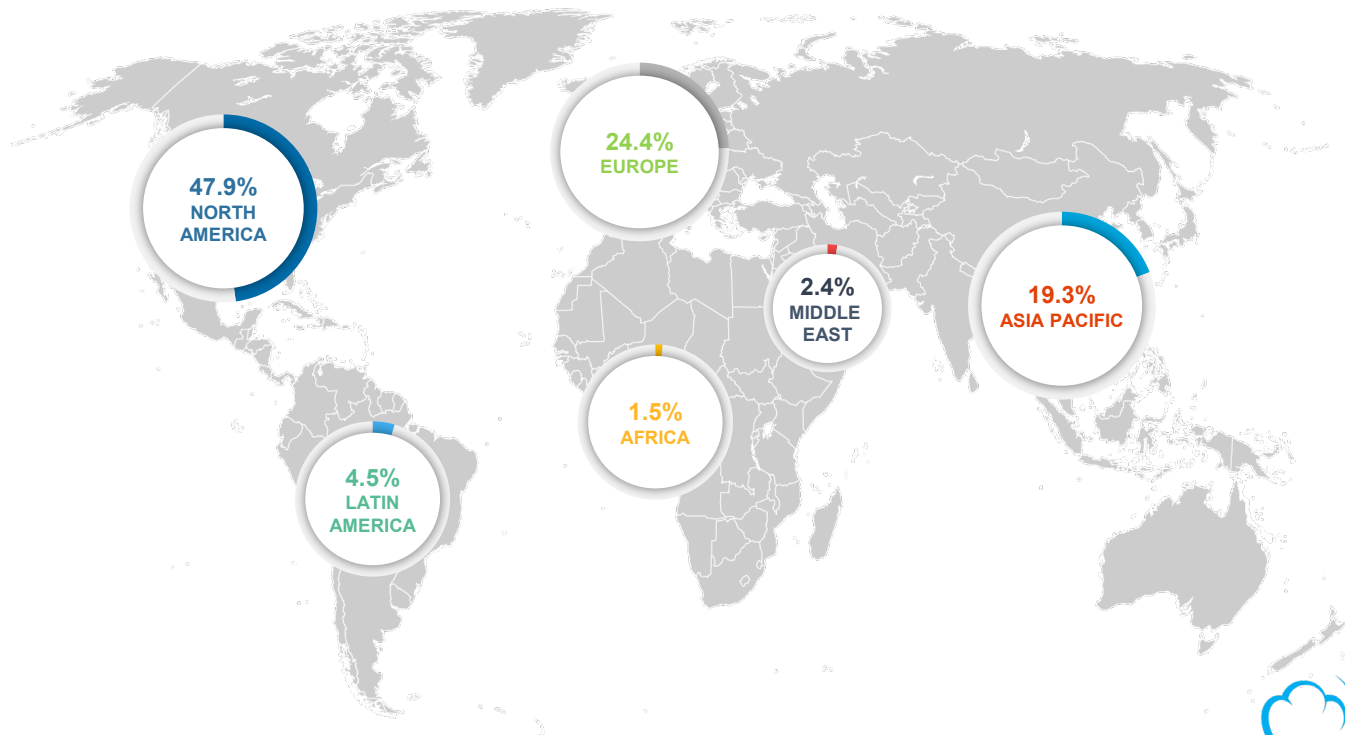
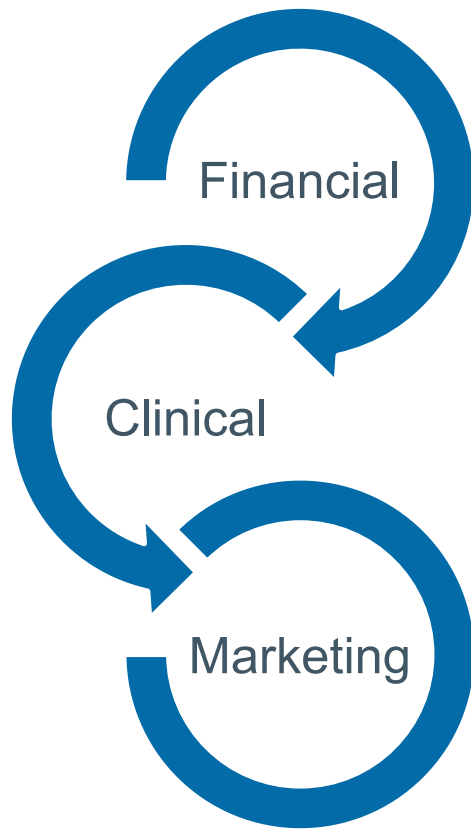




Business Potential: Spacer Regional Market Share (%) 2021



Why Partner?



Clinical/Educational

- ▶ Over 40 guidelines support clinical use
- ▶ Respiratory disease impacts all age, race, sex
- ▶ COPD readmissions impact IDN revenue
- ▶ CEU webinars can be offered for value to members
- ▶ Identify rural opportunities for growth and impact



Clinical guideline recommendations: Drives impact and captures cost savings

Pressurized metered-dose inhalers (pMDI) should be used with a spacer device, as some people have difficulty coordinating the release of medication with inhalation.¹



Spacers should be used by²

- All Children, consider using a spacer with a face mask in children younger than 4.
- Patients using a pMDI corticosteroid medication.
- Patients who have trouble coordinating pressing and breathing at the same time.
- Patients taking a reliever medication during an asthma episode.



pMDI inhalers work best when used with a valved spacer. The biggest mistake made in using an pMDI is not being able to coordinate taking a breath into the lungs while spraying the medicine at the same time.^{3,4}



Comparison between Metered Dose Inhalers and Valved Holding Chambers Versus Nebulisers

Research has shown that the drug delivery performance of Metered Dose Inhalers with Valved Holding Chambers (VHCs) are comparable to Nebulisers, with VHCs offering valuable advantages in terms of cost, time, ease of use and patient compliance: .

[Implementation of a Policy Change: Replacement of Nebulizers by Spacers for the Treatment of Asthma in Children - PubMed \(nih.gov\)](#)

> Isr Med Assoc J. 2015 Jul;17(7):421-4.

