

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

Effect of supplemental oxygen in prevention of contrast nephropathy in patients referring to angiography center.

Protocol summary

Summary

Patients which are undergoing elective CAG will be entered in the study. For all patients questionnaire will fill. Patients will be divided 2 groups; oxygen receiving group and non receiving oxygen group. First group will receive nasal oxygen 2-3 lit/min from 10 min before starting of the procedure up to the end of the procedure. Second group will inhale from the oxygen room. ABG will be taken from all of the patients before receiving oxygen and at the end of the procedure. All of the patients receive the same type of contrast media. Contrast media dosing will be from 100 cc up to 200cc.1cc/kg /hour isotonic saline infusion will be started for all of the patients from 12 hours before up to 12 hours after the procedure. Diuretics will hold one day before the procedure. Serum creatinin will be checked before and 48 hours after the procedure. End results will be analyzed with statistical software.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014082618936N1**
Registration date: **2014-10-10, 1393/07/18**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-10-10, 1393/07/18

Registrant information

Name

Farzane Sadat Minoo

Name of organization / entity

Imam Khomeini Hospital

Country

Iran (Islamic Republic of)

Phone

+98 21 6658 1568

Email address

fs-minoo@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Nefrology research center, Tehran University of Medical Sciences

Expected recruitment start date

2014-09-01, 1393/06/10

Expected recruitment end date

2014-12-01, 1393/09/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of supplemental oxygen in prevention of contrast nephropathy in patients referring to angiography center.

Public title

Effect of supplemental oxygen in prevention of contrast nephropathy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: male or female patients older than 35 years old. Exclusion criteria: cardiogenic shock; CHF; ACS; acute MI; COPD; ESRD under dialysis; O2 SAT < %90; need for emergency CABG.

Age

From **35 years** old to **85 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 430

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences

Street address

Tehran University of Medical Sciences, Ghods street,
Keshavarz boulevard

City

Tehran

Postal code

Approval date

2014-08-05, 1393/05/14

Ethics committee reference number

24524

Health conditions studied

1

Description of health condition studied

Contrast nephropathy

ICD-10 code

N14.3

ICD-10 code description

Nephropathy induced by heavy metals

Primary outcomes

1

Description

serum creatinin

Timepoint

48 hours later

Method of measurement

laboratory

Secondary outcomes

empty

Intervention groups

1

Description

Control group will receive normal saline 1ml/kg/h starting 12 hours before to 12 hours after contrast agent administration. Patients will receive 100-200ml contrast agent. Diuretics will be held 24 hours before contrast administration.

Category

Prevention

2

Description

Intervention group: these patients will receive nasal oxygen 2-3 liter/min from 10 min before procedure up to the end of the procedure in addition to normal saline 1ml/kg/h from 12 hours before to 12 hours after contrast administration. They will receive 100-200 ml contrast agent. Diuretics will be held 24 hours before contrast administration.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Rajaiy Heart Center

Full name of responsible person

Dr Salman Nikfarjam

Street address

Angiography ward, Rajaiy Heart Center, Vali-e-Asr
Niyesh crossroad

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor of Research, Tehran University of
Medical Sciences

Full name of responsible person

Dr Masoud Younesian

Street address

Tehran University of Medical Sciences, Ghods street,
Keshavarz boulevard

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor of Research, Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Elham Ramezanzade

Position

Nefrology fellow ship

Other areas of specialty/work

Street address

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Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Farzane Sadat Minoo

Position

Assistany professor

Other areas of specialty/work

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Assistant professor

Other areas of specialty/work

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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