

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effect of two methods of acupressure in Hugo point and music on severity of pain due to intravenous puncture in children referred to emergency department

Protocol summary

Study aim

This study aimed to determine and compare the effect of acupressure on Hugo point and music on the severity of pain injuries in children referred to the emergency department of Amirmomenin hospital in Semnan.

Design

In a clinical trial, patients assigned to study groups by six-block randomization. The person who analyzed data is not aware from the type of intervention.

Settings and conduct

The study conducted at Kowsar Hospital affiliated with the Semnan University of Medical Sciences and Health Services.

Participants/Inclusion and exclusion criteria

The Statistical population are all children aged 3 to 6 years old who referred to the pediatric emergency department and need to intravenous line. The children who have not acute status and illness and this admission is their first hospitalization experience enrolled in study. All children who need to repeated intravenous line insertion excluded from the study.

Intervention groups

The first intervention group receive Hugo point massage before intravenous line insertion and the second intervention group listen to music before intravenous line insertion. Before playing music parents and children asked for favorite song in the area of the approved songs and the child's favorite song played within the time limit set. The control group does not receive an intervention and only the usual procedure carried out.

Main outcome variables

Main outcome variable is pain severity.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151020024625N11**

Registration date: **2019-10-04, 1398/07/12**

Registration timing: **retrospective**

Last update: **2019-10-04, 1398/07/12**

Update count: **0**

Registration date

2019-10-04, 1398/07/12

Registrant information

Name

Mehrdad Zahmatkesh

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

2019-01-21, 1397/11/01

Expected recruitment end date

2019-05-15, 1398/02/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of two methods of acupressure in Hugo point and music on severity of pain due to

intravenous puncture in children referred to emergency department

Public title

Comparison of the effect of two methods of acupressure and music on severity of pain due to intravenous puncture in children

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

Non Acute Patients Physical and Psychological Health

Exclusion criteria:

Repeated IV puncture

Age

From **3 years** old to **6 years** old

Gender

Both

Phase

3

Groups that have been masked

- Data analyser

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization by six block randomization

Blinding (investigator's opinion)

Single blinded

Blinding description

Persons who analyzed data is not aware from interventions.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Institutional Research Ethics Committee Islamic Azad University - Isfahan (Khorasgan) Branch

Street address

Eastern Jey Avenue, Arghavaniyeh, University Boulevard

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Postal code

۳۹۹۹۸۸۱۵۵۱

Approval date

2019-01-16, 1397/10/26

Ethics committee reference number

IR.IAU.KHUISF.REC.1397.201

Health conditions studied

1

Description of health condition studied

Pain during I.V. Puncture

ICD-10 code

G89.18

ICD-10 code description

Other acute post-procedural pain

Primary outcomes

1

Description

Pain severity

Timepoint

After I.V. puncture

Method of measurement

OUCHER scale for pain measurement

Secondary outcomes

empty

Intervention groups

1

Description

The first intervention group received the Hugo point massage (one of the distal parts of the upper limb, behind the hand, between the first and second metacarpal bones) before I.V. puncture.

Category

Prevention

2

Description

In the second intervention group, children will listen to their favorite music in a predetermined time frame before I.V. puncture.

Category

Prevention

3

Description

The control group does not receive intervention and only done I.V. puncture.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Amir-Al-Momenin Hospital, Semnan

Full name of responsible person

Alireza Momenabadi

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Shahid Mostafa Khomeini Boulevard

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr. Fatemeh Ehsani

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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

Semnan 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**

Azad Islamic University

Full name of responsible person

Alireza Momenabadi

Position

Nurse

Latest degree

Master

Other areas of specialty/work

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Person responsible for updating data

Contact**Name of organization / entity**

Semnan University of Medical Sciences

Full name of responsible person

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Position

Researcher

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Only final report will published.

When the data will become available and for how long

After completing of study

To whom data/document is available

Any person who request.

Under which criteria data/document could be used

Referees

From where data/document is obtainable

Contact by email

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

Contact with responsible person and supervisor permission

Comments