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BreatheRite™



## Independent Clinical Study Shows that BreatheRite™ MDI Chamber Delivers Patient Medication More Efficiently.

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**PARTICLE SIZE AND OUTPUT COMPARISON OF THE BREATHERITE AND AEROCHAMBER AEROSOL HOLDING CHAMBERS**

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The **BreatheRite** (Ventlab Corp.) is a new aerosol holding chamber (HC), which has the advantage of collapsibility and increased portability, potentially improving compliance among patients that benefit from holding chambers but are reluctant to carry bulky devices outside their home. Prior to clinical use, new HC design characteristics are bench tested. Therefore we measure the aerosol particle size and output efficiency of the **BreatheRite** and also of the FDA approved AeroChamber® for comparison. Both devices were combined with beclomethasone, albuterol or cromlyln MDIs and tested in triplicate using previous published techniques (Kim, C.S. et al., ARRD 1985; 132:137-142 & 1987; 135:157-164) of cascade impaction (for particle sizing) and filter sampling (for output efficiency). Cascade data was analyzed via log probability plot to determine the mass median aerodynamic diameter (MMAD) in microns (µm) and efficiency data was calculated as the aerosol mass produced from each HC divided by the MDI dose per puff and expressed as a percent. Results are summarized in the following table.

<b>Device</b>	<b>Beclomethasone</b>	<b>Abuterol</b>	<b>Cromlyln</b>
MMAD (µm)±SD			
<b>BreatheRite™</b>	<b>0.99 ± .07</b>	<b>1.62 ± .03</b>	<b>2.59 ± .09</b>
AeroChamber®	0.95 ± .06	1.62 ± .09	2.40 ± .09
Efficiency (%)±SD			
<b>BreatheRite™</b>	<b>74.6 ± .7.3</b>	<b>61.5 ± 4.6</b>	<b>53.5 ± 3.2</b>
AeroChamber®	48.4 ± 3.6	47.4 ± 1.3	37.5 ± 8.3

**For the three drugs tested, our analysis demonstrated a 42% greater efficiency of the BreatheRite over the AeroChamber with nearly identical aerosol particle sizes. We believe that patients should have similar drug aerosol desposition patterns in the lung with either HC and a significantly higher inhaled drug dose via the BreatheRite. the clinical relevance of this data remains to be determined.**

**Ordering Information**

<b>Order #</b>	<b>Description</b>	<b>Packaging</b>
4430100	Valved MDI Chamber (Rigid)	each
4430120	Valved MDI Chamber (Rigid)	20/case
4430120-60	Valved MDI Chamber (Rigid)	60/case
4430200	Valved MDI Chamber (Collapsible)	each
4430220	Valved MDI Chamber (Collapsible)	20/case
4430220-60	Valved MDI Chamber (Collapsible)	60/case
4426001	Infant (Small) Silicone Mask for Chamber	each
4426011	Infant (Small) Silicone Mask for Chamber	10/case
4426002	Pediatric (Medium) Silicone Mask for Chamber	each
4426012	Pediatric (Medium) Silicone Mask for Chamber	10/case
4426003	Adult (Large) Silicone Mask for Chamber	each
4426013	Adult (Large) Silicone Mask for Chamber	10/case
4443611	BreatheRite Chamber with Small Mask (Rigid)	10/case
4443612	BreatheRite Chamber with Medium Mask (Rigid)	10/case
4443613	BreatheRite Chamber with Large Mask (Rigid)	10/case
4444611	BreatheRite Chamber with Small Mask (Collapsible)	10/case
4444612	BreatheRite Chamber with Medium Mask (Collapsible)	10/case
4444613	BreatheRite Chamber with Large Mask (Collapsible)	10/case



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