

NEEDLE THORACOSTOMY	
ADULT	PEDIATRIC ($\leq 34\text{KG}$)
BLS	
Universal Protocol #601	
BLS Optional	
Pulse Oximetry – O ₂ administration per Airway Management Protocol #602	
ALS Standing Orders	
<ul style="list-style-type: none"> Locate mid-clavicular 2nd intercostal space or mid-axillary 4th intercostal space on affected side Prep site with povidone-iodine and alcohol With syringe attached, insert large bore IV catheter (maximum 10 Ga.) at a 90° angle slightly superior to the rib Once in the pleural space diminished resistance should be noted with air and/or blood return Holding the needle, advance the catheter and remove the needle allowing pressure to be relieved Secure the catheter and provide for a one-way valve Assess and reassess lung sounds 	
Base Hospital Orders Only	
<ul style="list-style-type: none"> As needed 	
Notes	
<p>Indication: Tension pneumothorax with significant respiratory compromise, traumatic cardiac arrest.</p> <ul style="list-style-type: none"> Signs and symptoms may include: <ul style="list-style-type: none"> Deteriorating respiratory status Decreased SBP, increased pulse Diminished lung sounds on affected side Jugular vein distension Hyper-resonance to percussion on affected side Tracheal shift away from affected side (difficult to assess) Increased resistance with ventilation (BVM, ET) Equipment <ul style="list-style-type: none"> Large IV catheter (10-12 Ga.) with a syringe One-way valve i.e. Asherman Seal Antiseptic products, povidone-iodine/alcohol swabs Indication: Trauma patients who arrest after EMS arrival on scene and < 20 min from trauma center or hospital, with the suspicion of chest trauma, perform bilateral needle thoracostomy. 	