

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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

Country

Iran (Islamic Republic of)

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+98 38 3334 9321

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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 University of Medical Sciences

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

capnography

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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Parastar street-Ayatollah Kashani Hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Kamal Solati

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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

Full name of responsible person

Shahreyar Salehi

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Person responsible for updating data**Contact****Name of organization / entity**

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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