



**AKTORmed™**  
ROBOTIC SURGERY

**SOLOASSIST II**

## Position Guide



| Surgery



| Gynaecology



| Urology



Laparoscopic techniques have become the standard for many procedures. Perfect imaging is the basis for safe and effective surgical action. Therefore the stable holding and flexible positioning of the endoscope is of great importance.

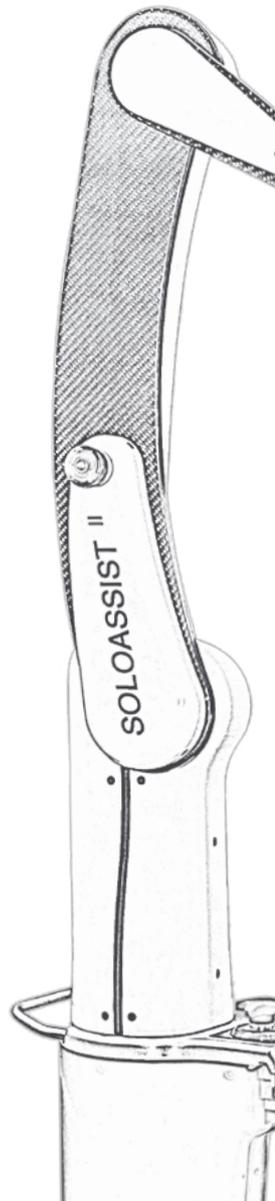
The SOLOASSIST supports this in a unique way. In order to obtain the best possible result, it is necessary to position the SOLOASSIST on the operating table in such a way that:

- The situs can be completely viewed.
- Neither the surgeon, nor assistants are obstructed.
- The direct view to the monitor is not hidden.
- No collisions occur between the SOLOASSIST and the surgeon's instruments.

Thanks to the high flexibility of the SOLOASSIST, in most cases it is possible to guarantee the above-mentioned points.

This document helps you to find the ideal position of the SOLOASSIST for different procedures. The shown examples are only suggestions. In practice, every user has a slightly different setup, e.g. regarding the trocar positions.

Before the first operation, the positioning of the SOLOASSIST should be discussed with the surgeon. The aim is not for the surgeon to adapt to the device, but for the SOLOASSIST to be positioned in such a way that the surgeon can work with his usual procedure.



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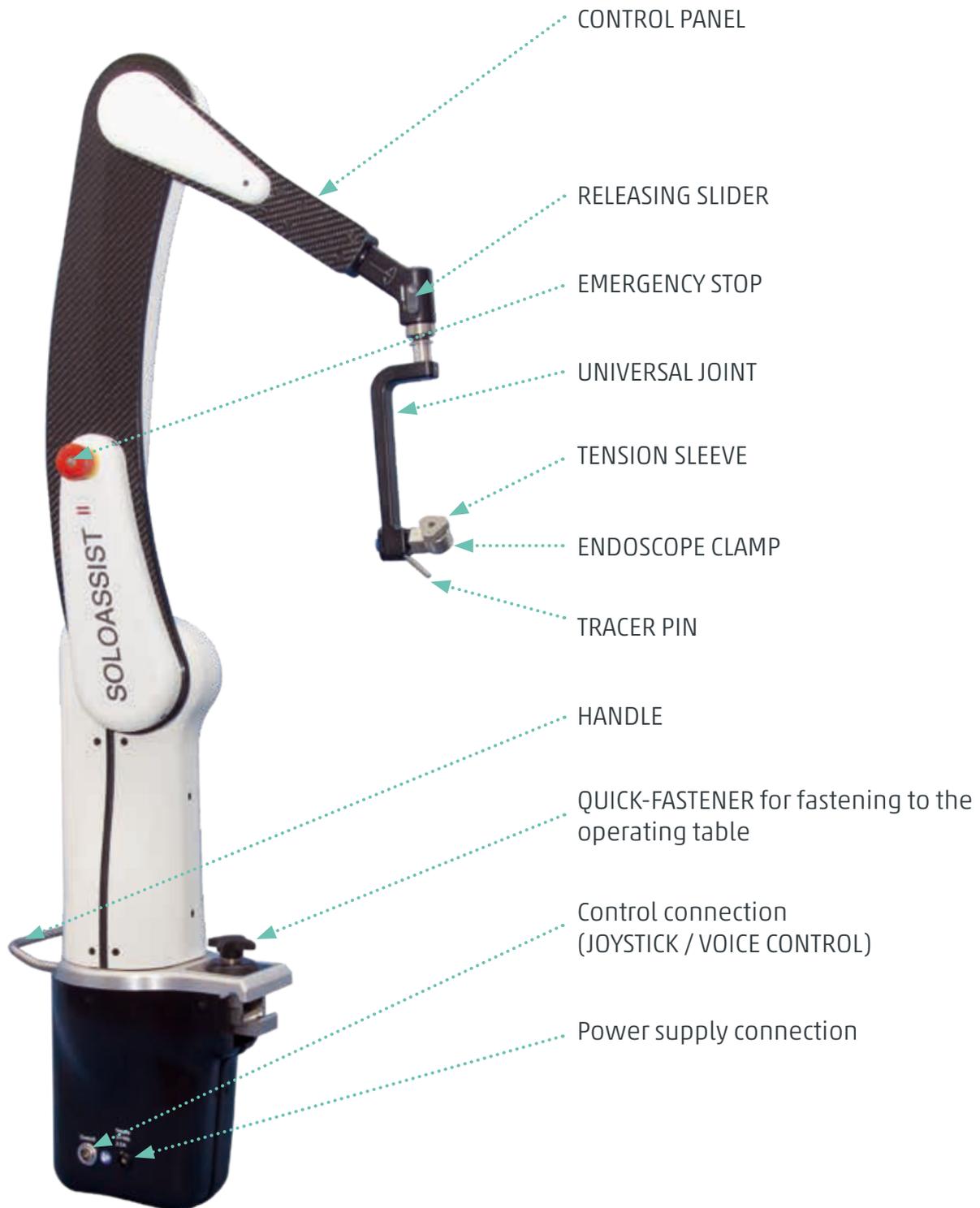
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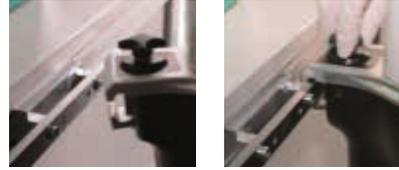
# SYSTEM OVERVIEW



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1. Fasten the SOLOASSIST II to the OP table.



2. Connect the cable of the control and the power supply to the jacks.



3. Cover the arm with a STERILE COVER.



4. Save the TROCAR POINT.

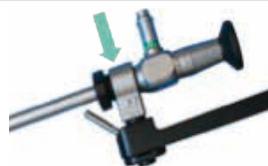
Press the UNLOCK BUTTON, hold it while you lead the TRACER PIN to the point of entry of the trocar. Then press the button "TP" to save the TROCAR POINT.



5. Mount the ENDOSCOPE CLAMP and the TENSION SLEEVE to the endoscope.



6. Attach the endoscope to the SOLOASSIST II.



7. Attach the JOYSTICK to a surgical instrument.



PLEASE NOTE: THIS BRIEF INSTRUCTION DOES NOT REPLACE THE CAREFUL READING OF THE OPERATION MANUAL.

CAUTION: ONLY INTRODUCED STAFF IS AUTHORIZED TO HANDLE THE SOLOASSIST II!

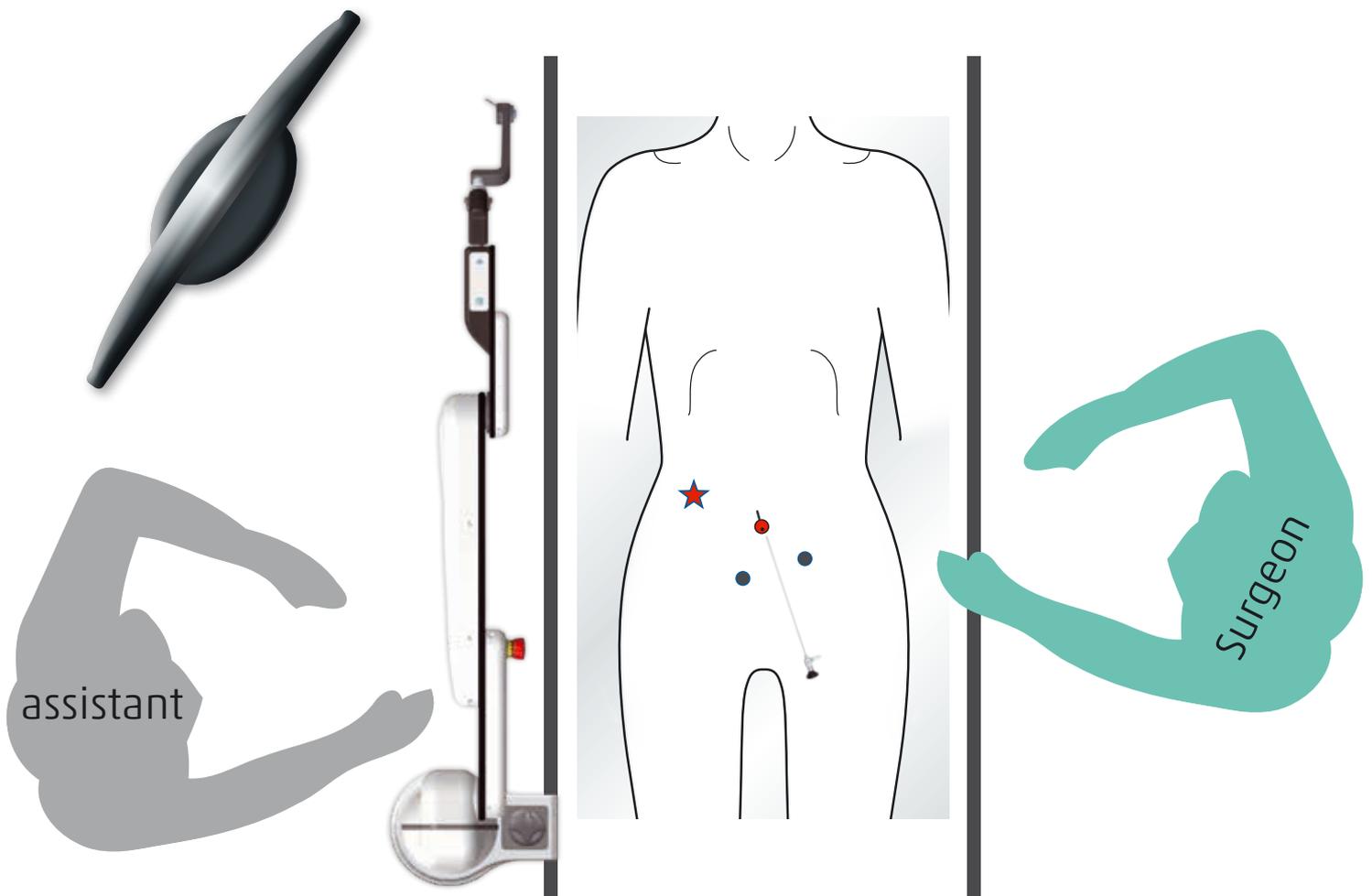
# SOLOASSIST II POSITIONING

## TRY TO INDICATE THE FOLLOWING

- Position of patient
- Position of assistant and surgeon
- Position of patient arms (adjacent, extended)
- Position of first and second assistant
- Camera port ●
- Operation port positions ●
- Target organ ★
- Surgeons instruments →
- Endoscope →
- Assistants instruments →

CW: „CLOCKWISE“

CCW: „COUNTER CLOCKWISE“



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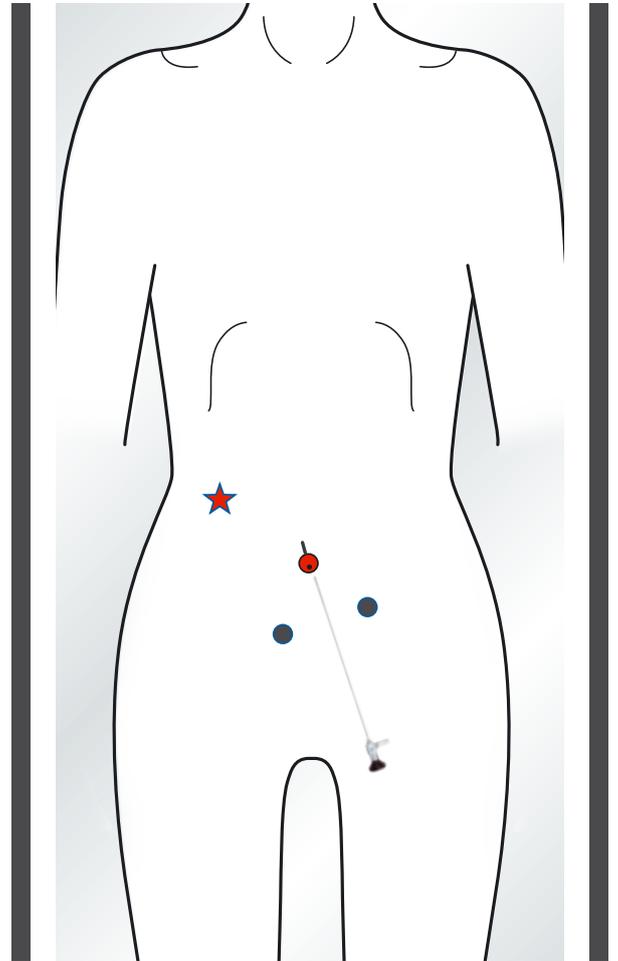
## HOW TO GET THE RIGHT POSITION

The following basic rules make it easier to find a suitable position for the SOLOASSIST. This position may be optimized according to the experience gained during the first interventions.

