Advanced Ultrasound-Procedures

**Directors:** Andrew Butki, DO  
Jereme Long, DO

**Locations:** MSUCOM-DMC Campus  
MSUCOM-Macomb Campus  
MSUCOM East Lansing Campus

**Course Description:**

In a rapidly alternating lecture-practice format, emergency medicine residents gain motor skills for performing ultrasound-guided procedures:

- Hematoma block
- Fracture reductions
- Lumbar puncture
- Peripheral venous access
  - Cephalic v
  - Basilic v
  - Forearm veins
- Central venous access
  - Internal jugular v
  - Subclavian v
  - Femoral v
- Forearm regional nerve blocks
  - Median n
  - Ulnar n
  - Radial n
- Lower extremity regional nerve blocks
  - Femoral n
  - Sciatic n
  - Posterior tibial n
- Interarticular injections