Preferences of Patients for Portable Spacer Devices Compared to Metered Dose Inhaler Alone

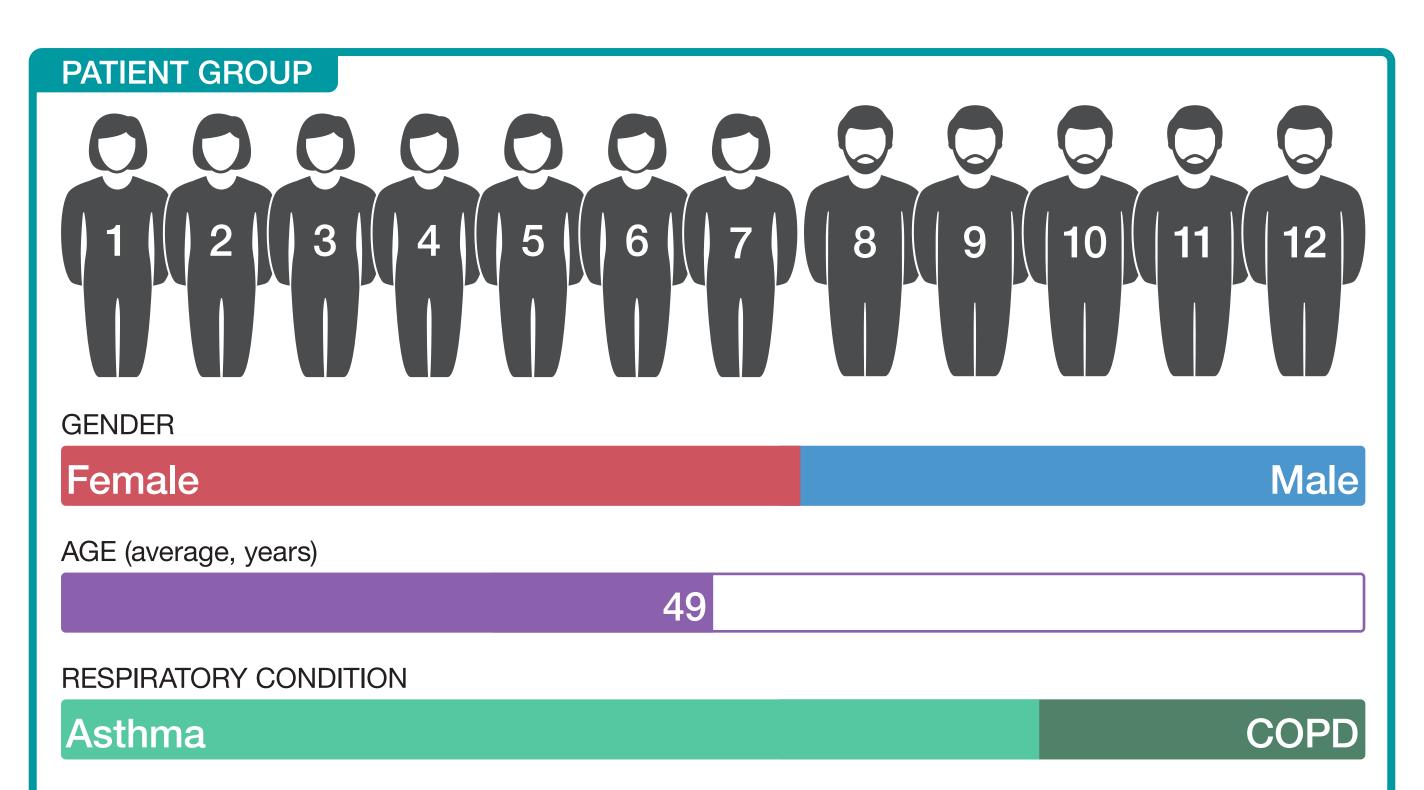
Suggett J, Ellery A, Meyer A
Trudell Medical International, London, Canada.

