

**The Jane R. Perlman Fellowship Program
Nurse Practitioner and Physician Assistant Fellowship in Emergency Medicine**

Topic (Module): Musculoskeletal (Orthopedic)

Length: 8 weeks

Objective	Content	Methodology	Instructor	Time	Evaluation
<p>1. Recognize, manage, treat fractures, dislocations, and other orthopedic injuries that present to the ED.</p> <p>2. Interpret radiologic images of orthopedic injuries</p> <p>3. Recognize specific types of orthopedic injuries, such as those associated with maltreatment</p>	<p>I. Principles of fracture and dislocations</p> <p>A. Diagnostic imaging in the ED</p> <p>B. Radiographic description, measurements</p> <p>C. Salter fractures</p> <p>D. Open, contamination principles of Management</p> <p>E. General management principles</p> <p>1. Pharmacologic and non-pharmacologic</p>	<p>Lecture</p> <p>Discussion</p> <p>Clinical experiences</p> <p>Radiology time</p>	A. Ruiz	1 hour	<p>Direct observation</p> <p>Simulation evaluation</p>
	<p>II. Selected traumatic injuries</p> <p>A. Upper extremities: shoulder, clavicle, humerus, elbow, wrist, hand, digits</p> <p>1. Fracture, dislocation, sprain</p> <p>2. Specific management</p> <p>a. Reduction, stabilization</p>	<p>Lecture</p> <p>Discussion</p> <p>Clinical experiences</p> <p>Radiology time</p>	Alison Ruiz	2 hours	<p>Direct observation</p> <p>Simulation evaluation</p>

	<p>B. Lower extremities: hip, femur, knee, tib/fib, ankle, foot, digits</p> <ol style="list-style-type: none"> 1. Fracture, dislocation, sprain 2. Specific management <ol style="list-style-type: none"> a. Reduction, stabilization <p>C. Pelvic</p> <ol style="list-style-type: none"> 1. Fracture <p>D. Spinal: cervical, thoracic, lumbar, sacral</p> <ol style="list-style-type: none"> 1. Fracture, subluxation <p>III. Fractures associated with maltreatment</p> <p>A. Diagnostic studies</p>	Simulation			
4. Recognize and manage selected inflammatory conditions	<p>I. Selected inflammatory conditions</p> <ol style="list-style-type: none"> A. Bursitis B. Tendinitis 	<p>Lecture</p> <p>Discussion</p> <p>Clinical experiences</p> <p>Simulation:</p> <p>- Joint aspiration/inj.</p>		1 hour	<p>Direct observation</p> <p>Simulation evaluation</p>
5. Discuss and demonstrate management of patients presenting with back pain	<p>I. Chronic vs. acute back pain</p> <p>II. Red Flags for back pain</p> <p>III. Diagnostic imaging</p> <p>IV. Pain control</p> <p>V. Disposition and follow up</p>	<p>Discussion</p> <p>Clinical experiences</p> <p>Radiology time</p> <p>Simulation</p>	Dr. Graff	2 hours	<p>Direct observation</p> <p>Simulation evaluation</p>