

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**

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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