

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

07 Jul 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)

##### Phone

+98 11 3225 6285

##### Email address

n.nicbakhsh@mubabol.ac.ir

#### 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 Professor of Surgery

**Other areas of specialty/work**

**Street address**

Shahid Beheshi Hospital, Keshvari Square, Babol

**City**

Babol

**Postal code**

**Phone**

+1 132256285

**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*