

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jul 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

Country

Iran (Islamic Republic of)

Phone

+98 86 3222 2003

Email address

f.farokhi@arakmu.ac.ir

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 square, 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

Arak University of Medical Sciences

Full name of responsible person

Dr Kamran Ahmadi

Position

Resident of Radiology

Other areas of specialty/work**Street address**

Valiasr Hospital, Valiasr square, Shahid Shirodi street

City

Arak

Postal code

3814957558

Phone

+98 86 3222 2003

Fax

+98 863222003

Email

ahmadi@arakmu.ac.ir

Web page address**Email**

fazel@arak.mu.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Arak University of Medical Sciences

Full name of responsible person

Dr Kamran Ahmadi

Position

Resident of Radiology

Other areas of specialty/work**Street address**

Payambar Azam Complex, Basij Square, Sardasht, Arak

City

Arak

Postal code

3814957558

Phone

+98 86 3222 2003

Fax

+98 863222003

Email

ahmadi@arakmu.ac.ir

Web page address

-

Person responsible for scientific inquiries

Contact

Name of organization / entity

Arak University of Medical Sciences

Full name of responsible person

Dr Fazeli Moslehabadi

Position

Faculty Member

Other areas of specialty/work**Street address**

Valiasr Hospital, Valiasr square, Shahid Shirodi street

City

Arak

Postal code

3814957558

Phone

+98 86 3222 2003

Fax

+98 863222003

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