

# Study to evaluate the safety and efficacy of the Versius surgical system in robot-assisted cholecystectomy (a surgical procedure to remove your gallbladder)

<b>Submission date</b> 13/10/2022	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 20/10/2022	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 20/10/2022	<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

Minimal access surgery (also known as keyhole surgery) has been carried out for over 30 years at hospitals around the world. It is well-established and has several advantages over other surgical methods, such as a shorter recovery time, fewer complications and shorter hospital stays.

Thousands of minimal access operations are carried out each year. Recently it has been possible to use robot arms to help carry out minimally invasive operations.

This study is being run to assess the safety and competence of the Versius® Surgical Robotic System in performing operations for removal of the gall bladder. Versius is a robot designed to be used in minimal access surgery. It has been developed and built by CMR Surgical Limited, a UK based and registered company. The system allows a surgeon to stand or sit a console to control a set of robotic arms which are holding instruments needed to perform minimal access surgery.

### Who can participate?

All patients aged 18 years and above, eligible for surgery with Versius, as decided by the operating surgeon.

### What does the study involve?

All participants will have gall bladder removal surgery as usual and as decided by their healthcare professionals.

### What are the possible benefits and risks of participating?

There are no direct benefits to participants. The information collected may benefit patients in the future. The risks from participating in this study are similar to those associated with any minimal access (keyhole) gall bladder removal surgical procedure.

### Where is the study run from?

CMR Surgical (UK)

When is the study starting and how long is it expected to run for?  
March 2022 to January 2023

Who is funding the study?  
CMR Surgical (UK)

Who is the main contact?  
Dr Mark Slack  
mark.slack@cmrsurgical.com

## Contact information

**Type(s)**  
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## Additional identifiers

**Clinical Trials Information System (CTIS)**  
Nil known

**ClinicalTrials.gov (NCT)**

Nil known

**Protocol serial number**

CA-00358, CTRI/2022/08/045073

## Study information

**Scientific Title**

Prospective clinical study to evaluate the safety and efficacy of the Versius surgical system in robot-assisted cholecystectomy

**Acronym**

VCSCCE

**Study objectives**

The Versius surgical system is safe and efficacious in performing robot-assisted cholecystectomies.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Approved 12/08/2022, Institutional Ethics Committee, Devki Devi Foundation (Service Floor, Office of Ethics Committee, East Block, Max Super Speciality Hospital, Saket 2, Press Enclave Road, Saket, New Delhi, 110017, India; +91 9873003832; Kamal.Fotedar@maxhealthcare.com), ref: CT/MSSH/DDF/SKT-2/IEC/MAMBS/22-08

**Study design**

Prospective non-randomized single-arm clinical trial cohort

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Robot assisted cholecystectomy

**Interventions**

A prospective single arm cohort study for robot assisted laparoscopic cholecystectomy, with the Versius Surgical Robotic System. Use of Versius, patient care and all follow-ups will be as per standard clinical practice, and GCP and regulatory requirements will be strictly followed.

**Intervention Type**

Device

**Phase**

Phase II/III

## **Drug/device/biological/vaccine name(s)**

Versius Surgical Robotic System

## **Primary outcome(s)**

Primary efficacy outcome:

Rate of successful completion of robot assisted surgery without unplanned conversion to other laparoscopic or open surgery, as recorded on the data entry platform

Primary safety outcome:

Incidence of serious adverse events, recorded on the data entry platform at any time between commencement of surgery (intraoperative) to the end of the trial (postoperative, between incidence of surgery to 30 days after surgery)

## **Key secondary outcome(s)**

1. Operative time measured in minutes from incision to skin closure at the facility, collected as procedural data from medical records
2. Estimated blood loss (in ml) during surgery, collected as procedural data from medical records
3. Blood transfusion during surgery (number of blood transfusion products used (if any)) collected from patient's medical records
4. Any intra-operative complications during surgery collected as procedural data and from patient's medical records
5. Return to operating room within 24 hours after surgery, measured using medical records
6. Length of hospital stay in days (from date of procedure to date of discharge), measured using medical records
7. Incidence of readmission to hospital within 30 days after surgery, measured using medical records and at 30-day follow-up
8. Incidence of reoperation within 30 days after surgery, measured using medical records and at 30-day follow-up
9. 30-day mortality from medical records and/or follow-up visit/call during the 30-day follow up
10. Histopathology results of any surgically removed specimens from medical records available at day of discharge and at 30 day follow up
11. Incidence of device deficiencies and use errors regardless of relationship to an adverse event, collected as procedural and/or adverse event data and from patient medical records
12. All adverse events, including postoperative complications reported using Clavien-Dindo Classification and according to medical records, up to 30 days' follow up
13. Device performance data including unplanned instrument usage, clashes, collision detection, alarms, collected as procedural data during surgery

## **Completion date**

01/01/2023

## **Eligibility**

### **Key inclusion criteria**

1. Patient deemed suitable for laparoscopic Cholecystectomy procedure using Versius Surgical Robotic System
2. Patients able to provide written informed consent to participate in the study (with help of appropriate legal representatives if required)
3. Male and Female, aged 18 years or above

4. Female of childbearing potential, must not be pregnant and agree to not become pregnant for the duration of the study

5. Patients with BMI <40 kg/m<sup>2</sup>. Priority BMI 25 to 40 kg/m<sup>2</sup>

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Patient participation in an investigational clinical study within 30 days before screening
2. Inability or difficulties to provide informed consent
3. Oncological cases, Patients undergoing surgery or treatment for malignant disease
4. Patients who fall into American Society of Anaesthesiologists (ASA) Class IV or above
5. History of chronic alcohol or drug abuse
6. Chronic renal failure or on dialysis
7. Significant medical history or immunocompromised
8. Subjects with any other clinically significant unstable medical disorder, life-threatening disease, or anything else in the opinion of the Investigator which would contra-indicate a surgical procedure
9. Patient tested COVID positive within last 30 days of screening
10. Patient tested COVID positive within 48 hours day the of the procedure
11. Diabetes mellitus (Glycemia > 11mmol/L ; >200 mg/dL)
12. Uncontrolled hypertension

**Date of first enrolment**

17/10/2022

**Date of final enrolment**

01/12/2022

**Locations**

**Countries of recruitment**

India

**Study participating centre**

**Max Super-Specialty Hospital**

2 Press Enclave Road

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New Delhi  
India  
110017

## Sponsor information

**Organisation**  
CMR Surgical (United Kingdom)

**ROR**  
<https://ror.org/00nq5xx94>

## Funder(s)

**Funder type**  
Industry

**Funder Name**  
CMR Surgical

## Results and Publications

**Individual participant data (IPD) sharing plan**  
The data-sharing plans for the current study are unknown and will be made available at a later date.

**IPD sharing plan summary**  
Data sharing statement to be made available at a later date

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes