

# Single-center experience of needle-scopic grasper assisted single incision laparoscopic cholecystectomy for gallbladder benign disease: comparison with conventional 3-port laparoscopic cholecystectomy

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<b>Registration date</b> 18/11/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 17/11/2015	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

The gallbladder is a pear-shaped pouch for storing bile, a liquid made by the liver to help digest fatty foods. Laparoscopic cholecystectomy is an operation to remove the gallbladder and is the standard treatment for benign gallbladder diseases. Laparoscopic surgery leaves several scars after the operation. Operations with fewer incisions have been attempted, including single-incision laparoscopic surgery (SILS). SILS is cosmetically acceptable but is technically difficult and demanding. Therefore, we are intended to overcome the difficulties of SILS by adding an incision for an instrument called a needlescopic grasper, which just leaves a negligible scar after the operation. The aim of this study is to evaluate the safety and feasibility of needlescopic grasper assisted SILC (nSILC) compared with conventional laparoscopic cholecystectomy (CLC).

### Who can participate?

Patients undergoing laparoscopic cholecystectomy for benign gallbladder disease.

### What does the study involve?

We review the medical records of patients who underwent CLC or nSILC to investigate the difference in surgical outcomes, in particular to see if there are any differences in the operation time, and pain and complications following the operation.

### Where is the study run from?

Uijeongbu St. Mary's Hospital (South Korea)

### When is the study starting and how long is it expected to run for?

October 2011 to December 2012

Who is funding the study?

This study performed without funding and all members of this study have no competing interests

Who is the main contact?

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## Contact information

### Type(s)

Public

### Contact name

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## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

BSUR-D-15-00094R1

## Study information

### Scientific Title

Single-center experience of needle-scopic grasper assisted single incision laparoscopic cholecystectomy for gallbladder benign disease: comparison with conventional 3-port laparoscopic cholecystectomy

### Study objectives

Single incision laparoscopic cholecystectomy (SILC) has some technical problems. Our group has performed needlescopic grasper assisted SILC (nSILC) to overcome these problems. In this study, we introduce our technique and evaluate the safety and feasibility of this technique comparing with the conventional laparoscopic cholecystectomy (CLC).

### Ethics approval required

Old ethics approval format

**Ethics approval(s)**

Uijeongbu St. Mary's Hospital Institutional Review Board, 22/01/2015, Study No. UC15RISI0004

**Study design**

Retrospective case-control study

**Primary study design**

Observational

**Secondary study design**

Case-control study

**Study setting(s)**

Hospital

**Study type(s)**

Treatment

**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**

Patients with a benign gallbladder disease prompting operative intervention

**Interventions**

The medical records of 485 patients who received nSILC and CLC were reviewed retrospectively. Surgical outcomes including operative time, hospital stay, postoperative pain and perioperative complication were compared between the two techniques.

**Intervention Type**

Procedure/Surgery

**Primary outcome measure**

Overall operative time

**Secondary outcome measures**

1. Time taken to locate the critical view of safety (CVS) during operation
2. The incidence of conversion operation
3. Postoperative pain measured using the visual analogue scale (VAS)
4. Incidences of postoperative complications

Outcomes measured at baseline (immediately after admission), operation, postoperative periods of admission (postoperative day 1 and 2, and the day of discharge), and the time when patients visited the outpatient clinic after discharge.

**Overall study start date**

14/10/2011

**Completion date**

31/12/2012

## Eligibility

### Key inclusion criteria

Patients who underwent laparoscopic cholecystectomy for acute and chronic cholecystitis at a single institution

### Participant type(s)

Patient

### Age group

Adult

### Sex

Both

### Target number of participants

485

### Key exclusion criteria

1. Acute cholecystitis
2. Obese patients
3. History of previous abdominal surgery

### Date of first enrolment

14/10/2011

### Date of final enrolment

31/12/2012

## Locations

### Countries of recruitment

Korea, South

### Study participating centre

Uijeongbu St Mary's Hospital

College of Medicine

The Catholic University of Korea

Uijeongbu

Korea, South

480-717

## Sponsor information

**Organisation**

Uijeongbu St Mary's Hospital (South Korea)

**Sponsor details**

The Catholic University of Korea

#271, Cheonbo-ro

Uijeongbu

Korea, South

480-717

**Sponsor type**

Hospital/treatment centre

**ROR**

<https://ror.org/02ezaf703>

**Funder(s)****Funder type**

Other

**Funder Name**

Investigator initiated and funded

**Results and Publications****Publication and dissemination plan**

To be confirmed at a later date

**Intention to publish date****Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Available on request