

PAMI ED-ALT Order Panels

Renal Colic

Adults:

First line

- Ibuprofen Tablet – 400 mg Oral
- Naproxen tablet – 500 mg, Oral
- Ketorolac injection – 15mg intravenous
- Acetaminophen tablet – 1,000mg Oral
- Acetaminophen injection – 1,000mg intravenous
- 0.9% sodium chloride bolus – 1,000mL once, intravenous
- Lidocaine Infusion [lidocaine (PF) 1% a. mg/kg] + cardiac monitoring
 - for use in patients without known structural heart disease or rhythm disturbances)
- Ondansetron tablet – 4mg, Oral
- Ondansetron injection – 4mg, intravenous

Nonpharmacologic options [Information on nonpharmacologic options:](#)

- Page Pain Coach Educator
- Virtual Reality Distraction
- Passive Distraction
- Deep Breathing

Second Line options:

- Desmopressin nasal solution – 40 mcg nasal (refractory cases)
- Ketamine ([Information about atomizer for IN administration](#))
 - Ketamine in 0.9% NaCL 100mL IVBP – intravenous, 0.15mg/kg
 - Ketamine in 0.9% NaCl 100 mL IVBP – intravenous, 0.3 mg/kg
 - Ketamine in 0.9% NaCl 500 mL infusion – 1 mcg/kg/min IV
 - Ketamine injection – 1 mg/kg Nasal
- Opioids (refer to PAMI [Pain Management Dosing Guide](#) for opioid selection guidance. Consider patient's opioid tolerance level based on their outpatient regimen.)
 - Oral opioids
 - Morphine tablet – 15mg, oral
 - Hydrocodone-acetaminophen 5-325mg tablet
 - Hydrocodone-acetaminophen 10-325mg tablet
 - Oxycodone IR tablet – 5mg
 - Oxycodone IR tablet – 10 mg
 - Oxycodone-acetaminophen 5-325 mg tablet
 - Oxycodone-acetaminophen 10-325mg tablet
 - Tramadol tablet – 50mg

- IV/IM/IN opioids ([information about atomizer for IN administration](#))
 - Fentanyl injection – 25mcg/kg, nasal
 - Fentanyl injection – 50 mcg/kg, nasal
 - Fentanyl injection – 100 mcg/kg nasal
 - Fentanyl injection – 25 mcg intravenous
 - Fentanyl injection – 50 mcg intravenous
 - Fentanyl injection – 100 mcg intravenous
 - Morphine injection, 4 mg intravenous
 - Morphine injection 4mg intramuscular
 - Morphine injection – 6mg intramuscular
 - Hydromorphone injection – 0.5 mg intravenous
 - Hydromorphone injection – 1mg intravenous

Musculoskeletal Pain (sprains, strains, fractures, opiate naïve lower back pain, etc)

Adults:

Mild to Moderate

- Acetaminophen 1000 mg PO
- Ibuprofen 400 mg PO
- Naproxen 500 mg PO
- Ketorolac 15 mg IV
- Ketorolac 15 mg IV
- Muscle Relaxant (choose **one** of the following if applicable)
 - Cyclobenzaprine 5 mg PO
 - Cyclobenzaprine 10 mg PO
 - Methocarbamol 1.5 g PO
 - Methocarbamol 1 g IV
 - Diazepam 5 mg PO **OR** 5 mg IV
 - Tizanidine 4 mg PO
- Diclofenac 1% gel topical
- Menthol 4% gel topical
- Gabapentin 100 mg PO once (if neuropathic component)
- Gabapentin 200 mg PO once (if neuropathic component)
- Gabapentin 300 mg PO once (if neuropathic component)
- Lidocaine patch 5%
- Local anesthetics for Procedures ([videos for procedures](#))
 - Lidocaine 1% injection – 2 mL
 - Lidocaine 2% injection – 2 mL
 - Bupivacaine 0.25% injection – 2 mL
 - Bupivacaine 0.5% injection – 2 mL
- Non-pharmacologic options:
 - Page Pain Coach Educator

- Passive distraction
- Deep breathing(<https://youtu.be/Wemm-i6XHr8?t=87>)
- Heat therapy
- Cold therapy
- Inpatient consult to Physical Therapy
- Immobilization