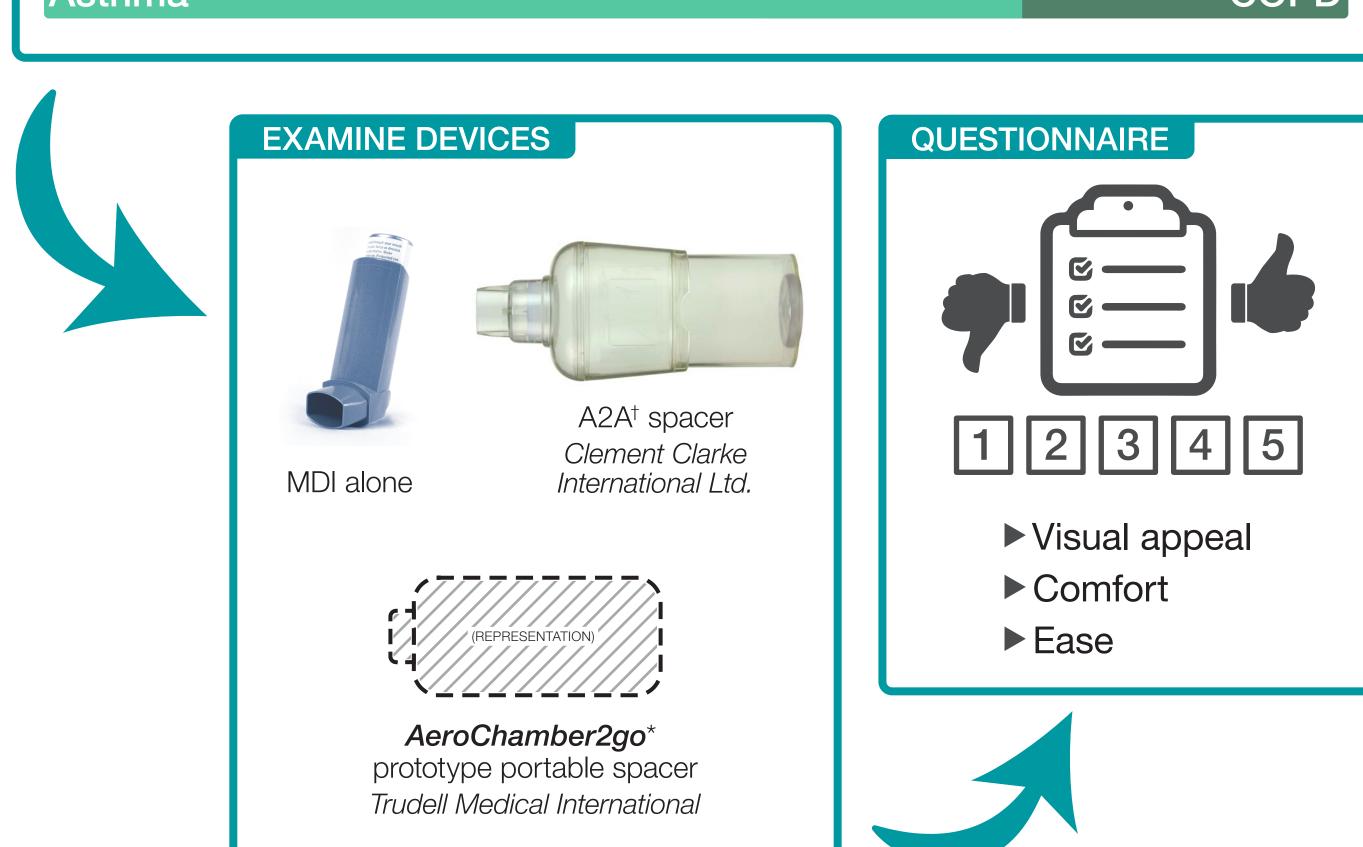
RATIONALE

- The majority of patients have poor inhaler technique, with the ability to coordinate actuation with inhalation being one of the most common errors.^{1,2}
- Despite this, many adults do not use spacers for the delivery of inhaler medication, especially while on the go.
- Potential reasons for not using spacers include portability and appearance
- The aim of this usability/preference study was to understand patient perceptions of two portable spacer devices compared to the metered dose inhaler (MDI) when used alone.

