

POLICY:554.23TITLE:Tension Pneumothorax

EFFECTIVE: 12/23/20 REVIEW: 12/2025 SUPERCEDES:

APPROVAL SIGNATURES ON FILE IN EMS OFFICE

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TENSION PNEUMOTHORAX

I. <u>AUTHORITY</u> Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9

II. <u>PURPOSE</u> To serve as a patient treatment standard for EMRs, EMTs, and Paramedics within their scope of practice.

III. <u>PROTOCOL</u>

Physical signs may include: Systolic BP < than 90, altered level of consciousness, chest pain, decreased breath sounds, increased resonance on side of collapsed lung, Jugular Venous Distension (JVD), tracheal deviation away from side of collapsed lung, asymmetrical chest motion and/or crepitus.

Multi-system trauma and scene conditions often make diagnosis difficult. Remember, <u>this is a rapid</u> <u>obstructive shock</u>, NOT a respiratory problem

EMR STANDING ORDERS		
Patient Assessment	Circulation, Airway and Breathing, assess vitals q 5 minutes	
Oxygen Administration	Provide oxygen if appropriate	
Bleeding control	Direct pressure with appropriate bandage. Apply occlusive dressing as needed	

EMT STANDING ORDERS		
Must perform items in EMR standing orders if applicable		
Report initial reading to paramedic if applicable		
	Must perform items in EMR standing orders if applicable	

PARAMEDIC STANDING ORDERS		
Must perform items in EMR and EMT standing orders if applicable		
Treat heart rhythm as appropriate		
10 or 12 gauge or approved NCD kit. Minimum 3.25-inch length inserted into affected side in the second intercostal space, mid-clavicular line. Perform on other side if no response to treatment and the tension pneumothorax physiology persists. Secure catheter		
Two large bore IV/IO. If systolic BP is < than 90, give 250 ml boluses to systolic until BP 90 mmHg. Reassess after each bolus		
Continue to monitor for signs of recurrence of a tension pneumothorax and for obstruction or dislodgement of thoracostomy catheter		

Clinical PEARLS:

- Needle Thoracostomy may only be performed on second intracoastal, mid-clavicular site
- Record and document pulse oximetry readings pre and post procedure
- Secure airway with simplest technique, i.e. BLS airway unless unable to manage
- Intravenous access is preferred over Intraosseous unless patient is unstable