

Regional Anesthesia Rotation Objectives

Medical Expert/Clinical Decision Maker

The trainee will demonstrate knowledge acquisition in the following area:

- **Anatomy** related to specific regional anesthesia (RA) technique.
 - surface landmarks
 - perineural structure
 - ultra sound anatomy
 - sensory innervation
 - motor innervation
 - components and details of brachial plexus, lumbar plexus, sacral plexus

- **Physiology** related to specific RA techniques and disease processes
 - nerve transmission/blockade
 - physiologic response to acute pain
 - the patient with chronic pain at the site of surgery

- **Pharmacology** of
 - local anesthetics
 - adjuvants (epinephrine, opioids, HCO₃, etc.)
 - chronic opioid use in the patient presenting for surgery

- **Regional anesthesia equipment**
 - needles
 - peripheral nerve stimulator
 - ultrasound
 - catheters
 - stimulating catheters

- **Complications/side effects**
 - IV toxicity
 - neural injury
 - needle trauma to surrounding tissue (i.e. hematoma, pneumothorax, dural puncture)
 - unintended neural blockade (i.e phrenic nerve, epidural)

- **Contraindications** related to specific RA techniques
 - infection
 - anticoagulation
 - pre-existing neural injury
 - increased ICP
 - pulmonary disease

- **Various RA techniques**
 - IV regional anesthesia
 - peripheral nerve blockade
 - single shot
 - continuous technique
 - rescue
 - neuraxial blockade

Communicator

The trainee will:

- demonstrate abilities in effective communication to patients and family, other physicians and ancillary personnel via
 - **written word**
 - charting (complete & legible)
 - consultation
 - **spoken word**
 - anesthesia and analgesia options for various procedures
 - case presentations
 - personal discussion
 - **listening**
 - effectively listen and assimilate information important for patient care and for personal growth

Formal presentation at rounds will also be assessed

Collaborator

The trainee will demonstrate abilities in the following areas:

- A good relationship with the perioperative team, essential to provide exemplary care to the patient, namely:
 - the anesthesiology team
 - the surgical team
 - the nursing staff of the O.R., C.S.R.U., and inpatient units
- contribution to any of these groups for interdisciplinary activities i.e. rounds, or research

Manager

As Manager of the block room the trainee will demonstrate an understanding of the cardiac O.R./C.S.R.U patient flow dynamics. It will include:

- coordination of patient flow perioperatively
- appropriate patient selection
- appropriate timing/calling for the patient, i.e. which patient to attend to first given limited resource
- consideration for implementation of strategies to improve functioning of the O.R.
- follow-up of patients following cardiac surgery

Professional

To demonstrate appropriate behaviors and attitude towards patients, his/her family and all personnel involved in the care of that patient, the

- Anesthesiology team
- Surgical team
- Nursing staff

Scholar

The trainee will demonstrate an ability to:

- implement continuing education strategies
- apply the principles of critical appraisal
- teach other residents, medical students or other personnel
- contribute to knowledge in the department

Patient Advocate

The trainee will demonstrate an ability to provide appropriate information to the patient and/or their family so they can make an informed decision regarding regional anesthesia as

- a primary anesthetic technique
- a component of their intra & post-op analgesia
- dealing with adverse outcomes