Implementation of a Policy Change: Replacement of Nebulizers by Spacers for the Treatment of Asthma in Children

Oded Breuer, David Shoseyov, Eitan Kerem, Rebecca Brooks

PMID: 26357717

[Free article](#)

Abstract

Background: Treatment using inhaled bronchodilators for asthma with a metered dose inhaler attached to a spacer device (MDI+S) was shown to be as efficient as nebulizers. Nevertheless, nebulizers remain the treatment of choice in most hospitals.

Objectives: To implement a policy change to improve asthma treatment in pediatric wards and the pediatric emergency department.

Methods: The study was performed in the emergency department and pediatric wards of a university medical center. The study group comprised all children admitted with a diagnosis of asthma necessitating treatment. The medical and nursing staff of both the pediatric emergency department and the pediatric wards was trained how to use metered dose inhalers attached to spacers on a regular basis in asthmatic pediatric patients. At a preset date nebulizers were replaced by spacers and their use was monitored by the supervising physician. Salbutamol was administered by a metered dose inhaler (100 µg/puff) attached to a spacer device. The number of puffs was determined by severity of disease according to GINA recommendations. After 2 years the outcome and cost analysis were examined.

Results: During 3 years since the initial policy change 92.5% patients were treated with spacers throughout their hospital stay (emergency department and pediatric ward). Costs were reduced by an estimated 63%.

Conclusions: In view of its many advantages, replacing nebulizers by MDI+S for the treatment of acute asthma is, feasible, if performed in collaboration with the staff, hospital authority and patients.

[PubMed Disclaimer](#)

<https://pubmed.ncbi.nlm.nih.gov/9308864/>

Review > Arch Pediatr Adolesc Med. 1997 Sep;151(9):876-82.

doi: 10.1001/archpedi.1997.02170460014003.

Metered-dose inhaler accessory devices in acute asthma: efficacy and comparison with nebulizers: a literature review

I Amirav¹, M T Newhouse

Affiliations + expand

PMID: 9308864 DOI: 10.1001/archpedi.1997.02170460014003

Abstract

Objectives: To evaluate the current literature about the efficacy of providing inhaled medications by metered-dose inhalers and accessory devices (MDI/ADs) to children with acute asthma and to compare it with the current standard of care, small-volume nebulizers (SVNs).

Data sources: Online computer and manual searches in English-language journal articles published between 1980 and 1996.

Study selection: Seventeen prospective clinical trials that have used MDI/ADs in the treatment of acute asthma in children were retrieved. Ten randomized controlled studies that included a comparison with SVN treatment were selected.

Data extraction: Studies were assessed qualitatively by their subject characteristics, design, intervention procedures, outcome measures, and results.

Data synthesis: There were marked variations in types of MDI/ADs and in doses administered between and within studies. Major outcome measures included pulmonary function measurements and clinical scores. All studies found MDI/ADs to be effective in the treatment of infants and children with acute asthma. Among those who compared this treatment with SVN, 2 found the MDI/AD superior and the rest found it as effective as the SVN.

Conclusions: The data support the effectiveness of MDI/ADs as first-line treatment in acute childhood asthma. In view of clinical benefit, safety, lower cost, personnel time, and speed and ease of administration of MDI/ADs compared with SVNs, MDI/ADs should be considered the preferred mode of treatment of children with acute asthma.

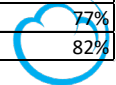


**SPACE
CHAMBER**

Financial

- ▶ WAC offers savings compared to leading brands
- ▶ Minimum 2 case order quantity (minimal capital investment)
- ▶ Increase sourcing options to build consistency of habit
- ▶ Backorders are common in this product category

NDC	Brand Name	Generic Name	Labeler Name	WAC Package Price	%
42135-0100-00	COMPACT SPACE CHAMBER	inhaler, assist devices	MEDICAL DEVELOP	\$ 5.40	
04351-0985-10	AEROCHAMBER MV	inhaler, assist devices	MONAGHAN MEDICA	\$ 8.19	52%
04351-0797-50	AEROCHAMBER Z-STAT PLUS	inhaler, assist devices	MONAGHAN MEDICA	\$ 8.82	63%
04351-0798-10	AEROCHAMBER PLUS FLOW-VU	inhaler, assist devices	MONAGHAN MEDICA	\$ 11.41	111%
42135-0100-01	COMPACT SPACE CHAMBER	inhaler,assist device with small mask	MEDICAL DEVELOP	\$ 12.95	
42135-0100-02	COMPACT SPACE CHAMBER	inhaler,assist device with medium mask	MEDICAL DEVELOP	\$ 12.95	
42135-0100-03	COMPACT SPACE CHAMBER	inhaler,assist device with large mask	MEDICAL DEVELOP	\$ 13.70	
08373-7478-00	OPTICHAMBER DIAMOND	inhaler, assist devices	PHILIPS RESPIRO	\$ 16.16	199%
04351-0858-10	AEROVENT PLUS	inhaler, assist devices	MONAGHAN MEDICA	\$ 17.56	225%
04351-0887-10	AEROCHAMBER Z-STAT PLUS	inhaler,assist device with small mask	MONAGHAN MEDICA	\$ 17.64	36%
04351-0787-10	AEROCHAMBER Z-STAT PLUS	inhaler,assist device with medium mask	MONAGHAN MEDICA	\$ 17.64	36%
04351-0807-10	AEROCHAMBER Z-STAT PLUS	inhaler,assist device with large mask	MONAGHAN MEDICA	\$ 19.29	41%
08373-9823-00	OPTICHAMBER DIAMOND	inhaler,assist device with small mask	PHILIPS RESPIRO	\$ 24.16	86%
08373-9826-00	OPTICHAMBER DIAMOND	inhaler,assist device with medium mask	PHILIPS RESPIRO	\$ 24.16	86%
04351-0889-10	AEROCHAMBER PLUS FLOW-VU	inhaler,assist device with medium mask	MONAGHAN MEDICA	\$ 24.26	86%
04351-0808-10	AEROCHAMBER PLUS FLOW-VU	inhaler,assist device with large mask	MONAGHAN MEDICA	\$ 24.26	77%
08373-9827-00	OPTICHAMBER DIAMOND	inhaler,assist device with large mask	PHILIPS RESPIRO	\$ 24.96	82%



