

Class 3 IFT-Paramedic Treatment Protocol 3104

Chest Tubes

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This protocol covers chest tubes. Chest tubes are used to treat conditions that disrupt the pleural space.

- A. Perform Inter-Facility Transport Assessment (IFTA) Procedures Patient Care Protocol 9204 and follow the proper protocol for medical management based on clinical presentation.
- B. Perform a pulmonary assessment to include:
 - a. Respiratory rate
 - b. Work of breathing
 - c. Breath sounds
 - d. SpO2
- C. Inspect the dressing.
 - a. Note any drainage
 - b. Assess the insertion site for subcutaneous emphysema or tube migration
- D. Keep all tubing free of kinks, loops and occlusions.
- E. Promote drainage.
 - a. Keep the chest tube drainage unit below the level of the patient's chest.
- F. Water Levels
 - a. Monitor water levels in the water-seal and suction-control chambers.
- G. Tidaling
 - a. Be aware that tidaling—fluctuations in the water-seal chamber with respiratory effort—is normal. The water level increases during spontaneous inspiration and decreases with expiration.
 - However, with positive-pressure mechanical ventilation, tidaling fluctuations are the opposite: the water level decreases during inspiration and increases during expiration.
 - c. If tidaling doesn't occur, suspect the tubing is kinked or clamped, or a dependent tubing section has become filled with fluid.

H. Bubbling

- Intermittent bubbling, corresponding to respirations in the water-seal chamber, indicates an air leak from the pleural space; it should resolve as the lung reexpands.
- b. If bubbling in the water-seal chamber is continuous, suspect a leak in the system.
 - To locate the leak's source, such as a loose connection or from around the site, assess the system from the insertion site back to the chest tube drainage unit.

ii. If bubbling in water-seal is continuous, contact **Medical Command**



- I. Note:
 - a. Don't milk, strip, or clamp the chest tube.
 - b. Avoid aggressive chest-tube manipulation

In the event of disconnection Contact Medical Command

