

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Aug 2026

Comparative Effectiveness of 8 percent Tea Tree oil Nasal Ointment and Mupirocin ointment for NASAL MRSA decolonizaion in hospitalized patients.

Protocol summary

Summary

Methicillin-resistant Staphylococcus aureus (MRSA) is a major cause of nosocomial infections word wide. Normally MRSA is present at health care centers and hospitals but in recent years have also occurred in community. On the other hand reports of MRSA resistant to other antibiotics lead us to compare the efficacy of antibiotics like Linezolid, Rifampin, Vancomycin, Gentamicin, Teicoplanin, Chloramphenicol, Mupirocin, Neomycin and Citrus essential oil , Satureja Khuzestanica extarct and Tea tree oil on 80 Nasal MRSA sample collected from hospitalized patient. After comparing the average diameter of inhibition zone, tea tree oil has great effect in inhibiting the growth of MRSA. According to the result of the first phase 8% Tea tree oil Nasal ointment prepared. To assess the effect of the Tea tree oil nasal ointment 50 patient with positive Nasal MRSA divided in two groups of 25. Group A are patient who are going on treatment with tea tree oil Nasal ointment and group B are patient who are going under treatment with Mupirocin 2 %. Both groups apply ointment 3 times a day for 5 day. All 50 patients monitored for Nasal MRSA by the end of day 5. Results in both groups were similar.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201603073106N29**
Registration date: **2017-04-21, 1396/02/01**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-04-21, 1396/02/01

Registrant information

Name

Farshad Hashemian

Name of organization / entity

Pharmaceutical Sciences Branch, Islamic Azad University (IAU)

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2016-01-21, 1394/11/01

Expected recruitment end date

2016-05-15, 1395/02/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative Effectiveness of 8 percent Tea Tree oil Nasal Ointment and Mupirocin ointment for NASAL MRSA decolonizaion in hospitalized patients.

Public title

Assesment of Tea Tree Oil Nasal ointment for eradication of NASAL MRSA

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: Patient with positive MRSA between 15 and 60 years old in khatam al anbia hospital
Exclusion criteria: children; pregnant women; severe systemic infection; patients receiving chemotherapy; chronic use of antibiotics; patient with sensitivity

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

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

Double blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Pharmaceutical Science Branch of Islamic Azad university

Street address

No.99, Yakhchal street, Dr. Shariati Avenue, Tehran, Iran

City

Tehran

Postal code**Approval date**

2015-12-22, 1394/10/01

Ethics committee reference number

IR.IAU.PS.REC.1394.2

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

Nasal Methicillin-Resistant Staphylococcus aureus infection

ICD-10 code

U80.1

ICD-10 code description

Bacterial agents resistant to antibiotics

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

Nasal bacterial cultures

Timepoint

Before intervention- after 5 day

Method of measurement

Nasal bacterial cultures

Secondary outcomes**1****Description**

Nasal irritation-Itchy nose-headache

Timepoint

Every day

Method of measurement

Question and answer

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

Intervention group: apply 8 percent Tea tree oil nasal ointment 3 times a day for 5 day

Category

Treatment - Drugs

2**Description**

Interventions: control group: apply Mupirocin 2 percent ointment 3 times a day for 5 days

Category

Treatment - Drugs

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

Tehran Khatamal Ol Anbia Hospital

Full name of responsible person

Targol sheibani

Street address

Khatam Ol Anbia Hospital, Rashid Yasemi Street, Above Mirdamad Blvd, Vali-Ye-Asr St, Tehran, Iran

City

Tehran

Sponsors / Funding sources**1****Sponsor**

Name of organization / entity

Pharmaceutical Science Branch of Islamic Azad
University

Full name of responsible person

Dr. Sepideh Arbabi Bidgoli

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No.99, Yakhchal street, Dr. Shariati Avenue, Tehran
,Iran

City

Tehran

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Pharmaceutical Science Branch of Islamic Azad
University

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

Pharmaceutical Science Branch of Islamic Azad
University

Full name of responsible person

Dr. Mehdi Rajabi

Position

Assistant professor, Head of Department

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