

How to Integrate US into the Curriculum

1. Anatomy

- a. Coordinate live ultrasound scanning with the anatomy curriculum by body part or anatomic section
- b. Bring the ultrasound unit into the Dissection lab and show ultrasound images corresponding to anatomic sections
- c. Scan a cadaver to evaluate tissue texture and different anatomic spaces including joints
- d. Correlate ultrasound images to CT scans to show the appearance of organs with different modalities
- e. Encourage scanning of models or students to appreciate 3D orientation of anatomic landmarks

2. Physiology

- a. Utilize Doppler scanning to show differences in blood flow in arteries and veins
- b. Coordinate live scanning with physical diagnosis classes
- c. Perform echocardiography to show changes in cardiac cycle and valvular events
- d. Focus on physiological events including menstrual changes of the ovary and uterus, normal and abnormal transplant blood flow, and changes in mesenteric flow with a meal
- e. Observe changes in fetal growth

3. Pathology

- a. Build a library of ultrasound images to compare to pathology specimens
- b. Work with the pathology department to identify specimens with ultrasound correlation
- c. Review ultrasound images with corresponding CT abnormalities

4. Clinical Rotations

- a. Radiology
- b. Cardiology
- c. OB/Gyn
- d. Emergency
- e. Critical Care
- f. Pediatrics
- g. Vascular Surgery
- h. Urology
- i. Anesthesia
- j. Internal Medicine

5. Senior Electives

- a. Radiology
 - i. Abdominal Scanning

- ii. OB/GYN
- b. Vascular Laboratory
 - i. Venous Ultrasound
 - ii. AAA Screening
- c. Emergency Ultrasound/FAST scan
- d. Cardiac Imaging
- e. Image-Guided Procedures