

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

The effect of vitamin D on insulin resistance in renal failure patients.

Protocol summary

Study aim

The effect of vitamin D on insulin resistance in renal failure patients

Design

Clinical trials with community-based and pragmatic control group, with parallel groups, not blindEd, randomized

Settings and conduct

A study with a therapeutic field in Ali ibn Abi Talib Hospital in Zahedan, Iran, is being conducted as a clinical trial.

Participants/Inclusion and exclusion criteria

No diabetes and impaired glucose metabolism; renal failure stages 2 to 4; vitamin D deficiency

Intervention groups

The intervention group included patients receiving vitamin D 5000 units weekly for up to 8 weeks for a period of three months; the control group included patients who did not receive any medication

Main outcome variables

Insulin resistance; Serum vitamin D levels

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170718035156N2**

Registration date: **2018-02-27, 1396/12/08**

Registration timing: **registered_while_recruiting**

Last update: **2018-02-27, 1396/12/08**

Update count: **0**

Registration date

2018-02-27, 1396/12/08

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 54 3329 5799

Email address

dr.taheri@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2017-05-22, 1396/03/01

Expected recruitment end date

2018-05-22, 1397/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of vitamin D on insulin resistance in renal failure patients.

Public title

Effect of vit-D in renal failure

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

No diabetes renal failure stage 2 to 4

Exclusion criteria:

Age

From **18 years** old to **75 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **40**
Randomization (investigator's opinion)
Randomized
Randomization description
Block
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics Committee of Zahedan University of Medical Sciences
Street address
Dr.Hesabi Sq., Daneshgah Ave., Zahedan, Iran
City
Zahedan
Province
Sistan-va-Balouchestan
Postal code
9816743463
Approval date
2016-03-30, 1395/01/11
Ethics committee reference number
IR.ZAUMS.AC.IR.1395.150

Health conditions studied

1

Description of health condition studied

Chronic kidney disease
ICD-10 code
N18
ICD-10 code description
Renal failure

Primary outcomes

1

Description
Insulin resistance
Timepoint
Three months after treatment
Method of measurement
Based on the HOMA_IR formula

2

Description
Vitamin D level
Timepoint
Three months after treatment
Method of measurement
Luminescence electrochemical method

Secondary outcomes

empty

Intervention groups

1

Description
The intervention group included patients receiving vitamin D 5000 units weekly for up to 8 weeks for a period of three months;
Category
Treatment - Drugs

2

Description
Control group: included patients who did not receive any medication
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Ali-ebn Abi Talib Hospital
Full name of responsible person
Elham Taheri
Street address
Salamat Blvd., Hesabi Sq., Daneshgah Ave., Zahedan
City
Zahedan
Province
Sistan-va-Balouchestan
Postal code
9816743111
Phone
+98 54 3329 5570
Email
dr.taheri@zaums.ac.ir

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person

Mohsen Taheri

Street address

Dr.Hesabi Sq., Daneshgah Ave.

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Phone

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Email

Dr.taheri@zaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Elham Taheri

Position

Internal medicine residence

Latest degree

Medical doctor

Other areas of specialty/work

Internal Medicine

Street address

Salamat Blvd., Dr.Hesabi Sq., Daneshgah Ave.

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Ali Alidadi

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Internal Medicine

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Email

dr.alidadi@zaums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Elham Taheri

Position

Internal medicine residence

Latest degree

Medical doctor

Other areas of specialty/work

Internal Medicine

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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