

# "Monitoring inhalation technique"

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Videotaping and reviewing inhalation technique with the aid of an iPad improves asthma control in children from 6-18 years old.

|                             |                       |
|-----------------------------|-----------------------|
| <b>Ethische beoordeling</b> | Niet van toepassing   |
| <b>Status</b>               | Werving gestart       |
| <b>Type aandoening</b>      | -                     |
| <b>Onderzoekstype</b>       | Interventie onderzoek |

## Samenvatting

### ID

NL-OMON21392

### Bron

NTR

### Verkorte titel

"Monitoring inhalation technique"

### Aandoening

Asthma management

## Ondersteuning

**Primaire sponsor:** Pediatric lung specialist (Dr BJ Thio)

Medisch Spectrum Twente

**Overige ondersteuning:** Stichting Pediatrisch Onderzoek Enschede (SPOE)

Pediatric ward

## Onderzoeksproduct en/of interventie

## Uitkomstmaten

### Primaire uitkomstmaten

The fall in FEV1 during an ECT, on a trampoline (6-12 year) or a treadmill (12-18 year), will be measured. The endpoint is the fall in FEV1 at the ECT. The ECT performed on a treadmill is according to ATS/ERS recommendations. The ECT's will be performed at the paediatric

department. Children will run, nose clipped, on a treadmill with a 10% to 19, 5% slope, for 3 min period (7 times) with a heart rate at 80% of predicted maximum (210-age). The children less than 12 years perform the ECT on a trampoline. Children will be asked to jump 3 times 2 minutes on a trampoline with a heart rate at 80% of the predicted maximum (210-age).

## **Toelichting onderzoek**

### **Achtergrond van het onderzoek**

The main objective of this study is: to investigate the effect of filming and reviewing with an iPad of the inhalation technique on EIB and compare the results with standard care/treatment in children aged 6-18 years with uncontrolled moderate to severe asthma.

Furthermore we study the Salbutamol use, symptom score between the treatments groups and the relation between demonstrated inhalation technique in the clinic and the videotaped inhalation technique.

### **Doel van het onderzoek**

Videotaping and reviewing inhalation technique with the aid of an iPad improves asthma control in children from 6-18 years old.

### **Onderzoeksopzet**

If children do not send their videoclips for more than three consecutive days they have to return their iPad.

### **Onderzoeksproduct en/of interventie**

The use of an iPad to film and review the inhalation technique.

## **Contactpersonen**

### **Publiek**

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## Wetenschappelijk

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## Deelname eisen

### Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Clinical history of asthma symptoms

Age 6-18 years

Ability to record and send videoclips of inhalation technique with an iPad.

Significant drop in FEV1 during an exercise challenge test (25-30%)

### Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Inability to operate an iPad

## Onderzoeksopzet

### Opzet

Type: Interventie onderzoek

Onderzoeksmodel: Parallel

Toewijzing: N.v.t. / één studie arm

**Controle:** Geneesmiddel

## Deelname

|                         |                      |
|-------------------------|----------------------|
| Nederland               |                      |
| Status:                 | Werving gestart      |
| (Verwachte) startdatum: | 10-05-2014           |
| Aantal proefpersonen:   | 40                   |
| Type:                   | Verwachte startdatum |

## Ethische beoordeling

|                     |                     |
|---------------------|---------------------|
| Niet van toepassing |                     |
| Soort:              | Niet van toepassing |

## 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  | NL4433         |
| NTR-old  | NTR4555        |
| CCMO     | NL48729.044.14 |

## Resultaten

### Samenvatting resultaten

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