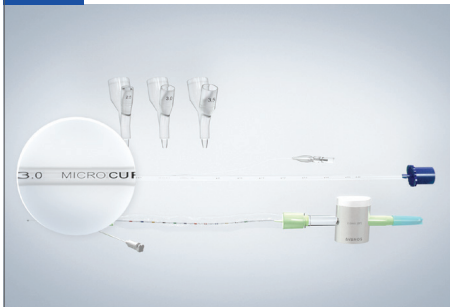


BALLARD™ CLOSED SUCTION SYSTEMS

INSTRUCTIONS FOR USE - NEONATES AND PEDIATRICS

Ballard™ Closed Suction Systems remove secretions from the airway while maintaining ventilation and oxygen therapy throughout the suctioning procedure, and providing protection for both the patient and the caregiver.

1 SELECT CATHETER



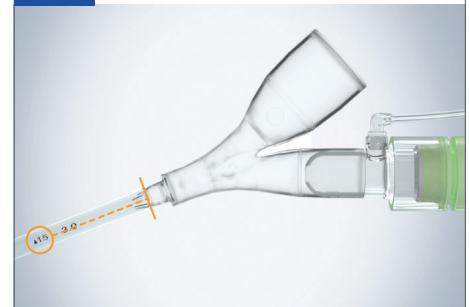
- Select appropriate size ET tube (ETT) adapter (same size as the ETT).
- Select appropriate size BALLARD™ catheter. Most experts suggest that the catheter should occupy no more than half the ID of the artificial airway.¹
- Test catheter for occlusion prior to use.

2 SET-UP



- Attach Y-adapter to catheter.
- Attach thumb valve to suction tubing.
- Depress and hold thumb valve and adjust vacuum regulator to the desired level, then release the thumb valve.²
- Remove original ETT adapter and attach Y-adapter to ETT.
- Reconnect the ventilator circuit.

3 MEASURED DEPTH SUCTION



- Insert catheter into the ET tube until depth marking values, both on the catheter and on the ET tube, match. This is when the catheter tip is within 0.5 cm to 1 cm of the distal tip of the ET tube
- Corresponding depth marking value on the catheter - now visible in the observation window - may be recorded for future reference

Note: When using non-transparent airway devices, conduct above steps ex-vivo. Catheter colour markings promote identification of insertion depth in repeated suctioning events

4 SUCTION PROCEDURE



- Stabilize the ETT adapter with one hand and with the other hand, advance the catheter to the desired depth.
- Depress the thumb valve and withdraw the catheter gently.
- Stop withdrawal when the black marker is visible in the observation window.

5 CATHETER IRRIGATION



- Insert saline syringe or vial into the irrigation port.
- Introduce saline slowly into the irrigation port while simultaneously depressing the thumb valve.
- When the secretion viewing window is clear, remove and discard the saline, and close the irrigation port.
- Lift and turn the thumb valve to the locked position.

6 DAY STICKER USAGE



- Apply the appropriate day sticker to the thumb valve.

Example: if the catheter is opened on a Tuesday, place the Wednesday sticker on the thumb valve.

1. Blakeman, Thomas C et al. "AARC Clinical Practice Guidelines: Artificial Airway Suctioning." *Respiratory care vol. 67,2* (2022): 258-271. doi:10.4187/respcare.09548
2. Use appropriate regulated vacuum levels. Though experts in the neonatal community cannot agree on a set regulated level of suction, there is minimal evidence that suction pressures should be kept below -80 and -100 mm Hg in neonates¹

There are inherent risks in all medical devices. Please refer to the product labeling for indications, cautions, warnings and contraindications. Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region. Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.

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