Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison fatty liver before and after treatment of hypothyroidism

Protocol summary

Summary

Aim of this study is comparison of fatty liver disease before and after treatment of hypothyroidism in patients referred for ultrasonography. this study is a clinical trial , double-blinded study of 105 patients who were candidates for ultrasound to detect fatty liver. Patients perform blood tests to detect hypothyroidism. Patients get ultrasound before and after treatment with levothyroxine for diagnoses fatty liver.patients will receive 1.7 mg per day Levothyroxine tablets. We will check ALT and AST, and alkaline phosphatase and TSH and T4 before and after treatment for fatty liver.a radiologist performs ultrasound to diagnose the severity of fatty liver before and after treatment. Inclusion criteria: 30 to 60 years; both gender; patients with fatty liver and hypothyroidism; Lack of chronic liver disease Exclusion criteria: alcohol consumption; cancer

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017091820258N59**
Registration date: **2017-09-23, 1396/07/01**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-09-23, 1396/07/01

Registrant information

Name
Fariba Farokhi

Name of organization / entity
Arak University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source
Vice Chancellor for Research of Arak University of Medical Sciences

Expected recruitment start date
2017-06-22, 1396/04/01

Expected recruitment end date
2019-06-22, 1398/04/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison fatty liver before and after treatment of hypothyroidism

Public title
Comparison fatty liver before and after treatment of hypothyroidism

Purpose
Prevention

Inclusion/Exclusion criteria
Inclusion criteria: 30 to 60 years; both gender; patients with fatty liver and hypothyroidism; Lack of chronic liver disease Exclusion criteria: alcohol consumption; cancer

Age
From **30 years** old to **60 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size

Target sample size: **105**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee Arak University Of Medical Sciences

Street address

Vice chancellor for research, Payambar azam complex, Basij squre, Sardasht, Arak

City

Arak

Postal code

38149578558

Approval date

2017-06-12, 1396/03/22

Ethics committee reference number

IR.ARAKMU.REC.1396.62

Health conditions studied

1

Description of health condition studied

fatty liver

ICD-10 code

K76.0

ICD-10 code description

Fatty (change of) liver, not elsewhere classified

Primary outcomes

1

Description

fatty liver

Timepoint

before and after treatment

Method of measurement

ultrasonography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: treatment with 1.7 milligram in day levothyroxine for diagnoses fatty liver.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Radiology Clinic

Full name of responsible person

Dr Fazeli Mosleh abadi

Street address

Valiasr Hospital, Arak

City

Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Arak University of Medical Sciences

Full name of responsible person

Dr Anoshirvani

Street address

Vice chancellor for research, Payambar Azam Complex, Basij square, Sardasht, Arak

City

Arak

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, Arak 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
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Full name of responsible person
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Person responsible for updating data

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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