- Place the SOLOASSIST opposite to the surgeon.
- Position the SOLOASSIST in a position so that a line is formed from the surgeon via the trocar to the device.
- Choose joint position to get a right angle between scope and universal joint.

How to change the joint position:

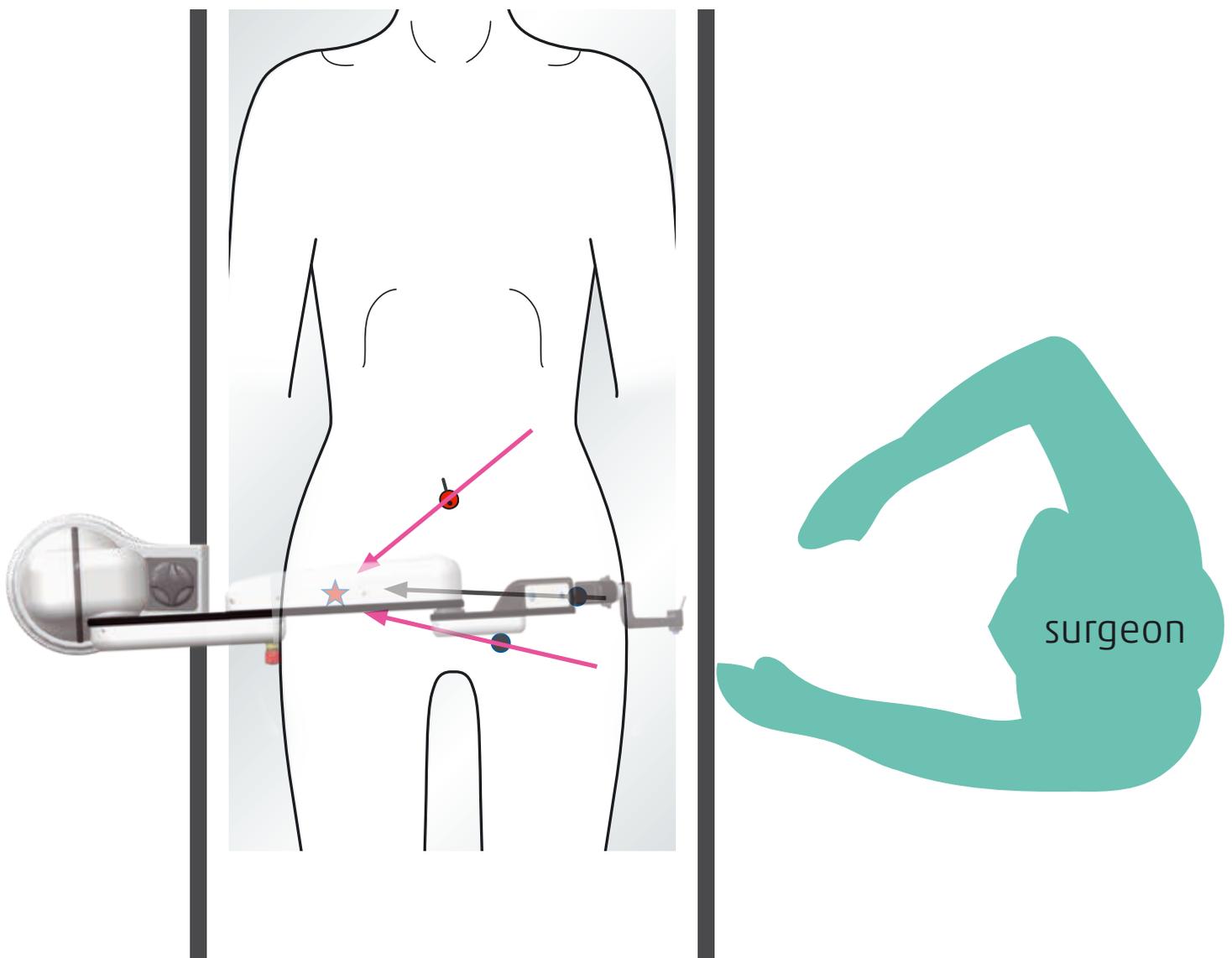
1. Pull the joint head forward.
2. Turn the pivot joint into the desired position.
3. Let the joint head lock in again.



# SOLOASSIST II POSITION

## LAPAROSCOPIC APPENDECTOMY

Body position	Supine	Assistant position	-
Number of ports	3	SOLOASSIST position	Lower right
Scope port	Lower left	Universal joint	0°
Surgeon position	Left		

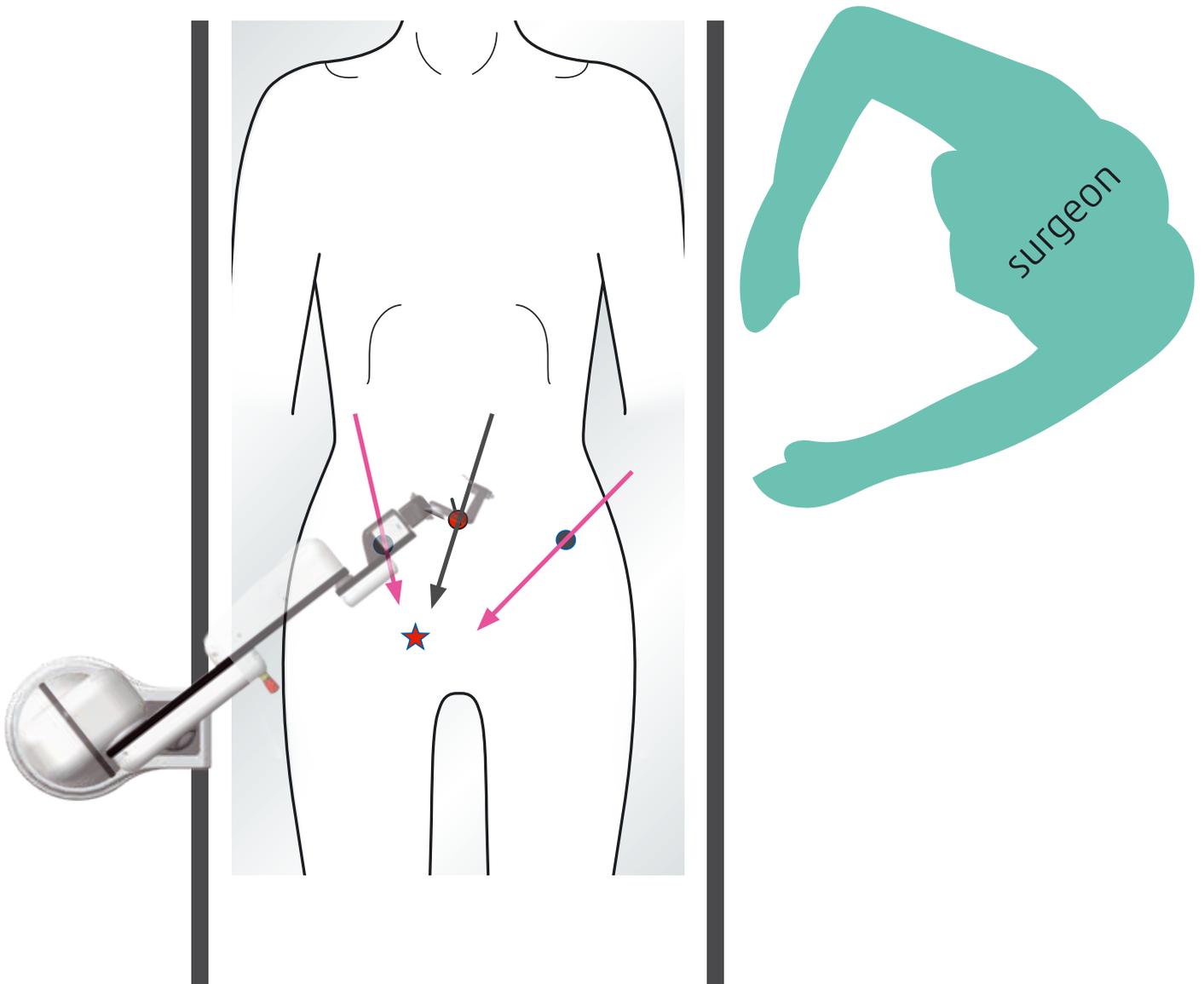


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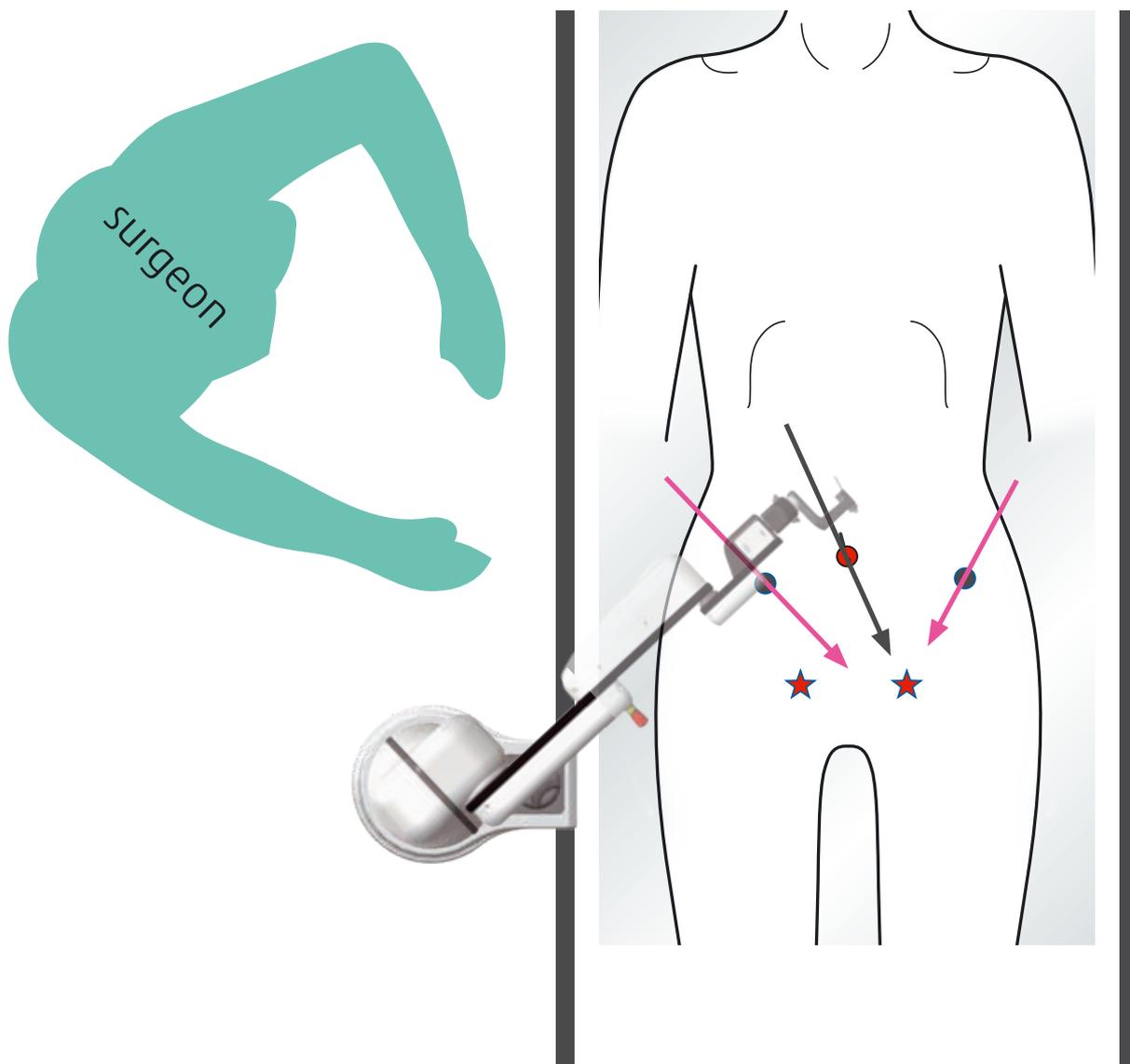
LAPAROSCOPIC INGUINAL HERNIA REPAIR

Body position	Supine	Assistant position	-
Number of ports	3	SOLOASSIST position	Lower opposite side
Scope port	Umbilicus	Universal joint	45° CW right side hernia 45° CCW left side hernia
Surgeon position	Opposite to affected side		



## LAPAROSCOPIC INGUINAL HERNIA REPAIR (BILATERAL)

Body position	Supine	Assistant position	-
Number of ports	3	SOLOASSIST position	Lower opposite to first side
Scope port	Umbilicus	Universal joint	45° CW
Surgeon position	Opposite to first side		

