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-Boyrahmad
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
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Motahari
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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
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Kohgilouyeh-va-Boyrahmad
Postal code
8313737111
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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
Position
Assistant Professor
Latest degree
Specialist
Other areas of specialty/work
Gynecology and Obstetrics
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Person responsible for updating data

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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