**SPACE
CHAMBER**

Marketing

- ▶ Market share growth opportunity
 - ◆ Convert existing orders for cost savings /profit
 - ◆ Grow market share with education and targeted initiatives
 - ◆ Possible disruption of brand with ~40% market share
- ▶ Field Force collaboration with specific targets/messaging (MDI and existing partnerships)
- ▶ Collaborative marketing spend budget from MDI
- ▶ Bundling initiatives based on existing respiratory sales
 - ◆ See attached resources



Space Chamber™ Vs Competitors



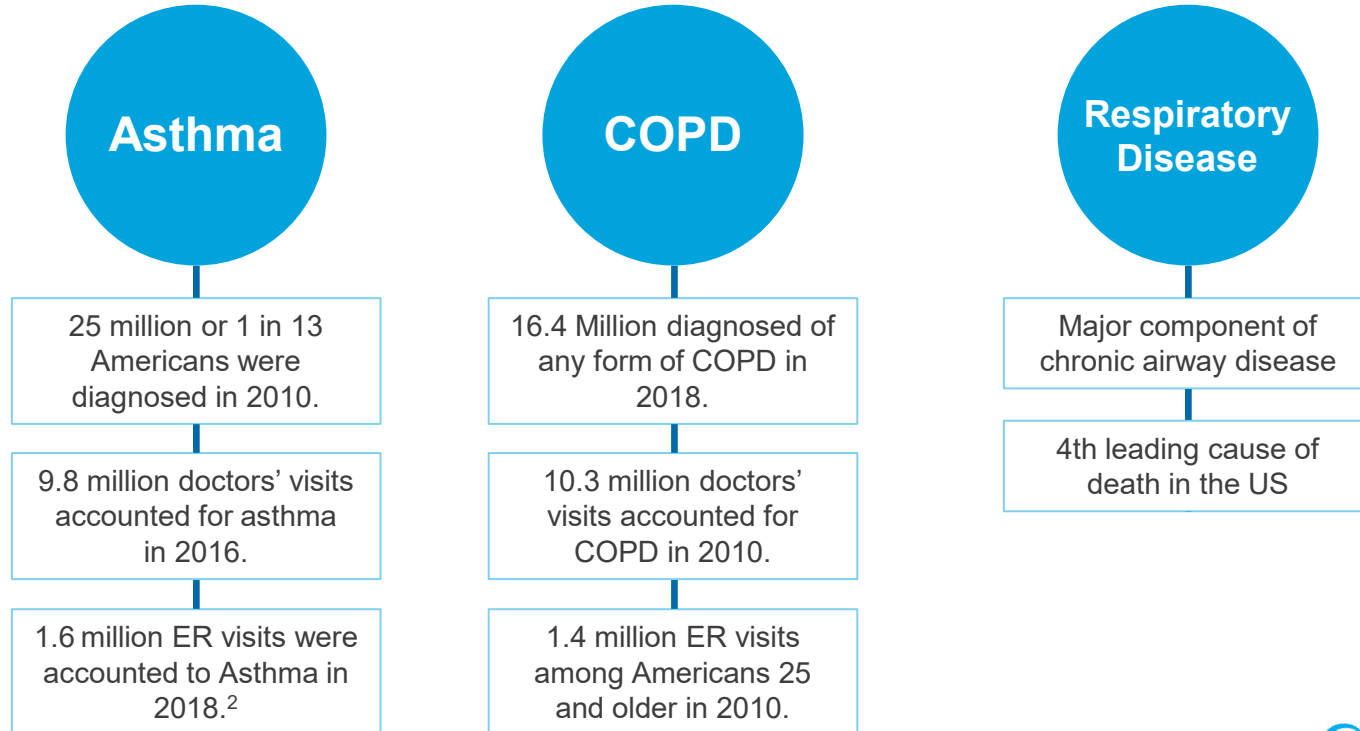
Parameters	Space Chamber	AeroChamber	Optichamber
Extensive range	✓	✓	✗
Correct use indicator (whistle or similar)	✗	✓	✓
Valve action visibility	✓	=	=
Low Resistance Cross Valve Technology™	✓	✗	✗
Dishwasher safe (cleaning convenience)	✓	✓	✗
Anti-static masks	✓	✓	✗
Mask range (small, medium, large)	✓	✓ (not interchangeable)	✗
Price	\$	\$\$	\$



All asthma & COPD patients should be using a spacer/valved holding chamber with their pMDI¹...

...but how many are?

Asthma & Chronic Obstructive Pulmonary Disease (COPD) are chronic respiratory conditions that are associated with a significant economic costs.¹



