

MSK Elective Covid-19 Version

- I. The course is divided in four components:
 1. Learning the ultrasound techniques needed to assess the head and neck both for diagnosis and procedural purposes.
 2. Correlate other diagnostic imaging modalities [X-ray, CT, MRI] used to study the head and neck. [Both normal and abnormal].
 3. Reflect and present with the faculty the assigned images.
 4. Final Presentation

I. Ultrasound Curriculum from SonoSim:

- a. Select **two [2]** from the following list of Sonosim ultrasound modules:
 - i. Anatomy & Physiology Module Shoulder
 - ii. Anatomy & Physiology Module Elbow
 - iii. Anatomy & Physiology Module Knee
 - iv. Anatomy & Physiology Module Hip
 - v. Procedures: Intro to Ultrasound guided procedures
 - vi. Procedures: Ultrasound-Guided Internal Jugular Vein Cannulation
 - vii. Core Clinical: Musculoskeleta
- b. Student needs to complete and upload the images and the master quiz included in the Sonosim website.
- c. Probes needs to be pick at the MDD main library [could vary]

II. Diagnostic Imaging from Radiopaedia: Select one [1] from the following:

- a. Normal Shoulder MRI-
<https://radiopaedia.org/cases/normal-shoulder-mri?lang=us>
- b. Elbow MRI <https://radiopaedia.org/cases/normal-elbow-mri?lang=us>
- c. Lumbar Spine MRI <https://radiopaedia.org/cases/normal-lumbar-spine-mri-3?lang=us>

III. Cases Discussion:

- a. For this component the student will look in <https://radiopaedia.org/?lang=us> and in <https://www.thepocusatlas.com/> . Select two cases of interest related to the above anatomy [shoulder, elbow, spine].
 - i. One from each website. Total of two cases.
 - ii. Correlate the images [ultrasound and radiological images]
 - iii. Images from POCUS atlas could be selected from:
 - 1. MSK Cases- <https://www.thepocusatlas.com/musculoskeletal>
 - 2. Fractures of the MSK system- <https://www.thepocusatlas.com/trauma-1>
 - 3. Sonosim ultrasound is used for the presentation as well.
 - iv. Images from radiopedia could be X-rays, CT, or MR
 - v. Student will prepare a presentation and include the following:
 - 1. The use of Sonosim [with the probe] and images from radiopedia
 - 2. Describe important anatomic structures
 - 3. Describe landmarks unique to the region
 - 4. Discussion of the pathologic radiology
 - 5. Differential Diagnosis
 - vi. **Important:** Cases needs to be related to pathologies of the musculoskeletal system [e.g. trauma, tumors, etc.]
 - vii. **The presentation will be scheduled using Microsoft Teams.** Students and faculty will agree on a specific date.

IV. Assessment:

- a. Student will be assessed as follow:
 - i. Accuracy in identifying structures [Student identification or asked by faculty] 33.33%
 - ii. Grades from the Mastery quizzes from Sonosim.....33.33%

[certificate or screenshots needs to be submitted by the time of the presentation via email]

- iii. Ability to teach and Presentation the chosen case using Sonosim and the radiopedia images
.....25%

In summary: you need to do the presentation using the Sonosim probe, an image from POCUS atlas, and a set of images from radiopedia.

Important notice:

- Make sure that you let know the faculty which studies and images are you going to work with.
- Any questions can be directed to lopezh@usf.edu