

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 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

##### Email address

bahramia@tbzmed.ac.ir

##### 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****Street address**

Department of Endocrinology, Imam Reza Hospital, Tabriz University of Medical Sciences, Golgasht Street, Tabriz

**City**

Tabriz

**Postal code****Phone**

+98 41 3335 7850

**Fax****Email**

endocrinology\_tabriz@yahoo.com

**Web page address****Person responsible for scientific 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****Street address**

Department of Endocrinology, Imam Reza Hospital, Tabriz University of Medical Sciences, Golgasht Street, Tabriz

**City**

Tabriz

**Postal code****Phone**

+98 41 3335 7850

**Fax****Email**

endocrinology\_tabriz@yahoo.com

**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Tabriz University of Medical Sciences

**Full name of responsible person**

Dr. Sanaz Karmi Aval

**Position**

Endocrinology and Metabolism Fellow

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

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

**City**

Tabriz

**Postal code****Phone**

+98 41 3335 7850

**Fax**

**Email**

Sanaz28aban@yahoo.com

**Web page address**

**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*