Consider every asthma or COPD patient – age and sex

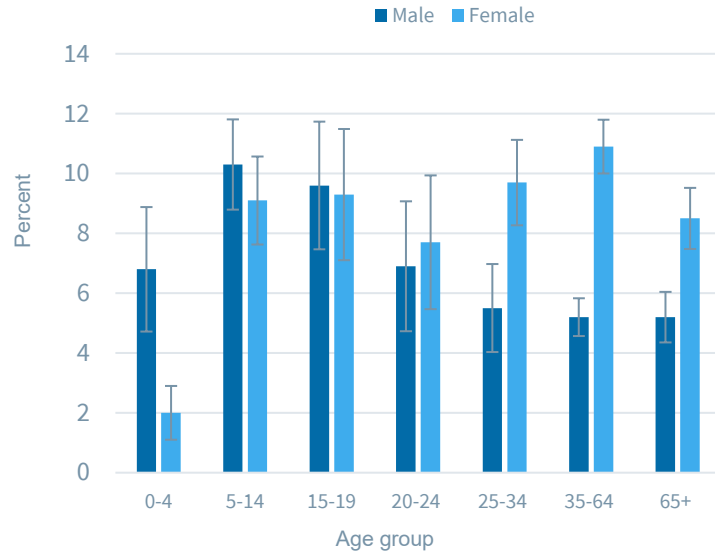


Figure 1: Extracted from CDC: Prevalence of asthma, by sex and age, 2017 ¹

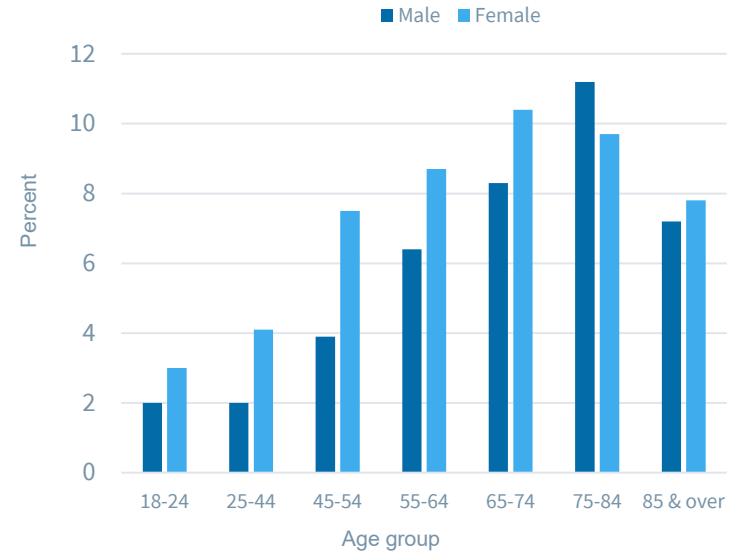
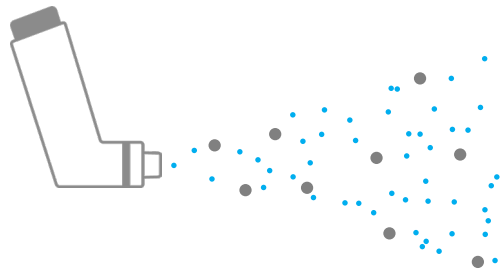


Figure 2: Extracted from CDC: Prevalence of COPD, by sex and age, 2007–09²



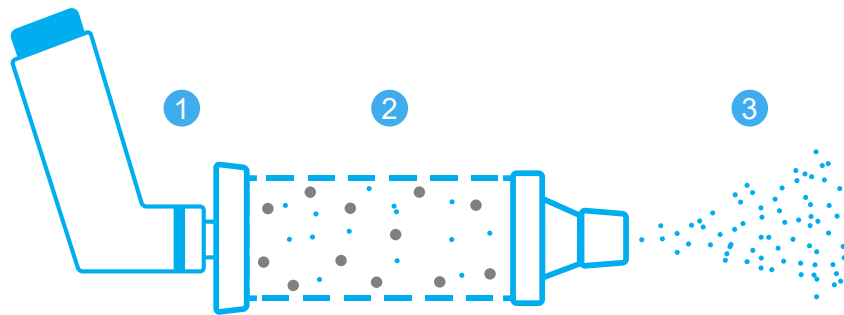
Why do spacers matter?

pMDI Alone



Aerosolized medication from an inhaler consists of large and small particles, delivered at high speed, usually over 90KM/PH¹ .

pMDI with Spacer Device²



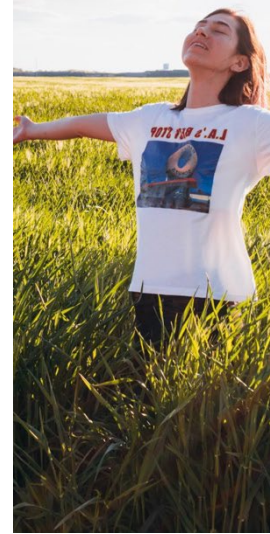
1. Large and small particles from the puffer enters the spacer
2. Particles slow down, Large particles disperse, small particles stay suspended
3. Only small particles exit from the spacer as fine mist into the patient's lungs



Inhalers alone usually only deliver 1/5 of the prescription medication into the lungs.¹

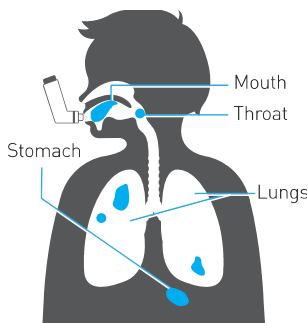


- Without a spacer, pMDI devices are likely used sub-optimally, however only 15% of asthma and 40% of COPD patients use a valved holding chamber.
- One of the significant weaknesses of pMDI devices is their tendency to be used sub-optimally or incorrectly.¹
- Maximizing drug deposition using a pMDI requires the following conditions:
 - A slow (30 L/min), deep inhalation starting immediately after pMDI activation.²
 - Holding breath of ≥ 4 s and optimally up to 10 s.²
- 5 - 10% of patients treated with Inhaled Corticosteroids (ICSs) report adverse effects in the mouth & throat resulting in immediate discomfort and poorer treatment adherence⁴



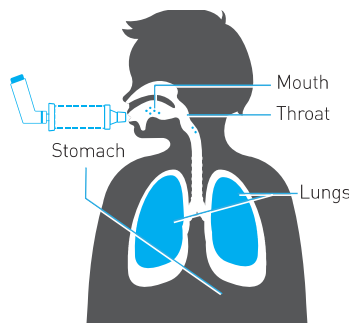
Reduce problems with poor inhaler technique

pMDI Alone



- Less drug delivered to the lower airways¹
- More drug is deposited in the mouth & throat^{2,3}

pMDI with Spacer Device



- Improve inhaler technique²
 - More drug delivered to the lower airways⁴
 - Less drug is deposited in the mouth & throat.^{2,3}
- ✓ Reduces the requirement to coordinate inhalation with actuation²
 - ✓ Increase lung deposition of medication²
 - ✓ Reduce likelihood of adverse events such as oral candidiasis^{2,3}



Space Chambers, creating more than just a spacer



The Space Chamber® Anti-static Spacer is a hand-held, portable valved holding chamber (VHC), that is placed between a pressurized metered dose inhaler (pMDI) and the patient's mouth, to function as a reservoir from which an aerosol medication is dispensed to minimize delivery of large aerosolized particles.¹

Cross Valve Technology™

- Valve opens upon inhalation
- Provides assurance that medication is being inhaled correctly



