

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

To investigate the effect of needle magnet on risk of scrub nurses' needle contact and dispersion of sharp things in heart, thoracic and organ transplantation surgery.

Protocol summary

Study aim

Objective: To investigate the effect of needle magnet on risk of scrub nurses' needle contact and dispersion of sharp things in heart, thoracic and organ transplantation surgery. Based on inclusion and exclusion criteria, 80 scrub nurses are randomly selected and randomly divided into two groups; intervention and control. In the intervention group, participants receive needle magnet before the start of operation. Scrub nurses' needle contact and dispersion of sharp things before and after using needle magnet is measured by the questionnaire that verified its validity and reliability previously. In the control group there is no intervention.

Design

Clinical trial with a control group, randomized, parallel group

Settings and conduct

Namazi Hospital

Participants/Inclusion and exclusion criteria

Scrub Nurses

Intervention groups

In the intervention group, participants receive needle magnet before the start of operation. Scrub nurses' needle contact and dispersion of sharp things before and after using needle magnet is measured by the questionnaire that verified its validity and reliability previously.

Main outcome variables

Needle Stick Injury

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180109038286N1**

Registration date: **2018-02-13, 1396/11/24**

Registration timing: **registered_while_recruiting**

Last update: **2018-02-13, 1396/11/24**

Update count: **0**

Registration date

2018-02-13, 1396/11/24

Registrant information

Name

Farzaneh Rezaei

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3821 9747

Email address

farzanehrezai90@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-21, 1396/11/01

Expected recruitment end date

2018-03-20, 1396/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

To investigate the effect of needle magnet on risk of scrub nurses' needle contact and dispersion of sharp things in heart, thoracic and organ transplantation surgery.

Public title

To investigate the effect of needle magnet on risk of scrub nurses' needle contact and dispersion of sharp things in heart, thoracic and organ transplantation surgery.

Purpose
Prevention

Inclusion/Exclusion criteria
Inclusion criteria:
 1. Willingness to participate in the study 2. Scrub nurses in the morning and evening shifts 3. Scrub nurses in Heart and Thoracic and organs Transplantation Surgery
Exclusion criteria:

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: 80

Randomization (investigator's opinion)
Randomized

Randomization description
Stratified randomization

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 Shiraz University of Medical Sciences

Street address

Shiraz University of Medical Sciences, Zand Street, Shiraz

City

Shiraz

Province

Fars

Postal code

713451978

Approval date

2017-06-11, 1396/03/21

Ethics committee reference number

IR.SUMS.REC.1396.57

Health conditions studied

1

Description of health condition studied

ICD-10 code

ICD-10 code description

2

Description of health condition studied

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Needle Stick Injuries during surgery

Timepoint

Before and after using the needle magnet

Method of measurement

Made Questionnaire

2

Description

Dispersion of sharp things during surgery

Timepoint

Before and after using the needle magnet

Method of measurement

Made Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

In the intervention group, participants receive needle magnet before the start of operation . Scrub nurses' needle contact and dispersion of sharp things before and after using needle magnet is measured by the questionnaire that verified its validity and reliability previously.

Category

Diagnosis

2

Description

Control group: There is no intervention in the control group.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Namazi Hospital

Full name of responsible person

Hashem Rahmati

Street address

Namazi square, Namazi Hospital

City

Shiraz

Province

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Postal code

713451978

Phone

+98 71 3647 4255

Email

farzanehrezaei90@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Shiraz University of Medical Sciences

Full name of responsible person

Dr Seed Basir Hashemi

Street address

Vice chancellor of research, 7th floor of central building of Shiraz University of Medical Sciences, Zand street

City

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+98 71 3235 7282

Email

vcrdep@sums.ac.ir

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

Yes

Title of funding source

Vice Chancellor for Research, Shiraz 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**

Shiraz University of Medical Sciences

Full name of responsible person

Farzaneh Rezaei

Position

Master Student Operating Room

Latest degree

Bachelor

Other areas of specialty/work

Operating Room

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Person responsible for scientific inquiries

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Full name of responsible person

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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)**

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