

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

A clinical trial on the effect of education and the presence of visual signs on the intensity of noise pollution induced by the neonatal intensive care unit staff

Protocol summary

Summary

The purpose of this study was to investigate the effect of behavioral education on the intensity of noise induced by the staff working in the neonatal intensive care unit. The population included all the personnel of the neonatal intensive care unit of Valiasr Hospital in Birjand. Twenty-five personnel of this department were incorporated by census. The study was one-grouped, without blindness, and without randomization. The main criteria for inclusion in the study comprised of the working staff in the neonatal intensive care unit of Valiasr Hospital in Birjand and informed consent for participation. Major exclusion criterion was transference from the neonatal intensive care unit. In this study, the neonatal intensive care unit was divided into 4 points at the bedside of the infants and inside the incubator, and 4 points in the center of the ward, inside the incubator, and in the nursing station. In each area, the intensity was measured for at least 15 minutes during each work shift for two days. Subsequently, a general meeting was held for all staff members of the neonatal department including physicians, nurses and sanitation crew to explain about the sources of noise pollution and the methods of noise suppression. After a week, noise intensity was measured again in all stations. In the next step, color flags associated with noise absorption project and the related posters were installed and noise intensity was measured. To determine noise intensity, the maximum sound level, mid-level and minimum sound level were recorded for 15 minutes using the TES-1385 sound pressure detector device.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017101117756N32**

Registration date: **2017-10-22, 1396/07/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-10-22, 1396/07/30

Registrant information

Name

Mohammad Bagher Roozgar

Name of organization / entity

Birjand University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 56 3239 5680

Email address

mbroozgar@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor of Research, Birjand University of Medical Sciences

Expected recruitment start date

2017-02-19, 1395/12/01

Expected recruitment end date

2017-04-21, 1396/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A clinical trial on the effect of education and the

presence of visual signs on the intensity of noise pollution induced by the neonatal intensive care unit staff

Public title
The effect of education and visual signs on noise pollution

Purpose
Other

Inclusion/Exclusion criteria
Inclusion criteria: Staff of neonatal intensive care unit of Valiasr Hospital of Birjand; informed consent for participation in the study. Exclusion criteria: Transference of the staff member from the neonatal intensive care unit.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: 25

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Birjand University of Medical Sciences

Street address

Vice-chancellery of Research, Birjand University of Medical Sciences, Ghaffari St.,

City

Birjand,

Postal code

Approval date

2017-02-01, 1395/11/13

Ethics committee reference number

Ir.bums.REC.1395.235

Health conditions studied

1

Description of health condition studied

Noise pollution

ICD-10 code

W42

ICD-10 code description

Exposure to noise

Primary outcomes

1

Description

Noise intensity in the environment

Timepoint

Before and one week after intervention

Method of measurement

TES-1385 Sound Pressure Detector made by TES Company in Taiwan

Secondary outcomes

empty

Intervention groups

1

Description

intervention Group (Education): A general meeting was held for all staff members of the neonatal department including physicians, nurses and sanitation crew to explain about the sources of sound pollution and the methods of noise suppression. Moreover, color flags associated with noise absorption project and the related posters were installed in the ward.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Neonatal Intensive Care Unit

Full name of responsible person

Dr Gholamreza Faal

Street address

Valiasr Hospital, Ghaffari St.,

City

Birjand,

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-Chancellery for Research and Technology,
Birjand University of Medical Sciences

Full name of responsible person

Dr. Tooba Kazemi

Street address

Vice-chancellery of Research and Technology,
Birjand University of Medical Sciences, Ghaffari St.,

City

Birjand,

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

Yes

Title of funding source

Vice-Chancellery for Research and Technology, Birjand
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****Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Dr Afsaneh Davoodi

Position

Assistant of Pediatrics

Other areas of specialty/work**Street address**

Faculty of Medicine, Birjand University of Medical
Sciences, Ghaffari St.,

City

Birjand,

Postal code**Phone**

+98 56 3239 5680

Fax**Email**

afsanehdavodi@gmail.com

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

Birjand University of Medical Sciences

Full name of responsible person

Dr Gholamreza Faal

Position

Associate Professor of Pediatrics

Other areas of specialty/work**Street address**

Faculty of Medicine, Birjand University of Medical
Sciences, Ghaffari St.,

City

Birjand,

Postal code**Phone**

+98 56 3242 5402

Fax**Email**

faalgh1@mums.ac.ir

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

Birjand University of Medical Sciences

Full name of responsible person

Mohammad Bagher Roozgar

Position

PhD Candidate in Translation Studies

Other areas of specialty/work**Street address**

Vice-chancellery of Education, Birjand University of
Medical Sciences, Ghaffari St.,

City

Birjand,

Postal code**Phone**

+98 56 3239 5680

Fax**Email**

hadirooz@gmail.com

Web page address**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