Moderate to severe

- Ketamine ([Information about atomizer for IN administration](#))
 - Ketamine in 0.9% NaCl 100mL IVBP – intravenous, 0.15mg/kg
 - Ketamine in 0.9% NaCl 100 mL IVBP – intravenous, 0.3 mg/kg
 - Ketamine in 0.9% NaCl 500 mL infusion – 1 mcg/kg/min IV
 - Ketamine injection – 1 mg/kg Nasal
- Opioids (refer to PAMI [Pain Management Dosing Guide](#) for opioid selection guidance. Consider patient's opioid tolerance level based on their outpatient regimen.
 - Oral opioids
 - Morphine tablet – 15mg, oral
 - Hydrocodone-acetaminophen 5-325mg tablet
 - Hydrocodone-acetaminophen 10-325mg tablet
 - Oxycodone IR tablet – 5mg
 - Oxycodone IR tablet – 10 mg
 - Oxycodone-acetaminophen 5-325 mg tablet
 - Oxycodone-acetaminophen 10-325mg tablet
 - Tramadol tablet – 50mg
 - IV/IM/IN opioids ([information about atomizer for IN administration](#))
 - Fentanyl injection – 25mcg/kg, nasal
 - Fentanyl injection – 50 mcg/kg, nasal
 - Fentanyl injection – 100 mcg/kg nasal
 - Fentanyl injection – 25 mcg intravenous
 - Fentanyl injection – 50 mcg intravenous
 - Fentanyl injection – 100 mcg intravenous
 - Morphine injection - 4 mg intravenous
 - Morphine injection - 4mg intramuscular
 - Morphine injection – 6mg intramuscular
 - Hydromorphone injection – 0.5 mg intravenous
 - Hydromorphone injection – 1mg intravenous

Pediatric:

Mild to Moderate

- Ibuprofen 10 mg/kg PO
- Acetaminophen liquid 15 mg/kg PO
- Acetaminophen 10 mg/kg IV

- Non-pharmacologic options ([information on non-pharmacologic options](#))
 - Page pain coach educator
 - Virtual Reality (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
 - Passive Distraction
 - Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
 - Heat therapy
 - Cold therapy
 - Child Life consult
 - Physical therapy consult

Moderate to Severe

- Ketamine ([Information about atomizer for IN administration](#))
 - Ketamine in 0.9% NaCl 100mL IVBP – intravenous, 0.15mg/kg
 - Ketamine in 0.9% NaCl 100 mL IVBP – intravenous, 0.3 mg/kg
 - Ketamine in 0.9% NaCl 500 mL infusion – 1 mcg/kg/min IV
 - Ketamine injection – 1 mg/kg Nasal
- Opioids (refer to PAMI [Pain Management Dosing Guide](#) for opioid selection guidance. Consider patient's opioid tolerance level based on their outpatient regimen)
 - Oral opioids
 - Morphine solution – 0.3 mg/kg PO
 - Morphine solution – 10mg PO
 - IV/IN opioids ([information about atomizer for IN administration](#))
 - Morphine injection
 - Fentanyl injection – 1.5 mcg/kg IN
 - Fentanyl injection – 1.5 mcg/kg IV

Acute or Chronic Radicular LBP (opiate tolerant)

Adults:

Mild to Moderate

- Acetaminophen 1000 mg PO
- Ibuprofen 400 mg PO once
- Naproxen 500 mg PO
- Ketorolac 15 mg IV
- Ketorolac 30 mg IM
- Muscle Relaxant (choose one of the following if applicable)
 - Cyclobenzaprine 5 mg PO
 - Cyclobenzaprine 10 mg PO
 - Methocarbamol 1.5 g PO
 - Methocarbamol 1 g IV
 - Diazepam 5 mg PO
 - Diazepam 5 mg IV
 - Tizanidine 4 mg PO

- Diclofenac 1% gel topical
- Menthol 4% gel topical
- Gabapentin 100 mg PO once (if neuropathic component)
- Gabapentin 200 mg PO once (if neuropathic component)
- Gabapentin 300 mg PO once (if neuropathic component)
- Lidocaine patch 5%
- Local anesthetics for Procedures ([videos for procedures](#))
 - Lidocaine 1% injection – 2 mL
 - Lidocaine 2% injection – 2 mL
 - Bupivacaine 0.25% injection – 2 mL
 - Bupivacaine 0.5% injection – 2 mL
- Non-pharmacologic options ([information on non-pharmacologic options](#))
 - Page pain coach educator
 - Virtual Reality (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
 - Passive Distraction
 - Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)

