

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 2026

Effect of semi sitting and supine position on serum levels of inflammatory factors in patients after appendectomy

Protocol summary

Summary

Target: Comparison of the effect of semi sitting and supine position effect on serum levels of inflammatory factors after appendectomy in Dezful large hospital and Imam Ali(AS) Hospital of Andimeshk in 2014. Inclusion criteria: All patients with the diagnosis of acute appendicitis underwent appendectomy based on the history, physical examination and paraclinic findings, and absence of underlying disease that causes high inflammatory factors before surgery. Exclusion criteria: Patients with diabetes, patients who had normal appendix. In this study, 120 patients by blocked randomization will be put into four groups (each group consisted of 30 people). The first intervention group patients after surgery in the supine position will receive three doses of antibiotics, In the second group of patients after surgery in the supine position will receive one dose of antibiotics, The third group of patients after surgery with three doses of antibiotics will have a semi-upright position and Four patients in the intervention group after surgery with a dose of antibiotics will have a semi-upright position. Then all of them will be evaluated 2 hours before, and 2 and 24 hours after surgery for inflammatory markers (CRP, ESR, leukocytes, and neutrophils) using blood samples, as well as temperature. The expected outcome of the study are the average amount of WBC, ESR, CRP, neutrophil and temperatures in the four groups at 24 hours after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014102819733N1**

Registration date: **2015-11-28, 1394/09/07**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2015-11-28, 1394/09/07

Registrant information

Name

Mohammad Maniey

Name of organization / entity

Dezful University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Dezful University of Medical Sciences

Expected recruitment start date

2016-02-14, 1394/11/25

Expected recruitment end date

2016-10-31, 1395/08/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of semi sitting and supine position on serum levels of inflammatory factors in patients after appendectomy

Public title

Effect of semi sitting position on inflammatory factors after appendectomy

Purpose

Supportive

Inclusion/Exclusion criteria
Inclusion Criteria : All patients on the basis of history and physical examination and laboratory findings; the diagnosis of acute appendicitis underwent appendectomy be; People aged 10 to 50 years; Not addicted to drugs; there is no underlying disease that is caused by elevated inflammatory markers before surgery; Consent to participate in the study and blood; having full consciousness baseline; If the body's inflammatory factors in sample 2 hours before and 2 hours after surgery are higher than normal. Exclusion Criteria : Diabetes; cancer; patients who had normal appendicitis; Patients with a history of previous infections and antibiotic use during the past week, a history of allergy to cephalosporins; Patients receiving immunosuppressive such as corticosteroids and cytotoxic drugs or taking anti-inflammatory drugs; Patients release from the hospital earlier than 24 hours.

Age
From **10 years** old to **50 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **120**

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

Ethics committee of Dezful University of Medical Sciences

Street address

Next The Police Department, Azadegan Boulevard, Dezful

City

Dezful

Postal code

6461653476

Approval date

2015-07-29, 1394/05/07

Ethics committee reference number

IR.DUMS.REC.1394.10

Health conditions studied

1

Description of health condition studied

Acute Appendicitis

ICD-10 code

K35

ICD-10 code description

Acute Appendicitis

Primary outcomes

1

Description

CRP

Timepoint

2 Hours Before; 2 And 24 Hours After Intervention (reposition)

Method of measurement

Blood Samples, Immuno-agglutination Assay

2

Description

ESR

Timepoint

2 Hours Before; 2 And 24 Hours After Intervention (reposition)

Method of measurement

Blood Samples, Green Blot Method

3

Description

Leukocytes

Timepoint

2 Hours Before; 2 And 24 Hours After Intervention (reposition)

Method of measurement

Blood Samples, Cell Count Method

4

Description

Neutrophils

Timepoint

2 Hours Before; 2 And 24 Hours After Intervention (reposition)

Method of measurement

Blood Samples, Cell Count Method

5

Description

Temperature

Timepoint

2 Hours Before; 2 And 24 Hours After Intervention

(reposition)
Method of measurement
Mercury Thermometer

Secondary outcomes

empty

Intervention groups

1

Description

1)The first intervention group patients after surgery in the supine position and will receive three doses of antibiotics as directed by physician and 2 Hours, 2 and 24 hours after surgery for inflammatory markers CRP, ESR, leukocytes, neutrophils will be evaluated using blood samples, as well as temperature.

Category

Prevention

2

Description

2)In the second intervention group patients after surgery in the supine position and will receive one dose of antibiotics as directed by their physician and 2 Hours, 2 and 24 hours after surgery for inflammatory markers CRP, ESR, leukocytes, neutrophils will be evaluated using blood samples, as well as temperature.

Category

Prevention

3

Description

3)In the third study, patients received three doses of antibiotics after surgery, according to the doctor and have a semi-upright position and 2 Hours, 2 and 24 hours after surgery for inflammatory markers CRP, ESR, leukocytes, neutrophils will be evaluated using blood samples, as well as temperature.

Category

Prevention

4

Description

4)In the fourth study, patients after surgery with a dose of antibiotics will have a semi-upright position and 2 Hours, 2 and 24 hours after surgery for inflammatory markers CRP, ESR, leukocytes, neutrophils will be evaluated using blood samples, as well as temperature.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Dezful Large Hospital
Full name of responsible person
Mohammad Maniey
Street address
Dezful Large Hospital, In Front of Armored Corps 292,
Beginning of The Dezful-Andimeshk Road, Dezful
City
Dezful

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Dezful University of
Medical Sciences

Full name of responsible person

Fereydoun Niroomad

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Dezful University of Medical Sciences, Next The Police
Department, Azadegan Boulevard, Dezful

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Dezful

Grant name

معاونت پژوهشی

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Dezful 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

Dezful University of Medical Sciences

Full name of responsible person

Mohammad Maniey

Position

MSc in Nursing

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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