

Perioperative monitoring of inguinal hernia patients with a smartphone application, a pilot study

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON22945

Source

Nationaal Trial Register

Brief title

TBA

Health condition

Inguinal hernia

Sponsors and support

Primary sponsor: na

Source(s) of monetary or material Support: BARD

Intervention

Outcome measures

Primary outcome

CPIP (chronic postoperative inguinal pain) 3 months post operative

Secondary outcome

Study description

Background summary

Patient Reported Outcomes have become standard in the evaluation of inguinal hernia repair. However, the chosen outcomes remain heterogeneous, the measurements time-consuming or inadequate. Perioperative measurement of pain and recovery could benefit from the contemporary possibilities that mobile health applications offer.

An application for smartphones and tablets was developed using the twitch crowdsourcing concept, classical questionnaires, experiences from randomised clinical trials and patients' input.

Dichotomous questions and numeric rating scales, both pre- and postoperative, were implemented in the freely available Q1.6 application. Content, timing and frequencies were adapted to the inguinal hernia patient's daily life and assumed recovery. Certain combinations of answers were set as alert notifications to detect adverse events. Data is displayed on a web-based dashboard enabling real-time monitoring. Legal aspects were examined and taken into account.

The Q1.6 inguinal hernia app is an innovative tool for perioperative monitoring of pain and recovery of inguinal hernia patients. Previous limitations of classical measurements such as a large heterogeneity, retrospective data recording and different forms of bias can be eliminated. The 'big data' generated in this manner might be used for large-scale research to improve inguinal hernia surgery. A pilot study was performed to test the feasibility of the application and generated data even as the use in daily clinical practice for patients as well as physicians

Study objective

Inguinal hernia application provides real-time monitoring. It also might provide more accurate, more reliable and more extensive data on recovery after surgery. Patients are questioned in a less intrusive way, leading to more compliance and less missing data or other forms of bias which are encountered with classical paper questionnaires

Study design

Every day (postoperative day 1-14), every week (POD 15-90), every month (post operative month 4-12)

Intervention

Pilot patients install the application prior to inguinal hernia surgery and are advised to use it 1 yr postoperatively

Contacts

Public

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Scientific

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Eligibility criteria

Inclusion criteria

Primary inguinal hernia, adult, Dutch language, no cognitive impairment, in possession of smartphone or tablet with Android or iOS operating system

Exclusion criteria

Previous inguinal (hernia) surgery, < 18 yr, insufficient language (Dutch) skills, cognitive impairment

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	01-09-2016
Enrollment:	250
Type:	Actual

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Positive opinion	
Date:	19-05-2019
Application type:	First submission

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
NTR-new	NL7813
Other	METC Brabant : NW2016-36

Study results