

OUTER SPACE: a randomised study on inhaler treatment adherence using a smart spacer in adults with asthma

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The investigational treatment, tailored inhaler use education, supported by data generated by a smart spacer, leads to better adherence.

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON24135

Bron

NTR

Verkorte titel

OUTER SPACE-2

Aandoening

asthma

Ondersteuning

Primaire sponsor: UMCG

Overige ondersteuning: Trudell Medical

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

To assess the overall feasibility of undertaking a definitive randomized controlled trial on the

effects of tailored inhaler education by the GP/nurse supported by a smart spacer, in primary care treated adults with asthma

Toelichting onderzoek

Achtergrond van het onderzoek

Aim: To assess the overall feasibility of undertaking a definitive randomized controlled trial of the Smart Spacer device in primary care treated adults with asthma. In particular, we aim to: 1) inform patient recruitment speed, participation rate and sample size calculation for a definitive trial 2) assess patient and healthcare provider satisfaction with the smart spacer and 3) explore the distribution of medication adherence patterns (persistence and inhaler technique) and clinical outcomes.

Smart Spacer: The smart spacer used in this study is the Aerochamber Plus® with Flow Vu®. The smart spacer uses the same components as the existing CE-marked spacer. The smart spacer monitors both persistence and inhalation technique.

Methods: Single center, randomized controlled feasibility trial of 2 months. Patients will be recruited from 4 GP practices in the Netherlands. Patients (n=40) will use the smart spacer for 1 month (t=-1). Then they will be randomized in two groups (t=0). The control group will get usual care, the intervention group will get tailored feedback and education on basis of data from the smart spacer. After 1 month (t=1) the study is ended and patients will get again their usual care.

Outcomes: At t=-1, t=0 and t=1 ACQ, WPAI and TAI questionnaires and FeNO test will be assessed. At t=0 and t=1 a lung function will be tested. At t=1 usability will be analyzed by the SUS questionnaire and structured interviews with 5 patients and all caregivers.

Doel van het onderzoek

The investigational treatment, tailored inhaler use education, supported by data generated by a smart spacer, leads to better adherence.

Onderzoeksopzet

at t=-1, t=0 en t=1 (months) earlier mentioned questionnaires will be taken, spirometry and FeNO test will be performed.

Onderzoeksproduct en/of interventie

the intervention group will receive personalized, tailored education by a GP/nurse supported by data of a smart spacer.

Contactpersonen

Publiek

UMCG
Boudewijn Dierick

0515231770

Wetenschappelijk

UMCG
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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

In order to be eligible to participate in this study, a subject must meet all of the following criteria:

- (1) adults ≥ 18 years;
- (2) physician diagnosed asthma treated in primary care;
- (3) using any inhaled corticosteroid (ICS) (+/-long-acting beta agonist [LABA] +/- short-acting beta agonist [SABA]) administered by a pressurized Metered Dose Inhaler (pMDI) and a spacer;
- (4) willing to sign informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

A potential subject who meets any of the following criteria will be excluded from participation in this study:

- (1) < 18 years;
- (2) exacerbation in the last 3 months (defined as use of antibiotics and/or prednisone short-course and/or admission to a ED or hospital).

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Open / niet geblindeerd
Controle:	Geneesmiddel

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-10-2021
Aantal proefpersonen:	40
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Ja

Toelichting

data available by reasonable request from authors

Ethische beoordeling

Positief advies	
Datum:	30-06-2021
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL9637
Ander register	METC MCL : 2021 00390

Resultaten