

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Vocal Cord Movement: Comparison of Trans Thyroid and Supra Thyroid View in ultrasound

Protocol summary

Summary

Objectives: This study was designed to assess the efficiency of ultra(sound as a screening tool for the detection of impaired vocal-cord movement and compare two sonographic view , supra thyroid and trans thyroid, to find which view is preferred to observation of movement of vocal cord in different ages and sexes.

Design : In this clinical trial 144 (18- 80 years old) patient were evaluated. All patients underwent vocal cord sonography in tow sonographic view, Trans thyroid and supra thyroid, before and after surgery. After high risk surgery for vocal cord damage alike thyroidectomy, parathyroidectomy ,Carotid endartrectomy, anterior approach of cervical spine fixation and thoracic procedure ,s Patient underwent direct laryngoscopy. To assess accuracy of ultrasound, Trans cutaneous sonography findings were correlated with direct laryngoscopy findings after extubating. Vocal cord Paresis or palsy defined as abnormal vocal cord movement during respiration. Key words: vocal cord, ultrasonography, Trans thyroid view, supra thyroid view , airway.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016060628311N1**

Registration date: **2017-05-06, 1396/02/16**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-05-06, 1396/02/16

Registrant information

Name

sara ahmadi

Name of organization / entity

resident of anesthesia

Country

Iran (Islamic Republic of)

Phone

+98 21 4433 9115

Email address

drahmadi1396@gmail.com

Recruitment status

Recruitment complete

Funding source

Medical school of Iran University of medical sciences

Expected recruitment start date

2014-05-31, 1393/03/10

Expected recruitment end date

2016-01-31, 1394/11/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Vocal Cord Movement: Comparison of Trans Thyroid and Supra Thyroid View in ultrasound

Public title

The Use of Ultrasound to Diagnosis Vocal Cord Movement: Comparison of Trans Thyroid and Supra Thyroid View

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclution criteria: Patients (8-18 years old) that admitted in general operating room Exclusion criteria: Know patients with abnormal movement of the vocal cord in ultrasonography, patient with dysphonia despite apparently normal laryngeal ultrasonography

Age
From **18 years** old to **88 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **144**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
randomization using random number table

Secondary Ids

1

Registry name

—

Secondary trial Id

—

Registration date
empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Iran university of medical sciences

Street address
hemmat highway

City
Tehran

Postal code

Approval date
2017-01-19, 1395/10/30

Ethics committee reference number
IR.IUMS.REC 1395.9211174002

Health conditions studied

1

Description of health condition studied
vocal-cord movement assessment

ICD-10 code
XIX

ICD-10 code description

T80-T88

Primary outcomes

1

Description
vocal cord movement

Timepoint
after the end of surgery

Method of measurement
observation and grading the quality of images

Secondary outcomes

1

Description
don't have

Timepoint
...

Method of measurement
...

Intervention groups

1

Description
Intervention group 1: Using the ultrasound with supra thyroid view for the evaluation of vocal cord movement

Category
Diagnosis

2

Description
Intervention group 2: Using the ultrasound with trans thyroid view for the evaluation of vocal cord movement

Category
Diagnosis

3

Description
Control group: Using direct laryngoscopy for the evaluation of vocal cord movement

Category
Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center
Tehran, satarkhan street, Rasool akram hospital

Full name of responsible person
Dr masood mohseni

Street address
Tehran, satarkhan street, Rasool akram hospital,

Department of anesthesiology
City
tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran university of medical sciences

Full name of responsible person

vice Chancellor for research of Iran university of medical sciences , Dr Mehrdad Eftekhari

Street address

school of Medicine, Iran university of medical sciences, Hemmat Highway

City

tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Rasool Akram hospital

Full name of responsible person

Dr Masood Mohseni

Position

Assistant professor

Other areas of specialty/work

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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