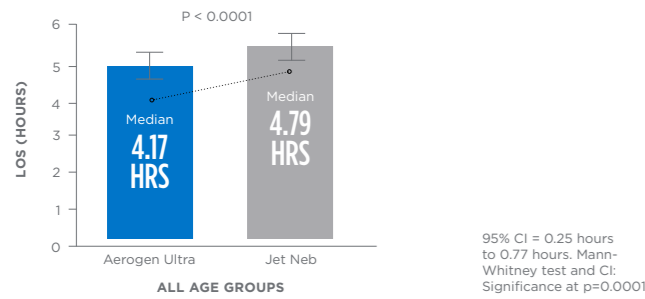


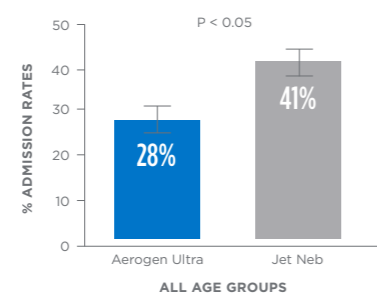
37 minute median reduction in ED length of stay

37 minute median reduction in LOS per patient with Aerogen Ultra vs Jet neb



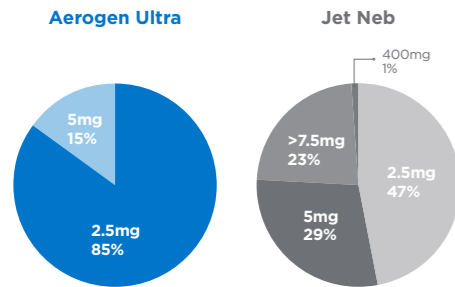
32% reduction in admission rates

When compared to the Jet neb group, admission rates are 32% lower with Aerogen Ultra



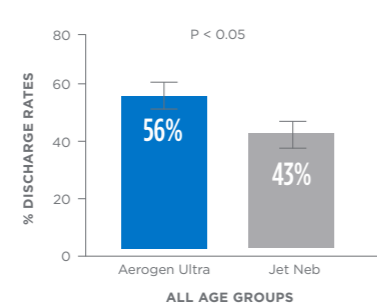
75% lower drug use with the Aerogen Ultra

The Aerogen Ultra group used less total drug (p<0.001) with a 75% reduction in total dose administered.



30% higher discharge rates with the Aerogen Ultra

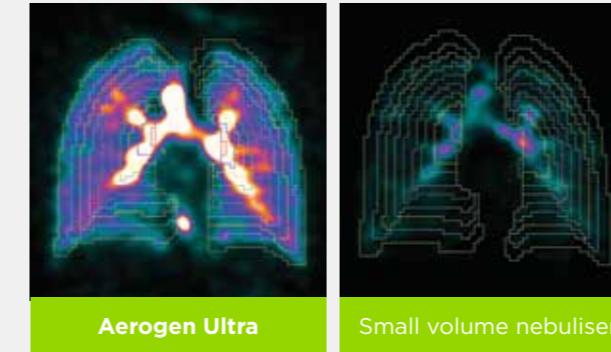
When compared to the Jet neb group, discharges are 30% higher with Aerogen Ultra



BETTER IS FASTER

✓ Aerogen Ultra delivers significantly more medication in half the time²

✓ Aerogen Ultra delivers a 6-fold increase in medication to the patient's lungs compared with a standard small volume nebuliser (SVN)³



Images of healthy lungs after aerosolised drug treatment by Aerogen Ultra and SVN.

- Lung dose delivered: Ultra (34.1%), SVN (5.2%)
- Residual dose volume: Ultra (2.4%), SVN (62.8%)

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Pioneering Aerosol Drug Delivery

¹ Dunne R et al. Aerosol dose matters in the Emergency Department: A comparison of impact of bronchodilator administration with two nebulizer systems. Poster at the American Association for Respiratory Care. 2016 ² Hickin S, Mac Loughlin R, Sweeney L, Tatham A and Gidwani S. Comparison of mesh nebuliser versus jet nebuliser in simulated adults with chronic obstructive pulmonary disease. Poster at the College of Emergency Medicine Clinical Excellence Conference. 2014. ³ Dugernier et al. SPECT-CT Comparison of Lung Deposition using a System combining a Vibrating-mesh Nebulizer with a Valved Holding Chamber and a Conventional Jet Nebulizer: a Randomized Cross-over Study. Pharm Res. 2016 Nov 7 (epub)

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New clinical outcome data demonstrates how Aerogen Ultra is transforming the treatment of patients in the Emergency Department

Study Design

A retrospective chart review of 1,594 patients at St. John Hospital and Medical Center, Detroit compared clinical outcomes associated with the use of a hospital standard small volume nebuliser (SVN) versus the Aerogen Ultra.¹

Study Objectives

To determine whether the improved aerosol delivery of bronchodilators would have a positive effect on respiratory patients receiving treatment in the ED in terms of:

- admission rates
- discharge rates
- total salbutamol dose

Aerogen Ultra

How does it work?

Our unique palladium vibrating mesh technology is a breakthrough in aerosol drug delivery and is at the heart of all our products.

The central aperture plate is perforated with 1,000 precision formed holes that vibrate at 128,000 times per second to produce the optimum particle size for deep airway penetration.

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