Can't beat the Vu.



Trudell Medical International®

AeroChamber Plus Flow-Vu®

Anti-Static Valved Holding Chamber



Doug can't enjoy the view when he is struggling to breathe.

- Many patients are not able to use their inhalers effectively[1]
- There are over ***250 different inhaler products*** for the treatment of asthma and COPD[2]
- The concurrent use of ***multiple inhaler types***, all with varying techniques ***can confuse patients***.[3]
- As the number of different inhaler devices increases, the ***frequency of errors increases***[4]
- ***18% reduction in exacerbation rate*** demonstrated when patients used inhalers with similar techniques[5]

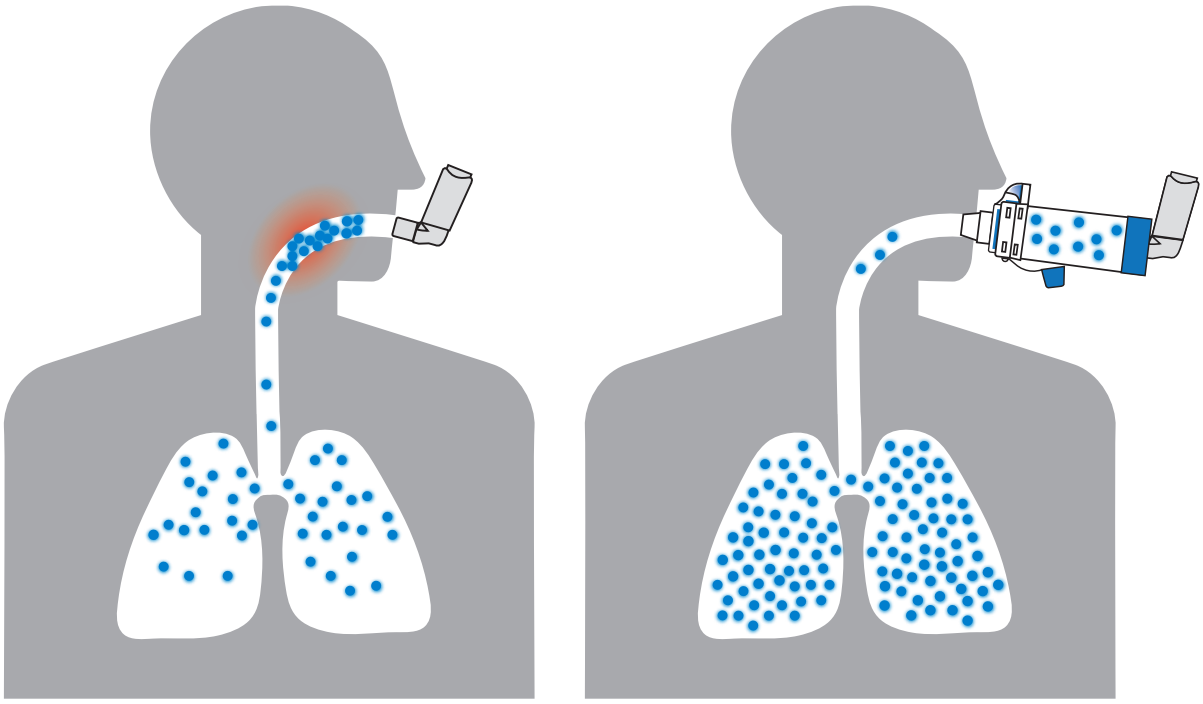
For respiratory patients, getting the most from life means getting the most from their inhaler medication.

1 Sanchis J *et al*. Systemic review of errors in inhaler use: has patient technique improved over time? Chest 2016; 128(5):3198-3204 **2** Capstick T *et al*. Inhaler technique and training in people with chronic obstructive pulmonary disease and asthma. Expert Rev Respir Med. 2012; 6(1):92-101 **3** Van der Palen J *et al*. Inhalation technique of 166 adult asthmatics prior to and following a self-management program. J Asthma 1999;36:441-7. **4** Plaza V *et al*. Physician's knowledge of inhaler devices and inhalation techniques remains poor in Spain. J Aerosol Med Pulm Drug Deliv. 2012; 25(1): 16-22. **5** Bosnic-Anticevich *et al*. The use of multiple respiratory inhalers requiring different inhalation techniques has an adverse effect on COPD outcomes. International Journal of COPD 2017:12 59-71.



