Is inguinal hernia repair possible with glue?

Submission date 09/01/2013	Recruitment status No longer recruiting	Prospectively registered
		☐ Protocol
Registration date 29/01/2013	Overall study status Completed	Statistical analysis plan
		Results
Last Edited	Condition category	Individual participant data
20/09/2016	Digestive System	Record updated in last year
Plain English summary of protocol		
Background and study aims		
An inguinal hernia occurs when fatty tissue or a part of the bowel pokes through a weak spot in the abdominal wall into the groin, appearing as a swelling or lump. Inguinal hernias can be		
repaired using surgery to push the bulge back into place. A mesh is placed in the abdominal wall,		
at the weak spot where the hernia came through, to strengthen it. Tissue adhesives (glues) can		

Who can participate?

Patients aged 18 or over with an inguinal hernia

What does the study involve?

Participants are randomly allocated to be treated with either a mesh fixed with sutures or a mesh fixed with glue. Participants are assessed for pain after 7 days, 1, 6 and 12 months, and are examined to see whether the hernia has come back (recurrence) at 2 years after surgery.

be used as an alternative to suture (stitches) for mesh fixation. The aim of this study is to assess

What are the possible benefits and risks of participating? Not provided at time of registration

the effectiveness of cyanoacrylate glue for hernia repair.

Where is the study run from? Morales Meseguer University Hospital (Spain)

When is the study starting and how long is it expected to run for? January 2007 to December 2011

Who is funding the study? Medical Canada (Spain)

Who is the main contact? Prof. Alfredo Moreno-Egea

Contact information

Type(s)

Scientific

Contact name

Prof Alfredo Moreno-Egea

Contact details

Primo de Rivera 7, 5°D 30008. Murcia Murcia Spain 30008

Additional identifiers

Protocol serial number

14186

Study information

Scientific Title

Inguinal hernioplasty: tissue adhesive versus sutures: a randomized clinical trial

Study objectives

Is the adhesive tissue an alternative to the sutures for the inguinal hernioplasty? The use of tissue adhesives can be an alternative to suture fixation of the mesh, but their experience is very limited.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics committee of Morales Meseguer University Hospital, 17/12/2006

Study design

Randomized prospective clinical trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Inguinal hernia

Interventions

Group 1 Lichtenstein operation (mesh fixed with sutures) and Group 2 mesh fixed with glue. The synthetic adhesive is n-hexyl-á-cyanoacrylate

Intervention Type

Procedure/Surgery

Primary outcome(s)

Pain and recurrence. Patients were assessed for pain at 7 days, 1, 6 and 12 months using a visual analogue scale with a range from 0-10, and were examined clinically for recurrence at 2 year after surgery.

Key secondary outcome(s))

- 1. Operative time
- 2. Analgesic consumption
- 3. Hematoma
- 4. Infection

Completion date

30/12/2011

Eligibility

Key inclusion criteria

- 1. Patients with inguinal hernia not complicated
- 2. Patients (male and female) who were at least 18 years old and presented at the Abdominal Wall Unit of Morales Meseguer University Hospital of Murcia with a diagnosis of an inguinal hernia

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

Complicated hernias, bilateral and recurrent hernias

Date of first enrolment

01/01/2007

Date of final enrolment

30/12/2011

Locations

Countries of recruitment

Spain

Study participating centre Morales Meseguer University Hospital Murcia

Spain 30008

Sponsor information

Organisation

Medical Canada (Spain)

ROR

https://ror.org/011xgdn77

Funder(s)

Funder type

Industry

Funder Name

Medical Canada (Spain)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type **Details** Date created Date added Peer reviewed? Patient-facing? Participant information sheet 11/11/2025 No

Participant information sheet