

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jun 2026

Comparative assessment of the complication of using electrocauterization and scalpel in abdominal wall incision in hysterectomy

Protocol summary

Study aim

Comparison of the use of cauterization and scalpel in abdominal vascular surgery incision in hysterectomy patients

Design

Sampling was convenience. A total of 100 women undergoing hysterectomy with transverse incision in Imam Sajjad Hospital in 2020 who are eligible for the study are selected and then randomly divided into two groups: scalpel and cauterization. The rate of postoperative infection in both scalpel and cauterization groups, the rate of wound opening in both groups one month after surgery, pain in the first, second and eighth days after surgery and postoperative bleeding in both groups, were assessed.

Settings and conduct

After receiving the code of ethics from Yasouj University of Medical Sciences, the researcher refers to Imam Sajjad Hospital. Sampling was convenience. A total of 100 women undergoing hysterectomy with transverse incision in Imam Sajjad Hospital in 2020 who are eligible for the study are selected and then randomly divided into two groups: scalpel and cauterization. For this purpose, 7 blocks of 6 and 5 blocks of 10 were selected and the samples were assigned to the scalpel and electrocautery groups (46 people in each group), respectively. The rate of postoperative infection in both scalpel and cauterization groups, the rate of wound opening in both groups one month after surgery, pain in the first, second and eighth days after surgery and postoperative bleeding in both groups, were assessed.

Participants/Inclusion and exclusion criteria

The study population is women who underwent hysterectomy with transverse incision in 2020 in Imam Sajjad Hospital in Yasuj.

Intervention groups

All women living in Yasuj who underwent using

cauterization and scalpel and do not have coagulation disorders.

Main outcome variables

the rate of wound infection after surgery, pain in the first, second and eighth days after surgery and postoperative bleeding

General information

Reason for update

Acronym

ندارد

IRCT registration information

IRCT registration number: **IRCT20200919048762N1**

Registration date: **2020-10-20, 1399/07/29**

Registration timing: **retrospective**

Last update: **2020-10-20, 1399/07/29**

Update count: **0**

Registration date

2020-10-20, 1399/07/29

Registrant information

Name

Parvin Ghaffari

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 74 3100 1000

Email address

parvin.ghafari@yums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-09-01, 1398/06/10

Expected recruitment end date

2020-06-21, 1399/04/01

Actual recruitment start date

2019-12-01, 1398/09/10

Actual recruitment end date

2020-08-22, 1399/06/01

Trial completion date

2020-08-22, 1399/06/01

Scientific title

Comparative assessment of the complication of using electrocauterization and scalpel in abdominal wall incision in hysterectomy

Public title

Complication of abdominal wall incision in hysterectomy

Purpose

Diagnostic

Inclusion/Exclusion criteria**Inclusion criteria:**

All women living in Yasuj who underwent 2020 using cauterization and scalpel and do not have coagulation disorders.

Exclusion criteria:

Reluctance to participate in the study

Age

From **20 years** old to **69 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Actual sample size reached: **98**

Randomization (investigator's opinion)

Randomized

Randomization description

Individual randomization For this purpose, 7 blocks of 6 and 5 blocks of 10 were selected and the samples were assigned to the scalpel and electrocautery groups (46 people in each group), respectively.

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Other

Other design features

No

Secondary Ids

empty

Ethics committees**1**

Ethics committee

Name of ethics committee

Ethics Committee of Yasouj University of Medical Sciences

Street address

Motahari

City

Yasuj

Province

Kohgilouyeh-va-Boyrhmad

Postal code

8913737111

Approval date

2019-07-11, 1398/04/20

Ethics committee reference number

IR.YUMS.REC.1399.049

Health conditions studied**1****Description of health condition studied**

hysterectomy

ICD-10 code

N99.3

ICD-10 code description

Prolapse of vaginal vault after hysterectomy

Primary outcomes**1****Description**

the rate of wound infection one month after surgery, the pain in the first, second and eighth days after surgery, bleeding after the operation

Timepoint

one month after surgery and the first, second and eighth days after surgery

Method of measurement

Visual Analog Scale

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: scalpel and cauterization groups

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center**

Name of recruitment center

بیمارستان امام سجاد یاسوج

Full name of responsible person

Parvin Ghafari

Street address

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City

Yasuj

Province

Kohgilouyeh-va-Boyr Ahmad

Postal code

8313711137

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Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Yasouj University of Medical Sciences

Full name of responsible person

Hossein Mari

Street address

Motahari

City

Yasuj

Province

Kohgilouyeh-va-Boyr Ahmad

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+98 74 3334 6078

Email

oryad.hossein@yums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Yasouj University of Medical Sciences

Proportion provided by this source

20

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

Yasouj University of Medical Sciences

Full name of responsible person

Parvin Ghafari

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Yasouj University of Medical Sciences

Full name of responsible person

Parvin Ghafari

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for updating data**Contact****Name of organization / entity**

Yasouj University of Medical Sciences

Full name of responsible person

Parvin Ghafari

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Not applicable

Title and more details about the data/document

All data is potentially shareable after unidentified individuals

When the data will become available and for how long

The access period starts 6 months after the results are published.

To whom data/document is available

The data is available to everyone after the results are published.

Under which criteria data/document could be used

Anyone can contact the researcher via the her email.

From where data/document is obtainable

Anyone can contact the researcher via the her email or mobile phone number.

What processes are involved for a request to access data/document

He/ she can receive a response within a maximum of two weeks.

Comments

Thank you