

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of modified subcutaneous running suture versus vertical mattress sutures on cosmetic and post operative outcomes in appendectomy surgery

Protocol summary

Study aim

Comparison of modified subcutaneous running suture versus vertical mattress sutures on cosmetic and post operative outcomes in appendectomy surgery

Design

The clinical trial has a control group with parallel groups, one-sided blind, randomized with two groups consisting of 90 patients who were randomized using the website www.sealedenvelope.com and 60 patients were included in the control group and 30 patients in the trial group.

Settings and conduct

Appendectomy surgery is performed with the two types of sutures described above in Imam Ali Karaj Hospital

Participants/Inclusion and exclusion criteria

Entry requirements : Consent to participate in research/age below 20 years/stable patient Non-entry conditions: Age over 20 years/abdominal infection/emergency case/pregnancy/perforated appendicitis

Intervention groups

The intervention is a type of suture trial group: modified subcutaneous suture control group: vertical mattress suture

Main outcome variables

Suture type/Scar evaluation from the point of view of aesthetics/Post-operative pain level/Duration of suture/Symptoms due to infection/Duration of hospitalization/Age/Gender/Weight/Height

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20221210056767N1**

Registration date: **2022-12-17, 1401/09/26**

Registration timing: **prospective**

Last update: **2022-12-17, 1401/09/26**

Update count: **0**

Registration date

2022-12-17, 1401/09/26

Registrant information

Name

Saba Ghaemi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 26 3420 6031

Email address

s.ghaemi@abzums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-12-21, 1401/09/30

Expected recruitment end date

2023-07-21, 1402/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of modified subcutaneous running suture versus vertical mattress sutures on cosmetic and post operative outcomes in appendectomy surgery

Public title

Comparison of modified subcutaneous running suture versus vertical mattress sutures on cosmetic and post operative outcomes in appendectomy surgery

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Consent to participate in the research Age under 20 years old Stable patient

Exclusion criteria:

Age more than 20 years old Abdominal infection
Perforated Appendicitis Pregnancy

Age

From **1 year** old to **20 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

We make an envelope for each patient, and in each envelope we put twice the chance of the control and one time the chance of the trial, that is, two green cards (control group) and one red card (trial group) in each envelope. we put . Then we randomly remove a card from the envelope, if the card is green, the patient is In the control category, if the card is red, the patient is included in the trial group. Regarding randomization, 6 random blocks were generated with the help of www.sealedenvelope.com , where the number of group a is twice the number of group b.

Blinding (investigator's opinion)

Single blinded

Blinding description

The patient is not aware of the type of suture used in the surgery

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Alborz University of Medical Sciences

Street address

Ethics committee office, 2nd floor, Research and Technology Vice-Chancellor, Safarian Alley, 45 metri Golshahr

City

Karaj

Province

Alborz

Postal code

3198764653

Approval date

2022-12-03, 1401/09/12

Ethics committee reference number

IR.ABZUMS.REC.1401.248

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

modified subcutaneous running suture

ICD-10 code**ICD-10 code description****2****Description of health condition studied**

cosmetic result of scar

ICD-10 code**ICD-10 code description****3****Description of health condition studied**

Appendectomy surgery

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Scar review in terms of beauty

Timepoint

6 weeks after surgery

Method of measurement

Based on the PSQ questionnaire

2**Description**

The amount of pain after the operation

Timepoint

6 weeks after surgery

Method of measurement

Based on the VAS questionnaire

3**Description**

Symptoms caused by infection

Timepoint

6 weeks after surgery

Method of measurement

Based on the form in which the symptoms are explained

to the patient

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: the use of continuous subcutaneous sutures in appendectomy surgery, where the major part of the wound is sutured subcutaneously and continuously, and finally a simple suture is applied.

Category

Treatment - Surgery

2

Description

Control group: Using a vertical mattress suture method that is commonly used in appendectomy surgery

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali Hospital

Full name of responsible person

Saba Ghaemi

Street address

Imam Ali Hospital, Vali Asr Boulevard, Shora Boulevard, Islam Abad

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3154686695

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Email

emamali@abzums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Karaj University of Medical Sciences

Full name of responsible person

Razieh Lotfi

Street address

Research and Technology Vice-Chancellor, Safarian alley, Golshahr 45 metri

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Research@abzums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

No

Title of funding source

Karaj University of Medical Sciences

Proportion provided by this source

100

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

Karaj University of Medical Sciences

Full name of responsible person

Saba Ghaemi

Position

Medical intern

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

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Email

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Karaj University of Medical Sciences

Full name of responsible person

Saba Ghaemi

Position

Medical intern

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

there is no further information

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

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

Karaj University of Medical Sciences

Full name of responsible person

Saba Ghaemi

Position

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Latest degree

Medical doctor

Other areas of specialty/work

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