Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 2026

Comparison of efficacy of two methods of virtual reality and multimedia system on pain and pain anxiety in burn patient during dressing change: A randomized controlled clinical trial

Protocol summary

Summary

This study is a randomized clinical trial to compare the effects of two methods of virtual reality and multimedia system on pain and pain anxiety in burn patient during dressing change that hospitalized in Tabriz Burn Center. In this study 60 burn patients will be enrolled which will be selected by convenience sampling. Then samples will be allocated randomly to three groups: control, intervention of virtual reality and intervention of multimedia system. The virtual reality and multimedia system intervention groups will receive virtual identical images (images and sounds of a waterfall) once a day for 5 consecutive days during dressing (the third to seventh day burning). The control group will receive only routine care. Pain and pain anxiety scales before and after the intervention will complete for all groups. Finally, the results of the three groups will be compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201605016834N9**
Registration date: **2016-07-11, 1395/04/21**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-07-11, 1395/04/21

Registrant information

Name

Hossein Ebrahimi

Name of organization / entity

Tabriz University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2016-07-05, 1395/04/15

Expected recruitment end date

2017-01-04, 1395/10/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of efficacy of two methods of virtual reality and multimedia system on pain and pain anxiety in burn patient during dressing change: A randomized controlled clinical trial

Public title

Comparison of efficacy of two methods of virtual reality and multimedia system on pain and pain anxiety in burn patient during dressing change: A randomized controlled clinical trial

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients who are hospitalized in the burn ward of arrival; have not the history of previous burns; are in burns below 25% and second- degree; are

acute phase of burn (48 to 72 hours after burn); are 18 years and older; are interested in participating in the study; are conscious and orientated; have not sight and hearing problems; are not addicted; had general health over the past month; absence of numbness in the limbs target; are not diabetic(due to lack of feeling pain). Exclusion criteria: patients who not want to continue the cooperation in the study; are transferred to another ward; have absence more than one meeting; taking pain killers or sedative without prescription; taking skin graft.

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: **60**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single 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 Tabriz University of Medical Sciences, Vice chancellor for research

Street address
Third floor, Central Building- No 2, Golgasht Street

City
Tabriz

Postal code

Approval date
2016-05-09, 1395/02/20

Ethics committee reference number
IR.TNZMED.REC.1395.135

Health conditions studied

1

Description of health condition studied
Second-degree burn patients

ICD-10 code
T20, T25

ICD-10 code description
Burns and corrosions of external body surface, specified by site

Primary outcomes

1

Description
Pain

Timepoint
Before the intervention, immediately after intervention 5 consecutive days (the third to seventh day burning)

Method of measurement
Visual Analogue Scale (VAS): 0–10 Numeric Pain Rating Scale

Secondary outcomes

1

Description
Pain anxiety

Timepoint
Before the intervention, immediately after intervention 5 consecutive days (the third to seventh day burning)

Method of measurement
Burn Specific Pain Anxiety Scale (BSPAS)

Intervention groups

1

Description
In virtual reality group: playing images and sounds of a waterfall with a virtual reality head set, once a session on 5 consecutive days during dressing (the third to seventh day burning) will be performed. Before and after the intervention pain and pain anxiety scales will be completed.

Category
Other

2

Description
In multimedia system group: playing images and sounds of a waterfall with a LCD devices, once a session on 5 consecutive days during dressing (the third to seventh day burning) will be performed. Before and after the intervention Pain and pain anxiety scales will be completed.

Category
Other

3

Description
For the control group during the intervention is intended for routine care.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Tabriz Sina Hospital

Full name of responsible person
Dr. Abasad Gharedaghi

Street address
Sina Hospital, Azadi Avenue

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Research Vice- Chancellor, Tabriz University of Medical Sciences

Full name of responsible person
Dr Mohammad Reza Rashidi

Street address
Third floor, No 2 Building of Tabriz University of Medical Sciences, Golgasht Ave

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Tabriz

Grant name

Grant code / Reference number

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

Title of funding source
Research Vice- Chancellor, Tabriz 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

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tabriz University of Medical Sciences, Nursing and Midwifery Faculty

Full name of responsible person
Dr Hossein Ebrahimi

Position
PhD in nursing education

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)
empty

Study Protocol
empty

Statistical Analysis Plan
empty

Informed Consent Form
empty

Clinical Study Report
empty

Analytic Code
empty

Data Dictionary
empty