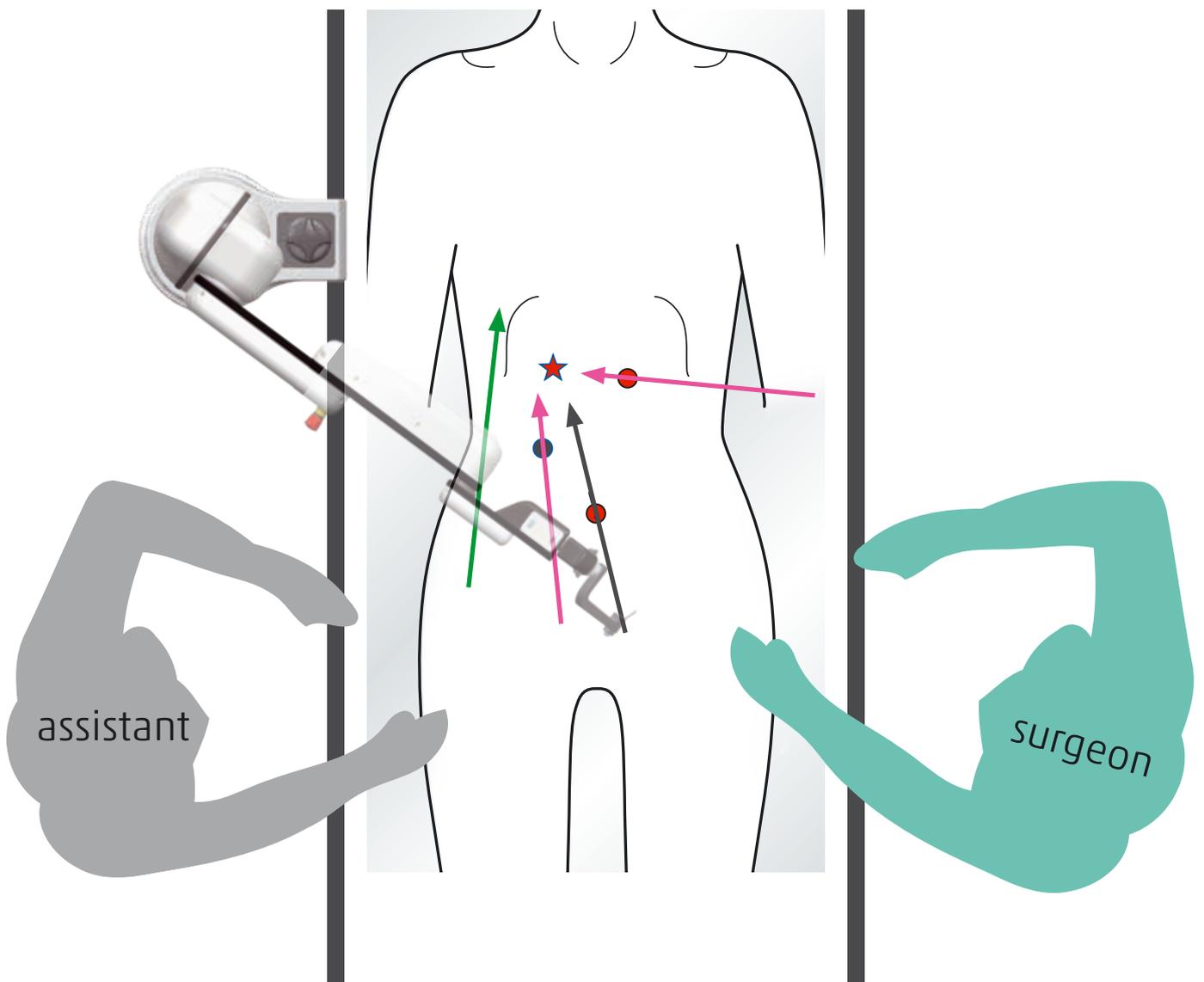


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LAPAROSCOPIC CHOLECYSTECTOMY

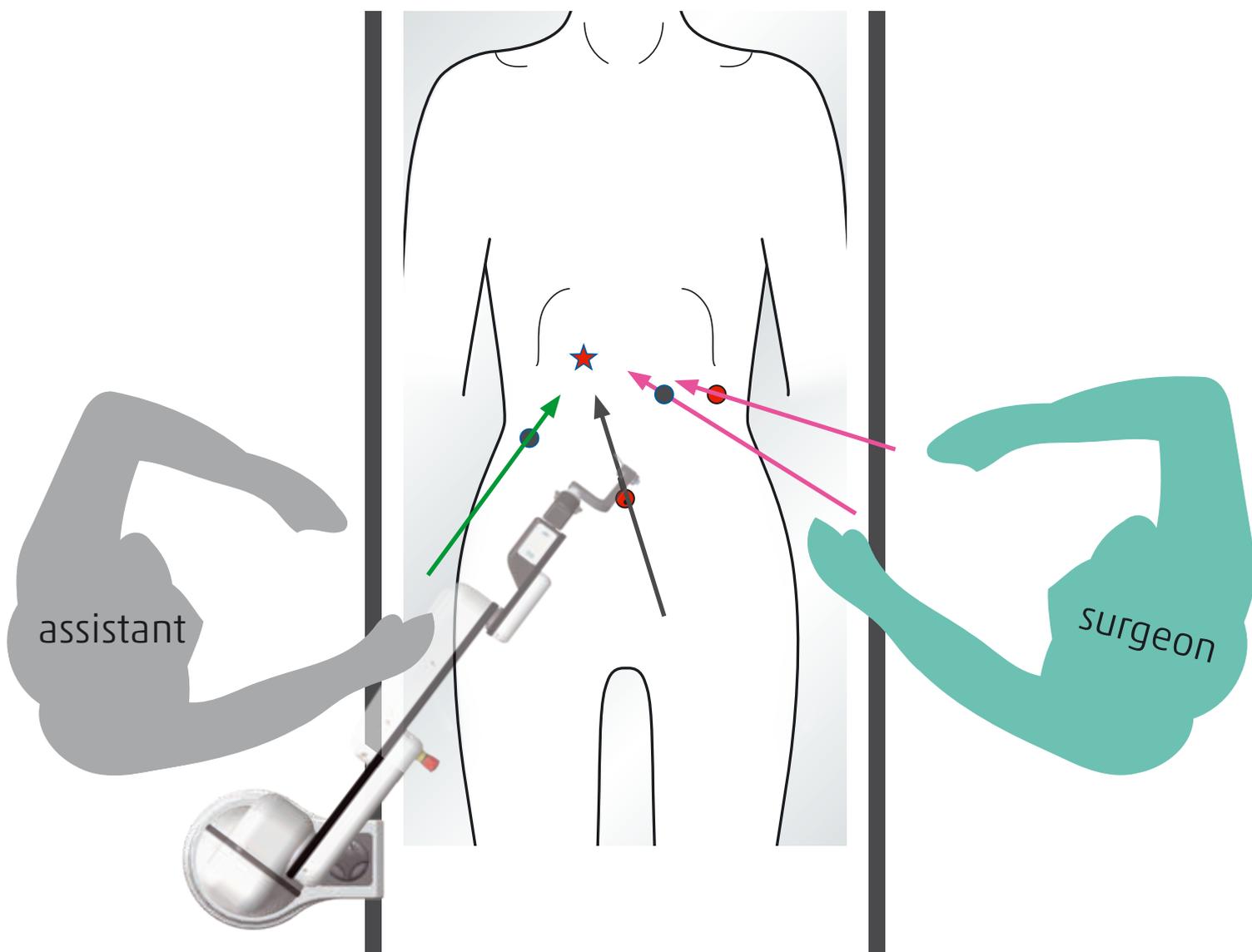
Body position	Supine	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper right
Scope port	Umbilicus	Universal joint	45° CW
Surgeon position	Left		



# SOLOASSIST II POSITION

## LAPAROSCOPIC CHOLECYSTECTOMY (ALTERNATIVE)

Body position	Supine	Assistant position	Right
Number of ports	4	SOLOASSIST position	Lower right
Scope port	Umbilicus	Universal joint	90° CW
Surgeon position	Left		

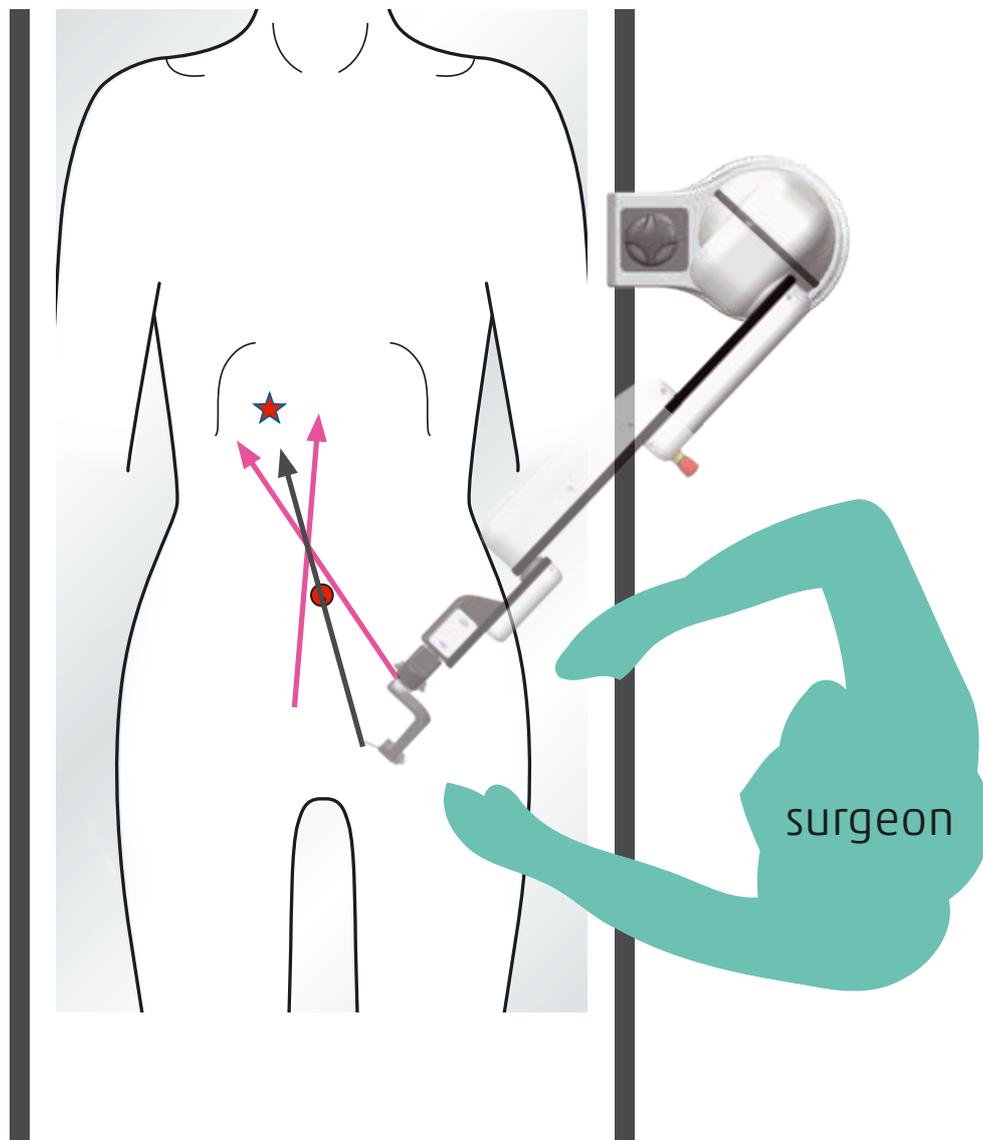


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LAPAROSCOPIC CHOLECYSTECTOMY (SINGLE INCISION)

