

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 2026

Evaluating the relation between the quantities of drank liquids and delivered dose to body of cancer thyroid patients treated with I-131

Protocol summary

Summary

(1)Thyroid cancer patients who are treated with I-131 are quarantined in a controlled area according to Atomic Energy Organization guideline, so that the ambient equivalent dose in the specified distance from the patients becomes less than the permitted values. It is mentioned in the post treatment recommendations that excessive fluid usage can excrete radioactive from patient's body faster. So patients are recommended to drink liquid as much as possible. (2)The purpose of this study is to evaluate the relationship between the amounts of used liquids and the delivered dose to body in patients treated with I-131. (3) First, (4)30 patients will be chosen randomly as pilot study, among whom that are treated with I-131 in nuclear medicine department at Namazi Hospital of Shiraz. (5)These patients will be asked to drink different coefficients of their own maintenance fluid requirement. It is notable that maintenance fluid requirement for each person is calculated from their weight. (6)Ambient equivalent dose of patients will be measured twice, once immediately after radioactive Iodine reception and the other one at 40 hours later. At last we will try to find whether there is a significant relationship between total fluid intake and the ambient equivalent dose emitted from patients body.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014051417684N1**

Registration date: **2014-08-01, 1393/05/10**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-08-01, 1393/05/10

Registrant information

Name

Mahdi Haghghatafshar

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 3647 4835

Email address

afsharm@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz university of medical science, Vice chancellor for research

Expected recruitment start date

2014-07-20, 1393/04/29

Expected recruitment end date

2015-02-19, 1393/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the relation between the quantities of drank liquids and delivered dose to body of cancer thyroid patients treated with I-131

Public title

Drinking liquids in thyroid cancer therapy with I-131

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: thyroid cancer patients who treated with I-131 at nuclear medicine department in Namazi Hospital, shiraz, Iran. Exclusion criteria: vomiting

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Shiraz university of medical science, Ethics Committee

Street address

Central building of Shiraz University of Medical Science, Karimkhan-e Zand Boulevard

City

shiraz

Postal code

14336 - 71348

Approval date

2014-05-03, 1393/02/13

Ethics committee reference number

CT-P-9362-6122

Health conditions studied**1****Description of health condition studied**

Thyroid cancer

ICD-10 code

C73

ICD-10 code description

Malignant neoplasm of thyroid gland

Primary outcomes**1****Description**

Ambient equivalent dose

Timepoint

Before and after intervention

Method of measurement

Environmental dosimeter

Secondary outcomes**1****Description**

Physiological characteristics of the patient

Timepoint

Before intervention

Method of measurement

Measurement and asking patient

Intervention groups**1****Description**

Controlling quantities of drank liquids

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Shiraz Namazi Hospital

Full name of responsible person

Nuclear medicine and molecular imaging research center

Street address

Nuclear Medicine department, Namazi Hospital, Namazi Square

City

Shiraz

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Shiraz university of medical science, Vice chancellor for research

Full name of responsible person

Zahra Pandkhahi

Street address

Central building of Shiraz University of Medical Science, Karimkhan-e Zand Boulevard

City

Shiraz

Grant name**Grant code / Reference number**

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Shiraz university of medical science, Vice chancellor for research

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

Shiraz university of medical science

Full name of responsible person

Nuclear medicine and molecular imaging research center

Position

Expert of the center

Other areas of specialty/work

Street address

Nuclear Medicine department, Namazi Hospital, Namazi Square

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11351-71937

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Email

nmmirc@yahoo.com

Web page address

Person responsible for scientific

inquiries

Contact

Name of organization / entity

Shiraz university of medical science

Full name of responsible person

Nuclear medicine and molecular imaging research center

Position

Nuclear medicine Specialist

Other areas of specialty/work

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Web page address

Person responsible for updating data

Contact

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