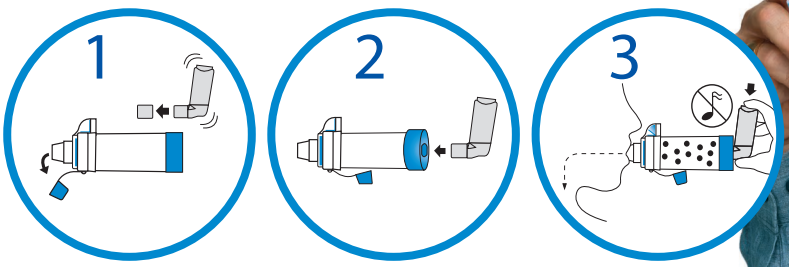
RECOMMENDED IN GUIDELINES

Global respiratory guidelines recommend the use of Valved Holding Chambers, to improve Metered Dose Inhaler (MDI) drug delivery[6]



People who use a valved holding chamber with their MDI have better control[7]

- Patients simply need to actuate the inhaler and breathe in the medication
- For use with all MDIs





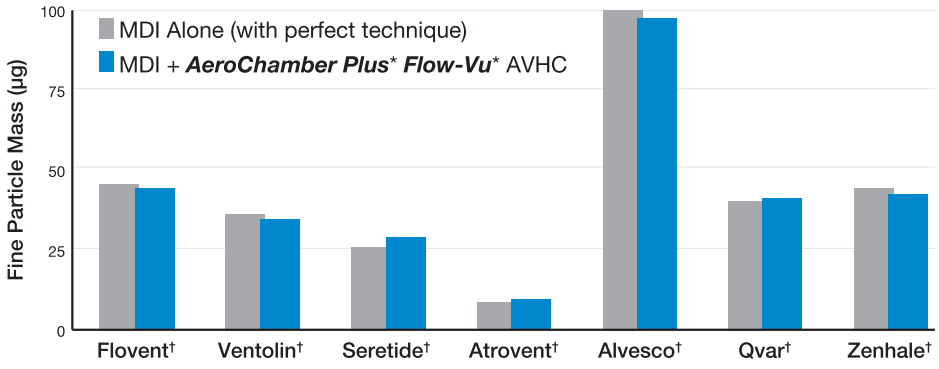
AVHC = Anti-static valved holding chambers

6 GINA - *Global Strategy for Asthma Management and Prevention*, 2017. **7** Levy ML *et al* Asthma patient's inability to use a pressurized metered-dose inhaler (pMDI) correctly correlates with poor asthma control as defined by the Global Initiative for Asthma (GINA) strategy: a retrospective analysis. Prim Care Respir J. 2013; Dec;22(4):406-11.

Improves Adherence versus MDI alone

TARGETED MEDICATION DELIVERY

AeroChamber Plus **Flow-Vu**** AVHC delivers the intended dose[8]