- Valve closes upon exhalation
- Easy to exhale through the mouthpiece

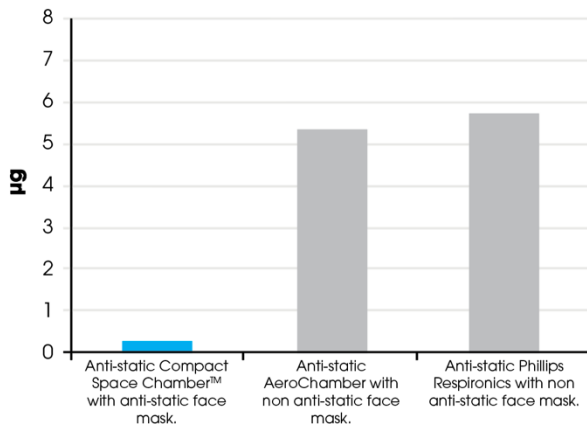
- Space Chamber® spacers contain a one-way valve behind the mouthpiece which is based on Cross Valve Technology™
- The Cross Valve Technology™:
 - Features a robust designed valve that works effectively when the spacer is held at different angles.
 - Ensures a very low resistance when inhaling your medication.
 - Allows you to easily breathe out through the chamber.
 - Prevents exhaled breath from re-entering the spacer.
 - Visually track inhalation through the clear window.



Antistatic properties, no priming required¹

- One known cause of variable dose delivery from spacers is static charge.²
- Spacers that are highly charged with static forces deliver less drug compared to those spacers with an antistatic coating.²
- Unlike non-antistatic spacers, Space Chamber[®] spacers and the antistatic facemask can be used straight out of the box, without the need for priming or washing before first use.¹
- Space Chamber[®] antistatic spacer and antistatic facemask combination delivers a full antistatic journey of medication from pMDI to the lungs.¹

Deposition of pMDI medication on a face mask per actuation⁴



Anti-Static Compact Space Chamber®

Rx Only



BENEFITS

Antistatic no priming required – reduces medication waste
Can be used straight out of the pack

Dishwasher safe for convenient and easy cleaning

BPA and Latex free

Fits pMDI's with standard 22 mm diameter fitting and most face masks including the Compact Space Chamber™ anti-static masks available for ages newborn -adult

1 year guarantee, 3-year minimum shelf life

Product Name	Size	UPC#	NDC#	WAC
Anti-static Compact Space Chamber™	1	842135100008	42135 0100 00	\$5.40

Anti-Static Compact Space Chamber® & Mask Combination Pack

Rx Only



BENEFITS

Antistatic no priming required – reduces medication waste
Can be used straight out of the pack

Dishwasher safe for convenient and easy cleaning

BPA and Latex free

Fits pMDI's with standard 22 mm diameter fitting and most face masks including the Compact Space Chamber™ anti-static masks available for ages newborn -adult

1 year guarantee, 3-year minimum shelf life

Convenient value packs are cheaper to purchase than purchasing the spacer and mask separately

Product Name	Size	UPC#	NDC#	WAC
Anti-static Compact Space Chamber™ with Small Anti-static Mask	1	842135100084	42135 0100 08	\$12.95
Anti-static Compact Space Chamber™ with Medium Anti-static Mask	1	842135100091	42135 0100 09	\$12.95
Anti-static Compact Space Chamber™ with Large Anti-static Mask	1	842135100107	42135 0100 10	\$13.70



Key messages – Opportunity Market Share Growth and Clinical Cost Savings

Clinical guidelines state a pMDI should be used with a spacer device,

yet only **15%** of asthma patients



and **40%** of COPD patients use a spacer.^{2,3}



- Asthma & COPD contribute considerably to the population's disease burden.¹
- Space Chamber® spacers increase the delivery of the drugs respirable fraction and decrease coarse particle deposition.⁶
- A spacer can increase drug delivered to the lower airways and reduce likelihood of local adverse effects of the mouth and throat.^{4,5}
- When recommending a valved holding chamber, anti-static coating and cross valve technology provide additional benefits.



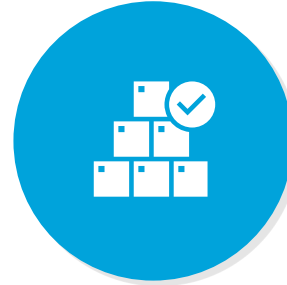
Summary of KSMs



**MDI provides
high quality,
clinically
proven
products**



**MDI's global
scale allows
highly cost
competitive
pricing**



**MDI holds
SpaceChamber®
stock in the US
with all key
wholesale
partners**



**MDI is a proven
spacer partner of
choice across
sales, marketing,
education and
branding**

Distributors:

Product Name	Generic Name	Size	ITEM #	NDC #	WAC
Compact Space Chamber	Inhaler Assisted Device	1	842135100008	42135-0100-00	\$ 5.40
Compact Combo Pack w/ Anti Static Small Silicone Mask	Inhaler Assisted Device plus mask	1	842135100084	42135-0100-08	\$ 12.95
Compact Combo Pack w/ Anti Static Medium Silicone Mask	Inhaler Assisted Device plus mask	1	842135100091	42135-0100-09	\$ 12.95
Compact Combo Pack w/ Anti Static Large Silicone Mask	Inhaler Assisted Device plus mask	1	842135100107	42135-0100-10	\$ 13.70
Amerisource Bergen					
Compact Space Chamber	Inhaler Assisted Device	1	10165336	42135-0100-00	
Compact Combo Pack w/ Anti Static Small Silicone Mask	Inhaler Assisted Device plus mask	1	10233910	42135-0100-08	
Compact Combo Pack w/ Anti Static Medium Silicone Mask	Inhaler Assisted Device plus mask	1	10233903	42135-0100-09	
Compact Combo Pack w/ Anti Static Large Silicone Mask	Inhaler Assisted Device plus mask	1	10233809	42135-0100-10	
Anda Pharmaceuticals, Inc.					
Compact Space Chamber	Inhaler Assisted Device	1	854480	42135-0100-00	
Compact Combo Pack w/ Anti Static Small Silicone Mask	Inhaler Assisted Device plus mask	1	854578	42135-0100-08	
Compact Combo Pack w/ Anti Static Medium Silicone Mask	Inhaler Assisted Device plus mask	1	854579	42135-0100-09	
Compact Combo Pack w/ Anti Static Large Silicone Mask	Inhaler Assisted Device plus mask	1	854580	42135-0100-10	
Cardinal Health					
Compact Space Chamber	Inhaler Assisted Device	1	5256433	42135-0100-00	
Compact Combo Pack w/ Anti Static Small Silicone Mask	Inhaler Assisted Device plus mask	1	5599394	42135-0100-08	
Compact Combo Pack w/ Anti Static Medium Silicone Mask	Inhaler Assisted Device plus mask	1	5599402	42135-0100-09	
Compact Combo Pack w/ Anti Static Large Silicone Mask	Inhaler Assisted Device plus mask	1	5599410	42135-0100-10	
McKesson					
Compact Space Chamber	Inhaler Assisted Device	1	3597879	42135-0100-00	
Compact Combo Pack w/ Anti Static Small Silicone Mask	Inhaler Assisted Device plus mask	1	3597861	42135-0100-08	
Compact Combo Pack w/ Anti Static Medium Silicone Mask	Inhaler Assisted Device plus mask	1	3597853	42135-0100-09	
Compact Combo Pack w/ Anti Static Large Silicone Mask	Inhaler Assisted Device plus mask	1	3597846	42135-0100-10	

Other distributors include:

Anda; Cardinal@ Home; Louisiana Drug; Edge Park; Kinray; Value Drug; South Points; Prescription Supply; Masters Rx as of 9/10/23.

Local source contracts are available. Inquire if annual is over 80,000 for further discounts.

MDI supports market share growth with personalized marketing materials and budget spend.



Contact Information:

Medicaldev.com

National Account Manager – Institutions

Steph Hall

shall@medicaldev.com

803-220-6144



**How can MDI partner to help more
members help their patients?**

Medical Developments International (MDI) is one of Australia's leading specialized healthcare companies since 1971.

MDI

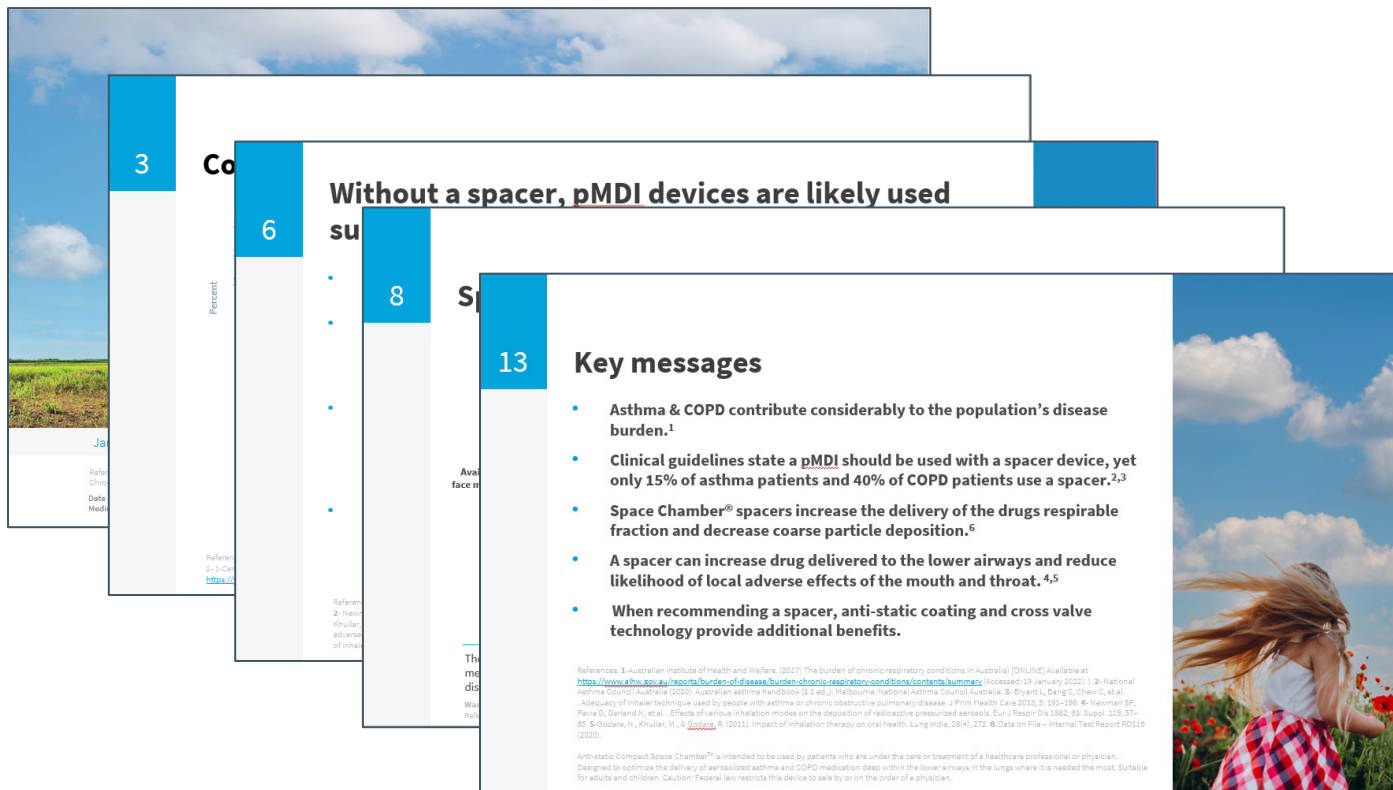
- MDI offers a complete range of Brand and Private label products to optimize Asthma/COPD treatment in patients of all ages from neonates through adults.
- MDI has been operating in the USA since 2016 with substantial growth in all years
- MDI offers a full line of patented high quality and low-cost respiratory devices for use with a standard Asthma/COPD Inhaler.
- MDI currently has both Direct, Local and International distributors in USA/Canada, Europe, Asia and Australia – under the Space Chamber (Global) and Breath-A-Tech (Australian) brands.

Space Chamber

- Antistatic Spacers and Antistatic masks are available in pharmacies, hospitals, medical practices and Aged Care facilities domestically and internationally.
- Proprietary low resistance, one-way Cross Valve Technology is allows visible valve action confirmed through a transparent chamber allowing a patient to see rather than relying on hearing
- Interchangeable antistatic masks fit standard 22mm diameter pMDI inhalers and provide full antistatic delivery to reduce medication waste and side effects for patients.
- 1 year manufacturer guarantee, 3+ year shelf life



Available Tools – Clinical Education



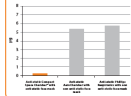
Generic Fliers

Optimize the delivery of asthma & COPD medication!

