****

**chest decompression**

**Clinical Indications**

|  |
| --- |
| * Patients with hypotension (SBP < 90 mmHg), clinical signs of shock, and at least one of the following signs:

Jugular venous distention.Tracheal deviation away from the side of the injury (often a late sign).Absent or decreased breath sounds on the affected side.Hyper-resonance to percussion on the affected side.Increased resistance when ventilating a patient.* Patients in traumatic arrest with chest or abdominal trauma for whom resuscitation is indicated. These patients may require bilateral chest decompression even in the absence of the signs noted above.
 |

**TREATMENT GUIDELINES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **R-EMR** | **E–EMT** | **A-AEMT** | **P-PARAMEDIC** | **\*\*M-Medical Control \*\*** |

**\*\*\*Higher level providers are responsible for lower level treatments\*\*\***

|  |  |
| --- | --- |
| * Don personal protective equipment (gloves, eye protection, etc.).
* Administer high flow Oxygen.
* Identify and prep the site: Locate the second intercostal space in the mid-clavicular line on the same side as the pneumothorax. If unable to place anteriorly, lateral placement may be used at the fourth ICS in the mid-axillary line.

Prepare the site with povidone-iodine ointment or solution.* Insert the catheter (14 gauge for adults) into the skin over the third rib and direct it just over the top of the rib (superior border) into the interspace.
* Advance the catheter through the parietal pleura until a “pop” is felt, and air or blood exits under pressure through the catheter, then advance the catheter only to chest wall.
* Remove the needle, leaving the plastic catheter in place.
* Secure the catheter hub to the chest wall with dressings and tape.
* Attach a Heimlich valve to the catheter to provide an out let for air without allowing new air to be introduced, and secure.
* Document procedure, result and needle placement location in PCR.

AnimNeedleThoracneedlethoracentesishttps://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRRPgNX6x9cG3yZ6BPkf2ocRVS8rPFQya1NmjKMNSf3n48Lvvvc | P |

**QA Parameters: 100% of patients receiving needle Chest Decompression.**