

# Ultrasound-Guided Regional Anesthesia Cadaver Course

Saturday June 8 - 9, 2013

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## Purpose of the Workshop

1. To review the cross sectional anatomy of the peripheral nerves, ergonomics, and physics related to use of ultrasound and correlative anatomy using dissected cadavers.
2. Establish a clinical skills and attitude appropriate for basic ultrasound guided peripheral nerve blocks using fresh cadavers as models.
3. To acquire a thorough knowledge of the ultrasound imaging in human volunteers and needling techniques for basic nerve blocks in cadavers.
4. Hands-on experience with mannequins and volunteers and real-time ultrasound guided blocks in cadavers in laboratory settings.

## Objectives of the Course

1. To be able to differentiate the ultrasound images of vessels, peripheral nerves, tendons, nerve plexus and discuss methods of improvement or decrement of the ultrasound image quality to achieve the best benefit from the technique
2. List the benefits of using real time, ultrasound guidance for regional anesthesia administration
3. To be able to demonstrate proficient and appropriate use of ultrasound scanning in identifying specific targets such as anatomy of the needle, nerve structure or surrounding vital organs pertinent to peripheral nerve block.
4. Acquire hands on nerve scanning skills and acquire hand eye coordination and needling skills
5. To be able to handle the ultrasound equipment while performing needle placement, identify and differentiate anatomic structures imaged with ultrasound on both living and anatomical models.

## Target Audience

1. Anesthesia residents and fellows with an interest in regional anesthesia
2. Anesthesiologists practicing at Hershey medical center
3. other medical care providers who already possess knowledge and skills in regional anesthesia

## Learning Strategies

1. Didactic lectures on Basic anatomy, ergonomics, and physics related to ultrasound use for peripheral nerve blockade
2. Supervised hands on scanning on live volunteers for different types of blocks
3. Practical tips and tricks for ultrasound guided blocks.
4. Extended question answer periods
5. Supervised hands on ultrasound guided needle insertion techniques for different blocks in cadavers.
6. Needle insertions using ultrasound in mannequins followed by window dissection of nerves and cross sections.