Benefits of an Anti-static space chamber & face mask:

- ✓ No priming required before use
- ✓ Less medication wastage
- ✓ Optimize respirable dose

Reduced drug deposition on space chamber & face mask*



Anti-static Compact Space Chamber™ range



Now on VGM Contract #: VGMMDI2021

Benefits of Cross Valve Technology™

Provides low resistance when inhaling the medication

- ✓ Valve closes upon inhalation
- ✓ Provides assurance that medication is being inhaled correctly
- ✓ Valve closes upon exhalation
- ✓ Easy to exhale through the medication



Ordering Information

Product Name	Anti-static Compact Space Chamber™	42103-0100-00
Condition Code	NSC	
Product Name	Anti-static Compact Space Chamber™ with Small Anti-static Mask	42103-0100-00
Condition Code	NSC	
Product Name	Anti-static Compact Space Chamber™ with Medium Anti-static Mask	42103-0100-00
Condition Code	NSC	
Product Name	Anti-static Compact Space Chamber™ with Large Anti-static Mask	42103-0100-00
Condition Code	NSC	

*Based on data from a study comparing the deposition of medication on the space chamber and face mask of the Anti-static Compact Space Chamber™ range with the Anti-static Compact Space Chamber™ range.

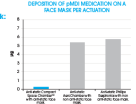
OPTIMIZE THE DELIVERY OF ASTHMA & COPD MEDICATION

THE DIFFERENCE A SPACER MAKES*

- ✓ **A SPACER IS EASY TO USE**
 - Most of the medication comes into the mouth and does not get lost in the throat
 - Small particles reach the lungs
 - A small propellant is used to deliver the drug
 - The drug is trapped in the mouth and gets inhaled
- ✓ **CONNECT USE OF A SPACE CHAMBER WITH A MASK**
 - More medication delivered to the lungs (up to 50% more)
 - Reduces wastage of medication
 - Convenient for people with coordinating difficulties
 - Reduces medication deposition in mouth and throat

Benefits of an Anti-static space chamber with Anti-static face mask:

- ✓ No priming required before use
- ✓ Less medication wastage
- ✓ Optimize respirable dose
- ✓ Creates a full Anti-static pathway for medication



Available on MHA, Navigator and AHP Contracts



AVAILABLE ON MHA CONTRACT #MDIMHA21

ANTI-STATIC COMPACT SPACE CHAMBER™ RANGE



ORDERING INFORMATION	I ₂ Only	NSC Code	42103-0100-00
Product Name	Anti-static Compact Space Chamber™	NSC	
Product Name	Anti-static Compact Space Chamber™ with Small Anti-static Mask	42103-0100-00	
Product Name	Anti-static Compact Space Chamber™ with Medium Anti-static Mask	42103-0100-00	
Product Name	Anti-static Compact Space Chamber™ with Large Anti-static Mask	42103-0100-00	

*Based on data from a study comparing the deposition of medication on the space chamber and face mask of the Anti-static Compact Space Chamber™ range with the Anti-static Compact Space Chamber™ range.

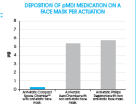
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- ✓ Creates a full Anti-static pathway for medication



Available to Albertsons/ACI through McKesson.



AVAILABLE TO ALBERTSONS/ACI THROUGH MCKESSON, CONTRACT #ACIMD222

ANTI-STATIC COMPACT SPACE CHAMBER™ RANGE



Product Name	Size	NSC Code	NSC Code	NSC Code	Albertsons/ACI
Compact Space Chamber	I ₂ Only	42103-0100-00	NSC		
Compact Space Chamber with Anti-static Small Anti-static Mask	SMALL	42103-0100-00	NSC		
Compact Space Chamber with Anti-static Medium Anti-static Mask	MEDIUM	42103-0100-00	NSC		
Compact Space Chamber with Anti-static Large Anti-static Mask	LARGE	42103-0100-00	NSC		

*Based on data from a study comparing the deposition of medication on the space chamber and face mask of the Anti-static Compact Space Chamber™ range with the Anti-static Compact Space Chamber™ range.

Available to Albertsons/ACI through McKesson.

Pharmacist awareness tools

[illegible][illegible]

Patient Education – Tear-off Pad

SPACE CHAMBER How could you benefit from a spacer?

Improves medication delivery



Inhalers usually only deliver 1/5 of medication into the lungs!

Additional benefits of spacer use

POOR INHALER TECHNIQUE **SOLVED WITH SPACER**

With a spacer there's no need to worry about poor inhaler technique or coordination!



Great for kids, the elderly and everybody inbetween.¹

90% of patients using a spacer showed improved asthma control!^{2*}

↑2x the overall antiasthmatic effect of treatment when spacer is used!^{2*}

*budesonide 400 and 1600µg/day in 35 asthmatic adults

Inhaler used by itself¹ **Inhaler used with a spacer¹**



- Medication collects inside the mouth and throat
- Some medication is lost to the air
- Only a small proportion reaches the lungs



- More medication reaches deep into the lungs
- Reduces medication wastage
- Overcomes poor inhaler technique

Anti-static Compact Space Chamber™ is intended to be used by patients who are under the care or treatment of a healthcare professional or physician. Suitable for adults and children. Do not leave the chamber unattended with children. The Space Chamber Pouch is intended to be used by patients to administer compressed medication from most pressurized metered dose inhalers. Always read the label. **Caution:** Federal law restricts this device to sale by or on the order of a physician. Trademarks and registered trademarks of Medical Developments International Limited & Canbaird Dale, Economy, NC, 4172 Australia. References: 1. Vincken, W., Levy, M., Sullivan, J., Jensen, O., Ockersbergen, P., & Cortez, C. (2010). Spacer devices for inhaled therapy: why use them, and how? *EU Open Respiratory*, 4(2), 2. Toogood, J., et al. Use of spacers to facilitate inhaled corticosteroid treatment of Asthma. *AM Rev Respir Dis*, 159(2):723-729. M010194

SPACE CHAMBER Why choose Space Chamber™?

