



## PAP681- Emergency Medicine

### Expected Learning Outcomes

Upon completion of this course, students will be able to:

1. Formulate a patient-centered and problem-focused history for adults and elderly patients with emergent and acute conditions in the emergency department setting. (B3.03a, B3.03b) (MK)
2. Perform a problem-focused and age-appropriate physical examination for adults and elderly patients in the emergency department setting. (B3.03a, B3.03b) (CTS)
3. Distinguish emergent conditions from non-emergent conditions. (B3.03a) (MK)
4. Develop differential diagnosis for adult and elderly patients presenting for evaluation of emergent and acute conditions. (B3.03a, B3.03b) (MK)
5. Choose appropriate diagnostic studies, for adult and elderly patients, required for evaluation of emergent and acute conditions, in the emergency room setting. (B3.03a, B3.03b) (MK)
6. Evaluate results of diagnostic studies, for adult and elderly patients, required for evaluation of emergent and acute conditions, in the emergency room setting. (B3.03a, B3.03b) (CTS)
7. Formulate an appropriate diagnosis based on clinical case information, in the emergency room setting. (B3.03a) (CRPS)
8. Perform technical skills within the scope of an emergency medicine physician assistant. (B3.03a) (CTS)
9. Generate appropriate treatment plans and dispositions for patients with emergent and acute conditions presenting to the emergency department. (B3.03a) (CRPS)
10. Engage in person-centered communication with members of the healthcare team, in the emergency medicine setting. (B3.03a) (ICS)
11. Produce accurate, organized, and comprehensive medical documentation, in the emergency medicine setting. (B3.03a) (ICS)



12. Apply principles of evidence-based medicine to the practice of emergency medicine. (B3.03a) (CRPS)

13. Exhibit empathy, cultural humility, and ethical integrity in all interactions with patients and those involved in their care, in the emergency room setting. (B3.03a) (PROF)

14. Demonstrate ability to use feedback to make performance improvements, in the emergency room setting. (PROF)

15. Understand the PA scope of practice in the emergency medicine setting. (B3.03a) (PROF).

16. Demonstrate acquisition of medical knowledge necessary to provide acute and emergent care for adult and elderly patients presenting to the emergency department setting. (B3.03a, B3.03b) (MK)

**Note:** Each course learning outcome aligns with one or more ARC-PA defined competency domains, including: MK - Medical Knowledge, ICS - Interpersonal and Communication Skills, CRPS - Clinical Reasoning and Problem Solving, CTS - Clinical and Technical Skills, PROF – Professionalism

### Instructional Objectives

Upon completion of this course, students will be able to:

