

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of Pioglitazone on proteinuria, inflammatory and oxidative markers in patient with diabetic nephropathy

Protocol summary

Summary

60 patients with diabetes type 2 and Glycated hemoglobin (HbA1c) equal or greater 8 and smaller or equal 10 and with Glomerular filtration rate (GFR) equal or greater 30 and smaller or equal 60 will be selected and randomly will be divided to two groups. For both groups we will start glibenclamide, But only case group will receive pioglitazone. Both control and case group were similar in their age; sex; degree of renal function; glycemic control and all the measurable value. The only difference between them was receiving pioglitazone in case and do not receive in control group. After 3 months proteinuria and inflammation (C-Reactive Protein and Ferritin) and oxidative markers (Malondialdehyde and Total Anti-Oxidant) measure and compared with together.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013102115105N1**

Registration date: **2014-03-12, 1392/12/21**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-03-12, 1392/12/21

Registrant information

Name

Farahnoosh Farnood

Name of organization / entity

Tabriz University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 914 307 9418

Email address

naghavim@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2014-02-20, 1392/12/01

Expected recruitment end date

2014-04-21, 1393/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Pioglitazone on proteinuria, inflammatory and oxidative markers in patient with diabetic nephropathy

Public title

Effect of a lowering blood glucose drug on protein loss with urine in patient with kidney disease due to diabetes

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: (The patient with Diabetic nephropathy with Diabetes type 2; Glomerular filtration rate equal or greater than 30; Age greater 18 & smaller 65 years old; Agreement to participate in the study) Exclusion criteria: (Glomerular Filtration Rate smaller than 30; Dyspnea; CHF; Liver failure; General edema; Age smaller than 18 & greater than 65 years old; Body Mass Index equal or greater than 40)

Age

From **18 years** old to **65 years** old

Gender

Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: 60

Randomization (investigator's opinion)
Randomized

Randomization description

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 Tabriz University of Medical Sciences

Street address
Tabriz University of Medical Sciences, Daneshgah Sq.

City
Tabriz

Postal code

Approval date
2014-02-09, 1392/11/20

Ethics committee reference number
92183

Health conditions studied

1

Description of health condition studied
Diabetic nephropathy

ICD-10 code
E10-E14 :

ICD-10 code description
Diabetes mellitus With renal complications

Primary outcomes

1

Description
Proteinuria

Timepoint
Monthly

Method of measurement

24 urin and according to miligram per deciliter

Secondary outcomes

1

Description
Ferritin

Timepoint
Monthly

Method of measurement
Elisa and according to Nanogram per mililiter

2

Description
High sensitivity C- Reactive protein

Timepoint
Monthly

Method of measurement
Elisa according to Nanogram per mililiter

3

Description
Malondialdehyde

Timepoint
Monthly

Method of measurement
Elisa and according to micromol per liter

4

Description
Total antioxidant

Timepoint
Monthly

Method of measurement
Elisa and according to microgram per mililiter

Intervention groups

1

Description
Tablet Pioglitazone, 30 miligram, pathway ocal, daily

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Tabriz University of Medical Sciences

Full name of responsible person
Farahnoosh Farnood

Street address
Nephrology ward, Emam Reza Hospital, Golgasht Ave.

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

AliReza Ostad Rahimi

Street address

Vice chancellor for research, Tabriz University of Medical Sciences, Daneshgah Avenue, Daneshgah Square

City

Tabriz

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

Yes

Title of funding source

Vice chancellor for research, 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

Farahnoosh Farnood

Position

Internist/ Student of Nephrology

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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