

Abdominal keyhole surgery with spinal anesthesia

Submission date 30/10/2020	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 01/07/2024	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
Last Edited 03/09/2024	Condition category Urological and Genital Diseases	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Pelvic surgery is performed with the patient in the Trendelenburg position (lying on the operating table which is angled so that the head is lower than the feet) and with high intraabdominal CO₂ pressure in order to move the intestines out of the surgical field and to create an optimal view for the surgical team.

The aim of this study is to assess the effectiveness and safety of laparoscopic surgery with spinal anesthesia in the Trendelenburg position with different pressures of CO₂. What is the best protocol in terms of risk and comfort for the patient and the surgeon?

Who can participate?

Women due to undergo laproscopic surgery

What does the study involve?

The surgery is carried out as usual. Different pressures of CO₂ are used to investigate the effect on ease of performing the surgery and the level of risk to the patient.

What are the possible benefits and risks of participating?

None

Where is the study run from?

Medline Clinics (Uzbekistan)

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

December 2018 to October 2020

Who is funding the study?

ESTHER Switzerland – Network for the promotion of Institutional Health Partnerships (IHP)

Who is the main contact?

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Additional identifiers

Study information

Scientific Title

Laparoscopic surgery with spinal anesthesia: a prospective observational study

Study objectives

The primary objective is to evaluate the feasibility of laparoscopic surgery of the pelvic organs under loco-regional anesthesia. Patient and surgeon comfort are analyzed by using different parameters of the laparoscopic procedure (degree of Trendelenburg inclination, pressure of CO₂-pneumoperitoneum, type of operation, length of operation). Side effects will be recorded. The secondary objective is to analyse the recovery of the patient after surgery.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 02/12/2018, Ethical Committee at Tashkent Medical Academy, Urgench branch, Uzbekistan (14, H.Olimjon str, Urgench, Khorezm region, 220100, Uzbekistan; +998 (0) 995649170; no email provided), ref: 01/2016

Study design

Prospective observational study

Primary study design

Observational

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Gynecological diseases in the pelvis

Interventions

Laparoscopic surgery was performed for pelvic diseases using spinal anesthesia and with the patient in the Trendelenburg position, using different CO₂ pressures for pneumoperitoneum. Without or with very low CO₂ pressures the uterus was pushed with a cervical manipulator forceps towards the abdominal wall in order to view the organs of the pelvis. No additional medicine was used intravenously. Pneumoperitoneum was generated with CO₂ gas between 4 to 14 mmHg.

Intervention Type

Procedure/Surgery

Primary outcome(s)

Measured using a survey before, during and post surgery:

1. Comfort of the patient and the surgeon
2. Pain during the operation
3. Feasibility of performing the surgery
4. Questions about satisfaction (changes or symptoms pre-and post-operatively, time of recovery, satisfaction with information, improvement in well being, recommending the operation)

Key secondary outcome(s)

Measured using self-report on a 0–10 scale (0=minimum, 10=maximum impairment) before, during and post surgery:

1. Symptoms (pain, postoperative symptoms)
2. Side effects (headache, nausea)

3. Quality of life (felt tired/drained/lacking energy, felt irritable/snappy, felt depressed/tearful, general evaluation of health, change in body perception)

Completion date

30/10/2020

Eligibility

Key inclusion criteria

1. Women who will undergo laparoscopic surgery in the lower abdomen
2. Minimum follow up of 6 months

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Female

Total final enrolment

93

Key exclusion criteria

1. Contraindication for loco-regional anesthesia
2. Do not consent to complete the questionnaire

Date of first enrolment

09/01/2019

Date of final enrolment

23/05/2019

Locations

Countries of recruitment

Uzbekistan

Study participating centre

Medline Clinics

14, H.Olimjon str

Urgench

Uzbekistan

220100

Sponsor information

Organisation
ESTHER

Funder(s)

Funder type
Government

Funder Name
ESTHER Switzerland – Network for the promotion of Institutional Health Partnerships (IHP)

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request.

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		14/06/2024	28/08/2024	Yes	No