Clinical Trial Protocol
Iranian Registry of Clinical Trials

23 Oct 2026

Effect of perioperative intravenous dexamethasone on hypocalcemia after total thyroidectomy in patients who candidate for thyroidectomy

Protocol summary

Summary

This study aims to focus on effect of perioperative intravenous dexamethasone on hypocalcemia after total thyroidectomy. In prospective randomized unblinded study, 90 subjects who needs total thyroidectomy is entered. They divided in two groups: 45 patients receive 8mg Dexamethasone 90 minutes before surgery as case groups and 45 patients do not as control group. patients with age range 18-70 years who need total thyroidectomy are included. Patients who have History of corticoesteroid consumption in past three months are excluded.Hypocalcemia is compared after surgery in both.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017011329726N3**
Registration date: **2017-02-10, 1395/11/22**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-02-10, 1395/11/22

Registrant information

Name

Mohsen Kolahdouzan

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of perioperative intravenous dexamethasone on hypocalcemia after total thyroidectomy in patients who candidate for thyroidectomy

Public title

Effect of perioperative intravenous dexamethasone on hypocalcemia after total thyroidectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age range 18-70 years; needed total thyroidectomy; tendency for participation in the study
Exclusion criteria: diabetic patients; history of ischemic heart disease; hypertensive patients; History of corticoesteroid consumption in past three months; pregnancy; addiction; expired patients during study; any changes in thyroidectomy types

Age

From **18 years** old to **70 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size
Target sample size: **90**

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
Ethic Committee of Isfahan University of Medical Sciences

Street address
Floor 2, Office of Deputy President, Isfahan, Isfahan University of Medical Sciences, Hezarjarib Ave,

City
Isfahan

Postal code
8174673461

Approval date
2014-09-23, 1393/07/01

Ethics committee reference number
393921

Health conditions studied

1

Description of health condition studied
Hypocalcemia

ICD-10 code
E89.2

ICD-10 code description
Other postprocedural endocrine and metabolic disorders

Primary outcomes

1

Description
serum Ca Level

Timepoint
6 and 24 hours after surgery

Method of measurement
Blood sampling

2

Description
Serum PTH level

Timepoint
6 and 24 hours after surgery

Method of measurement
Blood sampling

Secondary outcomes

1

Description
Clinical symptomes of Hypocalcemia

Timepoint
Two weeks after surgery

Method of measurement
History taking and physical examination

Intervention groups

1

Description
Case group: receive Dexamethasone 8mg 90 minutes before total thyroidectomy

Category
Prevention

2

Description
Control Group: without Dexamethasone before thyroidectomy

Category
Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Alzahra Hospital

Full name of responsible person
Mohsen Kolahdouzan

Street address
Surgery Department, Alzahra Hospital, Soffeh Avenue, Isfahan

City
Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Isfahan University of Medical Sciences

Full name of responsible person
Mehdi Nematbakhsh

Street address
Vice chancellor for Research, Soffeh Avanue, Isfahan University of Medical Sciences, Isfahan, Iran
City
Isfahan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Isfahan 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
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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