

NEWS from Trudell Medical International[®]

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Medication Delivery via Holding Chamber and Facemask with Inhalation Flow Indicator

The 2008 *International Congress on Pediatric Pulmonology (CIPP)* Nice, France, was the organization's eighth event. Held every two years, CIPP's 2006 Congress in Montreal, Canada, drew delegates from over 78 countries making it a truly International conference. Trudell Medical International was invited to present the attached Poster. This study demonstrated that delivery of inhaled medication to infants and small children by Valved Holding Chamber (VHC) with facemask may require more than one inhalation to empty the VHC due to lower tidal volumes. An aid that provides feedback to the healthcare provider that inhalation has taken place is therefore useful to optimize medication delivery to these patients.

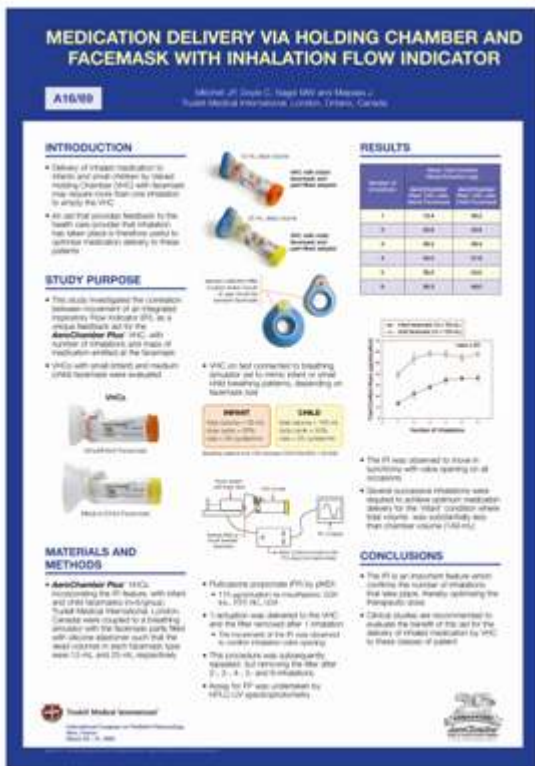
The **Flow-Vu[®]** Inspiratory Flow Indicator (IFI), a key feature on the **AeroChamber Plus[®]** Valved Holding Chamber (VHC), moves in synchrony with the opening of the valve in response to the patients' inspiratory effort. By removing the potential for mistakes, the patient is given the time to take a slow deep breath – helping to ensure the medication gets where it is needed – in the lungs. This enables parents and caregivers to confirm a good face/mask seal and count the number of inhalations that have taken place, thereby optimizing the therapeutic dose.

In this study, each VHC was connected to a breathing simulator set to mimic infant or small child breathing patterns, depending on facemask size. The volume of the **AeroChamber Plus[®]** VHC with **Flow-Vu[®]** IFI (149 mL) is the optimal size for a Valved Holding Chamber. For infants and children with lower tidal volumes the **Flow-Vu[®]** Indicator is an important feature which provides visual assurance to patients, caregivers and healthcare professionals that inhalation is being performed correctly, thus confirming that the medication has been delivered.

For the complete presentation, please click on the image of the Poster.

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AeroChamber[®]
 Plus[®] with **Flow-Vu[®]**
 Valved Holding Chamber