

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of labor duration and short-term maternal-neonatal outcome in nulliparous women with vaginal delivery receiving intravenous normal saline and intravenous dextrose

Protocol summary

Summary

This study aimed at comparing labor duration and short-term maternal-neonatal outcomes in nulliparous women with vaginal delivery receiving intravenous normal saline or dextrose. In this double-blind randomized clinical trial, 300 term nulliparae with singleton in active labor were recruited in Tabriz Alzahra Teaching Center during a 15-month period. These women were randomized in three well-matched 100-case groups receiving either intravenous normal saline as 125 ml/h , 5% dextrose as 125 ml/h , or nothing (controls). The primary outcome was total length of labor from onset of fluid administration. Maternal and neonatal outcomes were also analyzed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201008184592N1**

Registration date: **2011-06-01, 1390/03/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-06-01, 1390/03/11

Registrant information

Name

Tahereh Alizadeh

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+91 44021161

Email address

jpourhaji@iau-garmsar.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2011-01-15, 1389/10/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of labor duration and short-term maternal-neonatal outcome in nulliparous women with vaginal delivery receiving intravenous normal saline and intravenous dextrose

Public title

Efficacy of intravenous dextrose in progress of labor

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: term nulliparae women with singleton in active labor were candidates of vaginal delivery

Exclusion criteria: history of cardiovascular diseases, diabetes, or renal disease, prior c/s, induction, chorioamnionitis, pyelonephritis, other febrile disease at the onset of the study

Age

From **15 years** old to **50 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 300

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

Tabriz University of Medical Sciences

Street address

Faculty of medicine, Tabriz University of Medical Sciences - University Street

City

Tabriz

Postal code

Approval date

2010-11-10, 1389/08/19

Ethics committee reference number

5/4/6387 89/8/19 مورخه

Health conditions studied

1

Description of health condition studied

normal delivery

ICD-10 code

O80.0

ICD-10 code description

Spontaneous vertex delivery

Primary outcomes

1

Description

Labor duration

Timepoint

During delivery

Method of measurement

in minutes

Secondary outcomes

1

Description

Short-term maternal outcomes

Timepoint

One week after delivery to start labor

Method of measurement

Minte and Examination

2

Description

Short-term neonatal outcomes

Timepoint

One week after delivery to start labor

Method of measurement

Minute and Examination

Intervention groups

1

Description

control group: no ontervention

Category

Other

2

Description

Intravenous 5% dextrose as 125 ml/h in nulliparous women with vaginal delivery

Category

Treatment - Drugs

3

Description

Intravenous normal saline as 125 ml/h in nulliparous women with vaginal delivery

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz Alzahra Teaching Center

Full name of responsible person

Tahereh Alizadeh

Street address

Baghshomal crossroad

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Productivity Health Center of Tabriz University of Medical Sciences

Full name of responsible person

Farnaz Sahhaf

Street address

University Street

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Productivity Health Center of Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Tahereh Alizadeh

Position

Assistant of Obstetrics & Gynecology

Other areas of specialty/work

Street address

No8 mohammadi alley abbasi street

City

Tabriz

Postal code

5156653191

Phone

+98 41 1685 4288

Fax

Email

Drpourhaji@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Farnaz Sahhaf

Position

Obstetrics & Gynecology

Other areas of specialty/work

Street address

Faculty of medicine, Tabriz University of Medical Sciences

City

Tabriz

Postal code

Phone

+98 914 114 5079

Fax

Email

Farnazsahhaf@yahoo.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