

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Assessment of Results of using partogram in labor management

Protocol summary

Summary

Objective: We assessed the results of using partogram in labor management. Methods: a prospective controlled trial was carried out on 200 primiparous laboring women who were in active labor in Alborz hospital (Karaj, Iran) between Jul 2006-Feb 2007. They were randomly assigned in two groups. Decision making in labor management in partogram group was taken based on partogram guidelines whereas routine intrapartum care via written notes in control group. We assessed the following variables: comparison the prolonged labor in two groups, comparison the mean length of the first stage of labor in two groups, comparison the mean length of the second stage of labor in two groups, comparison the mean total length of labor in two groups, comparison cesarean and normal vaginal delivery rate in two groups, comparison the neonatal outcomes on the basis of 1th and 5th minute Apgar score in two groups.

General information

Acronym

Labor management based on partogram

IRCT registration information

IRCT registration number: **IRCT2012122811911N1**

Registration date: **2013-09-24, 1392/07/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-09-24, 1392/07/02

Registrant information

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Name of organization / entity

Islamic Azad university

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Recruitment status

Recruitment complete

Funding source

Deputy of research office, Islamic Azad University, Karaj Branch

Expected recruitment start date

2005-07-23, 1384/05/01

Expected recruitment end date

2006-07-23, 1385/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of Results of using partogram in labor management

Public title

Labour control based on labor chart(partogram)

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criterion: all of the primiparous laboring women who admitted in Alborz hospital (Karaj,Iran) for delivery. We excluded parturient who had gestational age ≤ 37 weeks; history of any prior operation on uterus; malpresentation; multiparty; multiple pregnancies; cervical dilation ≥ 4 cm at the time of admitting; symptoms of fetal distress or obstetric/medical complication.

Age

From **15 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **200**

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

Islamic Azad University of Karaj Branch

Street address

ALBORZ

City

karaj

Postal code

Approval date

2005-04-13, 1384/01/24

Ethics committee reference number

47281/4

Health conditions studied

1

Description of health condition studied

Partogram

ICD-10 code

O80-84

ICD-10 code description

Delivery

Primary outcomes

1

Description

The length of labor stages

Timepoint

1 hour interval in labor

Method of measurement

partogram of WHO

Secondary outcomes

1

Description

Delivery method

Timepoint

At the end of delivery

Method of measurement

Record of normal vaginal delivery or cesarean

2

Description

Neonatal outcomes

Timepoint

1th and 5th minute after delivery

Method of measurement

APGAR score system

Intervention groups

1

Description

Intervention group: Progress of labor was recorded on standard partogram chart based on cervical dilatation and descend in partogram group and decision making in labor management was taken based on WHO - partogram guidelines. Once cervicograph cut the alarm line, intervention included amniotomy and low dose oxytocin augmentation carried out;also if cervix was unripe, anticholinergic drugs such as Atropin or Hyocscin intramuscularly administered, or Promethazin for vomiting was used. when the cervicograph lagged the action line cesarean section was performed.

Category

Other

2

Description

Control group ;, partogram was recorded for control group as well as partogram group, but decision making was only based on routine and experimental intrapartum care through responsible physician, without partogram results

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alborz hospital

Full name of responsible person

zarrin ajoodani

Street address

Baghestan

City

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of research office of Islamic Azad University of Karaj Branch

Full name of responsible person

Dr. Hajikhani

Street address

Moazen street

City

Karaj

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Deputy of research office of Islamic Azad University of Karaj Branch

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

Islamic Azad University of Karaj Branch

Full name of responsible person

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Position

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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