**EVALUATION OF THE SHOULDER AND ELBOW IN THE EMERGENCY DEPARTMENT**

**INSTRUCTOR’S GUIDE**

**BACKGROUND:**

Musculoskeletal injuries are commonly seen in the Emergency Department and are an important subject matter relevant to all physicians.

**PURPOSE & GOALS:**

To provide a general overview of shoulder and elbow anatomy, radiography, physical examination, management of frequently encountered injuries, and common exam topics with board-style questions to prompt discussion.

**EDUCATIONAL OBJECTIVES:**

By the end of this didactic session, the learner will be able to:

* Identify anatomic structures of the shoulder and elbow
* Interpret radiographic structures of the shoulder and elbow
* Perform examination of the shoulder and elbow
* Diagnose and manage commonly encountered pathological conditions involving the shoulder and elbow
* Be familiar with common reduction techniques for dislocated shoulder and elbow

**RESOURCE FILES:**

1. Evaluation of the shoulder and elbow in the Emergency Department didactic (filename: Evaluation of the shoulder and elbow in the Emergency Department.pptx)

* This didactic provides an overview of shoulder and elbow evaluation for Emergency physicians
* Estimated time: 90 minutes

2. Summary Handout (filename: Evaluation of the shoulder and elbow in the Emergency Department Summary.docx)

* This document provides a summary of the teaching points for the module

**TOTAL MODULE DURATION:** 90-120 minutes

**REQUIRED RESOURCES:**

* Computer with capability of running PowerPoint

**DESCRIPTION OF MODULE:**

Intended Audience

* This module was developed for medical students, EM residents at any level of training, advanced practice providers, and attending physicians

Recommended implementation/timeline

* During the module
  + This didactic session can be delivered to any size group. Participants may be divided into small groups by level of training to further facilitate discussion.
* **Evaluation of the shoulder and elbow in the Emergency Department** Didactic presented by a senior resident or faculty member. (90 minutes)
* Optional ultrasound practice: The learners may participate in a short session to practice ultrasound (self/partner/model) of the shoulder to identify the head of the humerus, biceps groove, long head of biceps tendon, and supraspinatus tendon. (15 minutes)
* Optional durable medical equipment demonstration: The learners may participate in a brief demonstration of how to size and apply a sling, sling and swathe, shoulder immobilizer, figure of 8 clavicle brace, rigid arm brace and counterforce forearm brace. (15 minutes)

**CONCLUSIONS:**

Care of musculoskeletal disorders is part of the ABEM Model of Clinical Practice, which is designed for use as the core document for our specialty, and a foundation for developing residency curricula. This module was developed to train medical students and residents in the basic concepts of emergency care for shoulder and elbow disorders. After completion of this curricular module, learners will better understand the shoulder and elbow joints and application of musculoskeletal medicine.

**REFERENCES:**

1. Hansen J., Netter F. *Netter's Clinical Anatomy*. 4th ed. Elsevier; 2018.
2. Tintinalli J, Ma O, Yealy D et al. *Tintinalli's Emergency Medicine*. 9th ed. New York: McGraw-Hill Education; 2019.
3. Rosh Review Question Bank