NORTH COAST EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

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Subject:

Scope of Practice/Procedure – ALS

Needle Thoracostomy

Associated Policies:

- I. Equipment
- A. One (1) 14 gauge or larger catheter over the needle intravenous catheter at least three inches long.
- B. One (1) antiseptic swab preferably chlorhexidine.

II. Therapeutic Effects

A. Decompression of tension pneumothorax.

III. Indications

- A. Signs indicating tension pneumothorax including any combination of two or more of the following:
 - 1. Increasing dyspnea with cyanosis and shock.
 - 2. Decreased or absent breath sounds.
 - 3. Distended neck veins.
 - 4. Tracheal deviation.
- B. Patients in traumatic cardiac arrest:
 - 1. Bilateral needle thoracostomy should be performed when patients meet the criteria for resuscitation per Traumatic Arrest Policy # 6542 that have known or suspected torso trauma.

IV. Contraindications

- A. Absolute:
 - 1. None.

V. Procedure

- A. Identify signs and symptoms indicating a tension pneumothorax.
- B. Locate landmarks on the side of pneumothorax:
 - 1. Preferred site, 4th or 5th intercostal space at midaxillary line.
 - 2. If unable to access above site, the 2nd intercostal space at midclavicular line should be considered.
- D. Prep skin with an antiseptic swab.
- E. Using aseptic technique, insert cannula at a 90-degree angle at superior border of rib, approximately 2 inches into pleural space.
- F. Listen for rush of air to verify entry into pleural cavity.
- G. Remove needle.
- H. Secure cannula
- I. Transport immediately in position of comfort and continue high-flow oxygen.
- J. Frequently update vital signs, lung sounds and patient's status.
- K. Report patient response to procedure.

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VI. Special Instructions:

A. Inappropriate use of Needle Thoracostomy causes pneumothorax.

Approved :	J'	Date: Ho	24/2¢
Approved as to Form:	Warston	L— Date	: 7/24/26