

## Curriculum for Acute Pain Rotation

Draft 11/8/17

- I. Opiates**
  - a. Opiate Conversions
  - b. Side Effects/Treatment of Side Effects
  - c. Withdrawal
  - d. PCAs
  - e. The 4 A's
  - f. Opiate Tolerant patients
    - i. Optimizing Perioperative Opioid Use
    - ii. Buprenorphine products
    - iii. Guidelines for opiate rotation
    - iv. Conversion to Fentanyl transdermal
    - v. Guidelines for methadone conversion
- II. Epidurals:**
  - i. Initial Evaluation
  - ii. Dermatomes for sensory level testing
  - iii. Epidural infusion problem solving
  - iv. Management in ICU, floors, non-SHC anesthesia
- III. Peripheral Nerve Catheters**
  - a. Site of Catheters (paravertebral, ACC, femoral, TAP)
  - b. Placement
  - c. Trouble shooting/Replacement of Catheters
  - d. Local Anesthetics
- IV. Parasympathetic and Sympathetic Nervous System**
- V. Adjuvants**
  - a. IV lidocaine
  - b. IV ketamine
  - c. Anticonvulsants (membrane stabilizers) Carbamazepine, Oxycarbazepine, Topiramate, Gabapentin, Pregabalin
- VI. Cancer Pain**
- VII. Adverse Effects of Perioperative Pain**

### Proposed Timeline of Material

Week 1

- Day 1: Epidurals (assessment, troubleshooting, hematoma, anticoags)
- Day 2: Peripheral nerve catheter (assessment, troubleshooting, bolusing)
- Day 3: Opioids, conversions, metabolism and PCAs
- Day 4: Adjunct medications (gabapentin, SNRIs, TCAs, Na blockers)
- Day 5: IV lidocaine, local anesthetics and toxicity

## **Week 2**

- Day 1: free lecture
- Day 2: free lecture
- Day 3: Opioids, conversions, metabolism and PCAs
- Day 4: Adjunct medications (gabapentin, SNRIs, TCAs, Na blockers)
- Day 5: IV lidocaine, local anesthetics and toxicity

## **Week 3**

- Day 1: IV Ketamine, preventing chronic pain
- Day 2: Methadone and chronic opioid users
- Day 3: Buprenorphine medications and management
- Day 4: Nociceptive pathways - acute pain neuroanatomy
- Day 5: Sympathetic nervous system anatomy and blocks for cancer

## **Week 4:**

- Day 1: IV Ketamine, preventing chronic pain
- Day 2: Methadone and chronic opioid users
- Day 3: Buprenorphine medications and management
- Day 4: Nociceptive pathways - acute pain neuroanatomy
- Day 5: Sympathetic nervous system anatomy and blocks for cancer