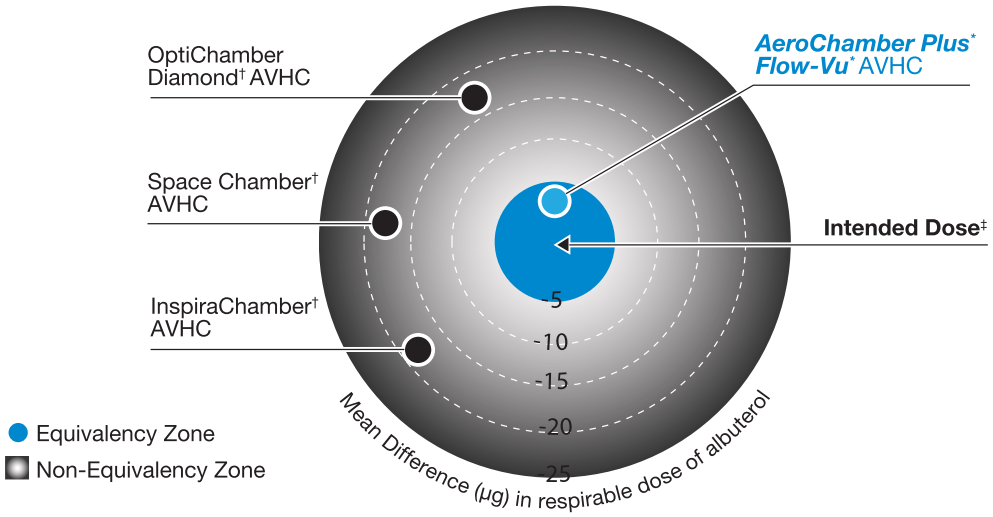


- 9 out of 10 adults don't use their MDI properly[9]
- Use of ***AeroChamber Plus*** **Flow-Vu**** AVHC helps deliver the intended dose
- Prescribing instructions do not need to be modified

Validated Safety and Efficacy

- Safety and efficacy of the ***AeroChamber Plus**** brand of chambers has been validated in numerous third party clinical evaluations with different patient populations[10]
- The most recommended brand of chamber by leading MDI pharmaceutical companies

Many chambers claim to be equivalent to ***AeroChamberPlus**** brand of chamber but they are not[11]



Different chambers deliver different amounts of medication[12,13]

‡ ***AeroChamber Plus** *VHC. Chambers prepared as per IFU.

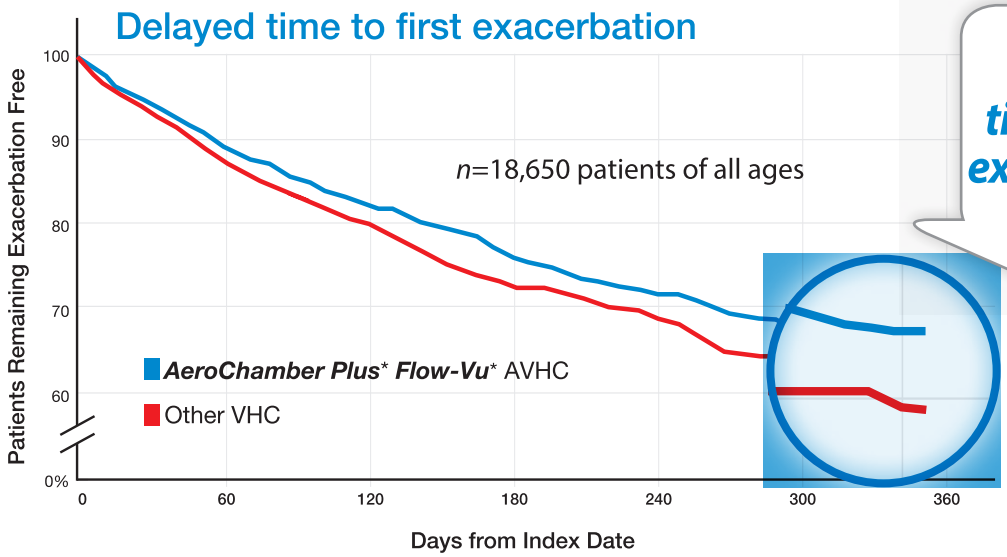
8 Harkness H *et al*. Valved Holding Chambers are non-interchangeable: Development of a Universal VHC that provides assurance of drug delivery to patients and health care providers. Presented at Canadian Respiratory Conference, 2012. **9** Plaza V *et al*. Medical personnel and patient skill in the use of metered dose inhalers: a multicentric study. Respiration 1998;65:195-8. **10** Study Summary: AeroChamber* Brand of VHC, May 2016. **11** Nagel *et al*. Equivalency evaluation of valved holding chambers with albuterol pressurized metered dose inhaler. Respiratory Drug Delivery Europe 2017. **12** Medicines and Healthcare Products Regulatory Agency (MHRA). Drug safety update – inhaled products that contain corticosteroids, July 2008. **13** Global initiative for asthma (GINA) guidelines, 2017; Global strategy for asthma management and prevention.

