

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

Investigating the effect of music on the level of consciousness of Traumatic brain injury patients

Protocol summary

Study aim

The results of this study may increase the level of alertness of head injured patients in the intensive care unit and promote the use of non-pharmacological treatments, such as music in special units

Design

A clinical trial design with a control group, single blind, randomized

Settings and conduct

The study will be conducted in Shahid Rajaei and Razi hospitals in Qazvin for 7 days.

Participants/Inclusion and exclusion criteria

Patients aged 18-65 years old. The level of consciousness based on Glasgow coma scale is less than 8. The patient is admitted with a diagnosis of trauma brain injury including subdural, epidural, intracerebral, ventricular and subarachnoid hemorrhage. The setting is based on the Richmond criteria in the range of 2+ to 2. 48 hours from the time of admission. Exclusion criteria: discontent of the patient's companions to continue the study. Patients with vegetable status according to doctor's diagnosis. Patients with severe previous head injury. The history of alcohol use and pre-incident drug use according to family statements. Loss of consciousness is suddenly more than 3 scores based on the Glasgow coma scale during the intervention.

Intervention groups

In the intervention group, smooth and unconventional beach walking, Stein will be selected from the Top-Hits zum Entspannen Vol.1 album. This music will be played in the intervention group with a beat of 60 to 80 beats per minute with MP3 PLAYER for 15 minutes. Music selected once a day, Music will be at 16-18 pm, Music will be played through headphones for 7 days. The control group will only receive the usual activities of the department

Main outcome variables

level of consciousness

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190106042259N1**

Registration date: **2019-02-19, 1397/11/30**

Registration timing: **prospective**

Last update: **2019-02-19, 1397/11/30**

Update count: **0**

Registration date

2019-02-19, 1397/11/30

Registrant information

Name

saeedeh doust mohammadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 28 3523 9125

Email address

s.doustmohammadi@qums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-03-21, 1398/01/01

Expected recruitment end date

2019-12-21, 1398/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effect of music on the level of consciousness of Traumatic brain injury patients		Assignment	Parallel
Public title		Other design features	
The Impact of Music on the Level of consciousness the traumatic brain injury patients		Secondary Ids	
Purpose		empty	
Supportive		Ethics committees	
Inclusion/Exclusion criteria		1	
Inclusion criteria:		Ethics committee	
Patients aged 18-65 years old The level of consciousness based on Glasgow coma scale less than 8 The patient is admitted with a diagnosis of. traumatic brain injury including subdural , epidural, intracerebral, ventricular and subarachnoid hemorrhage. The sedation is based on the Richmond criteria in the range of 2+ to 2 24 hours after vital signs are stable No previous hearing loss is reported by the family No Dressing in the ear According to the orthopedics doctor, patients should have at least one healthy hearing position		Name of ethics committee	
Exclusion criteria:		Ethics Committee of Qazvin University of Medical Sciences	
Dissatisfaction the companions of the patient to continue participating in the study Patients with vegetable status according to doctor's diagnosis The history of alcohol use and pre-incident drug use according to family statements. Loss of consciousness is suddenly more than 3 scores based on the Glasgow coma scale during the intervention.		Street address	
Age		Shafa hospital,Fakuri street,Takestan,Qazvin-	
From 18 years old to 65 years old		City	
Gender		Qazvin	
Both		Province	
Phase		Qazvin	
N/A		Postal code	
Groups that have been masked		3481993656	
No information		Approval date	
Sample size		2019-01-06, 1397/10/16	
Target sample size: 54		Ethics committee reference number	
More than 1 sample in each individual		IR.QUMS.REC.1397.276	
Number of samples in each individual: 27		Health conditions studied	
The research units will include patients who have entered the research criteria and will enter the study in two groups of control and Intervention. 54 patients (women and men) will be placed in two groups of intervention and control, each of which will contain 27 samples. Satisfaction will be taken from executor patient. Patients with an alertness level of less than 8 scores based on the Glasgow coma scale will be selected		1	
Randomization (investigator's opinion)		Description of health condition studied	
Randomized		Level of consciousness in traumatic brain injury	
Randomization description		ICD-10 code	
Patients are selected by convenient sampling method. Using simple random sampling method, two groups of intervention and control using separate drawings of two red and white balls (without placement) will be performed, so that the white ball indicates the control group And the red ball indicates the intervention group		ICD-10 code description	
Blinding (investigator's opinion)		Primary outcomes	
Not blinded		1	
Blinding description		Description	
Placebo		level of consciousness	
Not used		Timepoint	
		The level of consciousness will be measured for 7 days 5 minutes before the performance and 10 minutes after the completion of the music	
		Method of measurement	
		level of consciousness will be measured based on Glasgow coma scale	
		Secondary outcomes	
		empty	
		Intervention groups	
		1	
		Description	
		Music intervention in the intervention group will be	

performed through a part of the work of Arend Stein for 7 sessions and 15 minutes through the headphones.

Category

Rehabilitation

2**Description**

Control group: The control group will receive routine care only

Category

Rehabilitation

Recruitment centers**1****Recruitment center****Name of recruitment center**

Shahid Rajaei and Razi Hospital in Qazvin city

Full name of responsible person

Saeedeh dust mohammadi

Street address

Shafa hospital,Fakouri street,Takestan,Qazvin

City

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Province

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3481993656

Phone

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Email

saeedeh.dm6475@gmail.com

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Qazvin University of Medical Sciences

Full name of responsible person

Saeedeh dust mohammadi

Street address

Shafa hospital,Fakuri street,Takestan,Qazvin

City

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Qazvin University of Medical Sciences

Proportion provided by this source

50

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**

Qazvin University of Medical Sciences

Full name of responsible person

Saeedeh dust mohammadi

Position

Nurse

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

Qazvin University of Medical Sciences

Full name of responsible person

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Position

nurse

Latest degree

Bachelor

Other areas of specialty/work

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Yes - There is 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

Not applicable

Title and more details about the data/document

Information on the main consequence of sharing is possible

When the data will become available and for how long

One year after the start of sampling

To whom data/document is available

All people

Under which criteria data/document could be used

In order to use in traumatic care units to increase the level of consciousness in patients with traumatic brain injury

From where data/document is obtainable

Qazvin University of Medical Sciences

What processes are involved for a request to access data/document

The data will be collected by the researcher after receipt of the clinical trial code and the written consent of the patient.

Comments