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**Postoperative - CICU**

CICU team receives patient hand-off from CVOR

**Pre Extubation**

**Pain Control/Sedation**

- Dexmedetomidine: 0.5 mcg/kg/hr
- Acetaminophen 15 mg/kg/dose IV q6hr for 4 doses
- Fentanyl 1 mcg/kg/dose q1hr as needed for severe pain
- If appropriate (>6mo, no anticoagulation) ketorolac 0.5 mg/kg/dose IV q6hr once chest tube output stable, 3-6 hrs after arrival from CVOR
- Acute Pain Service to manage if ESP catheters in place

**Management of Mechanical Ventilation**

- Wean mechanical ventilation as tolerated
- Extubate when clinically able

**Imaging and Testing**

- Chest x-ray
- EKG

**Hemodynamic Management**

- Treatment of HTN per BP guidelines as discussed with surgeon

**Labs**

- Arterial/Venous Blood gas, Lactic acid, Ionized Calcium q6hr
- BMP q12hr
- CBC q24hr
- Coagulation studies as clinically indicated

**Temperature Management**

- Avoid hyperthermia

**Post Extubation**

**Medications For Pain Control**

- Oxycodone 0.05-0.1 mg/kg/dose q4hr as needed for moderate-severe pain once tolerating PO intake
- Morphine IV 0.05-0.1 mg/kg/dose q2hr as needed for breakthrough pain

**Nausea and Vomiting Prevention**

- If QTc appropriate - Ondansetron 0.1 mg/kg/dose IV q4-6 hours as needed (4mg IV for larger patients)
- If QTc prolonged (> 480 ms) - Ativan 0.05 mg/kg/dose IV q4-6 hr as needed
- Discontinue famotidine once PO intake tolerated if not a home medication

**Respiratory Support**

- Incentive Spirometry with nurse q2 hr while awake or developmentally appropriate exercises

**Imaging and Testing**

- Chest x-ray as clinically indicated

**Labs**

**Thoracotomy pt**  
Post extubation - arterial blood gas as clinically indicated

**Bypass pt**

Start at q6 hr then can space out (q12 - q24 hr) arterial/venous blood gas, lactic acid, ionized calcium

**Diet**

- Advance diet as tolerated

**Overnight POD 0-1**

**Medications**

Furosemide 1 mg/kg/dose IV q 8-12 hrs  
**Bypass pt**  
Acetaminophen 10-15 mg/kg/dose q4-6 hrs as needed

**Management of Lines, Drains**

- Removal of Foley catheter with first dose of Furosemide
- Removal of central venous and arterial lines by 0700

**Imaging**

- Chest x-ray every morning while chest tubes in place

**Labs**

- Discontinue Blood Gases/Lactic Acid/Ionized Calcium

Patient ready to transfer to inpatient

Algorithms:

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

**Abbreviations:**

CICU = Cardiac Intensive Care Unit  
CVOR = Cardiovascular Operating Room  
HTN = Hypertension  
QTc = Corrected for heart rate