

Chest Drain - Set up of Atrium Oasis Dry Suction Under-Water Seal Drainage (UWSD)

*This LOP is developed to guide clinical practice at the Royal Hospital for Women.
Individual patient circumstances may mean that practice diverges from this LOP.*

PURPOSE & SCOPE: To set up an Atrium Oasis dry suction chest drain

EQUIPMENT: Atrium Oasis Dry Suction Chest Drain
Suction tubing to connect drain to wall suction (if required)
Sterilised connector
Leukoplast tape

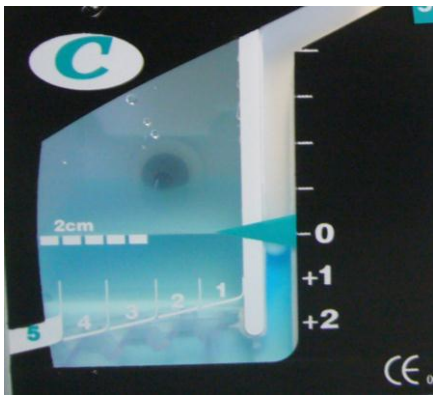
NOTE:

- If an infant returned from Operating Theatre to NCC with an Atrium chest insitu, follow steps 7 through to 12.
- Also the previous steps Drain have been completed by theatre staff.

To replace an already existing chest drain, refer to Page xxx

PROCEDURE

	PROCESS	RATIONALE
1	Open package onto a clean work surface and open the sterile wrap.	To maintain cleanliness of the drain unit and sterility of the drainage tubing.
2	Swing out the floor stand and set drain upright.	Floor stand maintains stability of unit during setup.
3	Slide the blue tube clamp to where the tubing enters the drain.	The patient clamp should remain open at all times during use so the tube is not inadvertently closed off. This clamp may be removed if desired.
4	Remove the ampoule of sterile water from the back of the drain. Twist off the top of the ampoule. Add water to the water seal chamber through the suction port (Picture 1).	
5	Fill the water seal chamber to the 2cm fill line (Picture 2).	



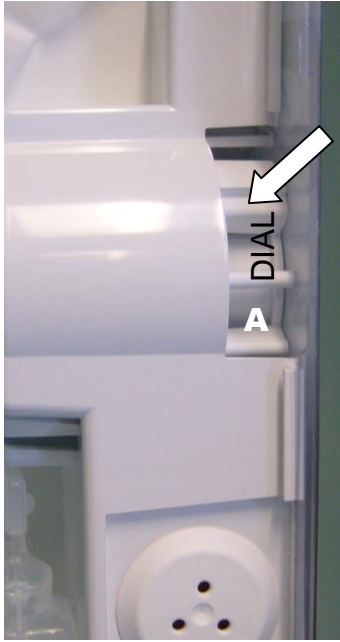

Picture 2



Picture 1


Atrium Oasis Dry Suction Chest Drain – Set up and Care continued

PROCEDURE

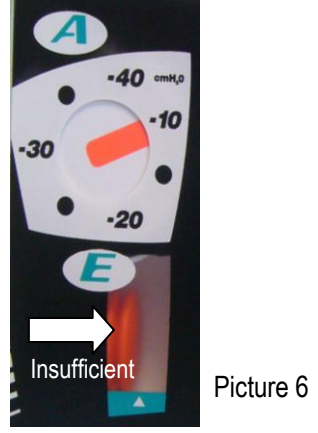
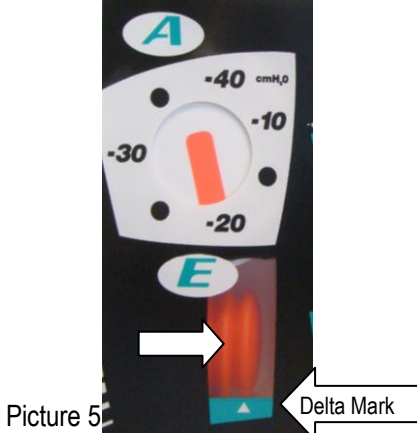
	PROCESS	RATIONALE
6	<p>The suction level is pre-set at -20cm H₂O on the Atrium Drainage System. DO NOT change the setting unless prescribed by MO.</p>  <p style="text-align: center;">Picture 3</p>	<div style="background-color: #444; color: white; padding: 5px; margin-bottom: 10px;">NOTE: Manufacturer recommends a suction level of -20cmH₂O.</div>  <p style="text-align: center;">Picture 4</p>
7	<p>If a higher suction is required, adjust the suction regulator on the drain to the desired level by turning the dial located on the left side of the chest drain for the required suction level (<i>Labelled A</i>).</p>	
8	<p>Pass the opaque tubing to the proceduralist to cut the connector off the tubing (Picture 4).</p>	
9	<p>Connect the drainage system tubing to the patient. Maintain sterility.</p>	<p>To facilitate connection of system. The tubing is sterile when the package is opened. The tubing cap is to remain on until passed onto the sterile field for the proceduralist to cut the tubing prior to connecting it to the chest drain.</p>

Atrium Oasis Dry Suction Chest Drain – Set up and Care continued

PROCEDURE

	PROCESS	RATIONALE
10	Attach suction tubing from the wall to the suction port on top of the drain (Picture 1).  <p style="text-align: center;">Picture 4</p>	The level of suction at the wall does not determine the level of suction within the drainage system. Connection to high wall suction reduces confusion as the suction level is regulated on the drainage system rather than through wall suction.
11	Turn on the suction source at the wall. Set the wall suction pressure at a minimum of -100mmHg.	To ensure proper bellows expansion.
12	Check the suction monitor bellows has extended to the <i>Delta Mark</i> .	

NOTE:
 For suction pressures greater than or equal to -20cmH₂O, the bellows in the suction monitor window (Labelled E) must expand to the delta mark or beyond (Picture 5).
 If desired suction is less than -20cmH₂O, any visible expansion of the bellows into the window confirms suction operation (Picture 6).



Atrium Oasis Dry Suction Chest Drain – Set up and Care continued

PROCEDURE		
	PROCESS	RATIONALE
12	If the bellows is not at or past the delta mark, increase suction pressure at the wall.	The suction source must be set at -80mmHg or higher in order for the unit to operate properly.
13	Hang the drain from the patient bed using the hooks on the top of the drain, always keeping the drain below the level of insertion.	To maintain the drain in the ideal position for drainage.
<p>NOTE:</p> <ul style="list-style-type: none"> • If the chest drain is not used with suction: suction outlet port (BLUE) <i>MUST</i> remain open to air to allow air to vent from the system. • If suction is ceased, disconnect suction tubing from the top of the drain and from the wall suction. 		

References
Oasis Dry Suction Chest Drains, Instructions for Use. Atrium Medical Corporation, Hudson, New Hampshire 03051, USA.

Date	Revised No.	Author; Revised by
24 th August 2011	Primary	CNS Charlotte. Moore
October 2013	1	K. B. Lindrea, S. Bolisetty & J. Sheils