Delivers the Intended Dose

IMPROVED CLINICAL OUTCOMES

Real world evidence shows improved clinical outcomes with ***AeroChamber Plus* Flow-Vu*** AVHC[14]

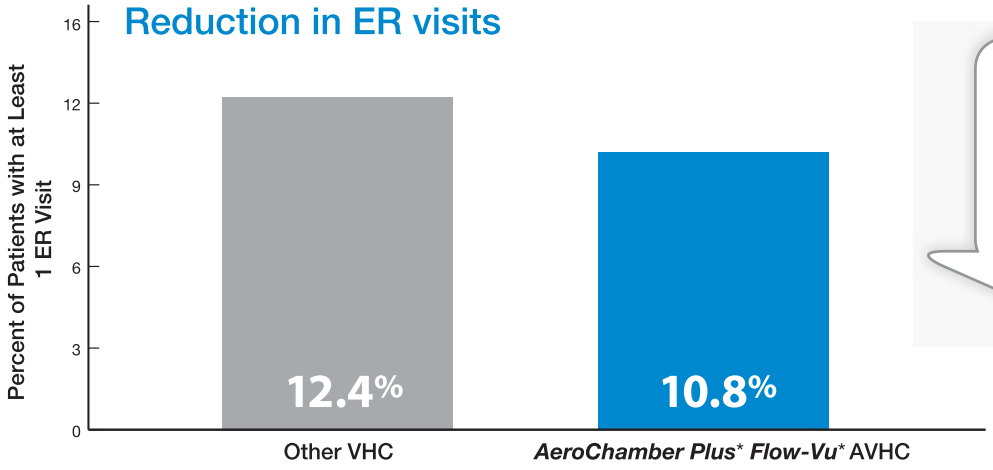
Delayed time to first exacerbation



Delayed time to first exacerbation

p=0.0005

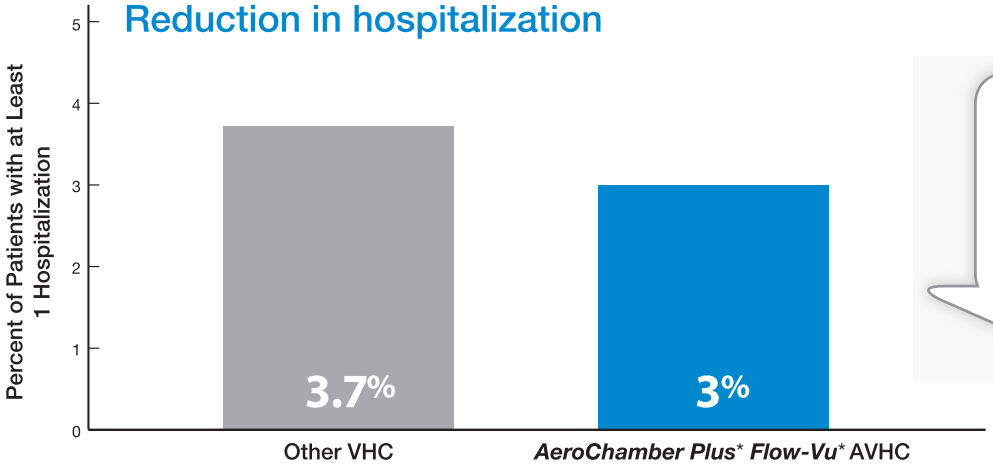
Reduction in ER visits



13% reduction

p=0.0167

Reduction in hospitalization



19% reduction

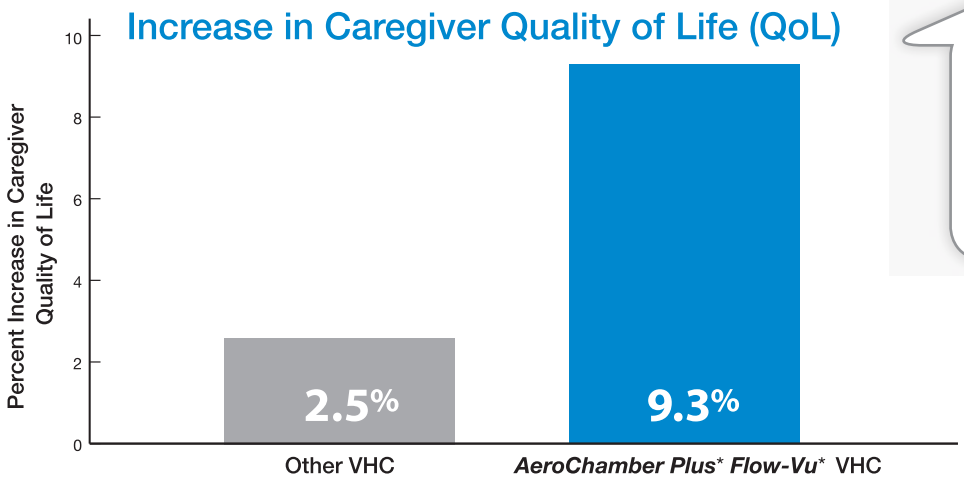
p=0.0702

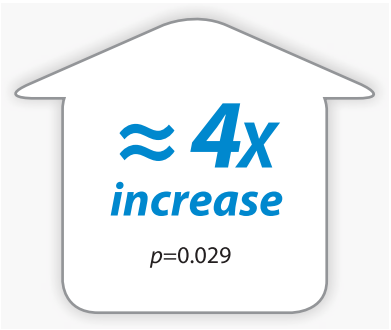
AVHC = Anti-static valved holding chambers

14 Burudpakdee, *et al*. A retrospective study of the Effectiveness of ***AeroChamber Plus* Flow-Vu*** Antistatic Valved Holding Chamber for Asthma Control. Pulmonary Therapy, 2017.

VISUAL ASSURANCE

In Vivo studies show use of a chamber with the ***Flow-Vu**** Inhalation Indicator was associated with quality of life improvements and strong device preference[15,16]





- QoL scores were greater in the ***AeroChamber Plus**** ***Flow-Vu**** VHC group

The ***only*** chamber with a dedicated inhalation indicator



The ***Flow-Vu**** Inhalation Indicator is a valuable feedback tool that allows caregivers to:

- Ensure a proper facemask seal
- Coordinate actuation of MDI with inhalation
- Count breaths

Flow-Vu*

Moves with inhalation to provide ***visual assurance*** of correct use and medication delivery.



15 Ammari W *et al*. Evaluation of asthma control, parent's quality of life and preference between ***AeroChamber Plus**** and ***AeroChamber Plus**** ***Flow-Vu**** spacers in young children with asthma. Journal of Asthma, Vol 52;3,2015.
16 Baig M *et al*. ***Flow-Vu**** Indicator in valved holding chamber for pediatric asthma. American Academy of Pediatrics National Conference 2013.

Improved Quality of Life

Prescribe ***AeroChamber Plus** *Flow-Vu**** AVHC
— *Specify No Substitutions* —

9 out of **10**

MDI Patients don't use their inhalers correctly.

Guidelines recommend



- **Delivers the intended dose**
- **Safety and efficacy validated**
- **Flow-Vu = QoL**
- **Visual assurance**
- **Improves clinical outcomes**
- **Other chambers are not equivalent**





AeroChamber Plus Flow-Vu
Anti-Static Valved Holding Chamber

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REPLACE 12 MONTHS

Designed and Developed in Canada

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