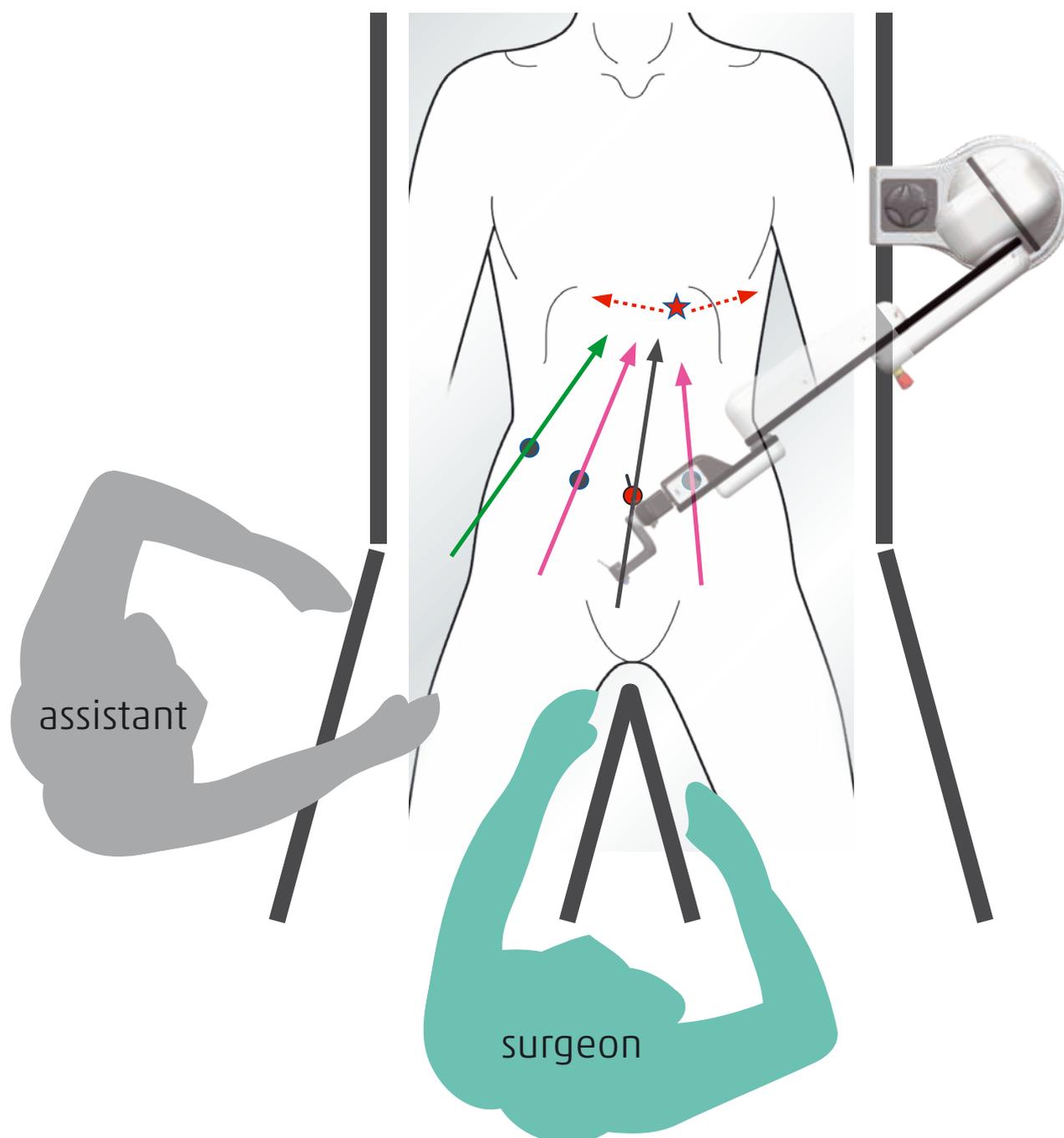
Body position	Supine	Assistant position	-
Number of ports	1	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	135° CW
Surgeon position	Left		



# SOLOASSIST II POSITION

## LAPAROSCOPIC DISTAL GASTRECTOMY

Body position	Lithotomy	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Between the legs		

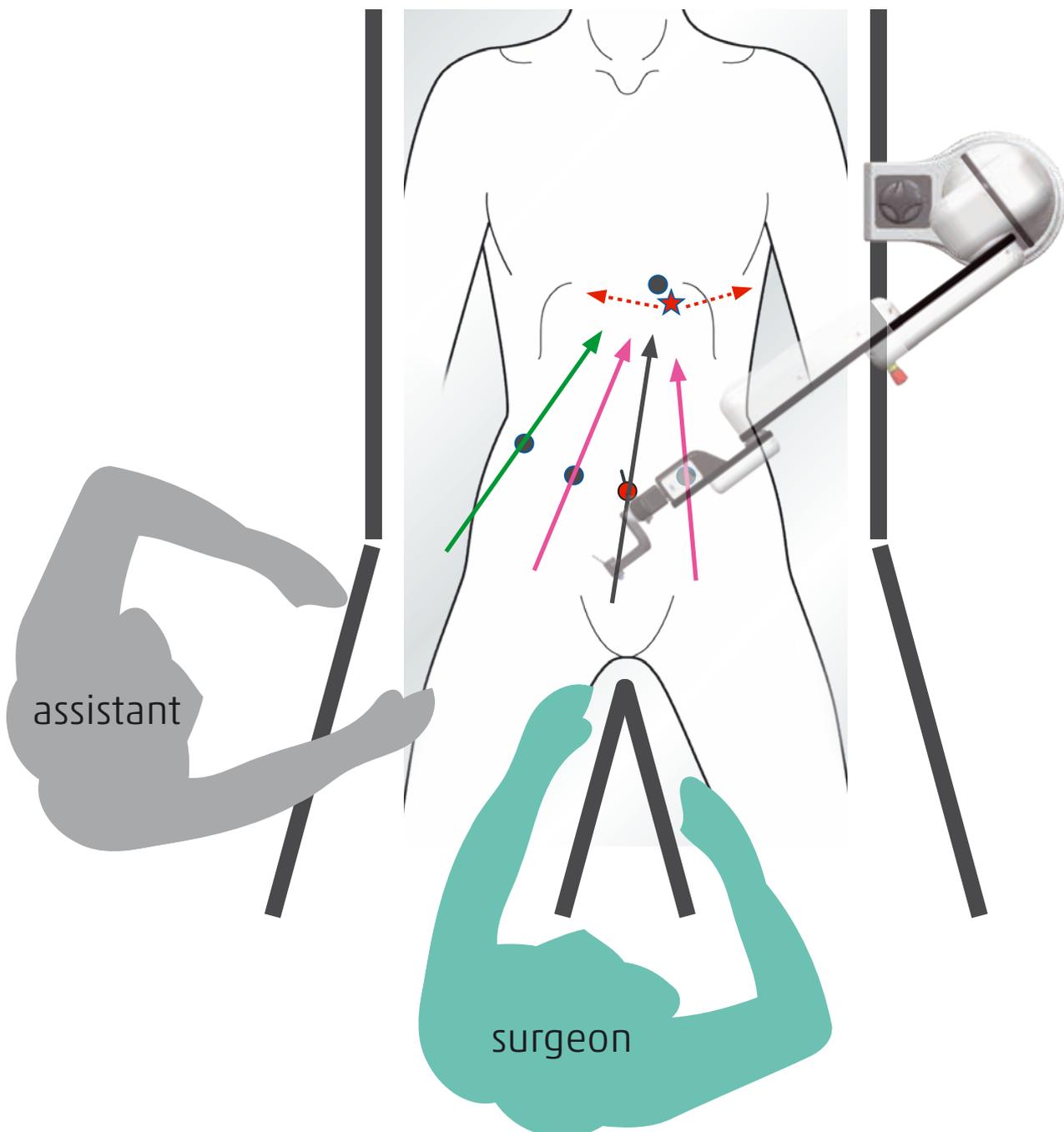


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LAPAROSCOPIC TOTAL GASTRECTOMY

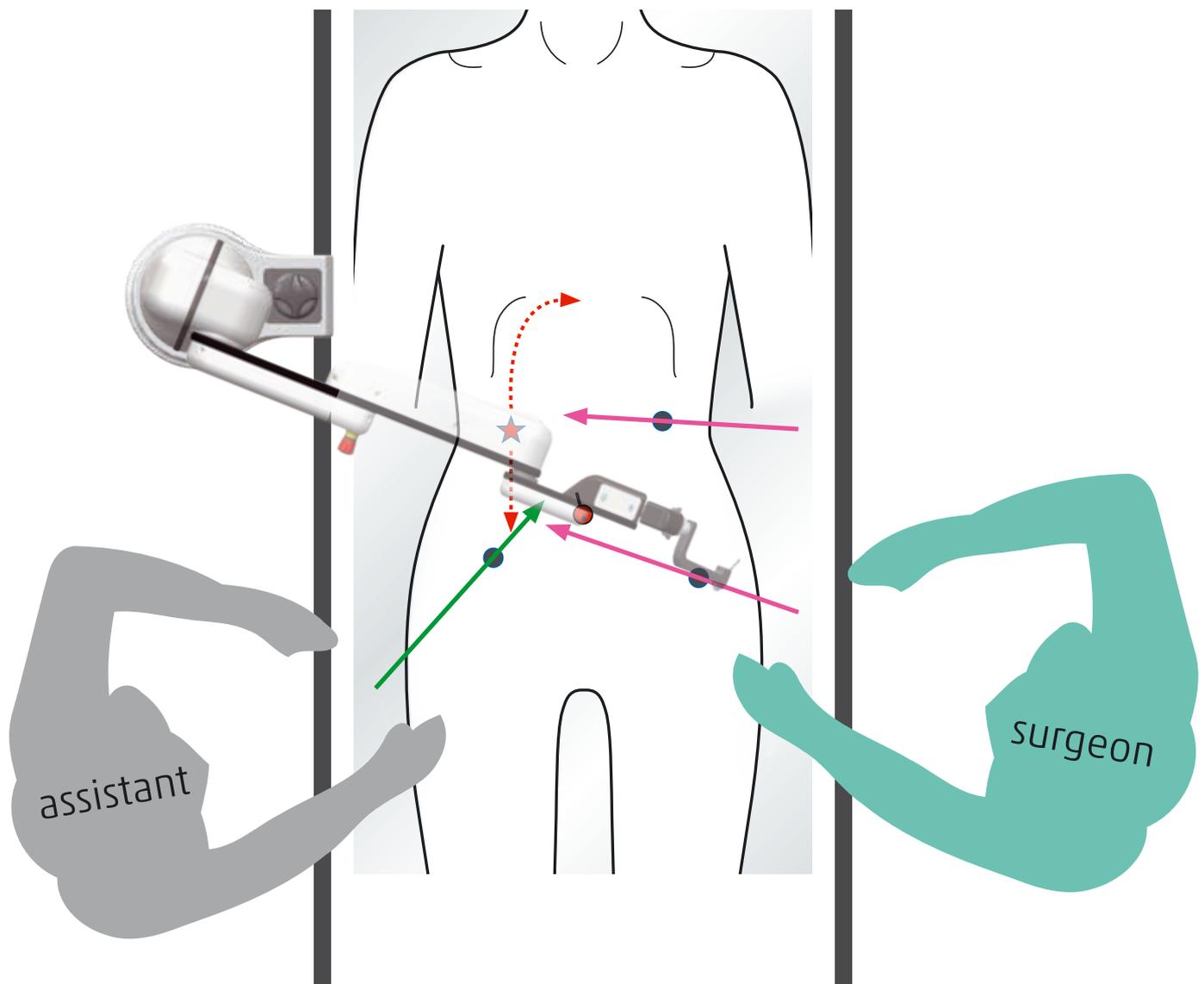
Body position	Lithotomy	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Between the legs		



# SOLOASSIST II POSITION

## LAPAROSCOPIC RIGHT COLECTOMY

Body position	Supine	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper right
Scope port	Umbilicus	Universal joint	0°
Surgeon position	Left		

