

AARC Clinical Practice Guideline

Bland Aerosol Administration—2003 Revision & Update

BAA 1.0 PROCEDURE:

Bland aerosol administration

BAA 2.0 DESCRIPTION/DEFINITION:

For purposes of this guideline, bland aerosol administration includes the delivery of sterile water or hypotonic, isotonic, or hypertonic saline in aerosol form.¹ Bland aerosol administration may or may not be accompanied by oxygen administration.

2.1 The use of cool, bland aerosol therapy is primarily indicated for upper airway administration;^{1,2} therefore, a mass median aerodynamic diameter (MMAD) ≥ 5 micron is desirable.

2.2 The use of hypo- and hypertonic saline is primarily indicated for inducing sputum specimens; therefore, a MMAD of 1-5 microns is desirable.

2.3 The use of heated bland aerosol is indicated primarily for minimizing humidity deficit when the upper airway has been bypassed;² therefore, a MMAD of 2-10 microns is desirable.

BAA 3.0 SETTINGS:

Bland aerosol therapy can be administered in settings that include hospital, clinic, extended care facility, and home.

BAA 4.0 INDICATIONS:

4.1 The presence of upper airway edema—cool bland aerosol^{1,2}

4.1.1 Laryngotracheobronchitis (LTB)^{1,2}

4.1.2 Subglottic edema^{1,2}

4.1.3 Post-extubation edema^{1,2}

4.1.4 Postoperative management of the upper airway

4.2 The presence of a bypassed upper airway²

4.3 The need for sputum specimens or mobilization of secretions^{1,4}

BAA 5.0 CONTRAINDICATIONS:

5.1 Bronchoconstriction^{1,2,3,6}

5.2 History of airway hyperresponsiveness^{1,2,3,6}

BAA 6.0 HAZARDS/COMPLICATIONS:

6.1 Wheezing or bronchospasm^{1,2,3,6}

6.2 Bronchoconstriction when artificial airway is employed^{1,11}

6.3 Infection¹²

6.4 Overhydration¹²

6.5 Patient discomfort

6.6 Caregiver exposure to droplet nuclei of *Mycobacterium tuberculosis* or other airborne contagious microorganism produced as a consequence of coughing, particularly during sputum induction

6.7 Edema of the airway wall¹³

6.8 Edema associated with decreased compliance and gas exchange and with increased airway resistance

6.9 Sputum induction by hypertonic saline inhalation can cause bronchoconstriction with patients who have COPD,¹⁴ asthma, cystic fibrosis, or other pulmonary diseases.¹⁵

BAA 7.0 LIMITATIONS OF METHOD:

7.1 The efficacy of intermittent or continuous use of bland aerosol as a means of reducing mucus has not been established.^{1,2} Bland aerosol is not a substitute for systemic hydration.

7.2 The physical properties of mucus are only minimally affected by the addition of water aerosol.¹⁶

7.3 Bland aerosol for humidification when the upper airway has been bypassed is not as efficient or effective as are heated water humidifiers or adequately designed heat moisture exchangers (HME) because of the

7.3.1 Difficulties in maintaining temperature at patient airway

7.3.2 Possible irritation to the airway¹⁷⁻¹⁹

7.3.3 Infection risk¹²

Aarc Clinical Guidelines 2014

G Thomas



Aarc Clinical Guidelines 2014:

This book delves into Aarc Clinical Guidelines 2014. Aarc Clinical Guidelines 2014 is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Aarc Clinical Guidelines 2014, encompassing both the fundamentals and more intricate discussions.

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- Chapter 5: Conclusion

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