

Chest Tube Management Setup Instructions

Basic Setup

1. Install batteries in the simulator.
2. Prepare the bleach solution - Mix **11 mL of common household bleach** with **1 gallon of water**.
3. If using a **wet canister**:
 - Remove the gray plug.
 - Fill the suction control compartment with the bleach solution to the **20 cm** mark.
 - Using a syringe, fill the water seal compartment with the bleach solution to the **2 cm** mark.
4. If using a **dry canister**:
 - Using a syringe, inject **45 mL** of the bleach solution through the suction port until the water seal reaches the **2 cm** mark.
 - Set the suction control to the prescribed suction level.



Hemothorax Setup

1. Take the silicone tubing with the different-sized ends.

Note: This connection simulates wall suction.

- Connect the **smaller end** to the suction control port on the canister.
- Connect the **larger end** to the large port in the center of the simulator.



2. Connect the other length of tubing supplied with the suction canister:
 - Attach one end to the canister collection chamber.
 - Attach the other end to the simulator suction port.
 3. Place the canister below the level of the simulator.
 4. Insert the rubber plug into the drainage port located on the back right shoulder of the simulator.
 5. Connect the bellows to the **left port (H)** to simulate tidaling on the hemothorax side.
- Note:** If the bellows is not connected, an air leak will occur.
6. Fill an IV bag with the bleach solution and connect it to the fluid inlet.
 - Hang the IV bag above the simulator.
 7. Turn the hemothorax control counterclockwise to allow fluid to enter the simulator.
 8. Use the suction control knob on the simulator to simulate various wall suction levels.



Pneumothorax Setup

1. Take the silicone tubing with the different-sized ends.
 - Connect the **smaller end** to the suction control port on the canister.
 - Connect the **larger end** to the large port in the center of the simulator.
2. Connect the tubing supplied with the suction canister:
 - Attach one end to the canister collection chamber.
 - Attach the other end to the simulator suction port.
3. Place the canister below the level of the simulator.



4. Connect the bellows to the **right port (P)** to simulate tidaling in the pneumothorax.

Note: If the bellows is not connected, an air leak will occur.

5. Turn the pneumothorax control counterclockwise to allow air into the simulator.

6. Use the suction control knob on the simulator to simulate various wall suction levels.



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