Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Comparison Chromic Catgut versus Vicryl Sutures for Episiotomy Repair on Perineal Pain and Wound Repair Outcomes

Protocol summary

Summary

The objective of this study was to compare chromic catgut and vicryl sutures for repair of episiotomy following childbirth, regarding the incidence of pain and wound repair. This randomized controlled trial was carried out at Rasoul Akram hospital of Rasht between 2013 and 2014. A total of 102 (51 in each group) healthy women who had undergone vaginal deliveries with episiotomies were allocated to undergone episiotomy using chromic catgut or vicryl sutures. In the first group, the incision was repaired with vicryl sutures and in the other group the incision was repaired with chromic catgut. In both groups all the episiotomies were right mediolateral and were repaired by a standard three-step approach. The vaginal mucosa was repaired with continuous interlocking suture; the perineal muscle was sutured with intermittent suture and the skin closure was done with mattress suture. Frequency and degree of pain were evaluated by visual analog scale at 12-24 hours and one week postpartum days. Wound repair was evaluated by REEDA instrument consisted of edema, ecchymosis, redness, discharge, approximation,at 12-24 hours and one week after birth.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014030816897N1**
Registration date: **2014-04-19, 1393/01/30**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-04-19, 1393/01/30

Registrant information

Name

maryam moridi

Name of organization / entity

Guilan University of medical sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Guilan University of Medical Sciences

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2014-03-21, 1393/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison Chromic Catgut versus Vicryl Sutures for Episiotomy Repair on Perineal Pain and Wound Repair Outcomes

Public title

Chromic Catgut Versus Vicryl sutures for episiotomy repair

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: gestational age between 37-42week; singleton alive fetus; cephalic presentation; no surgical history in perinea and vagina; no chronic diseases; no infectious diseases or fever and no use of certain

medications, such as glucocorticoids, anticoagulants, chemotherapy, immunosuppressant, radiation. Exclusion criteria: disruptions in delivery (first stage more than 20 hours and Prolonged second stage more than 2 hour (prolonged labor) or cervical dilatation more than 5 cm/h or duration or labor less than 3 hours (precipitate labor)); third-or fourth-degree lacerations; spontaneous laceration in perinea; vaginal laceration; cervical laceration; hematoma in the first hours after delivery and delivery by assistance tools.

Age
From **18 years** old to **35 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **102**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Guilan University of Medical Sciences

Street address
Vice-chancellor for Research- Gaz Sq. Rasht- Guilan- Iran

City
Rast

Postal code
4193893345

Approval date
2014-02-22, 1392/12/03

Ethics committee reference number
2920422819

Health conditions studied

1

Description of health condition studied
Perineal laceration during delivery

ICD-10 code
070.0

ICD-10 code description
Perineal laceration during delivery

Primary outcomes

1

Description
perineal pain

Timepoint
12-24 hour and one week after delivery

Method of measurement
Visual Analogue scale

Secondary outcomes

1

Description
Wound repair outcomes

Timepoint
12-24 hours and one week after delivery

Method of measurement
REEDA scale

Intervention groups

1

Description
Repair of episiotomy with vicryl in intervention group

Category
Treatment - Surgery

2

Description
Repair of episiotomy with chromic catgut in control group

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Rasoul Akram Hospital

Full name of responsible person
Homira Nazifkar

Street address
Rasoul Akram Hospital- Rasht- Guilan- Iran

City
Rast

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Guilan University of Medical Sciences
Full name of responsible person
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Guilan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty