Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of acupressure on the level of the O2 saturation, exhaled carbon dioxide and physiological indexes in the brain contusion patients under mechanical ventilation.

Protocol summary

Study aim
The effect of acupressure on the level of the O2 saturation, exhaled carbon dioxide and physiological indexes in the brain contusion patients under mechanical ventilation

Design
Randomized clinical trial with control and intervention group, with parallel groups, without blindness, sample size= 64

Settings and conduct
ICU Section . The researcher first meets the patients' companions and describes the research objectives. If they are satisfied and based on entry criteria, patients will be selected for participation in the study and will be randomly assigned to two groups of control and test Will divide.

Participants/Inclusion and exclusion criteria
Diagnosis of brain trauma (contusion) Under mechanical ventilation

Intervention groups
Applying acupressure on p6 for 10 minutes at two times in the morning and afternoon for two consecutive days for the intervention group, in the control group, as in the intervention group, the pressure intervention on the false point will be done

Main outcome variables
Oxygen saturation level,Exhaled carbon dioxide, Physiological indicators

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20190303042900N1**
Registration date: **2019-07-13, 1398/04/22**
Registration timing: **registered_while_recruiting**
Last update: **2019-07-13, 1398/04/22**
Update count: **0**

Registration date
2019-07-13, 1398/04/22

Registrant information

Name
Shahriyar Salehitali

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-04-21, 1398/02/01

Expected recruitment end date
2020-04-20, 1399/02/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The effect of acupressure on the level of the O2 saturation, exhaled carbon dioxide and physiological indexes in the brain contusion patients under mechanical ventilation.

Public title
Effect of acupressure on the level of the o2 saturation,exhaled carbon dioxide and physiological

indexes in the brain traumatic (contusion) patients under mechanical ventilation.

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

Brain contusion admitted to the intensive care unit

Exclusion criteria:

The patient does not cooperate The patient's family does not consent Change the treatment strategy

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **64**

Randomization (investigator's opinion)

Randomized

Randomization description

Based on their inclusion criteria, they are selected for inclusion in the study and then divided into control and test groups based on the random allocation rule. In this method, according to the sample size of the dual card (red and blue) with the same number and total volume of the sample in the pot, then eligible individuals randomly drop one of the cards from the pot and, according to the definition of the researcher, enter one of the research groups will be

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahrekord University of Medical Sciences

Street address

Kashani street-NerveCenter of Shahrekord Univercity of Medical Scieences

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8815713471

Approval date

2019-04-20, 1398/01/31

Ethics committee reference number

IR.SKUMS.REC.1398.026

Health conditions studied

1

Description of health condition studied

Brain trauma

ICD-10 code

S06.2

ICD-10 code description

Diffuse traumatic brain injury

Primary outcomes

1

Description

effect acupressure of index physiology

Timepoint

Before the intervention immediately after half an hour and an hour later

Method of measurement

Monitoring

2

Description

Exhaled carbon dioxide

Timepoint

Before the intervention immediately after half an hour and an hour later

Method of measurement

Capnograph

3

Description

Percent saturation of oxygen

Timepoint

Before the intervention immediately after half an hour and an hour later

Method of measurement

Pulse oximeters

Secondary outcomes

1

Description

Exhaled carbon dioxide

Timepoint

Before the intervention immediately after half an hour and an hour later

Method of measurement

capnograghy

Intervention groups

1

Description
Intervention group: Pressure at point p6 for ten minutes in the morning and evening for two consecutive days
Category
N/A

2

Description
Control group:Exercise pressure at the false point for ten minutes in the morning and afternoon for two consecutive days
Category
N/A

Recruitment centers

1

Recruitment center
Name of recruitment center
Sharekord kashani Hospital
Full name of responsible person
Azam Moslehi
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Sponsors / Funding sources

1

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Web page address
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shahre-kord 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
Shahre-kord University of Medical Sciences
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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