

### Preoperative Care

- Inclusion criteria:**
- Amputation of a major extremity
- Exclusion criteria:**
- Finger/toe amputation

- Pre-Operative Medications**
- **Gabapentin**\* 5 mg/kg PO (max dose 300 mg)
  - **Celecoxib** 50 mg PO (10 - 25 kg), 100 mg PO (> 25 kg)
  - **Vitamin C** 500 mg PO
  - **Dextromethorphan** (long acting) 15 mg PO (ages 4 - 5 years), 30 mg PO (ages 6 - 11 years), 30 - 60 mg PO (ages 12 years and up)
- \*Pregabalin 1 mg/kg (Max dose 75 mg) as alternative if pt has had side effects from gabapentin*

- Pre-operative Consults & Goals**
- **Consults**
    - Pain Psychology
    - Child Life
  - **Pain education**  
Provide reassurance, discuss expectations, planned analgesic regimen, and anticipated clinical course

### Intraoperative Care

- Multimodal Analgesia**
- **Acetaminophen** 10 -15 mg/kg IV at beginning of case and q6 hrs
  - **Ketamine infusion** 5 mcg/kg/min vs intermittent dosing
  - **Methadone** 0.15 mg/kg IV (max dose 15 mg) at beginning of case
  - **Dexmedetomidine infusion** 0.5 mcg/kg/hr vs intermittent dosing
  - **Calcitonin** 200 mcg IM or subQ at beginning of case
  - **Fentanyl** PRN
  - **Hydromorphone** PRN
- \* Ketorolac **SHOULD NOT** be given intra-operatively\**

- Regional Anesthesia**
- \*Please Consult APS Physician\**
- Discuss regional anesthesia with surgeon at huddle**
- Peripheral nerve catheter preferable over single-shot nerve block
  - For lower extremity amputations, consider epidural placement as an equivalent alternative to nerve catheter

- Intraoperative Medications**
- **Antibiotics:**
    - Discuss at huddle
    - Administer before incision
  - **Antiemetics:**
    - Dexamethasone 0.1 mg/kg IV (max 8 mg)
    - Ondansetron 0.15 mg/kg IV (max 4 mg)

- Nerve Block Considerations**
- For fascial plane block, consider lower concentrations of local anesthetic with high volume
  - Be mindful of toxic local anesthetic dosages when multiple blocks are performed
- Adjuncts**
- Consider clonidine or dexmedetomidine and preservative-free dexamethasone to prolong block

### Postoperative Care: Inpatient to Discharge

Main Goals of Inpatient of Care

- Bowel Regimen & Diet**
- Daily bowel regimen
  - Avoidance of placing NG tube
  - Advance diet on POD 0
  - Antiemetics
    - Ondansetron PRN
    - Diphenhydramine PRN

Peripheral Nerve Catheters or Epidural likely to remain in place 5 - 7 days postoperatively

- Initial Postoperative Pain Management**
- \*APS to be consulted on **all** cases and write **all** pain orders\**
- **Calcitonin** 200 mcg IM or subQ daily, max of 5 total doses (inclusive of intra-op dose)
  - **Dextromethorphan** (long acting) 15 mg PO BID (ages 4 - 5 years), 30 mg PO BID (ages 6 - 11 years), 30 - 60 mg PO BID (ages 12 years and up)
  - **Vitamin C** 500 mg PO daily
  - **Continue gabapentin** 5 mg/kg PO TID or pregabalin 1 mg/kg PO BID
  - **Methadone** 0.05 - 0.1 mg/kg/dose IV X 1 dose, given 8 -12 hrs after intra-op dose
    - Consider scheduling methadone if nerve catheter/epidural + non-opioid adjuncts are not providing adequate analgesia
  - **Oxycodone** 0.1 mg/kg PO q4hrs PRN once tolerating clears
  - **Hydromorphone** 5 - 10 mcg/kg or **morphine** 0.05 - 0.1 mg/kg IV q4 hrs PRN severe
  - **Diazepam** 0.05 - 0.1 mg/kg q4 - 6 hrs PRN
    - Convert to PO when tolerating regular diet
  - **Acetaminophen** 12.5 mg/kg IV (max 1000 mg) q6 hrs scheduled
    - Convert to PO when appropriate
  - **Celecoxib** 50 mg PO (10 - 25 kg), 100 mg PO (> 25 kg) BID
  - **Consider ketamine infusion** 0.1 - 0.3 mg/kg/hr
  - **Consider dexmedetomidine infusion** 0.1 - 0.3 mcg/kg/min

- Consults**
- \*If poor pain trajectory, consider MPS consult*
- PT or OT on POD 1
  - Pain psychology
    - continued involvement
  - Child Life
    - continued involvement
- Can consider:
- Massage therapy
  - Pet therapy

- Abbreviations:**
- APS - Acute Pain Service
  - MPS - Medical Pain Service
  - OT - Occupational Therapy
  - PT - Physical Therapy

**Prior to discharge, ensure follow-up is in place with:**  
Orthopedic surgeon, PT or OT, & Complex Pain Clinic



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