

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 2026

Comparison of scar of Collar incision in thyroid surgery in the under and over platysma and repair Platysma in patients with thyroidectomy

Protocol summary

Scar thickness; Pigmentation; Blood supply; flexibility

Study aim

In this study, the researcher investigates the type of flap and non-healing of Platysma scar severity.

Design

A randomized controlled clinical trial with parallel, double-blind, randomized groups

Settings and conduct

Surgery was performed at Alzahra and Imam Reza hospitals in Isfahan. In group A patients, however, a platysma flap and flap repair were performed. In group B patients with platysma flap and without platysma repair are used, in group C patients with subcutaneous flap and with platysma repair used, in group D patients with flap Subcutaneously and without the platysma muscle repair used to remove the thyroid. These four groups were then compared and evaluated according to Vancouver scar score and patient satisfaction with patients' scar beauty during a 6-month follow-up.

Participants/Inclusion and exclusion criteria

• Inclusion criteria: Candidate for Thyroidectomy due to Thyroid Cancer (Modular, Papillary, Follicular and Anaplastic Types); Having a platelet count of 150-450,000 ppm • Exclusion criteria: The site of the surgical incision to be manipulated during the study; Patients with a neck mass above 200 g; Patients with unsatisfactory or inadequate documentation; Patients who have a wound infection; No neuromuscular disorders of the neck such as neck spasm, diabetes mellitus (due to delayed wound healing).

Intervention groups

In group A patients, however, a platysma flap and flap repair were performed. In group B patients with platysma flap and without platysma repair are used, in group C patients with subcutaneous flap and with platysma repair used, in group D patients with flap Subcutaneously and without the platysma muscle repair used to remove the thyroid

Main outcome variables

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200205046383N1**

Registration date: **2020-06-06, 1399/03/17**

Registration timing: **retrospective**

Last update: **2020-06-06, 1399/03/17**

Update count: **0**

Registration date

2020-06-06, 1399/03/17

Registrant information

Name

ali akhavan

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3630 7204

Email address

dr.akhavan@live.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2016-12-21, 1395/10/01

Expected recruitment end date

2017-12-22, 1396/10/01

Actual recruitment start date

2017-03-21, 1396/01/01

Actual recruitment end date

2018-03-21, 1397/01/01

Trial completion date

2018-09-22, 1397/06/31

Scientific title

Comparison of scar of Collar incision in thyroid surgery in the under and over platysma and repair Platysma in patients with thyroidectomy

Public title

Comparison of cutaneous scar of thyroid surgery flaps

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Candidate for Total Thyroidectomy for Thyroid Cancer (Modular, Papillary, Follicular and Anaplastic Types)
Platelet count of 150-450 thousand ppm

Exclusion criteria:

The site of the surgical incision to be manipulated during the study
Patients with a neck mass above 200 g
Patients with unsatisfactory or inadequate documentation
Patients who had a wound infection. No neuromuscular disorders of the neck such as neck spasm, diabetes mellitus (due to delayed wound healing)

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Care provider
- Outcome assessor
- Data analyser

Sample size

Target sample size: **331**

Actual sample size reached: **160**

Randomization (investigator's opinion)

Randomized

Randomization description

Random block

Blinding (investigator's opinion)

Double blinded

Blinding description

Nursing ward and physician evaluating wound scar and analyzing data were not aware of the type of surgery and technique performed

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Isfahan University of Medical Sciences

Street address

Isfahan University of Medical Sciences, Hezar Jarib St

City

Isfahan

Province

Isfahan

Postal code

73461-81746

Approval date

2017-05-03, 1396/02/13

Ethics committee reference number

395984 (در سال 1396 توسط دانشگاه علوم پزشکی اصفهان (تصویب شده است)

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

Flexibility, perfusion, pigmentation and scar thickness

Timepoint

Second day and first month and sixth month

Method of measurement

Vancouver Scar Scaling

Secondary outcomes

empty

Intervention groups

1

Description

Control group: Platysma muscle flap formation and platysma muscle repair

Category

Treatment - Surgery

2

Description

Intervention group: Creating a platysma muscle flap without repairing the platysma muscle

Category

Treatment - Surgery

3

Description

Intervention group: Subcutaneous flap formation and platysma repair

Category

Treatment - Surgery

4

Description

Intervention group: Create a subcutaneous flap without repairing the platysma

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Dr Mohsen Kollahdouzan

Street address

Al-Zahra Medical Training Center, Sofeh Boulevard

City

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Fax

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Alzahra@mui.ac.ir

Web page address

<http://Alzahra.mui.ac.ir>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Dr Mohsen Kollahdouzan

Street address

Unit 219, Physician Residential Complex, Moshtaq Third St

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815894433

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Kollahdouzan@med.mui.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Esfahan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Ali Akhavan

Position

Resident of General surgery

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Dr Mohsen Kollahdouzan

Position

Assistant Professor

Latest degree

Subspecialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

Resident of General surgery

Latest degree

Medical doctor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available