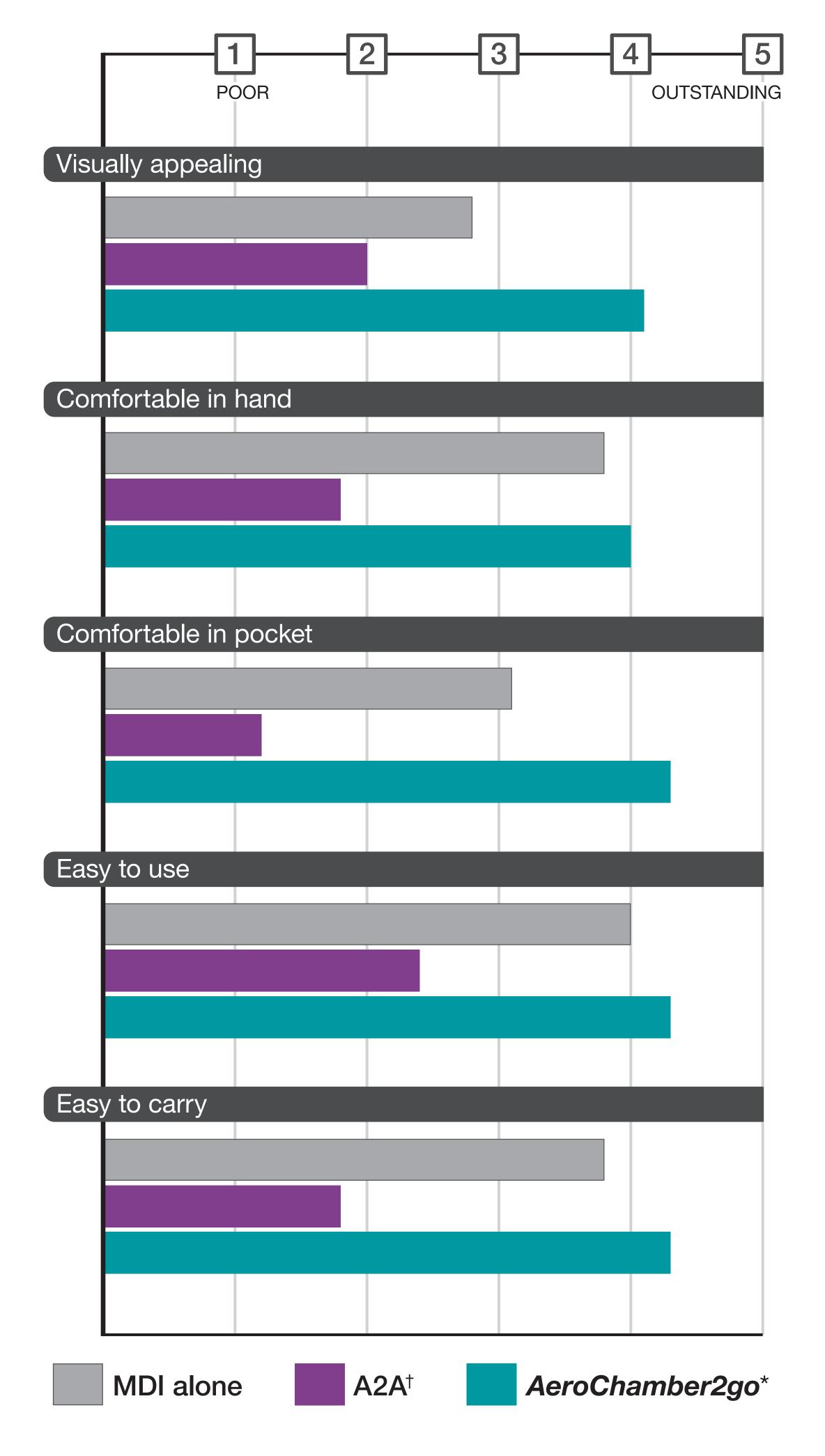
METHODS

- 12 patients were recruited to examine an MDI and
 2 different spacer devices
- Patients were then asked to provide preference data, via questionnaire, with respect to comfort, ease of handling, and visual appeal

