



Enhanced Recovery Thoracic Surgery

Anesthesia Pathway

Preoperative

- ☐ Patient Education & Expectations for Hospital
- ☐ Medical Risk Consultation: Cardiac Clearance and PFTs for All Patients
- ☐ Surgery Wellness Referral for >65 years old or concern for diminished functional status
- ☐ Smoking Cessation: Goal 4 weeks prior to Surgery
- ☐ Nutrition: Referral to Dietician for all esophagectomy patients

Intraoperative

- ☐ Fasting:
 - No solid food after midnight
 - Clear liquid diet until 2 hours prior to arrival to hospital
- ☐ Postoperative Nausea/Vomiting Prevention:
 - Zofran 4mg at end of the case for all patients
 - If young female or history of PONV, then use dexamethasone 4-8mg as well as scopolamine transdermal patch. If >75 years old, do not use scopolamine.
- ☐ Lines:
 - Arterial Line: Indicated for Esophagectomy and Lobectomy. To be removed at end of case if admitted to the ward.
 - Central Line: Placed at discretion of anesthesia provider. To be removed at end of case if admitted to the ward.
- ☐ Surgical Site Infection Prophylaxis:
 - Ancef 2g (or 3g if >120kg) every 4 hours
 - Discontinue following closure of wound
- ☐ Venous Thromboembolism Prophylaxis:
 - SQ Heparin 5000units given prior to incision and re-dosed every 8 hours
- ☐ Normothermia

- Lung Protective Ventilation:
 - 2 Lung Tidal Volume 7ml/kg ideal body weight
 - 1 Lung Tidal Volume 4-5ml/kg ideal body weight
 - Respiratory Rate set to maintain PaCO₂ 40-50
 - FiO₂ 100% until single lung ventilation, then decrease to goal <70% to maintain SpO₂ >92-94%

- Goal Directed Fluid Management:
 - Goal Euvolemia

- Pain Management:
 - PCEA
 - To be used for esophagectomy and for open lung resection only; not to be routinely used for minimally invasive (VATS and robotic) resections
 - Level: T6/7 or T7/8
 - Solution: Ropivacaine 0.1% with 2 mcg/ml fentanyl
 - To be run throughout the case
 - Tylenol:
 - PO 1g given in preop, then re-dosed every 6 hours
 - NSAIDS:
 - To be used in all patients <75 years old and normal renal function.
 - IV Toradol 15mg q6h to be started at the end of the case
 - Transition to PO Diclofenac 50mg BID when patient taking PO.
 - Gabapentin:
 - 600mg given in preop, then continued on the floor 300mg BID
 - Note: consider dose reduction or avoidance of gabapentin in older adults and patients with reduced renal function

Postoperative – Esophagectomy

POD0

- Admit to 8S or 10 CVT as Stepdown
- Ambulation Required Day of Surgery

POD1

- Ambulate QID

POD2

- Remove NGT
- Start Sips/Chips

POD3

- Advance to Clear Liquid Diet
- Remove Chest Tube
- Wean PCEA

POD4

- Advance to FLD

- ☐ Remove PCEA

POD5

- ☐ Discharge Home

Postoperative – Open Lobectomy/Wedge Resection

POD0

- ☐ Admit to 8S or 10 CVT
- ☐ Ambulation Required Day of Surgery
- ☐ Sips/Chips

POD1

- ☐ Advance diet as tolerated
- ☐ Ambulation QID
- ☐ Wean PCEA in PM

POD2

- ☐ Remove Chest Tube
- ☐ Remove PCEA

POD3

- ☐ Discharge Home

Postoperative – Minimally Invasive (VATS and Robotic) Lobectomy/Wedge Resection

POD0

- ☐ Admit to 8S or 10 CVT
- ☐ Ambulation Required Day of Surgery
- ☐ Sips/Chips

POD1

- ☐ Ambulation QID
- ☐ Advance diet as tolerated
- ☐ Remove Chest Tube/Discharge Home if Wedge Resection

POD2

- ☐ Remove Chest Tube/Discharge Home if Lobectomy