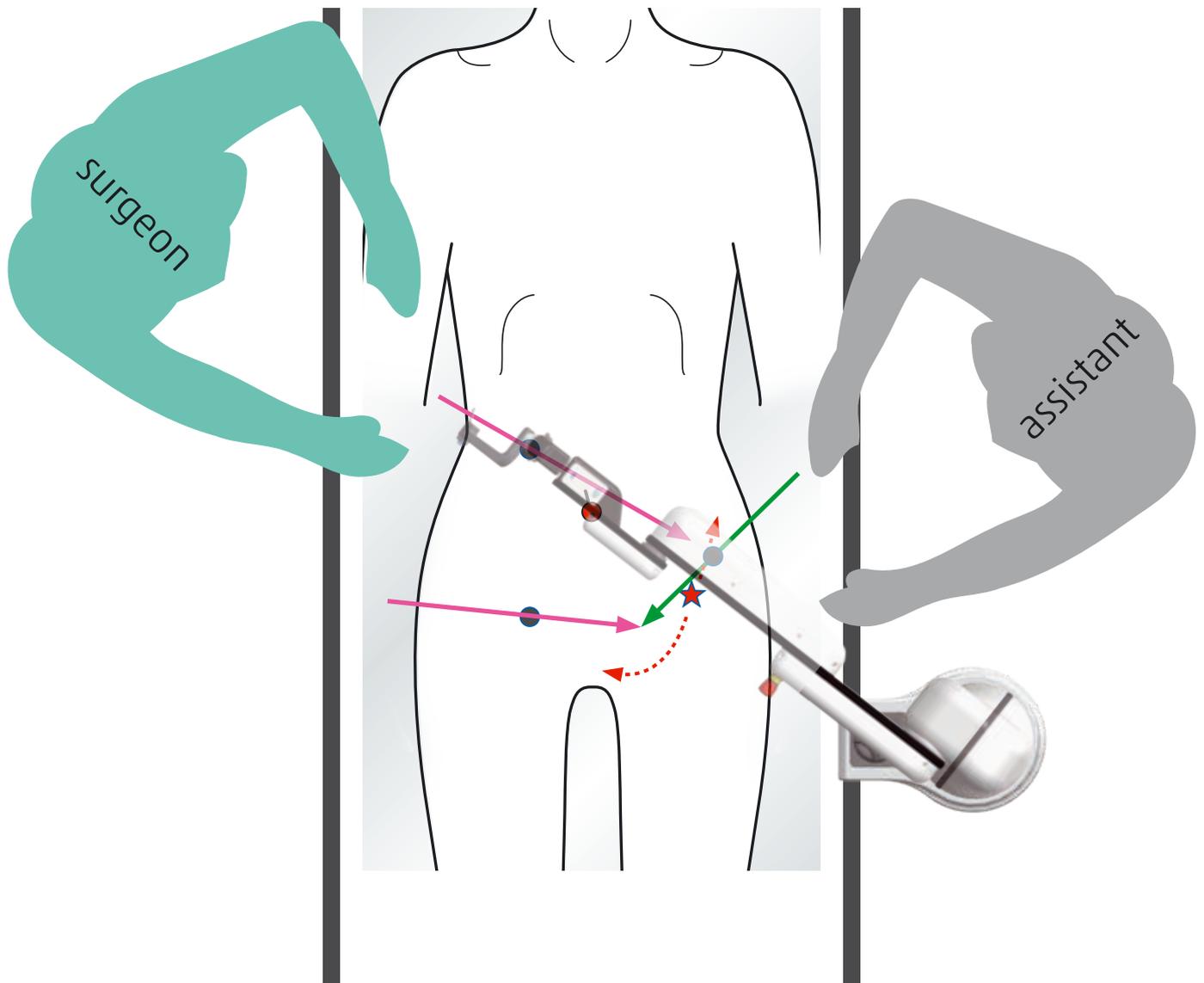


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LAPAROSCOPIC LEFT COLECTOMY

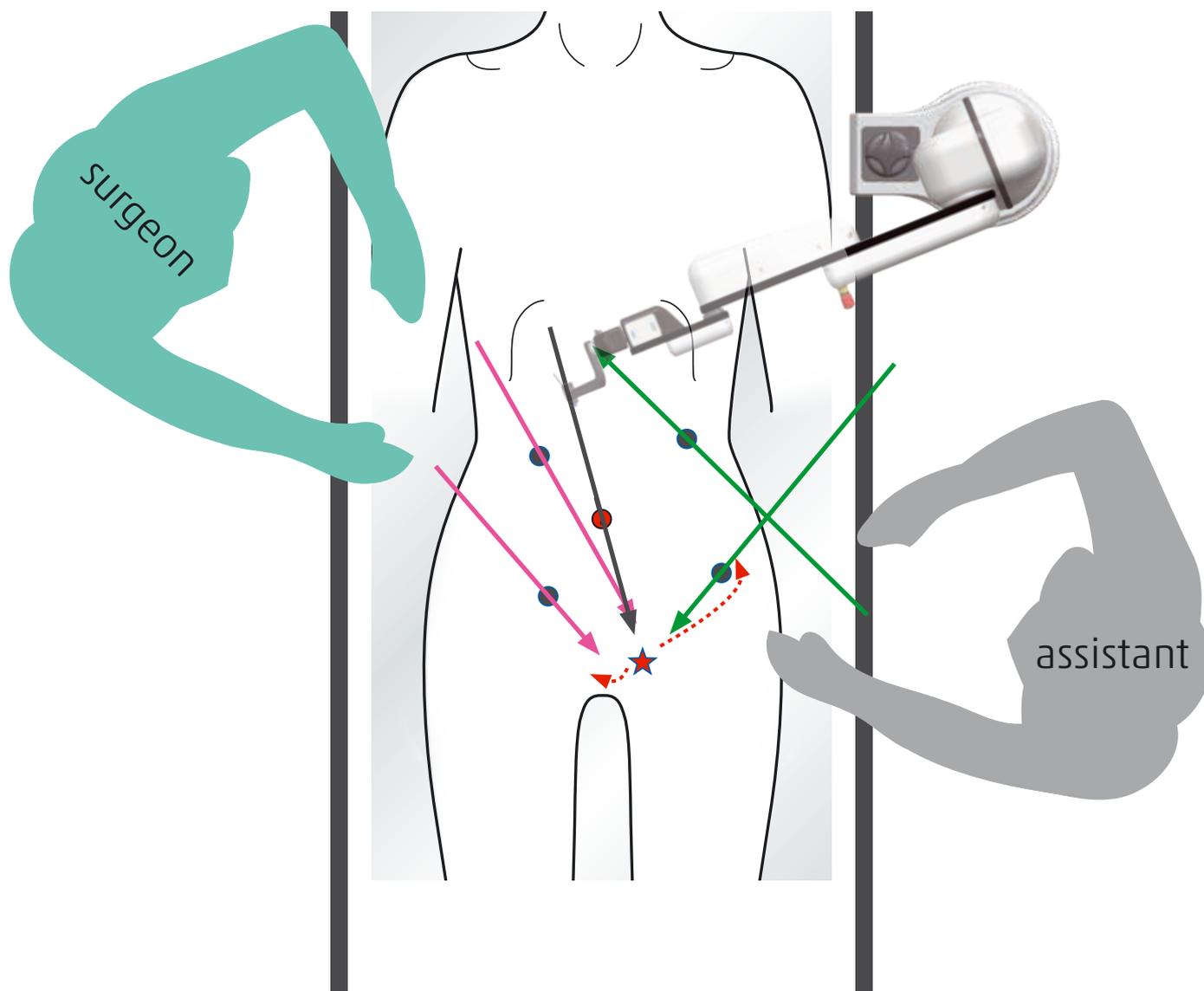
Body position	Supine	Assistant position	Left
Number of ports	4	SOLOASSIST position	Lower left
Scope port	Umbilicus	Universal joint	0°
Surgeon position	Right		



# SOLOASSIST II POSITION

## LAPAROSCOPIC RECTAL RESECTION

Body position	Supine	Assistant position	Left
Number of ports	5	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	45° CW
Surgeon position	Right		

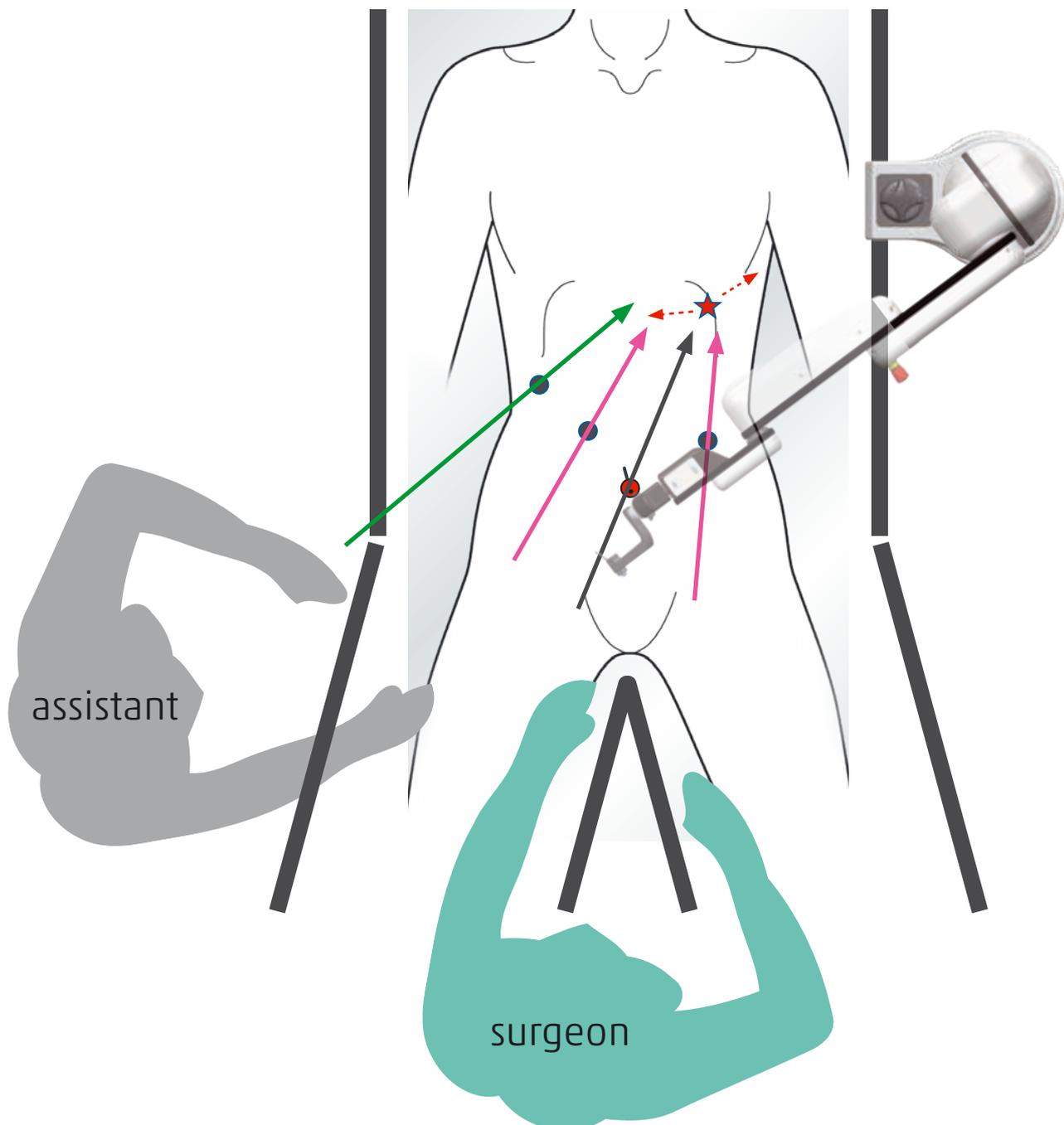


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LAPAROSCOPIC DISTAL PANCREATECTOMY

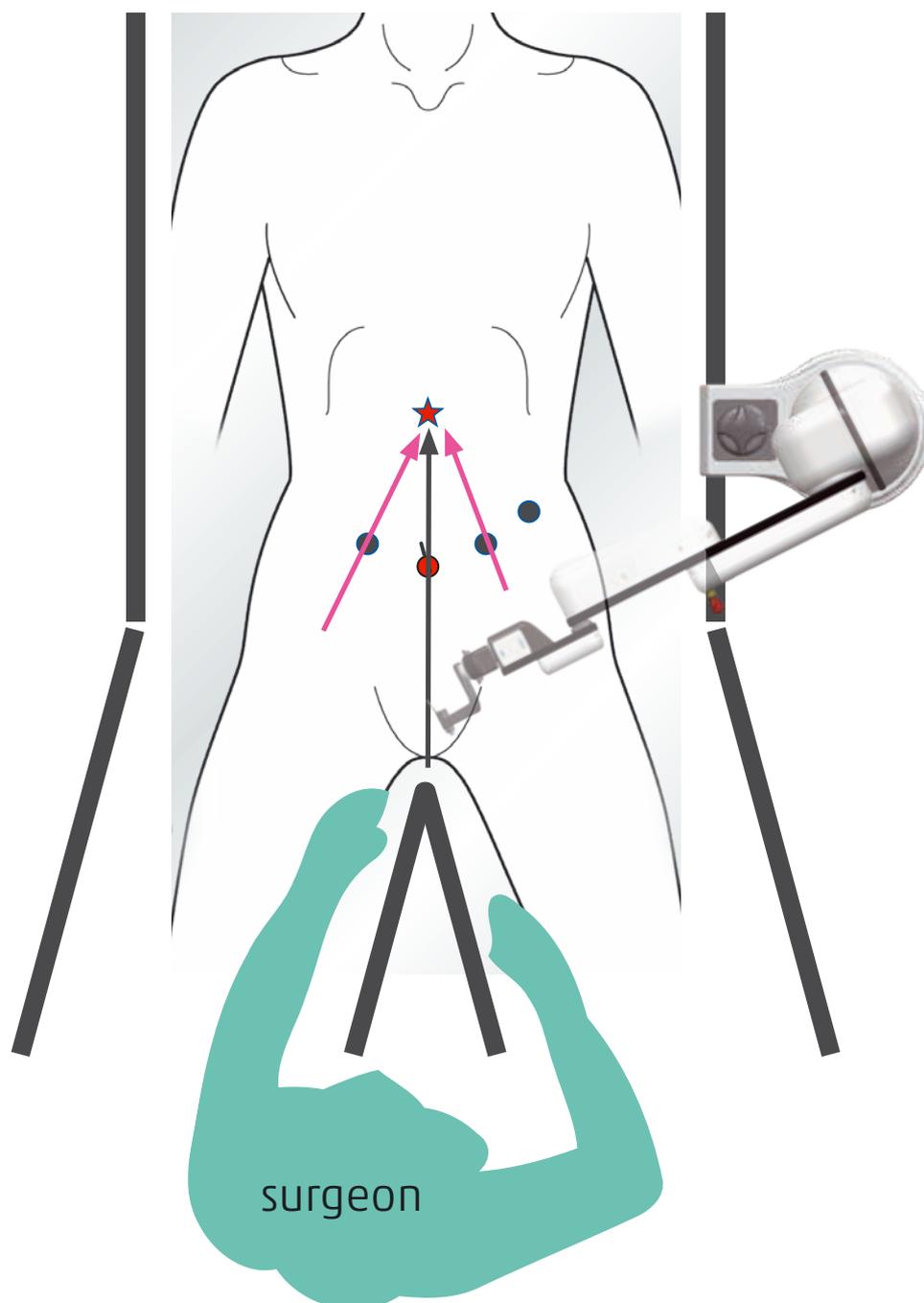
Body position	Lithotomy	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Between the legs		



# SOLOASSIST II POSITION

## LAPAROSCOPIC FUNDOPLICATION

Body position	Lithotomy	Assistant position	-
Number of ports	3 (4)	SOLOASSIST position	Left
Scope port	Umbilicus	Universal joint	45° CW
Surgeon position	Between the legs		