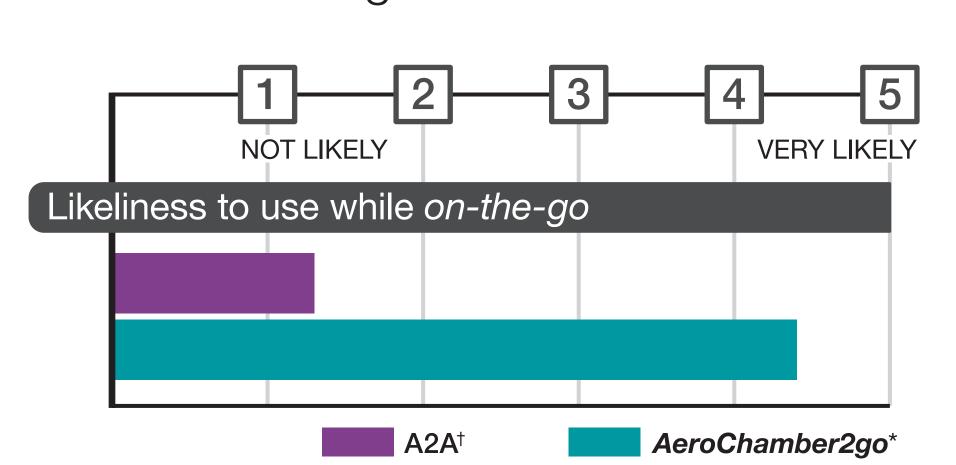




RESULTS



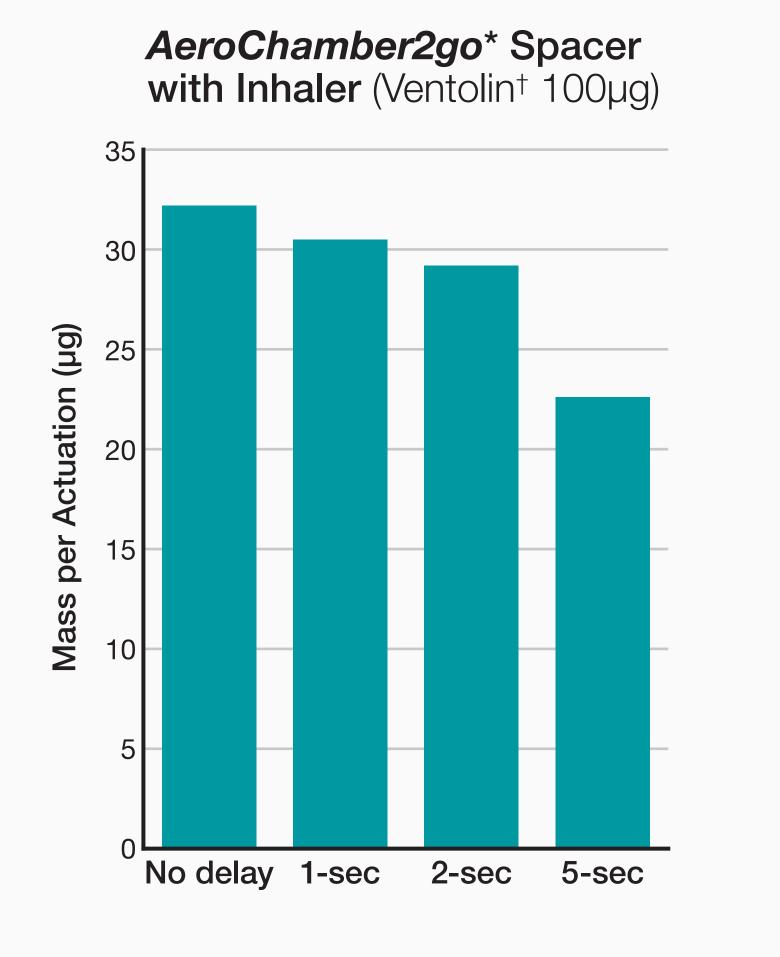
- Device preference study showed
 AeroChamber2go* prototype was preferred by patients compared to the A2A† spacer
- AeroChamber2go* device was preferred to the MDI alone in terms of visual appeal and comfort in pocket
- Patients reported being very likely to use the *AeroChamber2go** device while on the go

