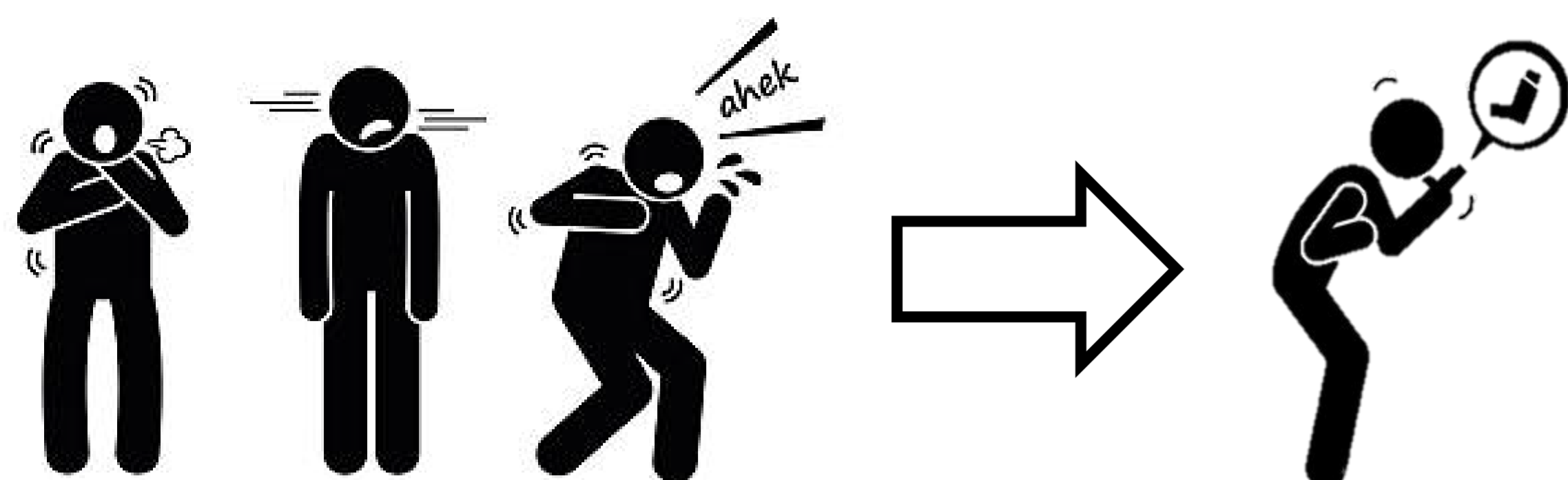


# Response profiles to a Motivational Communication-based inhaled corticosteroid adherence intervention in adults with asthma



## BACKGROUND



- Daily adherence to inhaled corticosteroids (ICS) is critical for achieving optimal asthma control
- However, adherence is generally low
- An ↑ of **1 canister/year (8%)** = 21% decrease in asthma-related mortality
  - clinically significant

## OBJECTIVE

Determine the characteristics of patients who achieved the target increase in adherence level (succeeded) following a brief Motivational Communication-based intervention

## METHODS

- 14 adult patients with physician-diagnosed asthma
  - Poorly controlled (M ACQ score  $\geq 0.8$ )
  - Non-adherent (%ICS  $\leq 50$ )
- Recruitment in tertiary centre
- Nonparametric tests were used to determine the response profile of those who attained, vs. didn't, the targeted increase in adherence at 1 year follow-up (**8% or more**).

## Participants' characteristics

	Total (n=14)
Age $\pm$ SD	51.4 $\pm$ 4.9
Men, n [%]	7 [50]

Less than half the sample (43%) reached the target

## RESULTS

	Success (n=6)	No success (n=8)
BMI $\pm$ SD	29.1 $\pm$ 3.9	27.1 $\pm$ 5.6
Years living with asthma diagnosis, M $\pm$ SD	27.2 $\pm$ 25.6	19.5 $\pm$ 10.5
Have a partner, n [%]	5 [80]	3 [38]
Non-smokers, n [%]	6 [100]	2 [27]
Physical illnesses other than asthma, n [%]	6 [100]	4 [50]
Mental health issues, n [%]	4 [67]	3 [38]
Baseline scores of perceived competence (PCS), M $\pm$ SD	6.1 $\pm$ 1.1	5.5 $\pm$ 1.6
Baseline scores autonomy-support (HCCQ), M $\pm$ SD	5.5 $\pm$ 1.0	4.4 $\pm$ 1.5
Initial asthma control (ACQ), M $\pm$ SD	2.2 $\pm$ 1.1	1.5 $\pm$ 0.8
Asthma-related quality of life (AQLQ), M $\pm$ SD	4.6 $\pm$ 0.7	5.2 $\pm$ 0.9

## CONCLUSIONS

- On average, those who succeeded had higher **BMI**s and had asthma for a longer period of time. They all reported being **non-smokers** and most had a **partner**.
- This group reported more **physical illnesses** other than asthma and **mental health issues** than the group that did not reach the targeted increase in adherence. Those who succeeded also had higher mean baseline scores of **perceived competence**, **autonomy-support**, worse initial **asthma control**, and lower **quality of life**.

Findings suggest that:

- 1) Having higher levels of self-efficacy, perceived autonomy-support, social support and a healthy lifestyle but more health issues may be linked to increased ICS adherence in response to motivational counselling
- 2) This may be due to the benefits of changing being more obvious, patients being more autonomously motivated to change, and being better equipped to face the challenge

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