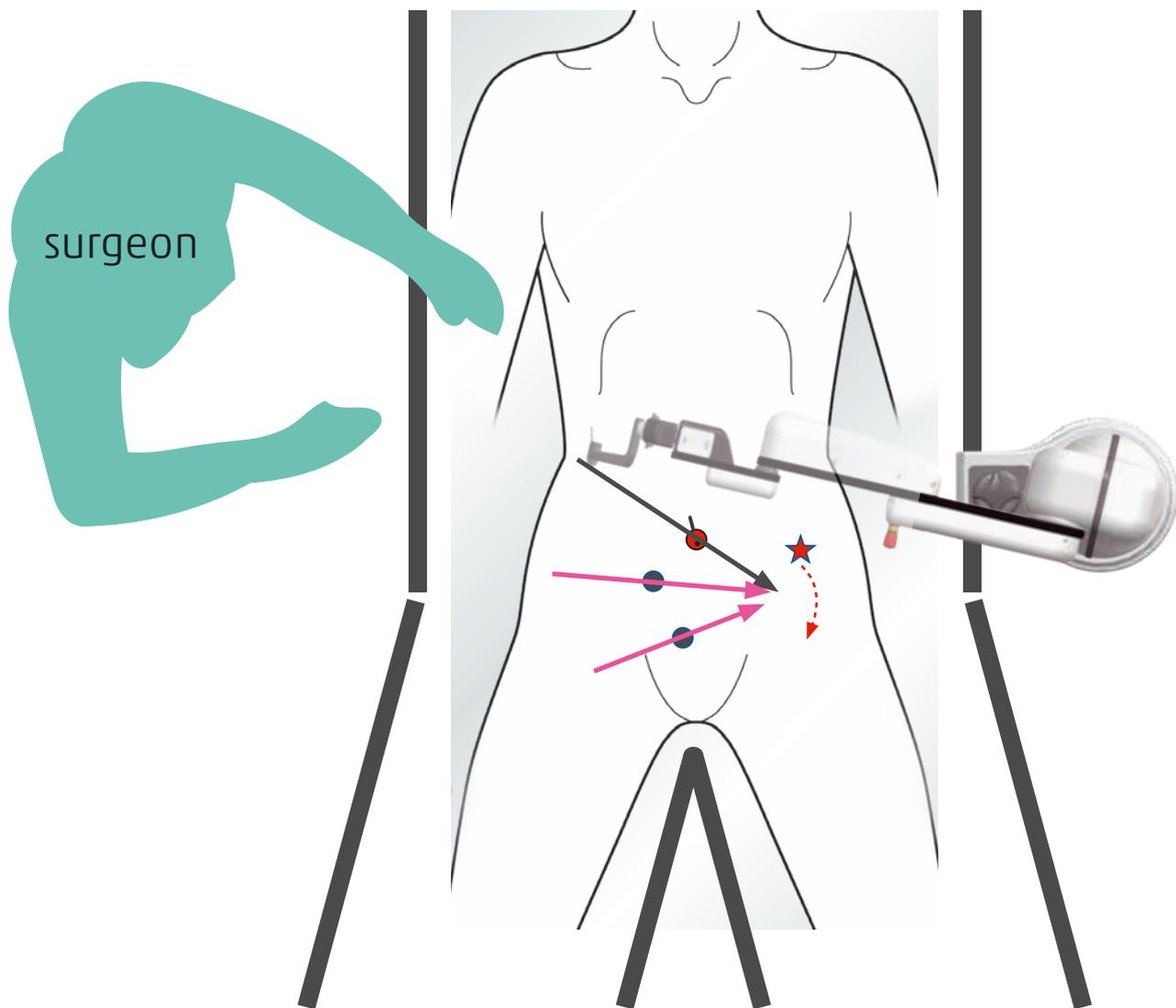


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LAPAROSCOPIC SIGMA RESECTION

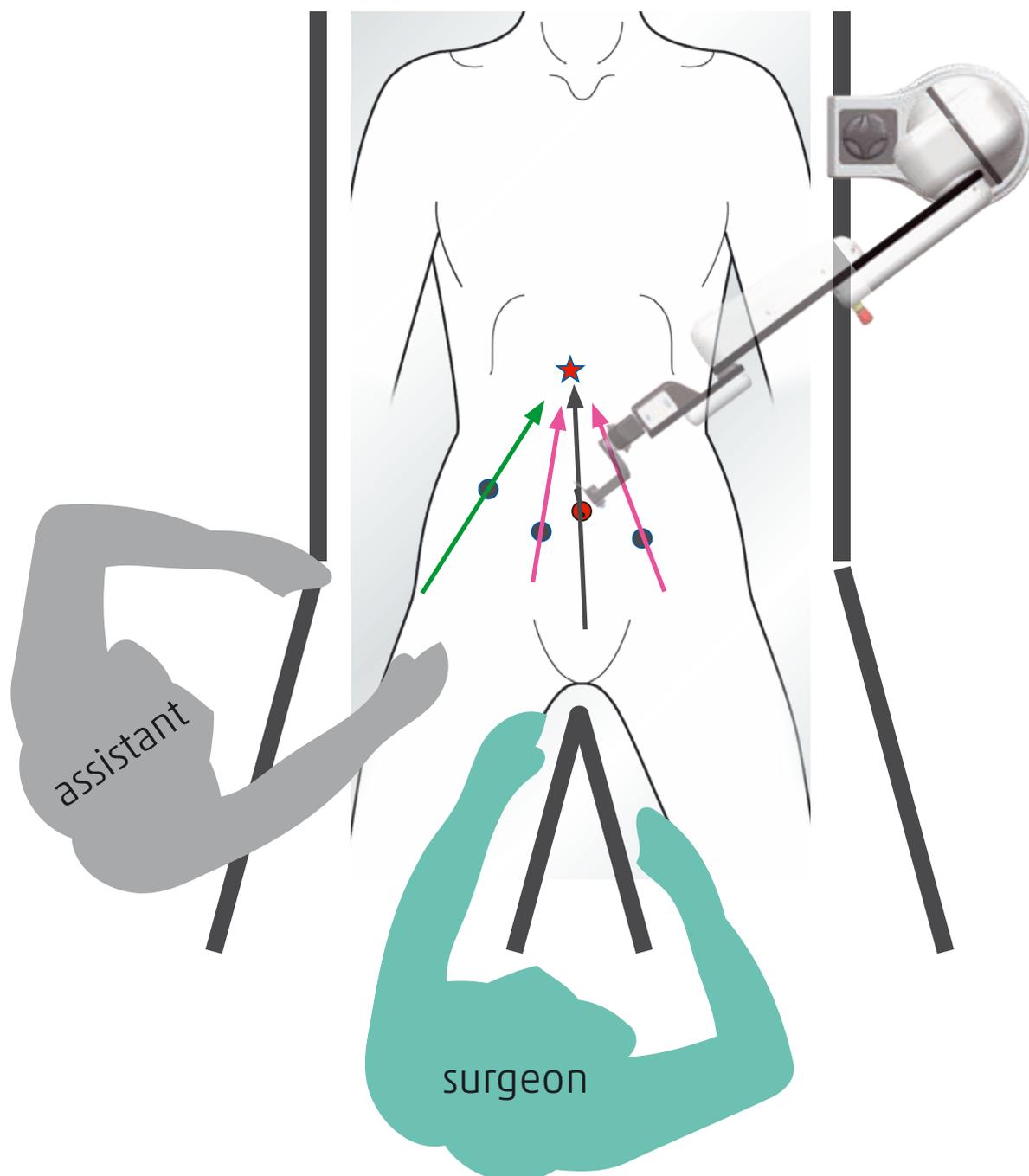
Body position	Lithotomy	Assistant position	-
Number of ports	3 (4)	SOLOASSIST position	Left
Scope port	Umbilicus	Universal joint	0°
Surgeon position	Right		



# SOLOASSIST II POSITION

## LAPAROSCOPIC GASTRIC SLEEVE

Body position	Lithotomy	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Between the legs		