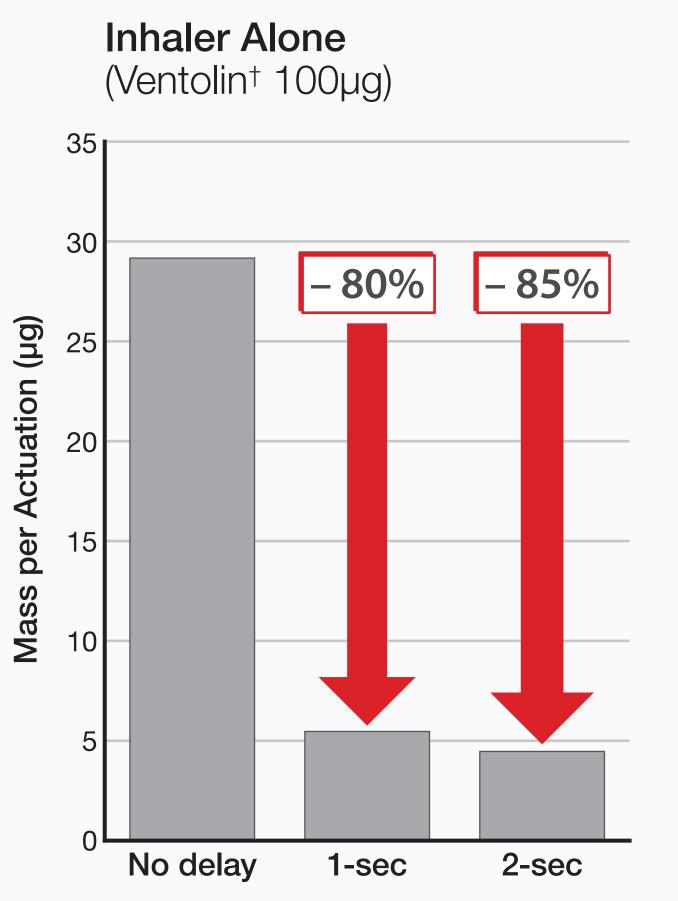


CONCLUSION

The prototype **AeroChamber2go*** spacer device was preferred by patients compared to the A2A[†] spacer and provides a good option for patients currently using the Metered Dose Inhaler without a spacer while on-the-go.







- When the inhaler was used alone, even a 1-second inhalation delay reduced medication delivery to the filter (carina) by approximately 80% compared to perfect coordination (0-seconds delay).
 - 45% of people using a metered dose inhaler alone do not coordinate actuation with inhalation.²
- The prototype *AeroChamber2go** device had similar delivery to the MDI alone (perfect coordination) after 2-seconds delay and even after a delay of 5-seconds was only reduced by 20%.



1 GINA – Global Strategy for Asthma Management and Prevention 2019.

improved over time? CHEST 2016;150:394-406.

2 Sanchis J, et al. Systematic review of errors in inhaler use: Has patient technique

pressurized metered dose inhaler used with and without a new prototype portable valved

holding chamber. Presented at the European Respiratory Society Annual Conference

