# ASSESSMENT OF THE PERFORMANCE OF THE PILLCAM COLON CAPSULE IN CROHN'S DISEASE BEFORE AND AFTER TREATMENT WITH ANTI-TNF

No registrations found.

**Health condition type** -

**Ethical review** Positive opinion

**Status** Recruiting

**Study type** Interventional

## **Summary**

#### ID

NL-OMON22197

Source

NTR

**Brief title** 

Pillcam 2

**Health condition** 

Crohn's disease, ziekte van Crohn

## **Sponsors and support**

**Primary sponsor:** Academic Medical Center, Amsterdam

Source(s) of monetary or material Support: Given Imaging, Israel.

#### Intervention

#### **Outcome measures**

#### **Primary outcome**

Sensitivity of PCCE2 to detect mucosal changes after treatment with the anti-TNF agents

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(Infliximab or Adalimumab).

#### **Secondary outcome**

Determine inter-observer variability by serial readings of Pillcam recordings (one local reading and one central reading)

Correlations will be analyzed of PCCE 2 findings and serum CRP and fecal calprotectin levels.

# Study description

#### **Background summary**

The goals of treatment in Crohn's disease have evolved in recent years from symptom control to healing of mucosal lesions, usually visualized by endoscopy. Potent therapeutic agents, such as anti-TNF agents, have made restoration of mucosal integrity attainable in a significant proportion of patients. Moreover, anti-TNF therapy was shown to be more effective in patients that had visible ulcers on endoscopy than in patients without such lesions. This means that clinicians are recommended to check for the presence of ulcers before they embark on biological therapy. Finally, endoscopic evaluation of treatment effects in Crohn's disease has entered routine practice. However, endoscopic procedures are time consuming, invasive and unpleasant for the patient. Surrogate markers for the severity of inflammation such as faecal calprotectine are under investigation. Magnetic resonance enterography was shown to nicely parallel with the severity of inflammation seen at endoscopy, but also this diagnostic tool is expensive and time consuming.

The development of a simple alternative to optical colonoscopy to assess mucosal inflammation in patients with Crohn's disease would therefore be of extreme importance. A reliable Pillcam examination is high on the priority list of potential options.

Recently, a multicenter study was performed that assessed safety and feasibility of PCCE-2 in evaluating the severity of mucosal inflammation in patients with ileocolonic Crohn's disease (1). Substantial agreement was found between PCCE-2 and conventional colonoscopy for the assessment of mucosal disease activity. Moreover, PCCE-2 was better tolerated than colonoscopy in these patients.

20 pts with active ileocolonic Crohn's disease undergoing capsule endoscopy using the second generation Pillcam capsule (PCCE 2) instead of a colonoscopy before and 8-12 weeks after treatment initiation with Infliximab or Adalimumab

#### Study objective

The goals of treatment in Crohn's disease have evolved in recent years from symptom control to healing of mucosal lesions, usually visualized by endoscopy. Potent therapeutic agents, such as anti-TNF agents, have made restoration of mucosal integrity attainable in a significant proportion of patients. Moreover, anti-TNF therapy was shown to be more effective in patients that had visible ulcers on endoscopy than in patients without such lesions. This means that clinicians are recommended to check for the presence of ulcers before they 2 - ASSESSMENT OF THE PERFORMANCE OF THE PILLCAM COLON CAPSULE IN CROHN'S DISEASE ...

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#### Study design

Before and 8-12 weeks after the start of treatment with anti-TNF agents

#### Intervention

20 patients with symptoms of active (ileo)colonic Crohn's disease and biochemical evidence of active inflammation (reflected by elevated faecal calprotectin (> 250 ug/g) and/or increased CRP serum levels (i.e. > 5 mg/l)) that need an endoscopic evaluation before starting anti-TNF treatment (Infliximab or Adalimumab) will be invited to take part in this study. Patients will undergo capsule endoscopy using PCCE 2 instead of colonoscopy before starting anti-TNF. After 8-12 weeks of treatment the PCCE-2 procedure will be repeated.

## **Contacts**

#### **Public**

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#### Scientific

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# **Eligibility criteria**

#### Inclusion criteria

Active ileocolonic Crohn's disease with CDAI > 150 points

- Elevated faecal calprotectin >250 ug/g and/or increased CRP levels (> 5 mg/l)
- Colon imaging clinically indicated in order to determine disease activity before embarking on anti-TNF treatment
- Prior documentation of colonic involvement by Crohn's disease in at least two colonic segments and documentation of colonic ulcers
- Ability to give informed consent and willing to undergo 2 Pillcam examination within 4 months

#### **Exclusion criteria**

- Any contraindication for colon capsule examination including swallowing disorders, severe congestive heart failure, renal insufficiency, or co-morbities contraindicating these procedures.
- More than 1 bowel resection for CD
- Previous subtotal or total colectomy
- Active (draining) fistulas
- Proximal small bowel disease
- Known small bowel strictures
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- High suspicion of small bowel strictures or colonic strictures.

  In case of low suspicion of small bowel strictures patients have to undergo a test with the Agile patency capsule approximately 1 week prior to participation in the current study
- Short bowel or all stoma
- Need for MRI before capsule excretion
- Pacemaker or ICD
- Current pregnancy
- Current participation in an experimental clinical study
- Age younger than 18 years

# Study design

### **Design**

Study type: Interventional

Intervention model: Other

Allocation: Non controlled trial

Masking: Open (masking not used)

Control: N/A, unknown

#### Recruitment

NL

Recruitment status: Recruiting

Start date (anticipated): 16-06-2016

Enrollment: 20

Type: Anticipated

# **Ethics review**

Positive opinion

Date: 13-10-2016

# **Study registrations**

## Followed up by the following (possibly more current) registration

ID: 50462

Bron: ToetsingOnline

Titel:

## Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register ID

NTR-new NL5585 NTR-old NTR6177

CCMO NL55599.018.16 OMON NL-OMON50462

# **Study results**