

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 May 2026

Evaluation Of The Effect of Using an instrument for Organizing Suture threads on Self-efficacy and Satisfaction of Scrub Person

Protocol summary

In this study, self-efficacy and satisfaction are examined in two groups.

Study aim

Determining of Evaluation Of The Effect of Using an instrument for Organizing Suture threads on Self-efficacy and Satisfaction of Scrub Person in Operating Room of Alzahra Hospital of Isfahan in 1398-99

Design

A clinical trial with a control group, with a parallel group, one-way, blind, randomized, on 44 staff members of the operating room scrub.

Settings and conduct

This study will be performed on staff in the role of scrub in Al-Zahra Hospital. The sampling method is first available (easy) and then randomly assigned to the control and intervention groups. In the control group, routine method and in the intervention group, an instrument are used for maintenance and arranging surgical sutures. Then, the effect of the independent variable "Using an instrument for Organizing Suture threads" on the dependent variable of "self-efficacy" and "satisfaction" is evaluated. data analyzers are kept blind.

Participants/Inclusion and exclusion criteria

Entry requirements: Training the scrub person to use the tool, working in the fields of general surgery, vascular, neurology, orthopedics, pediatrics, cosmetics, ENT and gynecology, using the method of arranging surgical sutures in at least 3 surgeries and in surgeries that more than 3 surgical sutures have been Opened. No entry conditions: Using a method other than the routine method and other than the tools for organizing surgical sutures

Intervention groups

Control group: Scrub persons who will use the routine method of organizing surgical sutures. The routine method of arranging surgical sutures is to place the surgical sutures after each use, on the surgical table or on a gas to arrange the surgical sutures and make them available. Intervention group: Scrub persons who will use a surgical instrument for organizing Suture threads.

Main outcome variables

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20150715023216N7**

Registration date: **2020-09-15, 1399/06/25**

Registration timing: **registered_while_recruiting**

Last update: **2020-09-15, 1399/06/25**

Update count: **0**

Registration date

2020-09-15, 1399/06/25

Registrant information

Name

Said Amini Rarani

Name of organization / entity

Isfahan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-08-24, 1399/06/03

Expected recruitment end date

2020-10-21, 1399/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Evaluation Of The Effect of Using an instrument for Organizing Suture threads on Self-efficacy and Satisfaction of Scrub Person

Public title
The Effect of Using an instrument for Organizing Suture threads on Self-efficacy and Satisfaction of Scrub Person

Purpose
Other

Inclusion/Exclusion criteria
Inclusion criteria:
Participants in the project, including the scrub person in the intervention group, have received the necessary training to use the tool. The scrub person should work in the fields of general , vascular, neurological, orthopedic, pediatric, cosmetic, ENT and gynecology surgery. The scrub person should scrub in surgeries that have more than 3 surgical sutures on the operating table. The scrub person should use the method of organizing surgical sutures in at least 3 surgeries.
Exclusion criteria:
Lack of willingness of the surgical team to continue cooperation in research. Operating room personnel not be present in the operating room during the study for any reason, such as parental leave, etc. Using an other method except the routine method and except the tools of organizing surgical threads for maintaining and arranging surgical threads.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Data analyser

Sample size
Target sample size: **44**

Randomization (investigator's opinion)
Randomized

Randomization description
Prior to the intervention, 44 staff members of Al-Zahra Hospital operating room will enter the study according to their inclusion criteria. These 44 operating room staff will then be assigned random numbers 1 to 44, and they will be randomly assigned (even and odd numbers) in two intervention group (22 people) and control group(22 people). Accidental sampling is done by randomly assigning them to numbers 1 to 44 and placing them in two groups based on even and odd. The control group will use the routine method of organizing surgical sutures. The routine method of arranging surgical sutures is to place the surgical sutures after each use, on the surgical table or on a gas to arrange the surgical sutures and make them available.The intervention group will use the tools to arrange the surgical sutures.

Blinding (investigator's opinion)
Single blinded

Blinding description
The data analyzer is kept blind. After collecting the data in the intervention and control groups, the data was provided to the analyzer and he did not know the type of intervention and the randomization and placement of samples in the groups. .

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Isfahan University of Medical Sciences

Street address

Hezar Jerib Street

City

isfahan

Province

Isfahan

Postal code

۸۱۷۴۶۷۳۴۶۵

Approval date

2020-08-05, 1399/05/15

Ethics committee reference number

IR.MUI.RESEARCH.REC.1399.280

Health conditions studied

1

Description of health condition studied

The effect of using surgical instruments

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

In this study, self-efficacy is measured in two groups of operating room personnel in the role of scrub.

Timepoint

Before and after the intervention

Method of measurement

Researcher made a questionnaire

2

Description

In this study, Satisfaction is measured in two groups of operating room personnel in the role of scrub.

Timepoint

after the intervention

Method of measurement

Researcher made a questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The operating room staff is in the role of scrub who use the tools of organizing surgical sutures. After randomization, and placing the samples in the intervention and control groups, the intervention group will use the surgical suture arrangement tool. The test group will be taught how to use the tool. Before and after the intervention, the self-efficacy questionnaire was completed by the experimental group; A questionnaire of satisfaction with the method of arranging surgical sutures will be given to the experimental group after the intervention. Then the data entered by statistical software Spss version 16 will be analyzed using descriptive and analytical tests.

Category

Other

2

Description

Control group: The operating room staff is in the role of scrub who use the routine method to arrange the surgical sutures. The routine method involves holding the surgical sutures on a sterile gauze on the operating table or on the operating table. Before and after the intervention, the self-efficacy questionnaire is completed by the control group. A questionnaire of satisfaction with the method of arranging surgical sutures will be given to the control group after the intervention. Then the data entered by statistical software Spss version 16 will be analyzed using descriptive and analytical tests.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Ahmad Ghadami

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sofe street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

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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

Esfahan 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

Esfahan University of Medical Sciences

Full name of responsible person

Ahmad Ghadami

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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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

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

No - There is not 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

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available