



NEWS from Trudell Medical International*

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Importance of Product Progression

The use of a pressurized Metered Dose Inhaler (pMDI) causes challenges for patients of any age. Correct use of a pMDI with Valved Holding Chamber (VHC) helps patients get the maximum benefit from their medication while minimizing oropharyngeal deposition and possible systemic side effects. The selection of the proper VHC, with either a mask or mouthpiece, helps patients overcome these challenges – one of the keystones of successful asthma management.¹

Generally asthma consensus guidelines recommend the use of VHCs with a mask for children younger than five who are prescribed an aerosol medication. For these smaller patients, it is especially critical that they be prescribed the correct mask size to eliminate the entrainment of ambient air, which can result from gaps as small as 0.5 cm. Proper, anatomically shaped masks, such as the infant, child and large **ComfortSeal**[®] Masks on the **AeroChamber Plus**[®] VHC with **Flow-Vu**[®] Indicator, offset poor coordination skills with a secure, comfortable fit, while minimizing dead space – both considered to be critical factors for optimal delivery of aerosol medication.²

As soon as a child can coordinate breathing through their mouth without breathing through their nose – which occurs between the ages of 4 and 6 – they should be switched to a mouthpiece device. This helps to eliminate any drug lost as a result of the child inhaling through their nose. Moving from the medium mask to a mouthpiece device may also empower them to take greater control of their asthma and encourage independence and compliance to their treatment program.

For more information about the importance of facemask design to the delivery of aerosol medications or for Mask Sizers to assist in the selection of the proper size mask, please visit our website at www.trudellmed.com

Please note: Trudell Medical International will be attending the **Arab Health Congress** in Dubai on January 26th to 29th at Booth # 2E46.

¹ Pedersen S, Frost L, Arnfred T. *Errors in inhalation technique and efficiency in inhaler use in asthmatic children*. Allergy 1986; 41: 118-124.

² Morton RW and Mitchell JP. 2007. *Design of Facemasks for Delivery of Aerosol-Based Medication via Pressurized Metered Dose Inhaler with Valved Holding Chamber: Key Issues that Affect Performance*. Journal of Aerosol Medicine. 20(1):29-45.

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AeroChamber
Plus with **Flow-Vu**
 Valved Holding Chamber