# How to prevent the trocar-site hernia? A totally atraumatic endoscopic mini-IPOM-Plug technique (with extra-lightweight titanium coated mesh and glue)

| Submission date   | Recruitment status   | <ul><li>Prospectively registered</li></ul> |
|-------------------|----------------------|--|
| 16/11/2015        | No longer recruiting | ☐ Protocol                                 |
| Registration date | Overall study status | Statistical analysis plan                  |
| 01/12/2015        | Completed            | Results                                    |
| Last Edited       | Condition category   | Individual participant data                |
| 16/11/2015        | Digestive System     | Record updated in last year                |

#### Plain English summary of protocol

Background and study aims

Laparoscopy is a type of surgery that allows a surgeon to access the inside of the body without having to make large incisions in the skin. The arrival of laparoscopy could be regarded as the biggest change in surgical techniques this century. However, there is a negative side to this new approach, such as a new kind of hernia, the trocar-site hernia. A hernia is a weakness or split in the muscle wall of the abdomen which allows the abdominal contents (usually some part of the intestine) to bulge out. With the increasing use of laparoscopic surgery the problem of this new type of hernia will increase too. The surgical placement of a prophylactic (preventive) mesh may help to prevent trocar-site hernia. The aim of this study is to find out whether it is possible to prevent trocar-site hernia after laparoscopic cholecystectomy by placing a prophylactic mesh.

#### Who can participate?

Patients aged 20-70 undergoing laparoscopic cholecystectomy (gallbladder removal) for cholelitiasis (gallstones).

#### What does the study involve?

Patients are randomly allocated to either receive a prophylactic mesh or to not receive a mesh during their operation.

What are the possible benefits and risks of participating?

The patients who receive the mesh may be at risk of seroma (collection of fluid) or wound infection at the mesh site. The patients who do not receive the mesh may be at risk of hernia.

Where is the study run from? La Vega Hospital (Spain).

When is the study starting and how long is it expected to run for? January 2013 to December 2016.

Who is funding the study? Universidad de Murcia (Spain).

Who is the main contact? Prof Alfredo Moreno-Egea moreno-egea@ono.com

# Contact information

#### Type(s)

Scientific

#### Contact name

Prof Alfredo Moreno-Egea

#### Contact details

Avda Primo de Rivera 7, 5°D Murcia Spain 30008 + 34(0) 639 66 21 13 moreno-egea@ono.com

# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers N/A

# Study information

#### Scientific Title

Prevention of the trocar-site hernia with prophylactic mesh: a randomized clinical trial

# **Study objectives**

The trocar-site hernia is a new complication in laparoscopic surgery which is becoming increasingly prevalent. Thus, the search for an efficient method of prophylaxis should be prioritized.

The aim of this study is to find out whether it is possible to prevent trocar-site hernia (umbilical site) after laparoscopic cholecystectomy using a prophylactic mesh.

# Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Hospital General Universitario Morales Meseguer Ethics Committee, 01/01/2013

#### Study design

Randomised controlled trial

#### Primary study design

Interventional

#### Secondary study design

Randomised controlled trial

#### Study setting(s)

Hospital

#### Study type(s)

Prevention

#### Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

### Health condition(s) or problem(s) studied

Trocar-site hernia

#### **Interventions**

Patients were randomized on the day of surgery to receive either a prophylactic mesh in the umbilical trocar site (treatment group) or no treatment in the umbilical site (no treatment - control group).

#### Intervention Type

Procedure/Surgery

#### Primary outcome measure

Recurrence rate at 1 year

#### Secondary outcome measures

- 1. Operative time
- 2. Morbidity (infection, seroma or chronic pain) at 1 month and 3 months

#### Overall study start date

01/01/2013

#### Completion date

30/12/2016

# **Eligibility**

#### Key inclusion criteria

- 1. Patients undergoing surgery for symptomatic cholelitiasis
- 2. Age range 20-70 years
- 3. Male and female
- 4. American Society of Anesthesiology (ASA) classification of 3 or less
- 5. No co-morbidity cardiopulmonary, hepatic or renal impairment
- 6. Consent was given for surgery

#### Participant type(s)

Patient

#### Age group

Adult

#### Sex

Both

#### Target number of participants

100 patients: two groups of 50 patients

#### Key exclusion criteria

- 1. Patients with ASA higher than 3
- 2. Current malignant diseases
- 3. Proven mental illness or other circumstances that might compromise the patient's cooperation in addition to those who refused to give informed consent

#### Date of first enrolment

01/01/2015

#### Date of final enrolment

30/12/2016

# Locations

#### Countries of recruitment

Spain

#### Study participating centre La Vega Hospital

Murcia

Spain

30008

# Sponsor information

#### Organisation

Medical Cañada (Spain)

#### Sponsor details

Calle Jubilo, S/N - Parcela 24 Nave C6 Poligono Industrial Oeste San Ginés Murcia Spain 30820

#### Sponsor type

Industry

#### Website

www.medicalcanada.es

#### **ROR**

https://ror.org/011xgdn77

# Funder(s)

#### Funder type

University/education

#### **Funder Name**

Universidad de Murcia

#### Alternative Name(s)

University of Murcia

#### **Funding Body Type**

Government organisation

#### **Funding Body Subtype**

Local government

#### Location

Spain

# **Results and Publications**

# Publication and dissemination plan

To be confirmed at a later date

# Intention to publish date 30/06/2016

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Data sharing statement to be made available at a later date