# Study protocol for a randomised clinical trial comparing TREPP versus Lichtenstein\*s technique in Inguinal hernia patients

Published: 17-12-2018 Last updated: 11-04-2024

To asses the hypothesis that chronic postoperative inguinal pain occurs less in patients treated with the TREPP technique

**Ethical review** Not approved **Status** Will not start

Health condition type Skin and subcutaneous tissue therapeutic procedures

Study type Interventional

# **Summary**

#### ID

NL-OMON45767

#### Source

ToetsingOnline

## **Brief title**

TREPPoLi Trial

#### **Condition**

Skin and subcutaneous tissue therapeutic procedures

#### **Synonym**

Inguinal hernia

# Research involving

Human

# **Sponsors and support**

**Primary sponsor:** Medisch Centrum Leeuwarden

Source(s) of monetary or material Support: Adriaan Metiusstichting

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## Intervention

Keyword: Hernia, Inguinal, Lichtenstein, TREPP

# **Outcome measures**

## **Primary outcome**

Chronic postoperative inquinal pain

# **Secondary outcome**

Secondary outcomes are complications, recurrences, sexual complaints, bleeding,

time of return to daily activities and operating time.

# **Study description**

# **Background summary**

The main postoperative complication of inguinal hernia surgery has become chronic postoperative inguinal pain (CPIP), especially present after the Lichtenstein procedure, which is to this day the preferred open technique in the Netherlands and worldwide. New techniques aimed at lowering the percentage of patients who develop CPIP are showing promising first results. One of the conditions of a new technique is that it has to be easy to learn and teach. A new procedure that most likely meets these criteria is the TREPP (transrectus sheath preperitoneal) mesh repair. This sizeable randomized trial compares the TREPP technique to the Lichtenstein's procedure. The TREPPoLi trial aims to contribute to the question: \*what\*s best for patients with a clinically evident, unilateral inguinal hernia, TREPP or Lichtenstein?\*

# Study objective

To asses the hypothesis that chronic postoperative inguinal pain occurs less in patients treated with the TREPP technique

# Study design

TREPPoLi is a multicenter randomised clinical trial (ISRCTN14511362) comparing TREPP versus Lichtenstein from the patients\* perspective next to societal- and hospital perspective. All consecutive patients with a primary unilateral inguinal hernia, eligible for operation, will be invited to participate in the trial. Patients will be randomly allocated to the TREPP mesh repair or to

Lichtenstein\*s procedure in one of the participating expertise centers, after written informed consent is obtained. The primary outcome measure will be presence of chronic postoperative inguinal pain (CPIP) of the TREPP and Lichtenstein patients, measured after 6 months. The total follow-up period is 1 year.

## Intervention

TREPP or Lichtenstein

# Study burden and risks

Two extra visits to the outpatient department as well as multiple questionnaires and physical examination.

# **Contacts**

#### **Public**

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# **Trial sites**

# **Listed location countries**

**Netherlands** 

# **Eligibility criteria**

## Age

Adults (18-64 years)

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Elderly (65 years and older)

# Inclusion criteria

Adults with a clinically apparent primary unilateral inguinal hernia Age > 18 years
ASA classification 1-3
Signed informed consent

# **Exclusion criteria**

Recurrent inguinal hernia bilateral inguinal hernia ASA class 4 Acute incarcerated inguinal hernia psychiatric disease or other reasons making follow-up or questionnaires unreliable previous preperitoneal surgery (e.g. radical prostatectomy)

# Study design

# **Design**

Study type: Interventional

Intervention model: Parallel

Allocation: Randomized controlled trial

Masking: Single blinded (masking used)

Control: Active

Primary purpose: Treatment

# Recruitment

NL

Recruitment status: Will not start

Enrollment: 750

Type: Anticipated

# **Ethics review**

Not approved

Date: 17-12-2018

Application type: First submission

Review commission: RTPO, Regionale Toetsingscie Patientgebonden Onderzoek

(Leeuwarden)

# **Study registrations**

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

No registrations found.

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

No registrations found.

# In other registers

Register ID

Other 14511362

CCMO NL65672.099.18