Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Nov 2026

The Effect of two Different Size of Suction Catheter on The Hemodynamic Parameters, Pain And Secretion Removal of Patient in The ICU

Protocol summary

Summary

This Quasi-Experimental Study On Patients in Intensive Care Beheshti Hospital of Yasouj With Less BThan Eight Level Of Consciousness That Has Conditions Such As an Oral Endotracheal Tube and Connected To a Ventilator With Volume Mode, The Minimum Age of Eighteen Years and Up Sixty Years;Systolic Blood Pressure More Than One Hundred or Less Than a Hundred and Forty ؛ Heart Rate Less Than a Hundred Beats Per Minute and Blood Oxygen Saturation More Than Ninety Percent،Will Be Done.Thirty of These Patients That Their Inclusion Criteria Are Selected.The Exclusion Criteria of This Study Include Lack of Willingness of The Family to Participate in The Study, Requires Less Than Three Times in Each Stage Suction, Diseases, Blood Coagulation Disorders, Paralysis for Patients؛ Receiving Narcotic Drugs and Muscle Relaxants.This study Will Be Conducted as a Crossover Design, Each Day Randomly Twelve or Fourteen Patients Undergoing Tracheal Suction Catheter Placed With Suction Three Episodes and Each Time IsTen Seconds.And Finally Heart Rate, Blood Pressure, Blood Oxygen Saturation,Pain and Secretion Removal Weight Before, During and After the Suction is Measured and Compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015100724410N1**
Registration date: **2015-12-02, 1394/09/11**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-12-02, 1394/09/11

Registrant information

Name
Akvan Paymard
Name of organization / entity
Yazd University of Medical Sciences
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paymard@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Yazd University Of Medical Siences

Expected recruitment start date

2015-09-23, 1394/07/01

Expected recruitment end date

2015-12-01, 1394/09/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of two Different Size of Suction Catheter on The Hemodynamic Parameters, Pain And Secretion Removal of Patient in The ICU

Public title

The Effect Of Catheter Size on Hemodynamic Parameters

Purpose

Supportive

Inclusion/Exclusion criteria

(Inclusion Criteria:Being Admitted to Hospital Intensive Care Units؛ an Oral Endotracheal Tube and Connected to a Ventilator With Volume Mode؛ The Minimum Age of 18 Years and Maximum 60 Years؛ Systolic Blood Pressure

Greater Than 100 and Less Than 140؛ Less Heart Rate of 100 Beats Per Minute؛ Oxygen Saturation Greater Than 90%) (Exclusion Criteria:Need to Suction More Than 3 Times؛ Diseases and Blood Coagulation Disorders؛ Thrombocytopenia؛Not Paralyzed Patient؛ Underlying Respiratory Disease؛ Particularly Narcotic Drugs and Muscle Relaxants)

Age
From **18 years** old to **60 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **37**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
shahid saddoghi yazd university of medical of siences

Street address
In Front of the Infertility Center, Safaieh street,Bu Ali Boulevard

City
Yazd

Postal code

Approval date
2015-09-27, 1394/07/05

Ethics committee reference number
ir.ssu.rec.1394.86

Health conditions studied

1

Description of health condition studied
Coma

ICD-10 code
R40.2

ICD-10 code description
Coma, unspecified

Primary outcomes

1

Description
Heart Rate

Timepoint
5 Minutes Before The Suction،First Suction For 10 Seconds، Two Seconds Suctioning For10 Seconds، Third Suction For10 seconds، 5 Minutes After Suctioning، 20 Minutes After Suctioning

Method of measurement
Monitoring

2

Description
O2 Saturation

Timepoint
5 Minutes Before The Suction،First Suction For 10 Seconds، Two Seconds Suctioning For10 Seconds، Third Suction For10 seconds، 5 Minutes After Suctioning، 20 Minutes After Suctioning

Method of measurement
Monitoring

3

Description
Blood Pressure

Timepoint
5 Minutes Before The Suction، 5 Minutes After Suctioning، 20 Minutes After Suctioning

Method of measurement
Monitoring

4

Description
Pain

Timepoint
First Suction For 10 Seconds، Two Seconds Suctioning For10 Seconds، Third Suction For10 seconds

Method of measurement
Observation By Cpot Tools

5

Description
Secretion Removal

Timepoint
After Suctioning

Method of measurement
Digital Balance

Secondary outcomes

1

Description
Level Of Consciousness

Timepoint
Before Of Intervention

Method of measurement
Glasscow Coma Scale

Intervention groups

1

Description
Endotracheal Suction With 12 French Catheter
Category
Diagnosis

2

Description
Endotracheal Suction With 14 French Catheter
Category
Diagnosis

Recruitment centers

1

Recruitment center
Name of recruitment center
Shahid Beheshti Hospital of Yasuj
Full name of responsible person
Akvan Paymard
Street address
Shahid Beshti Hospital,Yasuj
City
Yasuj

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
School of Nursing and Midwifery Yazd
Full name of responsible person
Dr Mostafa Javadi
Street address
Iin Front of the Infertility Center,Safaieh street , Bu Ali Boulevard
City
Yazd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
School of Nursing and Midwifery Yazd
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
Yazd School of Nursing and Midwifery
Full name of responsible person
Akvan Paymard
Position
Msn in Critical Care Nursing
Other areas of specialty/work
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Person responsible for scientific inquiries

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Full name of responsible person
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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