

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 Jul 2026

The efficacy of diagnosis and MRSA carriers therapy in the prevention of nosocomial infection in ICU department of 5th Azar Gorgan Hospital

Protocol summary

Summary

Purpose: the frequency of MRSA carriers before and after treatment in the ICU at 5th Azar Hospital, Gorgan, Iran. Design: during the first 3 months of infection caused by MRSA strains in the ICU of the hospital will be determined when all the cultures after 48 hours of hospitalization in the ICU occur. As the nosocomial infections are recorded. During this term the prevalence of methicillin resistance in Staphylococcus is determined using two methods and PCR sensitivity ceftazidime is evaluated and recorded. Three months after the end of the second stage begins. The first stage for all personnel the venice patients who from the date the part are imported. Staphylococcus aureus cultured from the nose to investigate if the person is a carrier and can be is treated with mupirocin or similar drugs. Staphylococcus aureus culture-positive All items registration for 6 months from the date of samples positive for methicillin resistance are examined. MRSA results in the comparable period of 3 months and checked by statistical tests to distinguish if whether this intervention to prevent could from incidence MRSA. Participants: personnel and patients admitted ICU ward. Intervention: mupirocin ointment. The main outcome variables: the bacteria Staphylococcus aureus, mupirocin, age, sex, type of infection, the site of infection.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014102519666N1**

Registration date: **2014-12-19, 1393/09/28**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-12-19, 1393/09/28

Registrant information

Name

Abolfazl Khandandel

Name of organization / entity

Gorgan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Golestan University of Medical Sciences, Research

Expected recruitment start date

2014-05-22, 1393/03/01

Expected recruitment end date

2014-08-22, 1393/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The efficacy of diagnosis and MRSA carriers therapy in the prevention of nosocomial infection in ICU department of 5th Azar Gorgan Hospital

Public title

Performance eradication of Staphylococcus aureus with mupirocin in nasal personnel ICU ward.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients suffering from hospital

infection with MRSA Staphylococcus aureus infection.
Exclusion criteria: patients with kidney disease; dialysis;
pregnancy and also sensitivity to drug.

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **240**

Randomization (investigator's opinion)

N/A

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Golestan University of Medical Sciences

Street address

Golestan University of Medical Sciences, 3rd km of
Sari- Gorgan Road

City

Gorgan

Postal code**Approval date**

2014-05-06, 1393/02/16

Ethics committee reference number

35/658049

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

Staphylococcus aureus infection

ICD-10 code

B95.6

ICD-10 code description

Staphylococcus aureus as the cause of diseases
classified to other chapters

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

Staphylococcus aureus

Timepoint

3 month before and 3 month after intervention.

Method of measurement

one coloni in culture & PCR

Secondary outcomes

empty

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

mupirocin pomade 2% in nasal 2 times in day for 5 days

Category

Treatment - Drugs

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

Gorgan 5th Azar Hospital

Full name of responsible person

Abolfazl KHandan del , MSc Microbiology

Street address

5th Azar Hospital

City

Gorgan

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

Vice Chancellor for Research and Technology,
Golestan University of Medical Sciences

Full name of responsible person

Dr. Masoud Khoshnia

Street address

Golestan University of Medical Sciences-research and
Technology

City

Gorgan

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 and Technology, Golestan
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

Golestan University of Medical Sciences

Full name of responsible person

Abolfazl Khandandel

Position

MSc in Microbiology

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