

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Clinical Trial of Comparison the Effect of Water and Soap and Disinfectant Solution (Hndrab) on Hands` infection of Nurses at Intensive Care Unit

Protocol summary

Summary

The aim of this study is comparison the effect of water and soap and disinfectant solution (Hndrab) on hands` infection of nurses at intensive care unit of 5azar tertiary hospital. Inclusion Criteria: Having work history (at least 1 year) at intensive care unit; Filing the informed consent form. Exclusion Criteria: No tendency to participate in the study after entering to the study; Reporting of skin problems by nurses. In this single blind crossover clinical trial study, 60 nurses working at intensive care unit will be assigned to two groups of 30 nurses by simple random allocation. In intervention group, hands will be washed with disinfectant solution (Hndrab) and sampling of personnel` hands will be done 2 times; 3 hours after initiating of shift and before washing hands with Hndrab and 5 minutes after washing hands with Hndrab. In control group, hands will be washed with water and soap and sampling will be done 2 times; 3 hours after initiating shift and before washing hands with water and soap and 5 minutes after washing hands with water and soap. Samples will be incubated for 24 hours. They will be cultured on Blood Agar and EMB and will be incubated for 24 hours. Then, they will be evaluated for growth, lack of growth and number of colonies of bacteria.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015050422080N1**

Registration date: **2015-07-24, 1394/05/02**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-07-24, 1394/05/02

Registrant information

Name

Soheila Samadzadeh

Name of organization / entity

Golestan University of Medical Sciences, Gorgan, Iran.

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Department of research & technology, Golestan University of Medical Sciences, Gorgan, Iran.

Expected recruitment start date

2015-04-06, 1394/01/17

Expected recruitment end date

2015-10-22, 1394/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Trial of Comparison the Effect of Water and Soap and Disinfectant Solution (Hndrab) on Hands` infection of Nurses at Intensive Care Unit

Public title

Effect of Water and Soap and Disinfectant Solution (Hndrab) on Hands` infection of Nurses

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria: Having Work History (at least 1 year) at Intensive Care; Filing the Informed Consent Form.

Exclusion Criteria: No Tendency to Participate in the Study after Entering to the Study; Reporting of Skin Problems by Nurses.

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Not 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

Golestan University of Medical Sciences, Gorgan, Iran.

Street address

Educational Campus of Golestan University of Medical Sciences, Shastkola Road, Gorgan, Iran.

City

Gorgan

Postal code

iran

Approval date

2015-03-15, 1393/12/24

Ethics committee reference number

3107869312244

Health conditions studied

empty

Primary outcomes

1

Description

Hand Infection

Timepoint

Before intervention, 5 minutes after intervention

Method of measurement

Culturing of samples on culture environment and

evaluation of incubated culture environment for growth, lack of growth and number of colonies of bacteria.

Secondary outcomes

1

Description

Bacteria

Timepoint

Before intervention, 5 minutes after intervention

Method of measurement

Differential tests and Gram stain

Intervention groups

1

Description

Intervention group: Washing hands with disinfectant solution (Hndrab), one time during a shift, at least 3 hours after shift initiation.

Category

Prevention

2

Description

Control group: Washing hands with water and soap, one time during a shift, at least 3 hours after shift initiation.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Clinical Research Development Unit (CRDU), 5 Azar Hospital, Golestan University of Medical Sciences,

Full name of responsible person

Soheila Samadzadeh

Street address

5 Azar Hospital, Gorgan, Iran.

City

Gorgan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Department of research & technology, Golestan University of Medical Sciences, Gorgan, Iran.

Full name of responsible person

Dr. Masoud Khoshnia

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Educational Campus of Golestan University of Medical Sciences, Shastkola Road, Gorgan, Iran.

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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
Department of research & technology, Golestan University of Medical Sciences, Gorgan, Iran.

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
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Position
Software Engineering

Other areas of specialty/work

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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