Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

Effects of propranolol on duration of labor in women with rupture of membranes

Protocol summary

Summary

Premature rupture of membranes due to chorioamnionitis and oxytocin is used for induction of labor after 34 weeks of gestation.Chorioamnionitis with serious maternal and fetal complications and Sepsis can lead to death of mother and fetus. This study will be conducted to evaluate the effect of propranolol on duration of labor. All pregnant women with ruptured of membranes that have inclusion criteria after their informed consent will be recruited . The participants will be randomly divided into two groups. Before induction of labor with oxytocin ,the first group will recieve 2 mg propranolol intravenously and the second group will recieve placebo as the same route. Study outcomes are: the time interval between the start of augmentation and delivery, the average dosage of oxytocin, the length of first and second stages of labor, cesarean section rates and its indications (failure to progress or fetal distress), maternal and fetal complications and neonatal outcomes in two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201211108151N4**
Registration date: **2013-05-20, 1392/02/30**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2013-05-20, 1392/02/30

Registrant information

Name

Ladan Ajori

Name of organization / entity

Shahid beheshti university of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2218 1694

Email address

ajori@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Beheshti University of Medical Science

Expected recruitment start date

2016-01-21, 1394/11/01

Expected recruitment end date

2016-11-21, 1395/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of propranolol on duration of labor in women with rupture of membranes

Public title

Effects of propranolol on labor

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: GA>34 w; singleton pregnancy; cephalic presentation; no contraindication of vaginal delivery;cervical dilatation < 3 cm; absence of active phase; no contraindication of propranolol; no history of maternal hearth disease , diabetes mellitus and lupus; maternal pulse rate > 60 per minutes; no history of uterine scar; patient inform consent. Exclusion criteria: lack of consent at every stage of research.

Age

From **18 years** old to **40 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **140**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Shahid Beheshti University of Medical Science

Street address
Yaman street, Chamran highway

City
Tehran

Postal code

Approval date
2013-04-21, 1392/02/01

Ethics committee reference number
89-01-136-7307

Health conditions studied

1

Description of health condition studied
duration of labor

ICD-10 code
O63

ICD-10 code description
long labour

Primary outcomes

1

Description
duration of labor

Timepoint
from induction of labor to delivery

Method of measurement
minutes

Secondary outcomes

1

Description
cesarean rate

Timepoint
at the last of study

Method of measurement
hospital documents

2

Description
neonatal Apgar

Timepoint
first and fifth minutes

Method of measurement
Apgar score

3

Description
fetal complications

Timepoint
at the last of study

Method of measurement
physical exam

4

Description
maternal complications

Timepoint
at the last of study

Method of measurement
history - physical exam

5

Description
oxytocin dosage

Timepoint
at the last of study

Method of measurement
hospital documents

Intervention groups

1

Description
2 mg propranolol before oxytocin (intervention group)

Category
Treatment - Drugs

2

Description
normal saline as placebo before oxytocin (control group

)

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Tajrish Hospital

Full name of responsible person
Leila Nazari

Street address
Tajrish square, Valiasr street

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shahid Beheshti University of Medical Science

Full name of responsible person
Seyyed Jalaledin Khoshnevis

Street address
Yaman Street, Chamran Highway

City
Tehran

Grant name

Grant code / Reference number

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

Title of funding source
Shahid Beheshti University of Medical Science

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
Shahid Beheshti University of Medical Science

Full name of responsible person
Leila Nazari

Position
Gynecologist

Other areas of specialty/work

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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