

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

comparison of lasix with methyldopa in control of postpartum hypertention in treated preeclamptic patients by Mgso4

Protocol summary

Study aim

Comparison of Lasix with Methyl Dopa in Control of Postpartum Blood Pressure in Preeclamptic Patients after Magnesium Sulfate Treatment in ICU of Akbar Abadi Hospital

Design

120 patients with severe preeclampsia who have given birth and are receiving magnesium sulfate and have a blood pressure of between 140.90 and 100.160, randomly assigned to a methyldopa group and to another group of lasix. The effect of these two drugs on blood pressure control was compared in the first 24 hours after the intervention and 24 hours after the intervention and then one week later.

Settings and conduct

Single blind randomized clinical trials in the ICU ward of Akbar Abadi Hospital such that patients with severe preeclampsia who have given birth are receiving magnesium sulfate and have a blood pressure of between 140.90 and 100.160. The randomized trial is given to a group of Methyl Diphtheria and to another group of Lasix drugs and the patients don't know about which drug (Intervention) they receive.

Participants/Inclusion and exclusion criteria

Inclusion criteria included preeclampsia and magnesium sulfate, and lack of blood pressure control, with a blood pressure of between 140/90 to 160/100. Non-inclusion criteria including complications such as gestational diabetes, heart disease, kidney disease, And drug susceptibility to lasix and methyl dopa.

Intervention groups

First intervention group: Patients with preeclampsia and blood pressure of between 140/90 to 160/100 that treated by magnesium sulfate and methyl dopa. Second intervention group: Patients with preeclampsia and blood pressure of between 140/90 to 160/100 that treated by magnesium sulfate and lasix.

Main outcome variables

Systolic blood pressure, Diastolic blood pressure

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180114038349N1**

Registration date: **2018-05-24, 1397/03/03**

Registration timing: **retrospective**

Last update: **2018-05-24, 1397/03/03**

Update count: **0**

Registration date

2018-05-24, 1397/03/03

Registrant information

Name

Setareh siahmansoori

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4452 4857

Email address

siahmansoori.s@tak.iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2016-07-22, 1395/05/01

Expected recruitment end date

2018-02-19, 1396/11/30

Actual recruitment start date

2017-08-16, 1396/05/25

Actual recruitment end date

2018-02-26, 1396/12/07

Trial completion date

empty

Scientific title

comparison of lasix with methyldopa in control of postpartum hypertention in treated preeclamptic patients by Mgso4

Public title
comparison of lasix with methyldopa in control of postpartum hypertention in treated preeclamptic patients by Mgso4

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Patient with preeclampsia. Patient has been treated by Mgso4 The patient's blood pressure is between 140/90 to 160/100.
Exclusion criteria:
Patient has gestational diabetes. Patient has heart disease. Patient has renal disease. Patient has allergic reaction to lasix. Patient has allergic reaction to methyldopa.

Age
No age limit

Gender
Female

Phase
2

Groups that have been masked

- Participant

Sample size
Target sample size: **120**
Actual sample size reached: **104**

Randomization (investigator's opinion)
Randomized

Randomization description
Simple, block randomization

Blinding (investigator's opinion)
Single blinded

Blinding description
Participants are no longer aware of the Methyldopa or Lasix recipes.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Iran University of Medical Sciences
Street address
Akbarabadi Hospital., Mowlavi Ave., Tehran
City

Tehran
Province
Tehran
Postal code
1168743514
Approval date
2017-10-09, 1396/07/17
Ethics committee reference number
IR.IUMS.FMD.REC1396.9311290009

Health conditions studied

1

Description of health condition studied
Severe preeclampsia in postpartum patients
ICD-10 code
O14.1
ICD-10 code description
Severe pre-eclampsia

Primary outcomes

1

Description
The measure of patient's Systolic blood pressure that should be between 140 to 160 mm Hg.
Timepoint
Blood pressure measurement in the first 24 hours after the intervention and in the second 24 hours after the intervention, and then a week later
Method of measurement
Mercury barometric device

2

Description
The measure of patient's diastolic blood pressure that should be between 90 to 100 mm Hg.
Timepoint
Blood pressure measurement in the first 24 hours after the intervention and in the second 24 hours after the intervention, and then a week later
Method of measurement
Mercury barometric device

Secondary outcomes

empty

Intervention groups

1

Description
First intervention group: 250 mg methyl dopamine 250 mg every 8 hours manufactured by Zahravi Pharmaceutical Company for up to one week
Category
Treatment - Drugs

2

Description

Second Intervention group: 40 mg lasica 40 mg with a dose of 20 mg every 12 hours made by Sanofi
Pharmacies partner for up to 1 week

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Akbarabadi Hospital

Full name of responsible person

Setareh Siahmansoori

Street address

Akbar abadi Hospital., Mowlavi Ave

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Email

setareh.s.mansoori@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Dr. Seyed Kazem Malekoti

Street address

Iran University of Medical Sciences., Hemat Highway
next to Milad Tower

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Postal code

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Phone

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Email

PR@iums.ac.ir

Web page address

<http://vcr.iums.ac.ir/page/26765>

Grant name

Grant code / Reference number

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

No

Title of funding source

Iran university of medical science

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Setareh Siahmansoori

Position

Obstetric/Gynaecology Resident

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Setareh Siahmansoori

Position

OB/GYN resident

Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

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Full name of responsible person

Setareh Siahmansoori

Position

OB/GYN resident

Latest degree

Medical doctor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available