

Lab Handout: **CT Intervention**

1. Explain why gantry tilt may be needed for an interventional needle placement.
2. What circumstances would motivate a physician to use CT guided imaging versus ultrasound?
3. Explain how a physician uses in room lasers during an interventional biopsy/ablation, is there a part of the procedure where they are more or less important?
4. Describe the difference between real time CT fluoroscopy, step and shoot CT fluoroscopy, and using “normal” helical scanning for IR procedures. Which provides the physician with the most information, which is the lowest dose?
5. Why is CT intervention inherently a low dose imaging task?
6. Why would we consider a 3-D navigation system (i.e., electromagnetic nav “Imactis”)?