

**Abbreviations (laboratory & radiology excluded):**  
 CICU = Cardiac Intensive Care Unit  
 CVOR = Cardiovascular Operating Room  
 PONV = Post operative nausea and vomiting

**Preoperative Goals For Bypass Surgery**

Arrival to Same Day Surgery for check in

**Preoperative Care**

- **Carbohydrate-rich drink up to 2 hours before surgery**
- **Anxiolysis**
  - Midazolam per anesthesia team

**Prior to surgery patient/family meets**

- Pre-op nurse
- Anesthesiologist
- Surgeon
- Child Life Specialists

Transfer to OR

**Intraoperative Goals For Bypass Surgery**

**Prevention of Postoperative Delirium:**

- Dexmedetomidine infusion 1 mcg/kg/hr (to be decreased to ≤ 0.5 mcg/kg/hr before leaving OR)

**Prevention of Postoperative Nausea/Vomiting:**

- IV dexamethasone (0.1mg/kg)
- IV ondansetron (0.15 mg/kg)
- \* For patients aged 2 and older

**Multimodal Analgesia:**

- Sufentanil: 0.5 - 1 mcg/kg/hr
- IV acetaminophen: 12.5 mg/kg (max 1000 mg)
- Fentanyl boluses prn
- Avoid long-acting opioids (morphine and hydromorphone)
- Surgeon injects local anesthetic at incision site (0.2% ropivacaine; max dose 2.5 mg/kg)

**Coagulation:**

- Standard Tranexemic acid (TXA) dosing
- Normal post-bypass ROTEM
- No evidence of significant bleeding prior to leaving operating room

**Muscle Relaxants:**

- Reversal of muscle relaxant prior to leaving operating room (sugammadex or neostigmine/glycopyrrolate)
- Spontaneous ventilation upon arrival to CICU

**Temperature Management:**

- Achieve normothermia (36 to 38 C) prior to leaving operating room

**Prior to leaving the OR for CICU**

- Pre-Transport Timeout with CVOR RN
  - TXA stopped?
  - Dexmedetomidine decreased?
  - PONV prophylaxis?
  - IV acetaminophen?
  - Muscle relaxant reversed?

Transfer to CICU

Algorithms:

- [Prior to Surgery](#)
- [Intraop- Thoracotomy](#)
- [CICU](#)
- [Inpatient](#)

This care process model/clinical practice guideline is meant as a guide for the healthcare provider, does not establish a standard of care, and is not a substitute for medical judgment which should be applied based upon the individual circumstances and clinical condition of the patient.