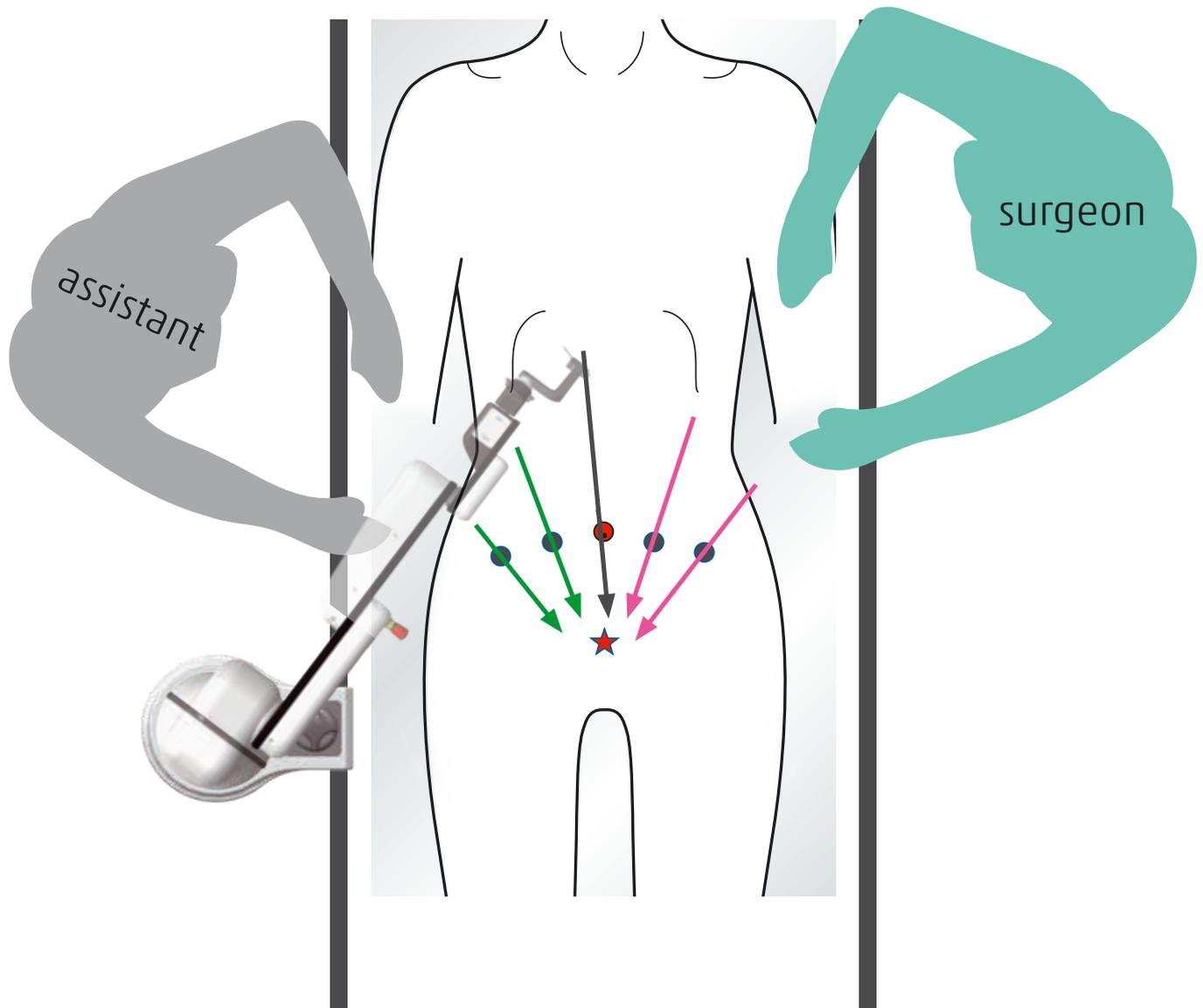


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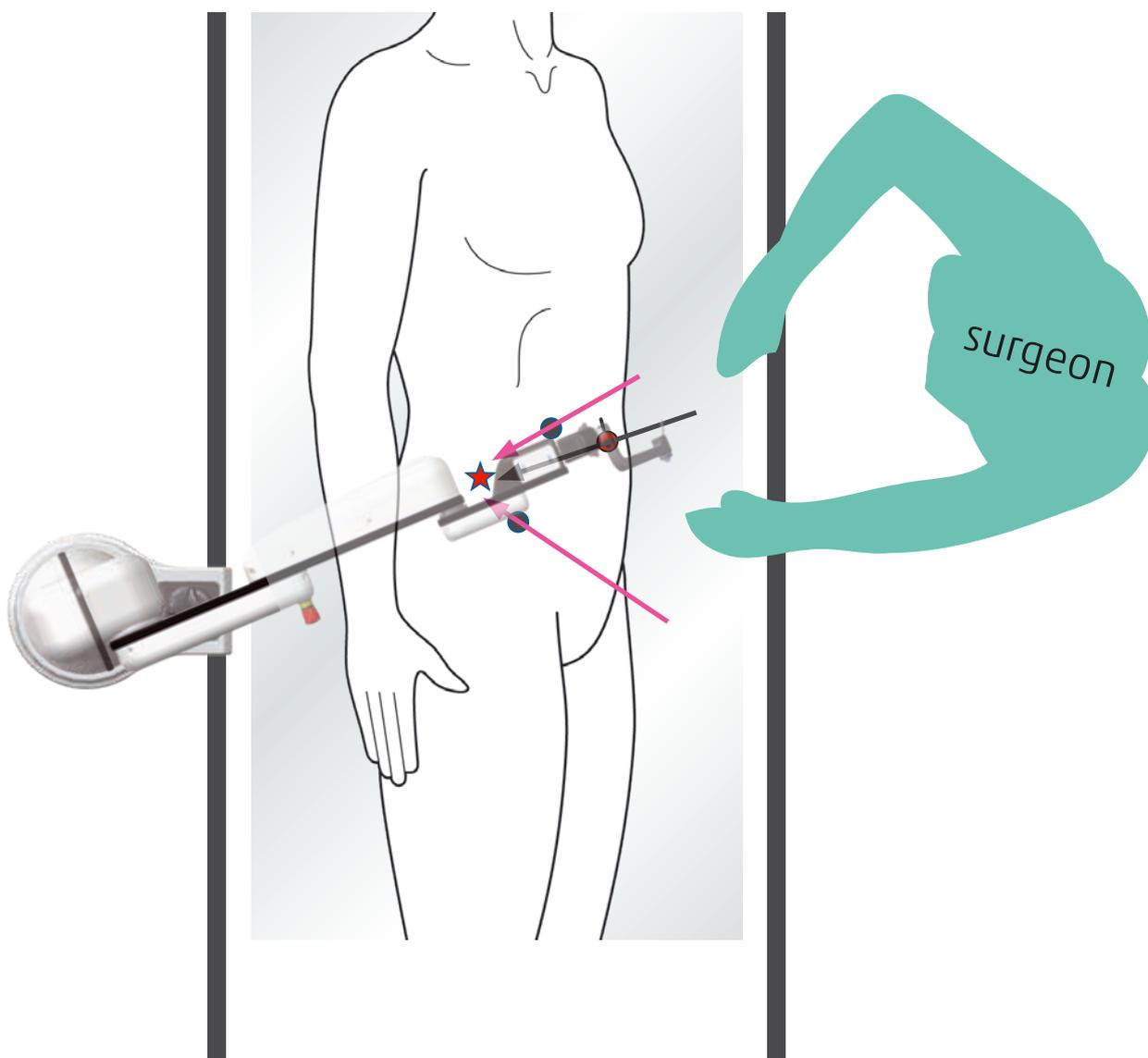
LAPAROSCOPIC PROSTATECTOMY /  
ENDOSCOPIC EXTRAPERITONEAL RADICAL PROSTATECTOMY

Body position	Supine	Assistant position	Right
Number of ports	5	SOLOASSIST position	Lower right
Scope port	Umbilicus	Universal joint	45° CW
Surgeon position	Left		



## LAPAROSCOPIC NEPHRECTOMY RIGHT

Body position	45° Side	Assistant position	-
Number of ports	3	SOLOASSIST position	Right
Scope port	Umbilicus	Universal joint	0°
Surgeon position	Left		

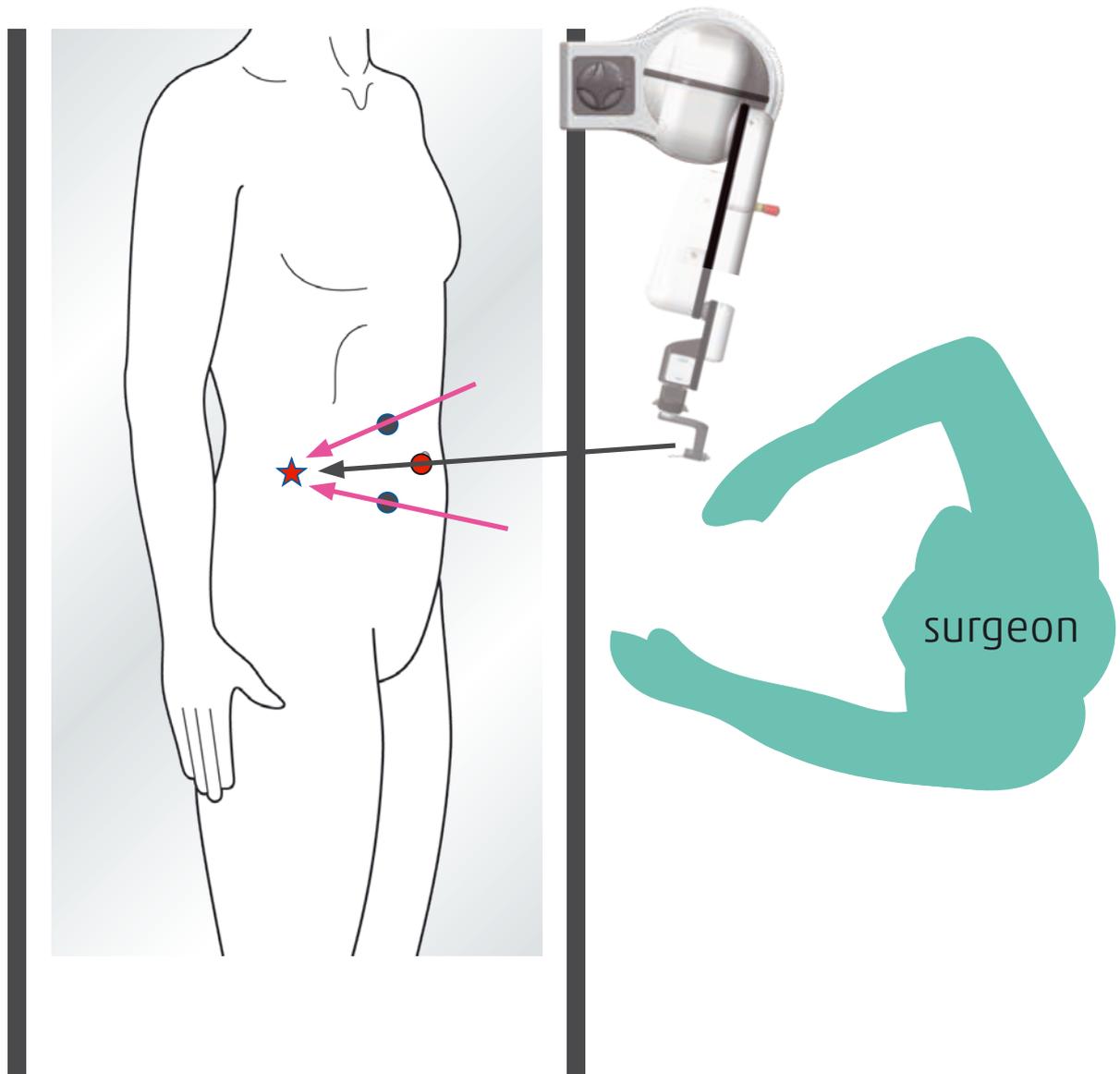


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LAPAROSCOPIC NEPHRECTOMY RIGHT (ALTERNATIVE)

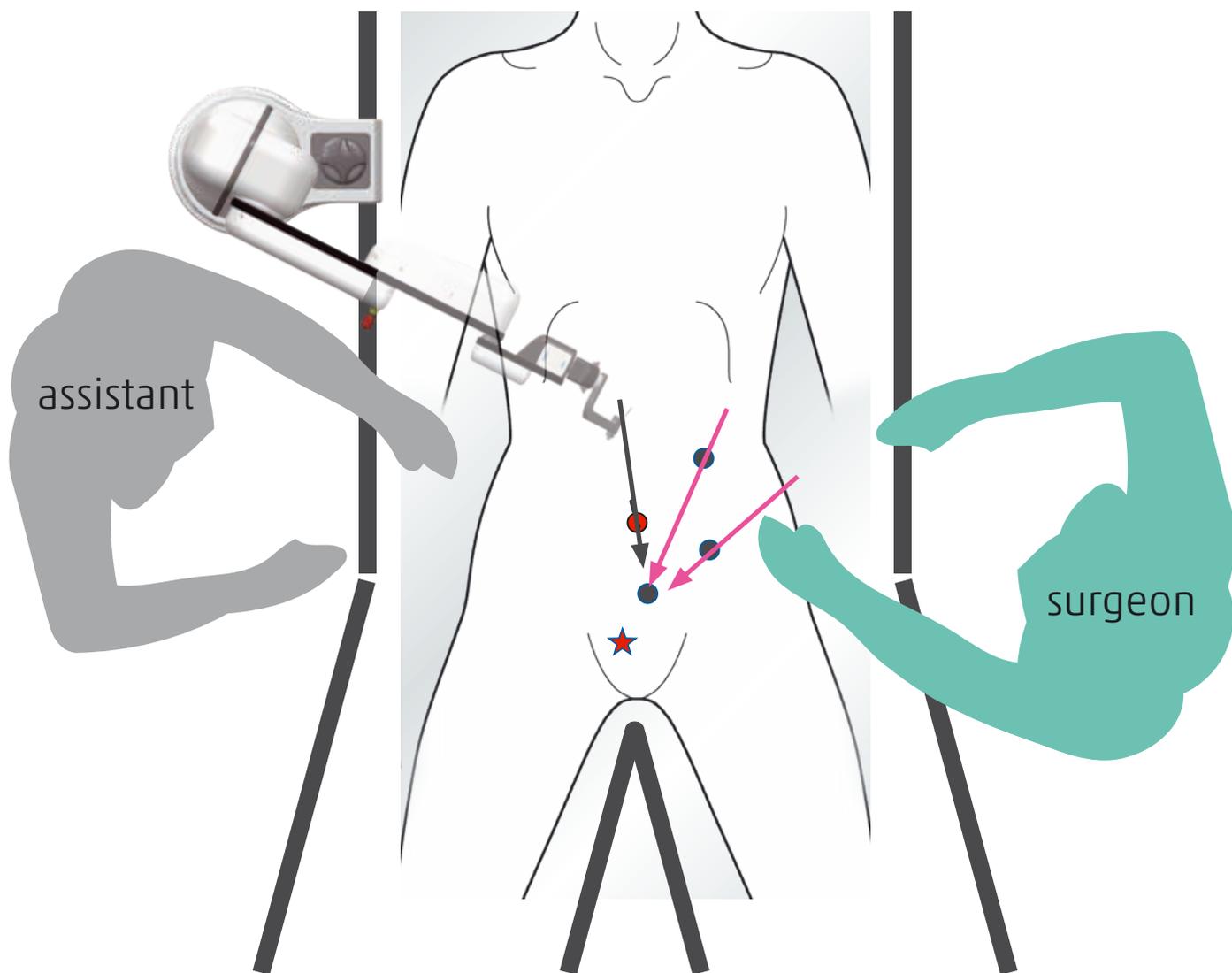
Body position	45° Side	Assistant position	-
Number of ports	3	SOLOASSIST position	Upper left
Scope port	Umbilicus	Universal joint	180° CW
Surgeon position	Left		



# SOLOASSIST II POSITION

## LAPAROSCOPIC HYSTERECTOMY

Body position	Lithotomy	Assistant position	Right
Number of ports	4	SOLOASSIST position	Upper right
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Left		

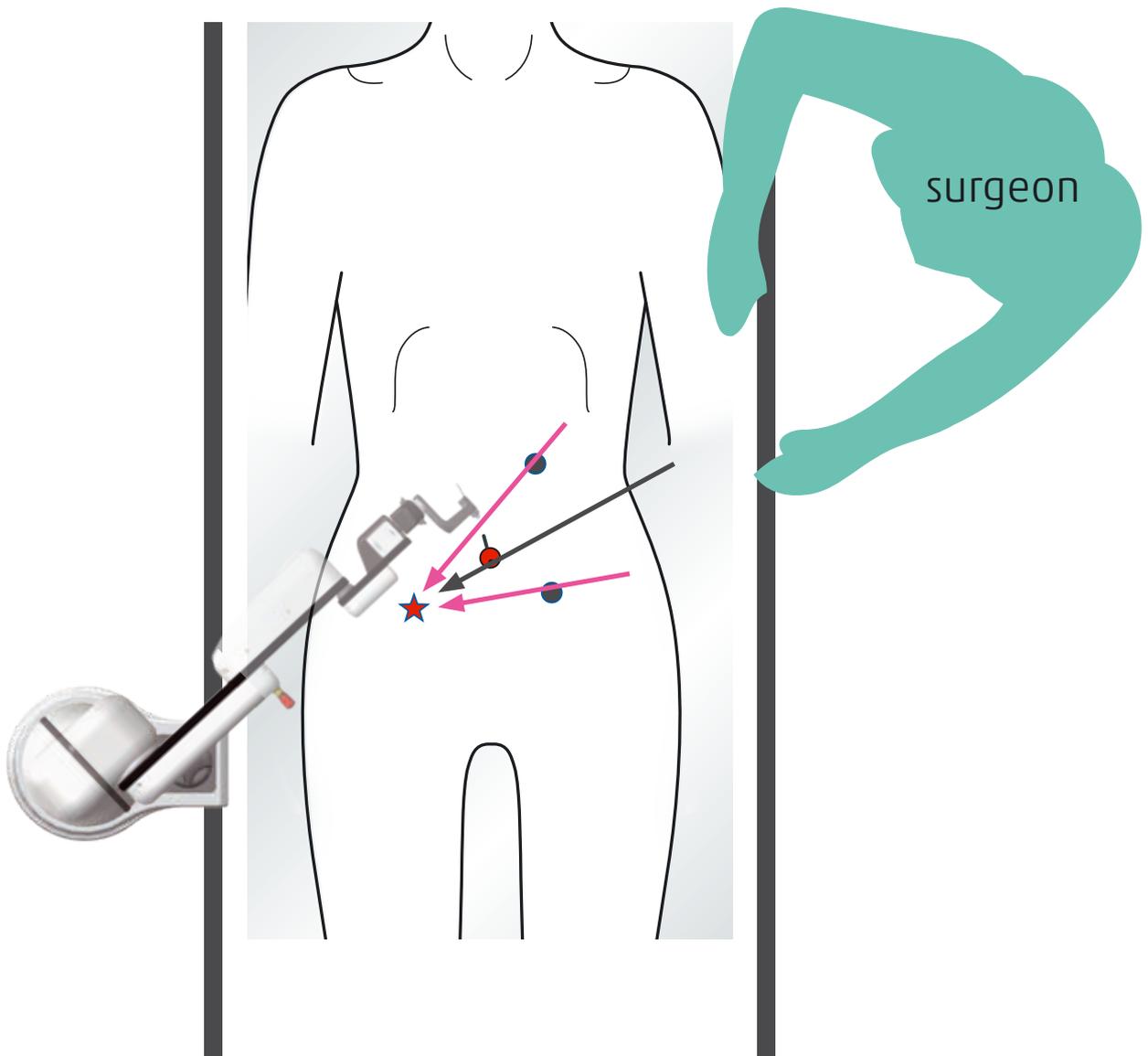


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LAPAROSCOPIC OVARIAN CYSTECTOMY

