



**REGION 11
CHICAGO EMS SYSTEM
PROCEDURE**

Title: Chest Seal (HyFin Vent) Application – BLS/ALS

Section: Trauma Management

Approved: EMS Medical Directors Consortium

Effective: July 1, 2021

CHEST SEAL (HYFIN VENT) APPLICATION – BLS/ALS

INDICATIONS

- Penetrating chest trauma
- Open pneumothorax (“sucking chest wound”)
- Frothing or bubbling at opening of wound

CONTRAINDICATIONS

- None

EQUIPMENT

- HyFin Vented Chest Seal
- 4 x 4 gauze pad (included in package)

PROCEDURE

1. Apply personal protective equipment: gloves.
2. Remove clothing.
3. Open package using external red tabs.
4. Wipe any dirt or fluid from skin with gauze.
5. Grip red tab and peel the transparent backing from the chest seal.
6. Center vent over the wound.
7. Firmly press onto the skin to ensure a good seal.
8. Smooth out all edges flat against the skin.
9. Assess front and back of patient carefully for additional wounds and apply second seal as indicated.
10. Monitor patient for development of tension pneumothorax if blood accumulates in all three vented channels of the chest seal.