Traumatic Hemothorax, Hemo-pneumothorax, Pneumothorax, or Tension Pneumothorax by CT or CXR

1. PTX > 10% in size
2. Patient symptomatic
3. Pleural effusion present

Place chest tube

PTX > 10% present?

Output > 1500?

OR

Chest tube to -20cm H2O suction for 24 hours

Re-evaluate:
1. Output < 200 ml/24 hours?
2. No clinical sign of air leak?
3. No PTX present on CXR?

Yes

Chest tube to waterseal for 24 hours

Re-evaluate:
1. Output < 200 mL/24 hours?
2. No clinical sign of air leak?
3. No PTX present on CXR?

Yes

Discontinue chest tube

No

1. Discharge home
2. f/u if symptomatic

Re-evaluate:
1. Output < 200 mL/24 hours?
2. No clinical sign of air leak?
3. No PTX present on CXR?

No

Continue -20cm H2O suction. Persistent air leak consult cardiothoracic surgery.

No

1. 23-hr observation
2. High-flow oxygen
3. Repeat CXR in a.m.

PTX > 10% present?

Yes

No

1. 23-hr observation
2. High-flow oxygen
3. Repeat CXR in a.m.