

NEOMED MMScA Program

Clinical Keywords

OOORA/Regional Rotation

OOORA→

- **Radiology, gastrointestinal endoscopy, Cath Lab**
- **Anesthesia for electroconvulsive therapy (ECT)**
- **Conscious sedation and MAC**
  - ASA guidelines and monitoring standards for sedation, sedation classification (minimal sedation/moderate sedation/deep sedation/MAC anesthesia vs. general anesthesia), modified Ramsay score
  - Airway obstruction during sedation:
    - Detection and management
- **EGD, ERCP, colonoscopy**

REGIONAL→

Local Anesthetics

- **Indications and contraindications, mechanism of action, biotransformation and excretion, potency and prolonged action**
- **Toxicity:**
  - CNS (seizures, cauda equina syndrome, transient neurologic symptoms)
  - Cardiac
  - Allergic
  - Preservatives
  - Allergic reactions
  - Methemoglobinemia
- **Onset and duration, ionization, lipid solubility, pKa**

Chronic And Acute Pain Management

- **Differential blockade**
- **Types of pain (nociceptive, non-nociceptive, somatic, visceral, sympathetic, reflex sympathetic dystrophy, neuropathic, allodynia, dysesthesia, phantom limb, psychogenic, hyperalgesia) and common treatments**
- **Opioids for chronic pain management**

Peripheral Nerve Blocks

- **Autonomic:**
  - Stellate ganglion
  - Celiac
- **Head and neck:**
  - Cervical plexus
- **Upper extremities:**
  - Brachial plexus (interscalene, anterior suprascapular, supraclavicular, infraclavicular, axillary)
  - Musculocutaneous

- Intercostobrachial
- Wrist (radial, ulnar, median)
- Digital blocks
- **Torso:**
  - Transversus abdominis plane (TAP)
  - Quadratus lumborum
  - Rectus sheath
  - Ilioinguinal
  - Iliohypogastric
  - Intercostal
  - Paravertebral
  - Serratus plane
  - Pectoralis blocks
- **Hip and lower extremities:**
  - Fascia iliaca
  - Femoral
  - Sciatic (transgluteal & popliteal approaches)
  - Saphenous (adductor canal)
  - Single puncture dual injection (SPEDI)
  - Infiltration between popliteal artery and capsule of the knee (IPACK)
  - Ankle blocks
- **IV regional anesthesia**
- **Nerve stimulator equipment:**
  - Insulated vs. bare needles
  - Threshold current
  - Short bevel vs. long bevel needles
- **Contraindications to peripheral nerve blocks**

### NEURAXIAL BLOCKS

- **Indications, contraindications, complications, insertion techniques**
- **Onset, test dose, duration, sites of action, and termination of action**
- **Neuraxial dosing of drugs, baricity, preservatives in local anesthetics**
- **Epidural and spinal trays**
- **Neuraxial blocks for patients on blood thinners**
- **Contraindications to neuraxial blocks**

### ULTRASONOGRAPHY AND ANATOMIC LANDMARKS

- **Ultrasound probes:**
  - Sound waves and ultrasound waves
  - Echogenicity
  - Hyperechoic
  - Hypoechoic
  - Isoechoic

- Anechoic
- Frequency
- Gain
- Color flow
- Depth
- In plane vs. out of plane
- Short axis vs. long axis