Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Single dose versus triple dose of antibiotic in prophylaxis of wound infection in acute appendicitis: prospective randomized study

Protocol summary

Summary

The aim of this study was to evaluate the efficacy of preoperative antibiotic prophylaxis in postoperative infection rates in acute appendicitis . This study is a randomized clinical trial of 150 patients with the following inclusion criteria: patients with acute suppurative appendicitis are pleased to participate in the study Exclusion criteria: Patients with a normal appendix, gangrenous, perforated, are included in the study are patients with endocarditis . Patients in the two groups, the first group underwent antibiotic regimen of single-dose metronidazole and ceftriaxone intravenously before surgery and the second group underwent antibiotic regimen of single-dose metronidazole and ceftriaxone intravenously before surgery and two doses postoperatively (Read it after 24 hours surgery) as well. In both groups 24 hours after the dressing was removed and feeding tolerance, good mobility and no fever cleared. Patients treated by a surgeon and the surgical technique (Bernie Mac) is the same for all patients. Within a month after the operation by the surgeon that other colleagues were involved in the operation. The wound infection or abscess treated by clinical examination.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014092219255N1**
Registration date: **2014-10-02, 1393/07/10**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-10-02, 1393/07/10

Registrant information

Name
Novin Nikbakhsh
Name of organization / entity
Babol University of Medical Science
Country
Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Babol University of Medical Sciences

Expected recruitment start date

2013-11-22, 1392/09/01

Expected recruitment end date

2014-11-22, 1393/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Single dose versus triple dose of antibiotic in prophylaxis of wound infection in acute appendicitis: prospective randomized study

Public title

Single dose versus triple dose of antibiotic in prophylaxis of wound infection in acute appendicitis: prospective randomized study

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients with acute suppurative appendicitis are pleased to participate in the study

Exclusion criteria: Patients with a normal appendix; gangrenous; perforated; a patient endocarditis

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Babol University of Medical Sciences

Street address

Babol University of Medical Sciences,University Square,Babol

City

Babol

Postal code

Approval date

2013-11-09, 1392/08/18

Ethics committee reference number

3326

Health conditions studied

1

Description of health condition studied

surgical infection

ICD-10 code

O75.4

ICD-10 code description

Other complications of obstetric surgery and procedures

Primary outcomes

1

Description

Infection

Timepoint

One month

Method of measurement

Clinical

Secondary outcomes

1

Description

Fever and chills

Timepoint

24 hours after surgery

Method of measurement

Clinical

Intervention groups

1

Description

The intervention group received diet antibiotic metronidazole 500 mg single dose and one gram of ceftriaxone intravenously before surgery

Category

Treatment - Drugs

2

Description

Under the control of antibiotic metronidazole 500 mg single dose or two doses of one gram of ceftriaxone intravenously before surgery and after surgery (continuing until 24 hours after surgery) as well

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol Shahid Beheshti Hospital

Full name of responsible person

Street address

City

Babol

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology, Babol University of Medical Sciences

Full name of responsible person

Aliakbar Moghaddamnia

Street address

Babol University of Medical Sciences, University Square,Babol

City

Babol

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor for Research and Technology, Babol 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Novin Nikbakhsh

Position

Associate Professer of Surgery

Other areas of specialty/work

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Fax

Email

novinsu@hotmail.com

Web page address

Person responsible for updating data

Contact

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