

Pneumodilation Or Endoscopic Myotomy in Achalasia (POEMA) Trial.

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The aim of the study is to compare the efficacy of per-oral endoscopic myotomy (POEM) to the efficacy of pneumodilation as the initial treatment of symptomatic idiopathic achalasia. It is hypothesized that POEM has a higher long-term efficacy than...

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

Samenvatting

ID

NL-OMON21319

Bron

Nationaal Trial Register

Verkorte titel

POEMA

Aandoening

Achalasia, Pneumodilation, Per-Oral Endoscopic Myotomy (POEM)

Ondersteuning

Primaire sponsor: AMC Amsterdam (University Medical Centre)

Overige ondersteuning: AMC Amsterdam

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary outcome is treatment succes, defined as:

1. An Eckardt score of 3 or less;

2. The absence of the need for endoscopic or surgical retreatment in the period between the first treatment session (first and optional second dilation within first 3 months) and the endpoint;
3. The absence of severe complications associated with treatment.

Toelichting onderzoek

Achtergrond van het onderzoek

Achalasia is a rare motility disorder of the oesophagus that is characterised by aperistalsis of the oesophageal body and dysrelaxation of the lower oesophageal sphincter caused by progressive destruction and degeneration of the neurons that control the esophageal muscles. Symptoms of achalasia are dysphagia, chest pain, regurgitation and weight loss.

Treatment of achalasia is focused on symptom relief, which is obtained by destroying the occluding function of the spastic lower oesophageal sphincter. Usually, the first choice of treatment is endoscopic dilation of the lower oesophageal sphincter using a pneumatic balloon.

Recently, per-oral endoscopic myotomy has been introduced. With this technique, the circular muscle layers of the lower oesophageal sphincter are cut endoscopically. The first results of open labels studies with endoscopic myotomy are very positive and suggest this treatment may be superior to pneumodilation.

In order to investigate this, we have designed a multicenter randomised controlled trial in which we compare pneumodilation to endoscopic myotomy. Adult patients with symptomatic achalasia that have not been treated before are included. Required sample size is calculated at 130 patients.

Primary endpoint is treatment success, defined as an Eckardt score of 3 or less in the absence of the need for endoscopic or surgical retreatment and the absence of severe complications associated with treatment. Primary endpoint is measured after two years, but follow up is continued up to 5 years. Follow up tests consist of symptom and quality of life questionnaires, upper endoscopy, barium esophagogram, esophageal high-resolution manometry and reflux monitoring using pH-impedance monitoring.

Recruiting countries: The Netherlands, USA, Hong Kong, Italy, Germany.

Doel van het onderzoek

The aim of the study is to compare the efficacy of per-oral endoscopic myotomy (POEM) to the efficacy of pneumodilation as the initial treatment of symptomatic idiopathic achalasia. It is hypothesized that POEM has a higher long-term efficacy than pneumodilation in treatment

of therapy-naïve patients with idiopathic achalasia.

Onderzoeksopzet

1. Baseline:

- A. Venous blood withdrawal;
- B. Questionnaires (SF-36, achalasia-DSQoL, GerdQ and Eckardt);
- C. Timed barium oesophagography;
- D. High Resolution Manometry;
- E. Upper endoscopy.

2. 3 weeks after treatment (only for pneumodilation):

- A. Eckardt;
- B. HRM dependent on Eckardt.

3. 3 months after treatment:

- A. Questionnaires;
- B. Timed barium oesophagography;
- C. HRM.

4. 1 year after treatment:

- A. Questionnaires;
- B. Timed barium oesophagography;
- C. HRM;
- D. Upper endoscopy;
- E. pH-impedance recording.

4. 2 years after treatment:

- A. Questionnaires;
- B. Timed barium oesophagography;

C. HRM;

D. Upper endoscopy.

5. 5 years after treatment:

A. Questionnaires;

B. Timed barium oesophagography;

C. HRM;

D. Upper endoscopy.

Onderzoeksproduct en/of interventie

Therapy-naïve patients with idiopathic achalasia will undergo per-oral endoscopic myotomy (POEM) or pneumodilation, depend on the randomization. The POEM will be performed in one procedure. For the pneumodilation participants will be dilated once or twice, depending on the symptoms that will be evaluated 3 weeks after the first pneumodilation. In case the Eckardt (symptom score for achalasia) is > 3 a second pneumodilation will be performed. If the Eckardt score is < 3 an additional high resolution manometry will be performed to see if a second dilation is necessary.

Before and after the procedure the following interventions will take place for baseline data and the follow-up:

1. Venous blood withdrawal;

2. Upper Endoscopy;

3. Timed barium oesophagography;

4. High Resolution Manometry (HRM);

5. pH-impedance monitoring;

6. Questionnaires (SF-36, Achalasia-DSQoL, GerdQ and Eckardt score).

Contactpersonen

Publiek

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Presence of achalasia, as shown on oesophageal manometry;
2. Eckardt score > 3;
3. Age between 18-80 years;
4. Signed written informed consent;
5. ASA class I or II.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Previous endoscopic or surgical treatment for achalasia, except botulinium toxin injections;
2. Previous surgery of the stomach or oesophagus;
3. Known coagulopathy;
4. Presence of liver cirrhosis and/or oesophageal varices;

5. Presence of eosinophilic oesophagitis;
6. Presence of Barrett's oesophagus;
7. Pregnancy at time of treatment;
8. Presence of a stricture of the oesophagus;
9. Presence of malignant or premalignant oesophageal lesions;
10. Presence of an extremely dilated oesophageal body (>6cm).

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Open / niet geblindeerd
Controle:	Actieve controle groep

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-10-2012
Aantal proefpersonen:	130
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	29-08-2012
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	NL3442
NTR-old	NTR3593
CCMO	NL-40053.018.12
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

N/A