

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

07 Jul 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**

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**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*

**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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**Full name of responsible person**

Ahmadreza Mobaïen

**Position**

Tropical and Infectious Diseases Specialist

**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*