

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Effect of Sensory Stimulation on Respiratory Weaning Indices of Patients from Mechanical Ventilation.

Protocol summary

Summary

The aim of this study is a survey effect of sensory stimulation on respiratory weaning indices. In this study 30 patients with spontaneous breathing, that have not brain injury and neuromuscular disorders are selected. At first respiratory parameters such as respiratory rate, expiratory tidal volume, peak of inspiratory pressure, compliance and air way resistance are measured. Then, sensory stimulation included tactile stimulation, gustatory stimulation, auditory and positional stimulation used for 20-30 minutes. Immediately and one hour later the same respiratory parameters are measured.

General information

Acronym

Sensory Stimulation in Mechanical Ventilation

IRCT registration information

IRCT registration number: **IRCT201409086481N5**

Registration date: **2014-09-15, 1393/06/24**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-09-15, 1393/06/24

Registrant information

Name

Mohsen Soleimani

Name of organization / entity

Semnan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 3365 4190

Email address

sol257@semums.ac.ir

Recruitment status

Recruitment complete

Funding source

Semnan University of Medical Sciences

Expected recruitment start date

2014-10-23, 1393/08/01

Expected recruitment end date

2016-04-20, 1395/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Sensory Stimulation on Respiratory Weaning Indices of Patients from Mechanical Ventilation.

Public title

Effect of Sensory Stimulation on Weaning from Mechanical Ventilation.

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion Criteria: Spontaneous breathing; Mechanical ventilation for 48 h or more than; Inform consent
Exclusion Criteria: Neuromuscular disorders; Long-term steroid therapy; Brain injury; End stage of cancer; Age over 70 years; Raised Intracranial pressure; Hip fracture; Artificial airway with tracheostomy

Age

From **14 years** old to **16 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**
Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Semnan University of Medical Sciences

Street address

Semnan University of Medical Sciences, 5th Km
Damghan road, Semnan, Iran.

City

Semnan

Postal code

3513138111

Approval date

2014-08-30, 1393/06/08

Ethics committee reference number

93/490119

Health conditions studied

1

Description of health condition studied

Diseases of the respiratory system

ICD-10 code

J96.0

ICD-10 code description

Acute respiratory failure

Primary outcomes

1

Description

Airway resistance

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of mechanical ventilation

2

Description

Compliance

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of mechanical ventilation

3

Description

Expiratory tidal volume

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of mechanical ventilation

4

Description

Spontaneous breathing

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of mechanical ventilation

5

Description

Blood Pressure

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of monitoring

6

Description

Heart rate

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of monitoring

7

Description

Peak of inspiratory pressure

Timepoint

Before intervention, immediate after intervention, 1 hour
later

Method of measurement

Display of mechanical ventilation

Secondary outcomes

empty

Intervention groups

1

Description

Sensory stimulation before and after were used for one group of patients included: 1- Auditory stimulation 2- tactile stimulation 3- Gustatory stimulation 4- Positional stimulation

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Beheshti Hospital in Kashan

Full name of responsible person

Dr, seyed Mehdi Moosavi

Street address

Dr Beheshti Hospital, Ghotbe Ravandi Avenue

City

Kashan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Ali Rashidy-pour

Street address

Semnan University of Medical Sciences, Basij Avenue, Semnan, Iran.

City

Semnan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Semnan 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

Semnan University of Medical Sciences

Full name of responsible person

Dr, Mohsen Soleimani

Position

PhD of Nursing

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