# Effect of Bronchodilator Delivery Using the Aerogen® Ultra Versus a Jet Nebulizer on Clinical Outcomes in an Acute Care Setting

Original article: Dunne RB, Shortt S. Comparison of bronchodilator administration with vibrating mesh nebulizer and standard jet nebulizer in the emergency department. Am J Emerg Med. 2018;36(4):641-646.

### **Background**



Aerosolized bronchodilators are frequently used in patients presenting to the emergency department with acute respiratory distress related to reversible bronchoconstriction; however, there is a lack of data on the potential impact of different delivery devices in this setting

### **Objective**



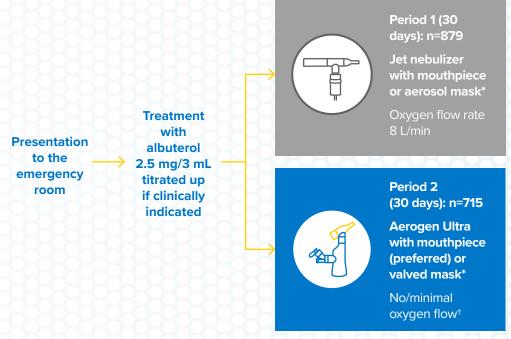
The aim of this study was to compare clinical outcomes during use of the Aerogen Ultra versus a jet nebulizer in patients treated with aerosolized albuterol in the emergency room

#### **Materials and Methods**

**Design:** Review of electronic medical records from a prospectively defined dataset

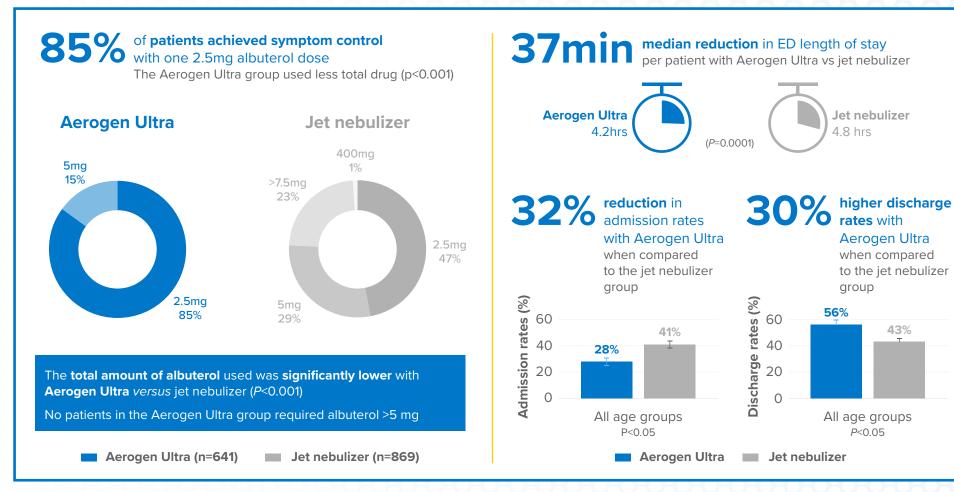
Adult and pediatric patients treated with inhaled bronchodilator therapy in the emergency room





# Effect of Bronchodilator Delivery Using the Aerogen® Ultra Versus a Jet Nebulizer on Clinical Outcomes in an Acute Care Setting

Original article: Dunne RB, Shortt S. Comparison of bronchodilator administration with vibrating mesh nebulizer and standard jet nebulizer in the emergency department. Am J Emerg Med. 2018;36(4):641-646.





Use of Aerogen Ultra *versus* a jet nebulizer for bronchodilator delivery resulted in a reduced dose of albuterol, a shorter stay in the emergency room, and reduced admission rates