| Instructional Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Expected learning outcomes                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Elicit history of present illness from patients or those involved in their care by asking clear questions in a logical sequence, relevant to the chief complaint.</li><li>2. Determine the need for utilization of other resources (ex: past medical records, EMS personnel, language translation services) to aid in obtaining patient history.</li><li>3. Present the key points of the history of present illness to the clinical preceptor.</li><li>4. Document the history of present illness into the medical record.</li></ol> | Formulate a patient-centered and problem-focused history for infants, children, adolescents, adults, and elderly patients in the emergency department setting. |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Conduct a physical examination as indicated by the clinical presentation.</li><li>2. Distinguish between normal and abnormal physical examination findings.</li><li>3. Present the pertinent findings of the physical exam to the clinical preceptor.</li><li>4. Document the physical examination into the medical record.</li></ol>                                                                                                                                                                                                                     | Perform a problem-focused and age-appropriate physical examination for infants, children, adolescents, adults, and elderly patients in the emergency department setting. |
| <p>Recognize abnormal vital signs and physical exam findings associated with life-threatening injury and illness.</p> <p>Recognize critical diagnostic findings associated with life-threatening injury and illness.</p> <p>Demonstrate knowledge of BLS/ACLS protocols.</p> <p>Perform a medical screening exam.</p> <p>Refer patients from the emergency department to outpatient settings when appropriate.</p> <p>Assign appropriate triage levels to emergency department patients.</p> <p>Prioritize clinical interventions in accordance with established emergency medicine protocols.</p> | Distinguish emergent conditions from non-emergent conditions.                                                                                                            |
| <ol style="list-style-type: none"><li>1. Develop a list of differential diagnoses based on clinical case information to include both emergent (topics listed in Appendix A) and non-emergent (ex: acute and chronic) conditions (topics listed in Appendix A and B).</li><li>2. Recognize the ways in which age, gender, immunosuppression, pregnancy, comorbidities, and social determinants of health influence the differential diagnosis for a given clinical presentation.</li></ol>                                                                                                          | Develop appropriate differential diagnoses required for evaluation of emergent and acute conditions.                                                                     |
| <ol style="list-style-type: none"><li>1. Identify the types of diagnostic studies appropriate for utilization in the emergency department setting.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                       | Choose appropriate diagnostic studies                                                                                                                                    |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 2. Modify differential diagnoses appropriately in accordance with proper patient reassessments and alterations in the patient's clinical course.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | required for evaluation of emergent and acute conditions.                                        |
| 1. Confirm or rule out the presence of an emergent medical condition based on clinical findings.<br>2. Communicate results of diagnostic studies to patients, families, and members of the healthcare team.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Evaluate results of diagnostic studies required for evaluation of emergent and acute conditions. |
| 1. Exhibit sound diagnostic reasoning during case presentations in a concise, organized, and logical manner.<br>2. Manage patient expectations regarding definitive diagnosis of non-emergent (ex: acute and chronic) conditions in the emergency department setting.                                                                                                                                                                                                                                                                                                                                                                                                                                              | Formulate an appropriate diagnosis based on clinical case information.                           |
| 1. Recognize indications, contraindications, risks, and benefits for emergency procedures and effectively communicate these to patients and families.<br>2. <b>Perform the following procedures within the physician assistant scope of practice under direct supervision from the preceptor (see Preceptor Evaluation of Student):</b> <ul style="list-style-type: none"><li>a. Eye Examination – Fluorescein Stain &amp; Woods Lamp</li><li>b. Chest Radiograph Interpretation</li><li>c. Oxygen Administration</li><li>d. Splint Application</li><li>e. Administration of Local Anesthetic</li><li>f. Incision &amp; Drainage</li><li>g. Wound Culture</li><li>h. Cervical Spine Clearance (C-Collar)</li></ul> | Perform technical skills within the scope of an emergency medicine physician assistant.          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Demonstrate knowledge of both pharmacologic and non-pharmacologic treatment for emergent medical conditions (topics listed in Appendix A).</li><li>2. Determine the appropriate disposition for patients evaluated in the emergency department after a diagnosis is made.</li><li>3. Identify circumstances in which an emergent patient requires a higher level of care beyond hospital admission, such as intensive care unit or transfer to another facility</li><li>4. Develop an outpatient treatment plan for the non-hospitalized patient, including appropriate prescriptions, referrals, and discharge instructions.</li><li>5. Present treatment plan and disposition to the clinical preceptor.</li><li>6. Document treatment plan and disposition in the medical record.</li></ol> | <p>Generate appropriate treatment plans and dispositions for patients with emergent and acute conditions presenting to the emergency department.</p> |
| <ol style="list-style-type: none"><li>1. Describe the scope and limitations of providers and members of the healthcare team within the emergency department.</li><li>2. Describe the capabilities of specialists and facilities as they relate to the diagnosis and management of emergent conditions (topics listed in Appendix A).</li><li>3. Deliver succinct, organized, and clear oral case presentations to preceptors and consultants.</li><li>4. Request consultation with specialists when clinically appropriate.</li></ol>                                                                                                                                                                                                                                                                                                   | <p>Engage in person-centered communication with members of the healthcare team.</p>                                                                  |
| <ol style="list-style-type: none"><li>1. Incorporate the required elements of the history of present illness, physical examination, and medical decision making (including procedures, if applicable) into the patient's medical record.</li><li>2. Recognize variations in documentation when history and/or physical exam findings are limited (ex: pediatric patients, non-verbal patients, uncooperative patients).</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                       | <p>Produce accurate, organized, and comprehensive medical documentation.</p>                                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>3. Articulate written medical decision making in a manner that is legally defensible and supported by the current standards of care in emergency medicine practice.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |
| <ol style="list-style-type: none"><li>1. Demonstrate appropriate utilization of clinical decision-making tools validated for use in emergency medicine practice.</li><li>2. Demonstrate knowledge of resources available for referencing up-to-date clinical practice guidelines.</li><li>3. Incorporate principles of evidence-based practice into patient education and shared decision making, when appropriate.</li></ol>                                                                                                                                                                                                                                                                                                  | Apply principles of evidence-based medicine to the practice of emergency medicine.                                            |
| <ol style="list-style-type: none"><li>1. Recognize communication barriers and appropriately utilize trained language interpreters, as needed.</li><li>2. Demonstrate understanding of diverse patient populations with variations in culture, disability, gender, religion, sexual orientation, socio-economic status.</li><li>3. Recognize how social determinants of health affect emergency medical care.</li><li>4. Present diagnosis, results, plan of care, and education to patients and families in a manner that is clear, empathetic, professional, respectful, and compassionate.</li><li>5. Engage in effective shared decision making with patients and those involved in their care, when appropriate.</li></ol> | Exhibit empathy, cultural humility, and ethical integrity in all interactions with patients and those involved in their care. |
| <ol style="list-style-type: none"><li>1. Implement actionable steps for clinical improvement in areas such as patient assessment, procedural techniques, and documentation based on feedback received during mid-rotation preceptor evaluation.</li><li>2. Complete a structured self-reflection exercise at the conclusion of the rotation, identifying at least one</li></ol>                                                                                                                                                                                                                                                                                                                                                | Demonstrate ability to use feedback to make performance improvements.                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| patient encounter from the rotation with room for improvement and proposing a strategy for professional growth or clinical development.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                        |
| <ol style="list-style-type: none"><li>1. Recognize the scope of practice, responsibilities, and contributions of a PA in the emergency medicine setting and on interdisciplinary teams.</li><li>2. Recognize when to seek additional resources, consult team members, or refer patients to ensure high-quality, evidence-based patient care.</li></ol>                                                                                                                                                                                                                | Understand the PA scope of practice in the emergency medicine setting.                                                                                 |
| <ol style="list-style-type: none"><li>1. Identify and describe the pathophysiology, clinical presentation, and management of acute and emergent conditions as described in the <a href="#">PAEA End-of-Rotation Emergency Medicine Exam Blueprint</a> for infants, children, adolescents, adults, and elderly patients in the emergency department setting.</li><li>2. Demonstrate knowledge of all content categories and task categories described in the <a href="#">NCCPA PANCE content blueprint</a> applicable to the practice of emergency medicine.</li></ol> | Demonstrate acquisition of medical knowledge necessary to provide acute and emergent care for patients presenting to the emergency department setting. |