

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jun 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

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Name of organization / entity

Guilan University of medical sciences

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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 of labor less than 3 hours (precipitate labor)); third-or fourth-degree lacerations; spontaneous laceration in perineum; 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

Rasht

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

Rasht

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Guilan University of Medical Sciences

Full name of responsible person

Maryam Moridi

Street address

Vice-chancellor for Research- Gaz Sq. Rasht- Guilan-
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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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Full name of responsible person

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Position

Instructor- Academic member

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Web page address

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