

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Comparison of the efficacy of two treatment regimens of metformin and insulin therapy for diabetes on results of glucose tolerance test after delivery in women with gestational diabetes

Protocol summary

Study aim

Comparing of the effects of two regimens of metformin and insulin therapy on the results of postpartum glucose tolerance test in pregnant women with gestational diabetes mellitus

Design

Clinical trial, double blinded, randomized, parallel, with 60 patients

Settings and conduct

In this study, all pregnant women with a diagnosis of gestational diabetes who are referred to the midwifery clinic of Sayyad Shirazi hospital in Gorgan in order to continue their post-natal care will be considered as a statistical society, among which A randomized sample of 60 pregnant mothers with inclusion criteria and without exclusion will be included in the study

Participants/Inclusion and exclusion criteria

Criteria for inclusion: Includes single-pregnancy Gestational age 20 to 34 weeks Diet and exercise treatment for at least a week without blood sugar control absence of risk factors for lactic acidosis and absence of anatomical and chromosomal anomalies. FBS more than 126 mg / dL , HbA1C levels greater than 6.5% exclusion criteria: Diagnosis of pre-pregnancy diabetes, Dissatisfied to cooperate in the study, presence of metabolic disorders in the patient Need to change treatment from metformin to insulin during the study

Intervention groups

1) Insulin treatment group 2) Metformin treatment group

Main outcome variables

results of glucose tolerance test after delivery

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180103038196N5**

Registration date: **2018-07-31, 1397/05/09**

Registration timing: **retrospective**

Last update: **2018-07-31, 1397/05/09**

Update count: **0**

Registration date

2018-07-31, 1397/05/09

Registrant information

Name

Amir Hossein Salimi Kordasiabi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 912 361 5549

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hosseininejad.s.mohsen@goums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-05-31, 1397/03/10

Expected recruitment end date

2018-07-22, 1397/04/31

Actual recruitment start date

2018-05-31, 1397/03/10

Actual recruitment end date

2018-07-22, 1397/04/31

Trial completion date

empty

Scientific title

Comparison of the efficacy of two treatment regimens of metformin and insulin therapy for diabetes on results of glucose tolerance test after delivery in women with

gestational diabetes

Public title

Comparison of the effect of two regimens of metformin and insulin on results of postpartum glucose tolerance test

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Single pregnancy pregnancy Gestational age 20 to 34 weeks Diet and exercise treatment for at least a week without blood glucose control absence of risk factors for lactic acidosis and the absence of anatomical and chromosomal abnormalities fasting blood sugar greater than or equal to 126 mg / dl , HbA1C levels greater than 6.5%

Exclusion criteria:

Diagnosis of pre-pregnancy diabetes, presence of metabolic disorders in the patient Need to start treatment with insulin in oral treatment patients The lower limit of fasting glucose is 92 mg / dL and glucose levels will start for insulin patients two hours after meals, if treatment with metformin is higher than 120. Dissatisfied to cooperate in the study metabolic disorder in the patient

Age

No age limit

Gender

Female

Phase

3

Groups that have been masked

- Participant
- Care provider
- Investigator
- Data analyser

Sample size

Target sample size: **60**

Actual sample size reached: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

The blocked random allocation method will be used. Thus, for example, a type of treatment is given to the first block and the other to the second, and again to the first block to the third block, and so on.

Blinding (investigator's opinion)

Double blinded

Blinding description

The study is a double-blind, so that the patient and the person providing the medication to the patient and the person analyzing the data do not know the type of treatment used for each person.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of gorgan University of Medical Sciences

Street address

Golestan university of medical science ,Beginin of Shastkola Street, 5th Kilometers of Gorgan Sari Road, Gorgan

City

Gorgan

Province

Golestan

Postal code

4934174515

Approval date

2018-05-30, 1397/03/09

Ethics committee reference number

IR.Gomus.REC.1397.028

Health conditions studied

1

Description of health condition studied

Gestational Diabetes

ICD-10 code

O24.4

ICD-10 code description

Gestational diabetes mellitus

Primary outcomes

1

Description

Control of serum glucose level in pregnant women with gestational diabetes mellitus

Timepoint

4 days and 6 weeks after delivery

Method of measurement

Oral Glucose Tolerance Test and HbA1C Test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Group 1: Insulin therapy

Category

Treatment - Drugs

2

Description

Intervention group: Group 2: Treatment with metformin

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Sayyad Shirazi Hospital

Full name of responsible person

Dr. Moghadaseh Jahanshahi

Street address

Sayyad Shirazi Hospital, Sayyad Shirazi Blv, Gorgan

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infosayyad@goums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Gorgan University of Medical Sciences

Full name of responsible person

Dr. Moghadaseh Jahanshahi

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

Yes

Title of funding source

Gorgan University of Medical Sciences

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

Gorgan University of Medical Sciences

Full name of responsible person

Dr. Moghadaseh Jahanshahi

Position

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

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Full name of responsible person

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Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Gorgan University of Medical Sciences

Full name of responsible person

Dr. Amir Hossein Salimi kord asiabi

Position

General practitioner

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Title and more details about the data/document

Data is potentially are obtainable after unidentifiable individuals

When the data will become available and for how long

Start the access after 6 months after establishing the results

To whom data/document is available

Professors and medical students

Under which criteria data/document could be used

It does not matter

From where data/document is obtainable

Send email to salimia92@gmail.com

What processes are involved for a request to access data/document

Using email

Comments

no