Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 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

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

Scar thickness; Pigmentation; Blood supply; flexibility

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
Isfehan
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 Kolahdouzan
Street address
Al-Zahra Medical Training Center, Sofeh Boulevard
City
Isfahan
Province
Isfehan
Postal code
8174675731
Phone
+98 31 3620 2020
Fax
Email
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 Kolahdouzan
Street address
Unit 219, Physician Residential Complex, Moshtaq Third St
City
Isfahan
Province
Isfehan
Postal code
815894433
Phone
+98 31 3620 1293
Email
Kolahdouzan@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
Street address
No. 284, Padideh Abshar Counseling Center, Abshar II St
City
Isfahan
Province
Isfehan
Postal code
8166664433
Phone
+98 31 3630 7204
Email
Dr.akhavan@live.com

Person responsible for scientific inquiries

Contact
Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Dr Mohsen Kolahdouzan
Position
Assistant Professor
Latest degree
Subspecialist
Other areas of specialty/work
General Surgery
Street address

Unit 219, Physician Residential Complex, Moshtaq Third St
City
Isfahan
Province
Isfehan
Postal code
815894433
Phone
+98 31 3620 1293
Email
Kolahdouzan@med.mui.ac.ir

Person responsible for updating data

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
Street address
No. 284, Padideh Abshar Counseling Center, Abshar II St
City
Isfahan
Province
Isfehan
Postal code
8166664433
Phone
+98 31 3630 7204
Email
Dr.akhavan@live.com

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