

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Comparison of the effect of three antiseptic solutions: Betadine 7.5%, combination of alcohol70%-Betadine7.5% and Alprosept on reducing the bacterial agents of hands before surgery

#### Protocol summary

##### Summary

Objective: To determine the effect of three antiseptic solutions: Betadine 7.5%, combination of alcohol70%-Betadine7.5% and Alprosept on reducing the bacterial agents of hands before surgery Design: A randomized control trial without blinding Study population: Surgical staff of operating room department Setting and conduct: With block random allocation, samples will be included in three group: case 1 (Alprosept), case 2 (combination of alcohol70%-Betadine7.5%) and control (Betadine 7.5%). After washing and drying their hands with soap, sample will be provided on a medium containing normal saline by rubbing a sterile swab to first to third fingers and palms to determine the basic criteria. Then, each of the samples, separately, three times with an interval of 24 hours, each time accidentally will used from one of the solutions. After the scrub and dry hands before putting on gloves, sample will be provided and after cultivation, the number and types of colonies will be counted. Main inclusion criteria: At least one years' experience in the operating room in scrub role; avoiding the use of antibiotics in ten days before Main exclusion criteria: Allergy to used solutions Sample size: 30 person Interventions: Hand scrub with a solution Alprosept for group case 1, combination of alcohol 70%-Betadine7.5% for group case 2 and Betadine 7.5% for control group. Intervention time: Before surgery Outcomes of study: The number and types of colonies

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201603143064N4**  
Registration date: **2016-07-11, 1395/04/21**  
Registration timing: **prospective**

Last update:

Update count: **0**

##### Registration date

2016-07-11, 1395/04/21

##### Registrant information

###### Name

Hossein Bagheri

###### Name of organization / entity

Shahroud University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 23 3239 5054

###### Email address

bagheri@shmu.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Vice chancellor for research - Shahroud University of Medical Sciences

##### Expected recruitment start date

2016-08-22, 1395/06/01

##### Expected recruitment end date

2017-03-19, 1395/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the effect of three antiseptic solutions: Betadine 7.5%, combination of alcohol70%-Betadine7.5% and Alprosept on reducing the bacterial agents of hands before surgery

## Public title

Comparison of the effect of three antiseptic solutions: Betadine 7.5%, combination of alcohol70%-Betadine7.5% and Alprosept on reducing the bacterial agents of hands before surgery

## Purpose

Prevention

## Inclusion/Exclusion criteria

Main inclusion criteria: At least one years' experience in the operating room in scrub role; avoiding the use of antibiotics in ten days before Main exclusion criteria: Allergy to used solutions

## Age

No age limit

## Gender

Both

## Phase

2-3

## Groups that have been masked

*No information*

## Sample size

Target sample size: **30**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## 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 Shahroud University of Medical Sciences

##### Street address

Hafte-Tir Square, Shahroud University of Medical Sciences

##### City

Shahroud

##### Postal code

#### Approval date

2010-09-23, 1389/07/01

#### Ethics committee reference number

IR.SHMU.REC.1394.141

## Health conditions studied

### 1

#### Description of health condition studied

Disinfectant

#### ICD-10 code

T49.9

#### ICD-10 code description

Topical agent, unspecified

## Primary outcomes

### 1

#### Description

Bacterial agents of hand

#### Timepoint

Before surgery

#### Method of measurement

Blood agar and EMB culture

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Hand scrub with a solution Alprosept for group case 1

#### Category

Other

### 2

#### Description

Hand scrub with combination of alcohol 70%-Betadine7.5% for group case 2

#### Category

Other

### 3

#### Description

Hand scrub with Betadine 7.5% for control group

#### Category

Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Hossein (AS) Hospital

##### Full name of responsible person

Dr. Hossein Bagheri

##### Street address

End of touhidi 28 meters, Imam street

##### City

Shahroud

## 2

### Recruitment center

**Name of recruitment center**

Fatemiyeh Hospital of Shahroud

**Full name of responsible person**

Dr. Hossein Bagheri

**Street address**

22 Bahman street, Fatemiyeh Hospital

**City**

Shahroud

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Vice chancellor for research - Shahroud University of Medical Sciences

**Full name of responsible person**

Dr. Mohammad-Hassan Emamian

**Street address**

Hafte-Tir Square, Shahroud University of Medical Sciences

**City**

Shahroud

**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 - Shahroud 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**

Shahroud University of Medical Sciences

**Full name of responsible person**

Dr. Hossein Bagheri

**Position**

Ph.D in Nursing

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

Hafte-Tir Square, shahroud University of Medical Sciences anymore

**City**

Shahroud

**Postal code****Phone**

+98 23 3239 5054

**Fax****Email**

bagheri@shmu.ac.ir

**Web page address**

<http://pr.shmu.ac.ir/fa/nurs/7813m911o>

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Shahroud University of Medical Sciences

**Full name of responsible person**

Dr. Hossein Bagheri

**Position**

Ph.D in Nursing

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

Hafte-Tir Square, Shahroud University of Medical Sciences

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## Person responsible for updating data

### Contact

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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*