

# ERAS Guidelines for EGS, Colorectal and Bariatric Surgery Patients

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## **Preoperative: (Day of Surgery)**

**Guideline**--Routine use of non-opioid analgesics prior to induction of anesthesia. Verify that preop meds have been ordered or given.

- 1) Acetaminophen (Tylenol®) 975 mg
  - Oral (liquid, tablet, or capsule)
  - Exception: Patients with a contraindication to Acetaminophen such as an allergy or adverse reaction
  - Avoid PO administration if OGT/NGT required during surgery, aspiration risk factors present.
- 2) Gabapentin (Neurontin®) 600 mg PO
  - Do NOT use in patients already taking this medication
  - At the discretion of the anesthesia and surgical teams as there is poor evidence of benefit.
- 3) Routine avoidance of **any** opioids prior to surgery. If patient on chronic opioids, routine scheduled dose should be given.
- 4) Clear Carbohydrate Drink protocol: (To be ordered by Surgeon)
  - 7am case: 2 drinks the night before, stopping at midnight.
  - All other times: 2 drinks the night before, 1 drink 8 hours prior to scheduled OR time
  - Insulin dependent diabetics: 1 drink the night before with 1/2 their scheduled Insulin dose. NO further drinks.
- 5) Epidural placement
  - Discussion with surgical team on ALL cases scheduled as OPEN procedures
  - Review labwork, anticoagulation status, DVT prophylaxis administration prior to placement

## **Intraoperative:**

**Guideline**—Utilize opioid sparing techniques

- 1) Use opioids sparingly for induction and during surgery. If possible, avoid opioids for the last 45 minutes of the operative procedure.

- 2) Fluids: Lactated Ringers: If clinically appropriate, recommend 10cc/kg bolus in beginning of case to compensate for bowel prep, NPO status. 3-5cc/kg/hr maintenance in addition to replacement for blood or exudative loss.
- 3) Epidural: If placed, utilize during surgery at the discretion of anesthesia team if appropriate:
  - Bupivacaine epidural bolus and gtt (0.1% @ 5-10cc/hr)
  - Lidocaine preservative free epidural bolus and gtt (0.5% @ 5-10cc/hr)
  - Fentanyl 50-100mcg/hr epidural
- 4) Consider:
  - IV Ketamine infusion
    - Ketamine 0.5 mg/kg IV on induction or prior to incision
    - Ketamine gtt (0.1-0.3 mg/kg/hr) until 45 minutes prior to the end of surgery
  - IV Acetaminophen (Ofirmev®): For adult and adolescent patients weighing  $\geq 50$  kg 1000mg IV administration over 15-30 minutes if no acetaminophen administered in past 8 hours.
  - IV Toradol 15-30mg after discussion with surgeon
- 5) Perform transversus abdominus plane (TAP) blocks in **ALL** Patients without an allergy or contraindication (such as an epidural or lidocaine infusion)
  - TAP blocks may be performed under laparoscopic or ultrasound guidance
  - Anesthesiology will **obtain consent preoperatively** and perform TAP blocks on all bariatric, EGS, Colorectal surgery patients if appropriate
    - TAP block to be performed post induction
    - If case is longer than 3 hours, reblock at end of case.
    - Options
      - Bupivacaine (maximum dose of 2.5 mg per kg)
      - Consider Adjuncts such as Epinephrine, Dexamethasone, or Precedex (0.5mcg/kg)

### **Postoperative: Post-Anesthesia Care Unit (PACU)**

**Guideline**--Routine use of nonopioid analgesics after surgery. Please remember to order Tylenol and opioids separately. DO NOT order combination medications.

- 1) Acetaminophen (Tylenol®) 975 mg PO or IV Acetaminophen (Ofirmev®) 1000mg if not given in last 8 hours.
- 2) Ketorolac (Toradol®) 15 mg IV if not given in last 6 hours
  - Contraindicated with glomerular filtration rate (GFR)  $<60$
  - Caution should be exercised in elderly patients

3) Oxycodone IR 5-10 mg PO or Dilaudid IV 0.2-0.4mg

- Avoid the use of combination analgesics (examples include: Percocet®, Norco®, Norco®, Vicodin®, Lorcet®, Hycet®)

4) Epidural infusion:

- (Use APS-Anesthesia-Adult Epidural PCEA order set) as soon as possible (prior to leaving OR)
- Bupivacaine 0.1%/Fentanyl 2mcg/ml OR Bupivacaine 0.05%/Fentanyl 2mcg/ml infusions @ 6-10ml/hr with Bolus 3-5ml every 15-20 minutes