Chest Drain

Indications: trauma
        COPD/empyema/bole rupture
        spontaneous
        introgative
        tension

Hemothorax = trauma
        post-op

Chylothorax = post-op
        thoracic duct injury or D
        anterior line approach

Massive Effusion
        Empyema
        Prophylactic = post-op
        before air-lift in trauma

Procedure: verbal consent
        LA = betadine wash
        5th IC space, mid-axillary line above rib
        stab incision
        blunt dissection thor' intercostal muscles
        (curt Roberts clamp)

        insert drain over curved Roberts clamp
        suture + connect to underwater seal

Incisions: musculoskeletal bundle
        Long Thoracic Nerve to Serratus Anterior.