Moderate to Severe (in addition to mild to moderate options above)

- Lidocaine infusion + cardiac monitoring
- Ketamine ([Information about atomizer for IN administration](#))
 - Ketamine in 0.9% NaCL 100mL IVBP – intravenous, 0.15mg/kg
 - Ketamine in 0.9% NaCl 100 mL IVBP – intravenous, 0.3 mg/kg
 - Ketamine in 0.9% NaCl 500 mL infusion – 1 mcg/kg/min IV
 - Ketamine injection – 1 mg/kg Nasal
- Opioids (refer to PAMI [Pain Management Dosing Guide](#) for opioid selection guidance. Consider patient's opioid tolerance level based on their outpatient regimen.
 - Oral opioids
 - Morphine tablet – 15mg, oral
 - Hydrocodone-acetaminophen 5-325mg tablet
 - Hydrocodone-acetaminophen 10-325mg tablet
 - Oxycodone IR tablet – 5mg
 - Oxycodone IR tablet – 10 mg
 - Oxycodone-acetaminophen 5-325 mg tablet
 - Oxycodone-acetaminophen 10-325mg tablet
 - Tramadol tablet – 50mg
 - IV/IM/IN opioids ([information about atomizer for IN administration](#))
 - Fentanyl injection – 25mcg/kg, nasal
 - Fentanyl injection – 50 mcg/kg, nasal
 - Fentanyl injection – 100 mcg/kg nasal
 - Fentanyl injection – 25 mcg intravenous
 - Fentanyl injection – 50 mcg intravenous
 - Fentanyl injection – 100 mcg intravenous
 - Morphine injection - 4 mg intravenous
 - Morphine injection - 4mg intramuscular

- Morphine injection – 6mg intramuscular
- Hydromorphone injection – 0.5 mg intravenous
- Hydromorphone injection – 1mg intravenous

Pediatric:

Mild to Moderate

- Ibuprofen 10 mg/kg PO
- Acetaminophen liquid 15 mg/kg PO
- Acetaminophen IV – 15 mg/kg IV
- Nonpharmacologic options ([information on non-pharmacologic options](#))
 - Page Pain Coach Educator
 - Virtual Reality (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
 - Passive Distraction
 - Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
 - Heat therapy (caution in patients with peripheral neuropathy, spinal cord injury)
 - Cold therapy (ideal first 24-48 hours after acute injury; caution in patients with peripheral neuropathy, spinal cord injury)
 - Child Life consult
 - Physical therapy consult

Moderate to Severe

- **Ketamine** ([Information about atomizer for IN administration](#))
 - Ketamine in 0.9% NaCL 100mL IVBP – intravenous, 0.15mg/kg
 - Ketamine in 0.9% NaCl 100 mL IVBP – intravenous, 0.3 mg/kg
 - Ketamine in 0.9% NaCl 500 mL infusion – 1 mcg/kg/min IV
 - Ketamine injection – 1 mg/kg Nasal
- Opioids (refer to PAMI [Pain Management Dosing Guide](#) for opioid selection guidance. Consider patient's opioid tolerance level based on their outpatient regimen)
 - Oral opioids
 - Morphine solution – 0.3 mg/kg PO
 - Morphine solution – 10mg PO
 - IV/IN opioids ([information about atomizer for IN administration](#))
 - Morphine injection
 - Fentanyl injection – 1.5 mcg/kg IN
 - Fentanyl injection – 1.5 mcg/kg IV

Headache/Migraine

Adults:

Mild to Moderate

- Acetaminophen 1000 mg PO

- Acetaminophen 1000mg IV
- Ibuprofen 400 mg PO
- Ketorolac 15 mg IV
- Ketorolac 30 mg IM
- Ondansetron disintegrating tablet – 4mg PO
- Ondansetron injection – 4mg IV

Moderate to Severe

- Metoclopramide 10 mg IV
- Promethazine 25 mg IM
- Prochlorperazine 10 mg IV
- Haloperidol 5 mg IV + Cardiac monitoring
- Droperidol 2.5 mg IV
- Droperidol 2.5mg IM

Adjuncts

- 0.9% NaCl – 1 L IV Bolus
- Diphenhydramine 25 mg IV
- Local anesthetics for Procedures ([videos for procedures](#))
 - Lidocaine 1% injection – 2 mL
 - Lidocaine 2% injection – 2 mL
 - Bupivacaine 0.25% injection – 2 mL
 - Bupivacaine 0.5% injection – 2 mL
- Dexamethasone injection – 4mg IV
- Magnesium sulfate IVPB – 1g IV
- Non pharmacologic options: ([information on non-pharmacologic options](#))
 - Page Pain Coach Educator
 - Virtual Reality (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
 - Passive Distraction
 - Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
- **If tension HA, also consider:**
 - Butalbital/acetaminophen/caffeine – 2 tablet PO
 - Cyclobenzaprine tablet – 5 mg PO
 - Cyclobenzaprine tablet - 10 mg PO
 - Diazepam tablet - 5 mg PO
 - Diazepam injection – 5mg IV

Additional options

- Sumatriptan injection - 6 mg subcutaneous
- Valproate 500 mg IV in D5W 50 mL IVPB
- Lidocaine topical injection 4% - for nebulization

- Propofol IV + cardiac monitoring + RN communication (severe refractory migraine)

Pediatric:

- Ibuprofen 10 mg/kg PO (max 2400 mg/d)
- Acetaminophen liquid - 15 mg/kg PO
- Acetaminophen IV – 15 mg/kg IV
- Diphenhydramine liquid - 1 mg/kg PO
- Droperidol injection - 2.5 mg IV
- Droperidol injection – 2.5 mg IM
- Nonpharmacologic options ([information on non-pharmacologic options](#))
 - Page Pain Coach Educator
 - Virtual Reality (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
 - Passive Distraction (https://www.youtube.com/watch?v=4oC_tvs_kXQ)
 - Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)

PAMI ED-ALT Discharge Panels

Musculoskeletal:

- Acetaminophen 400 mg tablet – 500-1000mg PO q4-6h PRN pain
- Ibuprofen 200mg tablet – 400-600 mg PO q6-8h PRN pain
- Celecoxib 100mg tablet - 100mg PO BID
- Celecoxib 200mg tablet - 200mg PO daily
- Naproxen 250mg tablet – 250-500mg PO BID
- Cyclobenzaprine 5mg tablet – 5mg PO TID PRN muscle spasms (patients > 75 yr OR < 70 kg OR concerns for somnolence)
- Cyclobenzaprine 10 mg tablet – 10mg PO TID PRN muscle spasms (patients > 70 kg)
- Methocarbamol 500 mg tablet – 1500 mg PO TID x3D, then 500 mg PO TID
- Methocarbamol 750 mg tablet – 1500 mg PO TID x3D, then 750 mg PO TID
- Diazepam 2mg tablet – 2mg PO q6-8h PRN muscle spasm (avoid use with opioids)
- Diazepam 5mg tablet – 5mg PO q6-8h PRN muscle spasm (avoid use with opioids)
- Lidocaine 4% patch – apply ## patches topically to most painful area daily (max 3)
- Lidocaine 4% cream – apply topically BID
- Capsaicin 0.1% cream – apply topically to affected joints 3-4 times daily
- Diclofenac 1% gel – apply ##g topically QID
- Diclofenac epolamine 1.3% patch – apply 1 batch BID to most painful areas
- Menthol 4% gel – apply topically

Non-pharmacologic:

- Immobilization
- Heat therapy (caution in patients with peripheral neuropathy, spinal cord injury)
- Cold therapy (ideal first 24-48 hours after acute injury; caution in patients with peripheral neuropathy, spinal cord injury)
- Passive distraction
- Virtual Reality distraction (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
- Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
- Physical therapy referral
- Massage therapy
- TENS unit
- Acupuncture
- Yoga

Acute or Chronic Radicular LBP (opiate tolerant):