Benefits of an Anti-Static Compact Space Chamber™



- Cross Valve Technology™** Provides low resistance when inhaling medication
- Transparent Construction** Can see valve action when chamber is used
- Optimize Inhaled Dose** Less medication wastage
- Easy to Clean** Dishwasher safe
- Anti-Static Material** No spacer priming needed

Quick and easy to use*

1. Shake inhaler
2. Insert inhaler into Space Chamber™
3. Place mouthpiece into mouth
4. Depress inhaler and take a deep breath

*Please review complete instructions of use for full details

Rx Ask your doctor for a prescription today!



SMALL MEDIUM LARGE SPACER ONLY

Combination packs include an anti-static mask as standard, delivering a full anti-static path from inhaler to lung.

SCAN TO VIEW THE WHOLE RANGE



Medical Developments International

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Fax: +61 3 9547 0262

SPACE CHAMBER

Patient Education – Tear-off Pad (Equate)

equate™ How could you benefit from a spacer?

Improves medication delivery



Inhalers usually only deliver 1/5 of medication into the lungs!¹

Additional benefits of spacer use

POOR INHALER TECHNIQUE

With a spacer there's no need to worry about poor inhaler technique or coordination!



Great for kids, the elderly and everybody inbetween.*

90% of patients using a spacer showed improved asthma control!²

↑ 2x the overall antiasthmatic effect of treatment when spacer is used!²

*budesonide 400 and 1600µg/day in 35 asthmatic adults

Inhaler used by itself¹



- Medication collects inside the mouth and throat
- Some medication is lost to the air
- Only a small proportion reaches the lungs

Inhaler used with a spacer¹



- More medication reaches deep into the lungs
- Reduces medication wastage
- Overcomes poor inhaler technique

Anti-static Compact Space Chamber™ is intended to be used by patients who are under the care or treatment of a healthcare professional or physician. Suitable for adults and children. Do not leave the chamber unattended with children. The Space Chamber Plura™ is intended to be used by patients to administer aerosolised medication from most pressurised metered dose inhalers. Always read the label. Check the Federal law website for details to use by or on the order of a physician. ¹Trademark and registered trademarks of Medical Developments International Limited & Caribbean One, Sydney VIC, 3179 Australia. ²Reference: J. Franklin, W. Lavy, M. Eadon, L. Bennett, C. Delahunty, S.B. Compton, G. (2013). Spacer device for inhaled therapy: why use them, and how? *BJ Open Research* 4(3), 2. Toogood JH, et al. Use of Spacers to Facilitate Inhaled Corticosteroid Treatment of Asthma. *AM REV RESP DIS* 1984, 120:723-730. M000162

equate™ Why choose Space Chamber™?

Benefits of an Equate Compact Space Chamber™



- Cross Valve Technology™**
Provides low resistance when inhaling medication
- Transparent Construction**
Can see valve action when chamber is used
- Optimize Inhaled Dose**
Less medication wastage
- Easy to Clean**
Dishwasher safe
- Anti-Static Material**
No spacer priming needed

Quick and easy to use*

- Shake inhaler**
- Insert inhaler into Space Chamber™**
- Place mouthpiece into mouth**
- Depress inhaler and take a deep breath**

*Please review complete instructions of use for full details

Rx Ask your doctor for a prescription today!



SMALL MEDIUM LARGE SPACER ONLY

Combination packs include an anti-static spacer + standard silicon mask.

equate™

www.equate.com
Email: Email@equatecompany.com
Tel: 0000 0000
Fax: 0000 0000

Display Materials



OPTIMIZE THE DELIVERY OF ASTHMA & COPD MEDICATION

ANTI-STATIC COMPACT SPACE CHAMBER™ RANGE



Cross Valve Technology™
Provides low resistance when inhaling the medication

Transparent Construction
View valve action through transparent chamber

Easy to Clean
Dishwasher safe

Anti-Static Material
No priming required

Universal Fit
Flexible silicone end cap

Optimize Respirable Dose
Less medication wastage

SCAN TO VIEW THE WHOLE RANGE OR VISIT US.MEDICALDEV.COM






Inhalers usually only deliver 1/5 of medication into the lungs!¹

90% of patients using a spacer showed improved asthma control²*

*Randomised dose and frequency study in 35 asthmatic adults

↑2x the overall antiasthmatic effect of treatment when spacer is used²*

Great for kids, the elderly and everybody inbetween.¹





US Website



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Anti-static Compact Space Chamber™

- Cross Valve Technology™
- Aerosol equivalency to leading US brands
- Mechanically compatible with all pMDIs
- Not made with natural rubber latex, BPA, phthalates and PVC
- Available in mouthpiece, small, medium and large mask

News

MVP signs major deal with

MVP FY16 Annual Report Meeting

MVP Signs Exclusive License Agreement with Purdue Pharma Pentrox in Canada

Medical Developments International

Improving aerosol drug delivery for those with asthma and COPD



Medical Developments International North America is a subsidiary of Medical Developments International (MDI), a global manufacturer of innovative healthcare products.

Medical Developments International is focused on high quality products to improve respiratory care. These include anti-static valved holding devices (VHCs) for the delivery of asthma and COPD medications, and flow meters for measuring SpO₂.



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The Features of Anti-static Compact Space Chamber™

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Anti-static Chamber:
Transparent, to allow clear view of valve movement and direct confirmation of correct usage by patients. Anti-static, to help maximize aerosol suspension time and can be used straight out of package.

Dishwasher-safe.

1 year warranty.

Multipurpose Mouthpiece.

- Can be used with standard 22 mm outer diameter mouthpiece fittings.
- Oval-shaped for greater patient comfort.

Cross Valve Technology™:
Designed to provide low resistance to allow easy inhalation of medication and exhalation through the chamber.

Safe and Effective.
Not made with natural rubber latex, BPA, PVC and phthalates.

Universal Inhaler Base:
Compatible with most brands pressurized metered dose inhaler (pMDI)

Compact Space Chamber™
with cross valve technology™

MEDICAL DEVELOPMENTS INTERNATIONAL LIMITED
SINGLE PATIENT USE / Anti-static / Not made with BPA or phthalates