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CHEST TUBES CLOGGING - A FAMILIAR PROBLEM





PLEURAFLOW ACT MAINTAINS CHEST TUBE PATENCY

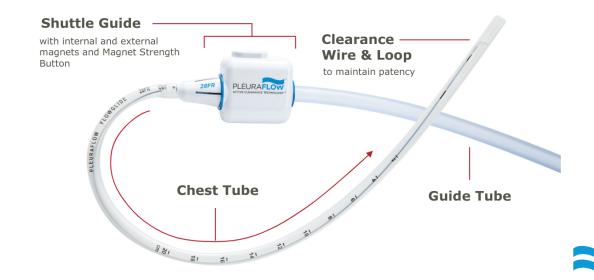




SYSTEM & COMPONENTS



THE PLEURAFLOW ACTIVE CLEARANCE SYSTEM



PleuraFlow System Overview



AVAILABLE IN VARIOUS SIZES & CONFIGURATIONS







As with selection and placement of any chest tube, care must be taken to ensure that the tube drainage eyelets remain contained within the chest cavity for the duration of application.



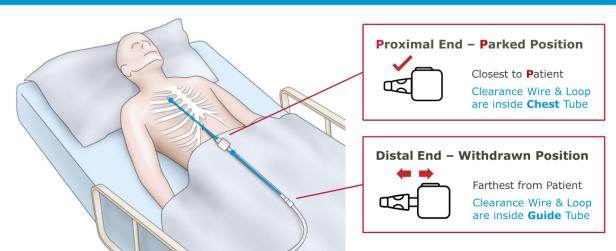


- 1. The PleuraFlow ACT System is comprised of a _____ and ____.
- 2. The Guide Tube houses the Clearance Wire & Loop which is advanced and retracted within the Chest Tube. (True or False)
- 3. The purpose of the Clearance Wire & Loop is to minimize or prevent occlusions with clot within the Chest Tube. (True or False)
- 4. The Shuttle Guide connects with the Clearance Wire & Loop via a magnetic system which enables movement of the Clearance Wire & Loop on the inside of the Guide Tube and Chest Tube by moving the Shuttle Guide on the outside. (True or False)

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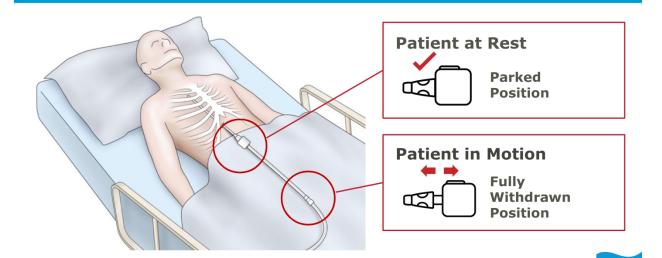
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PLEURAFLOW SYSTEM IN USE





PLEURAFLOW SYSTEM IN USE







5.	The Proximal End is the end	to the patient.		
6.	The is the end further	st from the patient.		
7.	When the Shuttle Guide is at the proximal end of Guide Tube (Clearance			
	Wire & Loop are within the Chest Tube) it is i	n the	Position.	
8.	When the Shuttle Guide is at the distal end	of Guide Tube (Clea	rance Wire	
	& Loop are within the Guide Tube) it is in the		Position.	

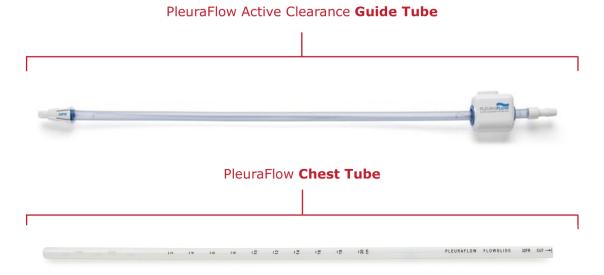


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9.	Complete the following with regards to Patient Ambulation:			
	When the Patient needs to be moved (from the bed, from a chair,			
	walking), you should the Shuttle Guide to retract the			
	Clearance Wire & Loop into the Guide Tube.			
	When the Patient is at rest (in bed – supine/raised, or in a chair), the			
	Shuttle Guide should be in the, with the Clearance Wire			
	& Loop in the Chest Tube			











