults						
Elderly						
Additional Comments:						

3. Patient Care: This section evaluates the student's ability to provide person-centered care that includes patient- and setting-specific assessment, evaluation, management, and health promotion.

	60% (Failing)	70% (D+ / C-)	80% (C+ / B)	90% (B+ / A-)	100% (A)	N/A
Elicit a detailed and accurate patient history and perform an appropriate physical examination for the following populations encountered in hematology and oncology (PC#1):						
Adults						
Elderly						
Elicit a detailed and accurate history and perform an appropriate physical examination for patients encountered in family medicine seeking (PC#2):						
Acute care						
Chronic care						

Preoperative care						
Intraoperative care						
Post Operative care						
Student demonstrates knowledge of the appropriate use and interpretation of diagnostic testing and laboratory studies commonly used for patients seeking (PC#3):						
Acute care						
Chronic care						
Preoperative care						
Intraoperative care						
Post Operative care						
Student organizes information from the interview, diagnostic testing, and physical examination to formulate differential diagnoses for patients seeking (PC#4):						
Acute care						
Chronic care						
Preoperative care						
Intraoperative care						
Post Operative care						
Student organizes information from the interview, diagnostic testing, and physical examination to formulate assessment plans for symptoms/conditions commonly encountered in patients seeking (PC#4):						
Acute care						
Chronic care						
Preoperative care						
Intraoperative care						
Post Operative care						
Demonstrate basic technical skills common to hematology and oncology. (PC#5):						
Additional Comments:						

4. Interpersonal and Communication Skills: This section evaluates the student's ability to demonstrate verbal and non-verbal communication skills needed to have respectful, compassionate, and effective conversations with patients, patients' families, and health professionals to exchange information and make medical decisions.

	60% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)	N/A
Listen empathetically and effectively to patients seeking care in hematology and oncology (ICS#1)						
Obtain and document information clearly and accurately at an appropriate level the following types of patient encounters (ICS#2):						
Acute problem-focused encounters						

Chronic disease follow-up encounters						
Preoperative encounters						
Intraoperative encounters						
Post-operative encounters						
Communicate information clearly to patients, families, colleagues, and teams as appropriate across a broad range of socioeconomic and cultural backgrounds. (ICS#3)						
Facilitate difficult health care conversations in hematology and oncology (ICS#4):						
Utilize shared-decision making to promote patient-centered communication by eliciting and incorporating patient preferences (ICS#5)						
Additional Comments:						

5. Professionalism: This section evaluates the student’s ability to demonstrate commitment to carrying out professional responsibilities and adhering to ethical principles and practices.

	60% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)
Demonstrate compassion, integrity, and respect for patients seeking care in a hematology and oncology setting (P#1)					
Demonstrate responsiveness to patient needs that supersede self-interest while providing care in a hematology and oncology setting (P#2)					
Show accountability to patients, society, and the profession while providing care in a hematology and oncology setting (P#3)					
Demonstrate leadership and advocacy for the PA profession (P#4)					
Additional Comments:					

6. Practice-Based Learning and Proficiency Improvement: This section evaluates the student’s ability to acquire, appraise, and apply evidence-based medicine to patient care,

and accurately assess and improve clinical performance based on constant self-evaluation and lifelong learning.

	60% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)
Seek, implement, and accept feedback (PBLPI#1)					
Reflect on performance to identify strengths and deficiencies in one's knowledge and expertise and develop a plan for self-improvement (PBLPI#2)					
Locate, appraise, and integrate evidence-based studies related to hematology and oncology (PBLPI#3)					
Additional Comments:					

7. **Systems-Based Practice:** This section evaluates the student's ability to engage with other healthcare professionals in a manner that optimizes patient care within the context of the larger healthcare system.

	60% (Failing)	70% (D+/ C-)	80% (C+/ B)	90% (B+/ A-)	100% (A)
Promote a safe environment for patients seeking care in a hematology and oncology setting (SBP#1)					
Demonstrate knowledge of quality improvement methodologies and metrics in hematology and oncology (SBP#2)					
Recognize the unique roles of PAs and those of other healthcare professions in hematology and oncology (SBP#3)					
Work effectively with other health professionals to provide collaborative, patient centered hematology and oncology care (SBP#4)					
Work effectively in an inpatient/ and or outpatient health delivery setting (SBP#5)					
Incorporate considerations of cost awareness and funding sources into patients seeking care in a hematology and oncology setting (SBP#6)					
Describe basic health payment systems and practice models for hematology and oncology (SBP#7)					

Additional Comments:

8. Did the student have any absences during the rotation?
 - a. Yes
 - b. No
 - c. If yes, please indicate the dates and the reason for absence:
9. Please write a short note commenting on this student's particular strengths.
10. Please write a short note commenting on this student's particular areas for improvement.
11. Was this evaluation discussed with the student?
 - a. Yes
 - b. No
 - c. Additional comments:
12. Preceptor Signature: