

# Pharmacology of Nonopiate Analgesics

| Nonopiates (Route)                       | Onset     | Elimination Half-Life              | Dosing                                                                                               | Side Effects and Other Information                                                                                                                                                                                                                                     |
|------------------------------------------|-----------|------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ketamine (IV)                            | 30-40 sec | 2-3 hr                             | Loading dose 0.1–0.5 mg/kg IV followed by 0.05–0.4 mg/kg/hr                                          | Attenuates the development of acute tolerance to opioids. May cause hallucinations and other psychological disturbances.                                                                                                                                               |
| Acetaminophen (PO)<br>Acetaminophen (PR) | 30-60 min | 2-4 hr                             | 325–1000 mg every 4–6 hr; max dose ≤ 4 g/day                                                         | May be contraindicated in patients with significant hepatic dysfunction.                                                                                                                                                                                               |
| Acetaminophen (IV)                       | 5-10 min  | 2 hr                               | 650 mg IV every 4 hrs – 1000 mg IV every 6 hr; max dose ≤ 4 g/day                                    |                                                                                                                                                                                                                                                                        |
| Ketorolac (IM/IV)                        | 10 min    | 2.4-8.6 hr                         | 30 mg IM/IV, then 15–30 mg IM/IV every 6 hr up to 5 days; max dose = 120 mg/day × 5 days             | Avoid NSAID in following conditions: renal dysfunction; GI bleeding; platelet abnormality; concomitant ACEI therapy, CHF, cirrhosis, asthma. Contraindicated for the treatment of perioperative pain in CABG surgery                                                   |
| Ibuprofen (PO)                           | 25 min    | 1.8-25. hr                         | 400 mg PO every 4 hrs; max dose = 2.4 g/day                                                          |                                                                                                                                                                                                                                                                        |
| Gabapentin (PO)                          | N/A       | 5-7 hr                             | Starting dose = 100 mg PO three times daily; maintenance dose = 900–3600 mg/day in 3 divided doses   | Side effects: (common) sedation, confusion, dizziness, ataxia. Adjust dosing in renal failure pts. Abrupt discontinuation associated with drug withdrawal syndrome, seizures.                                                                                          |
| Carbamazepine immediate release (PO)     | 4-5 hr    | 25-65 hrs initially, then 12-17 hr | Starting dose = 50–100 mg PO bid; maintenance dose = 100–200 mg every 4–6 hr; max dose = 1200 mg/day | Side effects: (common) nystagmus, dizziness, diplopia, lightheadedness, lethargy; (rare) aplastic anemia, and agranulocytosis; Stevens–Johnson syndrome or toxic epidermal necrolysis with HLA-B1502 gene. Multiple drug interactions due to hepatic enzyme induction. |

# Pain Management In The Icu

**Lei Shi**

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