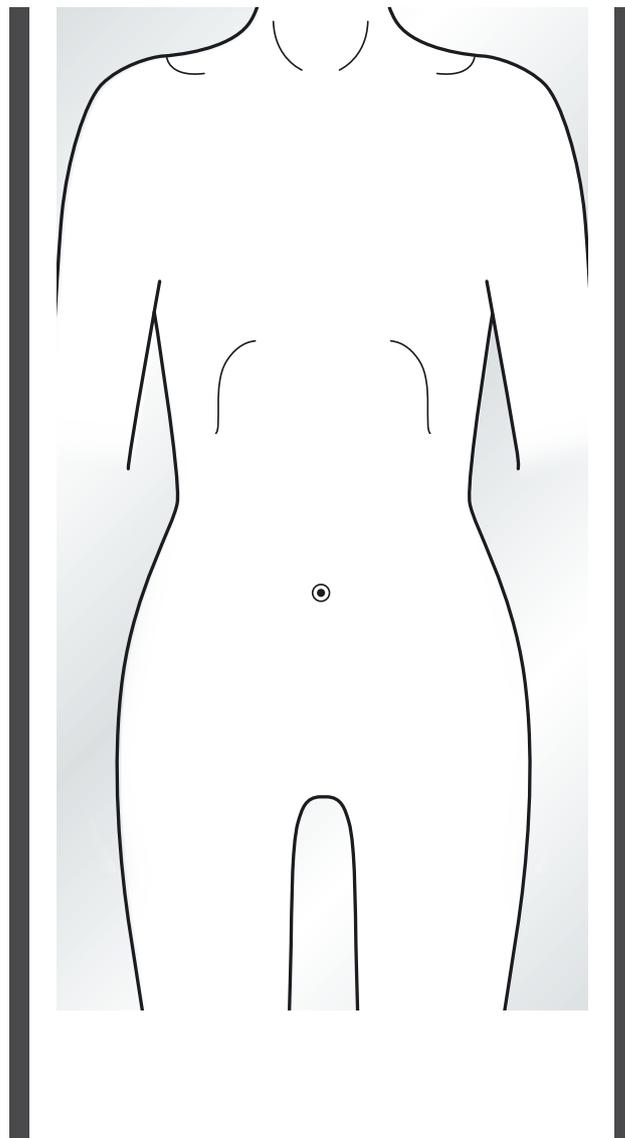
Body position	Supine	Assistant position	-
Number of ports	3	SOLOASSIST position	Lower right
Scope port	Umbilicus	Universal joint	45° CCW
Surgeon position	Upper left		



# SOLOASSIST II POSITION

## PROCEDURE

Body position	_____	Assistant position	_____
Number of ports	_____	SOLOASSIST position	_____
Scope port	_____	Universal joint	_____
Surgeon position	_____		

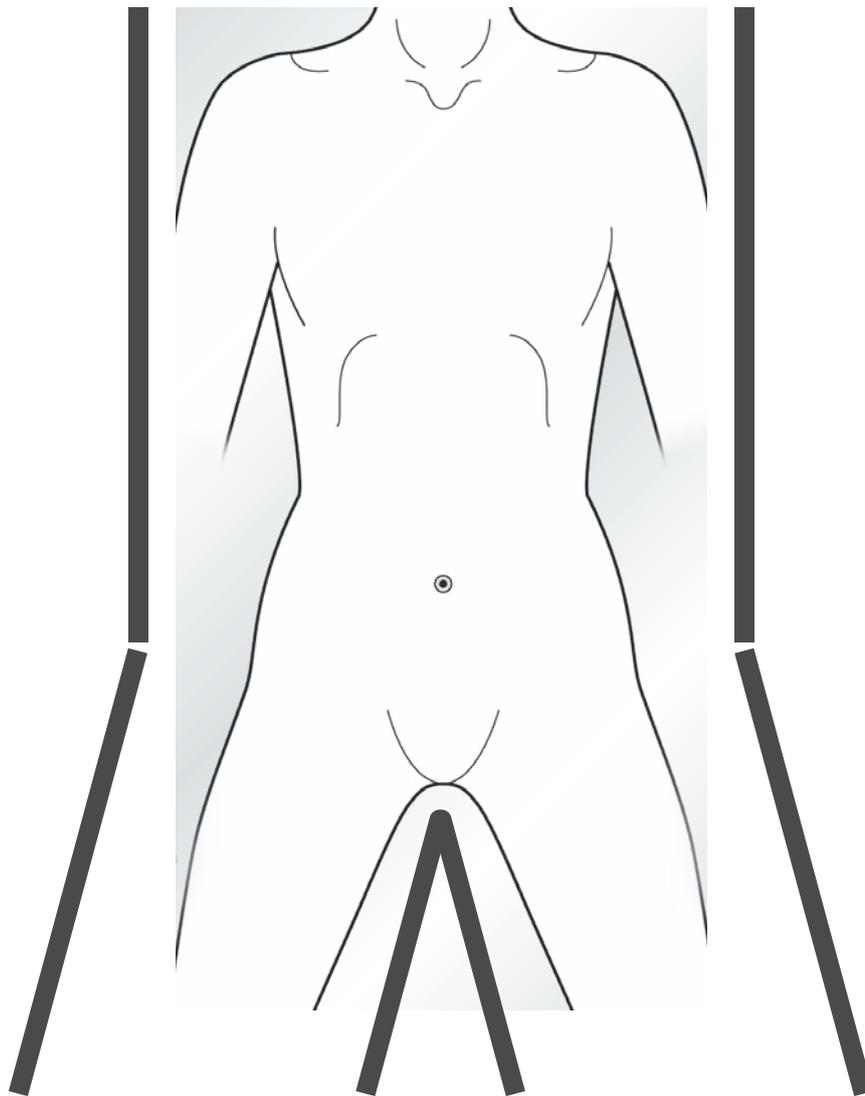


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PROCEDURE

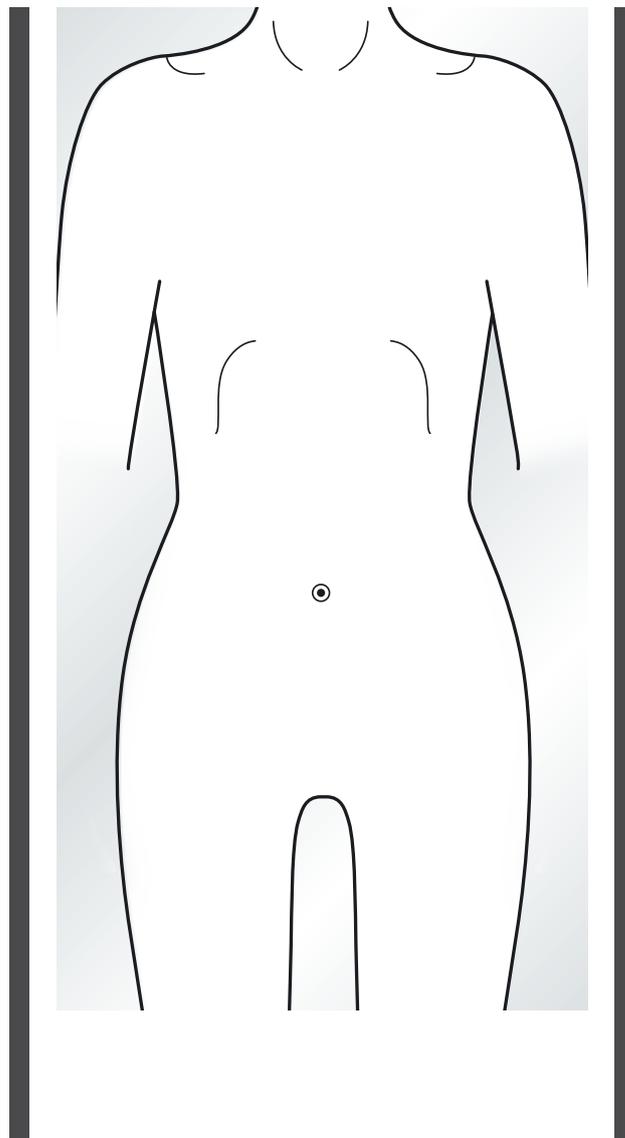
Body position	_____	Assistant position	_____
Number of ports	_____	SOLOASSIST position	_____
Scope port	_____	Universal joint	_____
Surgeon position	_____		



# SOLOASSIST II POSITION

## PROCEDURE

Body position	_____	Assistant position	_____
Number of ports	_____	SOLOASSIST position	_____
Scope port	_____	Universal joint	_____
Surgeon position	_____		

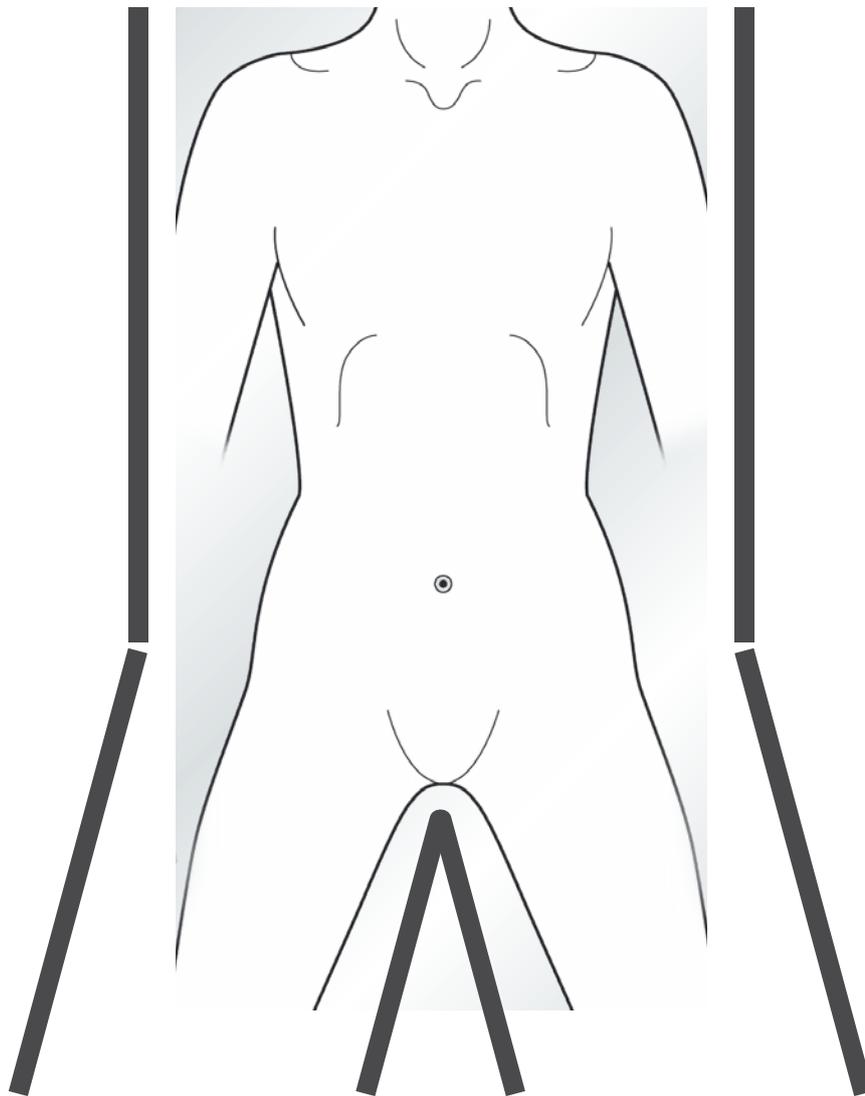


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PROCEDURE

Body position	_____	Assistant position	_____
Number of ports	_____	SOLOASSIST position	_____
Scope port	_____	Universal joint	_____
Surgeon position	_____		



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