

# CLINICAL REFERENCE

## Closed Suctioning for Airway Management

The following is a summary list of clinical articles and industry guidelines related to the practice of Closed Suctioning.

*Some studies explicitly reference Ballard™ Closed Suction Devices.\**

ARTICLE	AUTHOR(S)	PUBLICATION	LINK
<b>Industry Organization Guidance</b>			
AARC Clinical Practice Guidelines: Artificial Airway Suctioning	Blakeman TC, et al.	Respiratory Care. 2022 Feb; 67(2):258-271	<a href="#">Open Access Link</a>
AARC Guidelines: Endotracheal Suctioning of Mechanically Ventilated Patients with Artificial Airways	AARC	Respiratory Care. 2010 Jun; 55(6):758-64. PMID: 20507660.	<a href="#">AARC Guidelines Link</a>
AARC Evidence-Based Clinical Practice Guidelines: Care of the Ventilator Circuit and Its Relation to Ventilator-Associated Pneumonia	Hess DR, et al.	Respiratory Care, 2003 Sep, Vol 48, No 9	<a href="#">AARC Clinical Practice Guidelines</a>
Guidelines for Preventing Health-Care-Associated Pneumonia, 2003: Recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee	Tablan OC, et al.	MMWR Recomm Rep. 2004 Mar 26; 53(RR-3):1-36	<a href="#">Pubmed Link: PMID: 15048056</a>
Strategies to Prevent Ventilator-Associated Pneumonia, Ventilator-Associated Events, and Nonventilator Hospital-Acquired Pneumonia in Acute-Care Hospitals: 2022 Update	Klompas M., et al.	Infection Control Hospital Epidemiology. 2022 Jun; 43(6):687-713.	<a href="#">Open Access Link</a>
Strategies to Prevent Ventilator-Associated Pneumonia in Acute Care Hospitals: 2014 Update	Klompas M., Branson R., Eichenwald EC., et al.	Respir Care. 2014 Apr; 59(4):497-503.	<a href="#">Open Access Link</a>
<b>Ballard Turbo-Cleaning Related Studies</b>			
Lung Volume Changes During Cleaning of Closed Endotracheal Suction Catheters: a Randomised Crossover Study Using Electrical Impedance Tomography*	Corley A., Fraser J., et al.	Respir Care. 2013 Oct; 58(10):1588-97.	<a href="#">Pubmed Link: PMID: 24046466</a>
Decreasing the Adverse Effects of Endotracheal Suctioning During Mechanical Ventilation by Changing Practice	Maggiore SM et al.	Infection. 2003 Jan; 31(1):31-7.	<a href="#">Pubmed Link: PMID: 23466423</a>
Prolonged Application of Closed In-Line Suction Catheters Increases Microbial Colonization of the Lower Respiratory Tract and Bacterial Growth on Catheter Surface	Freytag CC et al.	Aust Crit Care. 2014 May; 27(2):70-4; quiz 75-6	<a href="#">Pubmed Link: PMID: 24636425</a>
<b>Open Vs. Closed Suctioning</b>			
Comparison of Open and Closed Suction on Safety, Efficacy and Nursing Time in a Paediatric Intensive Care Unit	Evans J., et al.	International Journal of Infection Control, Vol. 12, No. 2	<a href="#">Open Access Link</a>
Comparing Suctioning Techniques Used to Assist Mechanical Ventilation: Protecting You and Your Patients	Lavigne M.	International Journal of Infection Control, Vol. 12, No. 2	<a href="#">Open Access Link</a>

