

## **Non-Cardiac Thoracic Surgery: PGY-4**

### **OBJECTIVES:**

Demonstrate an understanding of the anatomy, physiology, and pathophysiology of thoracic conditions pertinent to general surgery, exhibiting a knowledge of how these change with age and how those changes alter one's considerations.

Effectively apply this understanding to the diagnosis, evaluation, and treatment of patients with thoracic problems who are to be managed by vascular surgery.

### **PATIENT CARE:**

1. Evaluate thoracic pathophysiology; order and interpret appropriate tests.
2. Diagnose and provide initial management of fractures of ribs, sternum, and scapulae.
3. Evaluate patients for thoracic surgery with regard to risk factors, candidacy for surgical resection, pulmonary function studies, and possible postoperative disability.
4. Manage general thoracic perioperative procedures.
5. Use, set, and regulate mechanical ventilators.
6. Observe and then:
  - a. Insert chest tubes
  - b. Perform thoracentesis
  - c. Insert central venous access lines
  - d. Execute simple endoscopic procedures
  - e. Perform tracheostomies
  - f. Institute naso-oropharyngeal/tracheal anesthesia for endoscopic procedures
7. Use data obtained from diagnostic and therapeutic procedures to assess and plan treatment for thoracic pathology.
8. Perform bronchoscopy, esophagoscopy, nasotracheal, and orotracheal intubation, including double lumen tubes.
9. Manage empyemas surgically.
10. Insert Swan-Ganz catheter and perform cardiovascular monitoring calculations for:
  - a. Pressures
  - b. Cardiac output
  - c. Systemic vascular resistance
11. Supervise ventilator regulation
12. Perform and/or supervise all thoracic diagnostic and therapeutic endoscopic procedures.
13. Resect ribs, treat empyema cavities, perform pleural and lung biopsies.
14. Manage thoracic trauma.
15. Direct complex ventilator-dependent patient management.
16. Perform lung resections, rib resections, mediastinoscopies, and mediastinotomies.
17. Provide surgical management of neoplasms of the thorax and its contents.
18. Provide medical and surgical management of infectious processes in the thorax.
19. Manage cardiac arrhythmias.
20. Perform and/or supervise pacemaker/defibrillator selection and placement.
21. Manage all pharmacotherapeutics associated with thoracic surgery.
22. Treat medical conditions associated with thoracic surgical procedures.
23. Perform mediastinoscopy.
24. Place esophageal and bronchial stents.