Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

The effect of pretreatment with methimazole the required amount of radioactive iodine to treat hyperthyroidism calculated from nodular goiter

Protocol summary

Summary

Hyperthyroidism has a high morbidity. The aim of this study was to evaluate the effect of methimazole pretreatment on the activity of radioactive iodine-131 in hyperthyroidism is caused by nodular goiter. The sample included 40 patients with nodular goiter is caused by hypothyroidism. The patients from 1393 to 1395 at the Hospital of Imam Reza (AS) in the division of endocrinology and metabolism at the hospital or clinic admissions are referred. The conditions of entry into the study consent to participate in this study, no previous drive therapy, older than 20 years, patients who have severe thyrotoxicosis and Exclusion criteria or contraindications to methimazole Allergies, thyroid surgery, pregnancy and breastfeeding will be. The patients selected for this study should have FT4 below 3.5 ng per deciliter or below 2 times the normal and TSH less than 0.3 mIU / ml and less than 50% RAIU 24h. Patients were randomly divided into two groups of 20 people and will be matched for age and sex. For a group as the control group only for routine radioactive iodine therapy patients will use and For groups of antithyroid drugs methimazole before administering iodine-131 at a dose of 15 mg / day for 6 weeks and then stopped for 3 days methimazole, radioactive iodine uptake is measured again and RAIU calculated on the basis of a second radioactive iodine 131 patients will be prescribed. For all patients prior to initiating therapy with any one of the protocols of thyroid hormones and RAIU the Czech base will then measured again after the end of treatment will be compared between the two groups. Volume and changes in thyroid tissue will be analyzed. During follow-up treatment will be carried out 3 months after administration of radioactive iodine TSH and FT4 will be measured again.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015121625550N1**
Registration date: **2016-02-14, 1394/11/25**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-02-14, 1394/11/25

Registrant information

Name

Amir Bahrami

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3335 7850

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research of Tabriz University of Medical Sciences

Expected recruitment start date

2016-01-25, 1394/11/05

Expected recruitment end date

2016-12-19, 1395/09/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
The effect of pretreatment with methimazole the required amount of radioactive iodine to treat hyperthyroidism calculated from nodular goiter

Public title
The effect of pretreatment with methimazole the required amount of radioactive iodine to treat hyperthyroidism calculated from nodular goiter

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria: consent to participate in this study; no previous drive; older than 20 years; patients who have severe thyrotoxicosis Exclusion criteria were: Allergies or contra-indications to methimazole; thyroid surgery; pregnancy and lactation

Age
From **20 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Using a random number table

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, Golgasht Street , Tabriz

City
Tabriz

Postal code

Approval date
2016-01-23, 1394/11/03

Ethics committee reference number
TBZMED.REC.1394.947

Health conditions studied

1

Description of health condition studied
Hyperthyroidism due to nodular goiter

ICD-10 code
E05.2

ICD-10 code description
Thyrotoxicosis with toxic multinodular goitre

Primary outcomes

1

Description
Radio Iodine Uptake

Timepoint
At baseline, 3 days off after a period of 6 weeks

Method of measurement
Nuclear medicine procedures

Secondary outcomes

1

Description
TSH

Timepoint
Baseline, 3 months after administration of radioactive iodine

Method of measurement
Test

2

Description
FT4

Timepoint
Baseline, 3 months after administration of radioactive iodine

Method of measurement
Test

Intervention groups

1

Description
The control group did not cause any interference

Category
N/A

2

Description
For groups of measuring the absorption of iodine,

methimazole(Lughman Pharmaceutical company) for 6 weeks with a dose of 15 mg daily is given.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz, Imam Reza Hospital

Full name of responsible person

Dr. Sanaz Karimi

Street address

Department of Endocrinology, Imam Reza Hospital, Gate University, Tabriz, East Azarbaijan

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research of Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Rashidi

Street address

Vice chancellor for Research of Tabriz University of Medical Sciences,Tabriz University of Medical Sciences, Golgasht Street, Tabriz

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 of 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

Dr.Amir Bahrami

Position

Endocrinology and Metabolism/ Professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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Person responsible for updating data

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Other areas of specialty/work

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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