

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Comparison effects of two methods preparation with Chlorhexidine and Povidone Iodine on colony count on hand surgery

Protocol summary

Summary

Aims: This study aimed to comparison the effects of Povidone Iodine and Chlorhexidine as detergent on bacterial colony count of skin hand under surgery in operation room . **Materials and methods:** This study is a clinical trial conducted on 64 patients hospitalized for hand surgery. The patients were selected by simple sampling method and were randomly assigned to two groups (study and control), 32 person in each group. The prep and drape was done on their hands. Including criteria were all men and women under hand surgery, and excluding criteria were wound and dermatitis on hand skin. Patients' data was collected, including demographic data and colony count. Independent variable was detergents, and primary outcome was colony counts.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015031121431N1**

Registration date: **2015-12-12, 1394/09/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-12-12, 1394/09/21

Registrant information

Name

Mahtab Aghakarimi

Name of organization / entity

Isfahan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Deputy of Research and Technology of Isfahan University of Medical Sciences

Expected recruitment start date

2014-02-20, 1392/12/01

Expected recruitment end date

2015-06-22, 1394/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison effects of two methods preparation with Chlorhexidine and Povidone Iodine on colony count on hand surgery

Public title

Comparison effects of two methods preparation with Chlorhexidine and Povidone Iodine on colony count

Purpose

Prevention

Inclusion/Exclusion criteria

Including criteria were all men and women under hand surgery, excluding criteria were wound and dermatitis on hand skin

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 32

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features

Chart number randomized

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Isfahan University of Medical Sciences

Street address

Isfahan University of Medical Sciences, Azadi Square, Hezar-Jerib Street, Isfahan.

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Postal code

81746-73461

Approval date

2013-07-28, 1392/05/06

Ethics committee reference number

292068

Health conditions studied**1****Description of health condition studied**

hand surgery

ICD-10 code

I

ICD-10 code description

B90-B94

Primary outcomes**1****Description**

The bacterial colony count

Timepoint

Before and after perop, and end of surgery

Method of measurement

counting of bacterial coloni

Secondary outcomes

empty

Intervention groups**1****Description**

prep of hand before surgery with Povidone Iodine and Chlorhexidine Name:chlorhexidin4%, material effect: chlorhexidin gluconate 2%and isopropyl70%

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Kashani Medical and Educational Center

Full name of responsible person

Mahtab Aghakarimi

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research of Isfahan University of Medical Sciences

Full name of responsible person

Dr Neamatbakhsh

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Isfahan

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 of Isfahan 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

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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