To assemble, connect Chest Tube to proximal end of Guide Tube. Ensure **straight & flush connection.**



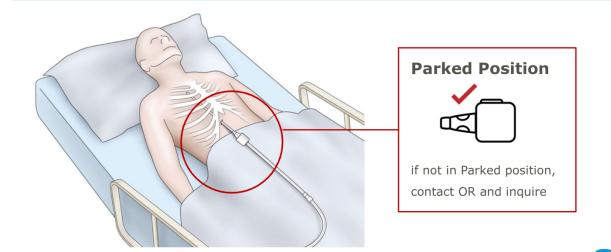


Move Clearance Wire & Loop into Parked Position.

Ensure a slow and steady motion.



WHEN PATIENT ARRIVES IN THE ICU



S-W-A-P

Squeeze Withdraw Assess Park

Park

ACTUATE THE DEVICE



Don't Wait.

Actuate.





ICU RECOMMENDED ACTUATION SCHEDULE

Phase	Timing	Frequency	Cycles/Hour
Early Bleeding	0-8 Hours	Every 15 Minutes*	4 per hour
Slowed Bleeding	8-24 Hours	Every 30 Minutes*	2 per hour
Serosanguineous Drainage	> 24 Hours	Every Hour*	1 per hour

 $[\]ensuremath{^{*}}$ This should be repeated as necessary to keep the tube patent and free of any occlusions.





10. Complete the words that correspond to each letter of an Actuation "S-W-A-P":

S _____ W ____ A ____

11. Complete the recommended Actuation Schedule:

Phase	Timing	Frequency
Early Bleeding	0-8 Hours	
Slowed Bleeding	8-24 Hours	Q30 min (2/hr)
Serosanguineous Drainage	> 24 Hours	Q60 min (1/hr)



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CLOT CAN FORM ON CLEARANCE WIRE & LOOP







Dislodging Clot





- 12. Complete the following with regards to dislodging excessive clot:
 - Clot may be seen adherent to the Clearance Wire & Loop during the process of clearing the Chest Tube. This is _____ and to be expected.
 - If obstructive clot begins to accumulate, you should: ______ the
 Chest Tube or Guide Tube where the clot is accumulating, or you should
 _____ the Clearance Wire through the Chest Tube or Guide Tube
 while advancing the Shuttle Guide.

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Magnetic Safety Release - Decoupling



Magnetic Safety Release - Decoupling



MAGNETIC SAFETY RELEASE - DECOUPLING



MAGNETIC SAFETY RELEASE - DECOUPLING COMMON CAUSES IN THE ICU





Inadequate actuation frequency leading to clot formation

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Actuation motion done too quickly go slow and steady





Kinks, bends, or constriction consider repositioning patient



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Magnet Strength Button





- 13. Decoupling is the separation of the internal and external magnets, disabling movement of the Clearance Wire & Loop. This can occur due to kinks, bends or chest tube constriction. (True or False)
- 14. During Actuation, if additional magnetic strength is needed, depress and hold the shuttle guide magnet strength button. (True or False)



ADDITIONAL CONSIDERATIONS



Contraindicated for patients with a history of intolerance to implantable silicone materials



Do not place the Shuttle Guide within 15 cm (6 inches) of an implanted pulse generator such as pacemakers or implanted defibrillators



The PleuraFlow System is **NOT** MRI Compatible



The PleuraFlow System is Latex Free



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Guide Tube Removal



For educational purposes only. Please follow your hospital's protocol.

PLEURAFLOW SYSTEM - ICU KEY TAKEAWAYS





Don't Wait. Actuate. Q15 - Q30 - Q60





Parked position when the patient is at rest. Withdrawn when the patient needs to be moved.





Dislodge clots with a tap, flick, or squeeze.





The Shuttle Guide Magnet Strength Button provides additional magnetic coupling strength.



