

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of single dose versus three doses antibiotic prophylaxis regimen for cesarean section

Protocol summary

Summary

The aim of this study was to compare a single dose of antibiotics administered intravenously with three doses of intravenous antibiotics in preventing infections after cesarean section. During one year of starting the project, 146 pregnant women referred to obstetric clinics in Zanjan and had indication for cesarean section or those who requested cesarean despite of medical advice, underwent cesarean section and then were assigned to receive a single dose or three doses of prophylactic antibiotics (cefazolin 2 g/IV) in the operating room after clamping cord. Rate of infection was compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201011275259N1**
Registration date: **2011-01-04, 1389/10/14**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-01-04, 1389/10/14

Registrant information

Name

Ahmadreza Mobaien

Name of organization / entity

Zanjan Univ.

Country

Iran (Islamic Republic of)

Phone

+98 24 1426 4072

Email address

mobaien@zums.ac.ir

Recruitment status

Recruitment complete

Funding source

Zanjan University of Medical Sciences

Expected recruitment start date

1996-10-01, 1375/07/10

Expected recruitment end date

1997-10-02, 1376/07/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of single dose versus three doses antibiotic prophylaxis regimen for cesarean section

Public title

Prevention of infection after cesarean

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: the number of vaginal examination of hospital stay less than or equal to four times, rupture of membranes for six hours or less, duration of hospitalization less than 24 hours, duration of surgery less than 60 minutes, gestational age more than 36 weeks, body mass index of less than 30. Exclusion criteria: Fever prior to cesarean section, urinary symptoms, no possibility to follow-up for 10 days after the operation, presence of underlying diseases such as diabetes and hypertension, receiving oral or intravenous antibiotics before surgery due to other causes, cesarean due to lack of progress in the second stage of labor, history of corticosteroid use

Age

From **14 years** old to **50 years** old

Gender

Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **146**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Deputy research of Zanjan University of Medical Sciences

Street address

Deputy research of Zanjan University of Medical Sciences, Azadi Sq, Zanjan-Iran

City

Zanjan

Postal code

Approval date

2006-09-23, 1385/07/01

Ethics committee reference number

585/2/6/19

Health conditions studied

1

Description of health condition studied

Infection following cesarean section

ICD-10 code

T81.4

ICD-10 code description

Infection following a procedure

Primary outcomes

1

Description

Symptoms of infection

Timepoint

During the hospital stay after a cesarean every six hours

and then discharged on day 10

Method of measurement

check of Of fever, chills, cellulitis incision, discharge and tenderness of uterine incision

Secondary outcomes

empty

Intervention groups

1

Description

Cefazolin 2 g/IV single-dose, in the operating room after clamping the umbilical cord

Category

Prevention

2

Description

Cefazolin 2 g/IV, three doses, after clamping the cord, 6 hours and 48 hours after cesarean section

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Valiasr Hospital, Zanjan University of Medical Sciences

Full name of responsible person

Street address

City

Zanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy research of Zanjan University of Medical Sciences

Full name of responsible person

Alireza Biglari

Street address

Deputy research of Zanjan University of Medical Sciences, Azadi Sq, Zanjan-Iran

City

Zanjan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy research of Zanjan 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

Sheikh Fazlolah ave, Zanjan-Iran

City

Zanjan

Postal code**Phone**

+98 912 619 1730

Fax**Email**

amobaien@yahoo.com

Web page address**Person responsible for general inquiries****Contact****Name of organization / entity**

Zanjan University of Medical Sciences

Full name of responsible person

Ahmadreza Mobaïen

Position

Tropical and Infectious Diseases Specialist

Other areas of specialty/work**Street address**

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Zanjan University of Medical Sciences

Full name of responsible person

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Other areas of specialty/work**Street address**

Department of Infectious Diseases, Valiasr Hospital,

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