- Acetaminophen 500 mg tablet – 500-1000mg PO q4-6h PRN pain
- Ibuprofen 400mg tablet – 400-600 mg PO q6-8h PRN pain
- Celecoxib 100mg capsule - 100mg PO BID
- Celecoxib 200mg capsule - 200mg PO daily
- Naproxen 250mg tablet – 250-500mg PO BID
- Cyclobenzaprine 5mg tablet – 5mg PO TID PRN muscle spasms (patients > 75 yr OR < 70 kg OR concerns for somnolence)
- Cyclobenzaprine 10 mg tablet – 10mg PO TID PRN muscle spasms (patients > 70 kg)
- Methocarbamol 500 mg tablet – 1500 mg PO TID x3D, then 500 mg PO TID
- Methocarbamol 750 mg tablet – 1500 mg PO TID x3D, then 750 mg PO TID
- Diazepam 2mg tablet – 2mg PO q6-8h PRN muscle spasm (avoid use with opioids)
- Diazepam 5mg tablet – 5mg PO q6-8h PRN muscle spasm (avoid use with opioids)
- Lidocaine 4% patch – apply ## patches topically to most painful area daily (max 3)
- Lidocaine 4% cream – apply topically BID
- Capsaicin 0.1% cream – apply topically to affected joints 3-4 times daily
- Diclofenac 1% gel – apply ##g topically QID
- Diclofenac epolamine 1.3% patch – apply 1 batch BID to most painful area
- Menthol 4% gel – apply topically

Non-pharmacologic:

- Passive distraction
- Virtual Reality distraction (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
- Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
- Physical therapy referral
- Massage therapy
- TENS unit
- Acupuncture
- Yoga
- Pain Management Discharge planning resources
<https://pami.emergency.med.jax.ufl.edu/resources/discharge-planning/>
<https://nciph.org/public.html>
- Pain Clinic Referral
- Patient Educational Pain Management Videos
(<https://pami.emergency.med.jax.ufl.edu/resources/pami-educational-pain-videos/>)

Headache/Migraine:

- Acetaminophen 500mg tablet – 500-1000mg PO q4-6h PRN headache
- Ibuprofen 200mg tablet – 400-600mg PO q6-8h PRN headache
- Butalbital-acetaminophen-caffeine 50-325-40mg tablet – 2 tabs PO q4h PRN headache
- Ondansetron 4mg ODT – 4mg PO q6-8h PRN nausea/vomiting
- Metoclopramide 10mg tablet – 10mg PO q6h
- Passive distraction
- Virtual Reality distraction (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
- Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
- Pain Clinic Referral
- Pain Management Discharge planning resources
(<https://pami.emergency.med.jax.ufl.edu/resources/discharge-planning/>)
(<https://nciph.org/public.html>)
- Patient Educational Pain Management Videos
(<https://pami.emergency.med.jax.ufl.edu/resources/pami-educational-pain-videos/>)

Non-pharmacologic:

- Passive distraction
- Virtual Reality distraction (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
- Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)
- Pain Clinic referral
- Pain Management Discharge planning resources
<https://pami.emergency.med.jax.ufl.edu/resources/discharge-planning/>
<https://nciph.org/public.html>
- Patient Educational Pain Management Videos
(<https://pami.emergency.med.jax.ufl.edu/resources/pami-educational-pain-videos/>)

Renal Colic:

- Acetaminophen 500mg tablet – 500-1000mg PO q4-6h PRN headache
- Ibuprofen 200mg tablet – 400-600mg PO q6-8h PRN headache
- Naproxen 250mg tablet – 250-500mg PO BID
- Ondansetron 4mg ODT – 4mg PO q6-8h PRN nausea/vomiting
- Tamsulosin 0.4mg capsule – 0.4mg capsule PO daily until stone passage (for distal ureteral stones)
- Virtual Reality Distraction (<https://www.youtube.com/watch?v=hDEJb79ZwKc>)
- Passive Distraction
- Deep breathing (<https://youtu.be/Wemm-i6XHr8?t=87>)

- Pain Management Discharge planning resources
<https://pami.emergency.med.jax.ufl.edu/resources/discharge-planning/>
<https://nciph.org/public.html>
- Patient Educational Pain Management Videos
<https://pami.emergency.med.jax.ufl.edu/resources/pami-educational-pain-videos/>
- Heat/cold therapy: <https://www.youtube.com/watch?v=j1erX1qflc4>

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