

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effects of bed time vs morning levothyroxine consumption on thyroid function in hypothyroid patients

Protocol summary

Summary

The aim of this quasi experimental study was timing effect of levothyroxine on thyroid hormone. inclusion criteria was age above than 18; primary hypothyroidism and inclusion criteria was pregnancy; ocp consumption; this study was conducted with 100 patients with hypothyroidism referred to hospital's of Babol university of medical science. they divided in two groups (A and B). patients in group A were given levothyroxine in the morning half an hour before breakfast and in group B levothyroxine was given 2 hours after dinner (bedding time). All collected samples sent to same lab. Thyroid hormones were measured and compare in 2 groups before and 2 months after intervention. It was advised to all patients to use Iran Hormone made levothyroxine.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201110235692N5**

Registration date: **2013-05-22, 1392/03/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-05-22, 1392/03/01

Registrant information

Name

Mohammad ali Bayani

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 1223 4651

Email address

m.bayani@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Bobol University of Medical Sciences and Health Services

Expected recruitment start date

2011-08-23, 1390/06/01

Expected recruitment end date

2012-08-22, 1391/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of bed time vs morning levothyroxine consumption on thyroid function in hypothyroid patients

Public title

effect of levothyroxine consumption time on thyroid hormone level

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: age > 18; primary hypothyroidism

exclusion criteria: pregnancy; ocp consumption; malabsorption disease

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**
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
Babol University of Medical Science
Street address
Babol Medical University, Ganj Afrooz St
City
Babol
Postal code
47745-47176
Approval date
2009-06-29, 1388/04/08
Ethics committee reference number
3762

Health conditions studied

1
Description of health condition studied
hypothyroidism
ICD-10 code
E00, E01,
ICD-10 code description
Disorders of thyroid gland

Primary outcomes

1
Description
TSH
Timepoint
before and 2 month after intervention
Method of measurement
lab test

Secondary outcomes

empty

Intervention groups

1
Description
levothroxine consumption in morning time
Category
Treatment - Drugs

2
Description
consumption of levothroxine in bed time
Category
Treatment - Drugs

Recruitment centers

1
Recruitment center
Name of recruitment center
Shahid Beheshti Hospital
Full name of responsible person
Mohammad Ali Bayani
Street address
City
Babol

Sponsors / Funding sources

1
Sponsor
Name of organization / entity
Bobol University of Medical Siences and Health Services
Full name of responsible person
Amro Allah MostafaZade
Street address
Ganj Afrooz St
City
Babol
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Bobol University of Medical Siences and Health Services
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

Babol University of Medical Science

Full name of responsible person

Mohammad Ali Bayani

Position

endocrinologist

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

Department of internal medicine, Rohani Hospital,

Ganj Afroz St

City

Babol

Postal code

47745-47176

Phone

+98 11 1223 8301

Fax**Email**

m.bayani@mubabol.ac.ir

Web page address**Fax****Email**

m.bayani@mubabol.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Babol University of Medical Science

Full name of responsible person

Mohammad Ali Bayani

Position

Assistant of internal medicine

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

Department of internal medicine, Rohani Hospital,

Ganj Afroz St

City

Babol

Postal code

47745-47176

Phone

+98 11 1223 8301

Fax**Email**

m.bayani@mubabol.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Rohani hospital

Full name of responsible person

Mohammad Ali Bayani

Position

endocrinologist

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Department of internal medicine, Rohani Hospital,

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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