

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

A comparative study of the effects of Hypericum Perforatum and Dexpanthenol topical cream on the healing process of scar caused by neck surgeries

Protocol summary

Study aim

A comparative study of the effect of Hypericum Perforatum and Dexpanthenol topical cream on the healing process of scar caused by neck surgeries

Design

This a controlled, paralleled, double-blind, randomized, clinical trial on 48 patients. Randomization was done with SAS software version 9.

Settings and conduct

The study will be conducted in Amir al-Mominin Hospital in Rasht. The study will be conducted in two groups of intervention and control. The participant and the researcher will be blind.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Neck surgery After suture removal
Obtaining informed consent
Exclusion criteria: Previous sensitivity to products containing Hypericum Perforatum
Receiving other drugs effective on wound healing
Suffering from diseases that interfere with wound healing (chronic systemic diseases of the heart, kidney, lung, coagulation disorder, immune deficiency, connective tissue disorder, diabetes, anemia, hemophilia, and malnutrition)
Having a history of previous injury or surgery and visible lesions in the neck area

Intervention groups

After surgery and suture removal, the first group receives Hypericum Perforatum topical cream 3 times a day and the second group receives Dexpanthenol cream 3 times a day for three months. During three months, the patients will be visited weekly and the healing process of the wound will be measured.

Main outcome variables

In order to evaluate the healing process of the wound in this study, the SCAR scale was used: scar spread; erythema; dyspigmentation (includes hyperpigmentation and hypopigmentation); track marks or suture marks; hypertrophy/atrophy; overall impression and the

patient's pain and itching are the measured variables.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220516054879N6**

Registration date: **2023-07-03, 1402/04/12**

Registration timing: **registered_while_recruiting**

Last update: **2023-07-03, 1402/04/12**

Update count: **0**

Registration date

2023-07-03, 1402/04/12

Registrant information

Name

maryam shahrokhi

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-06-03, 1402/03/13

Expected recruitment end date

2023-10-05, 1402/07/13

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparative study of the effects of Hypericum Perforatum and Dexpanthenol topical cream on the healing process of scar caused by neck surgeries

Public title

The effects of Hypericum Perforatum and Dexpanthenol topical cream on the healing process of scar

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients with neck wounds caused by surgery After removing the stitches obtaining informed consent

Exclusion criteria:

Previous sensitivity to products containing Hypericum Perforatom Receiving other drugs effective on wound healing Suffering from diseases that interfere with wound healing (chronic systemic diseases of the heart, kidney, lung, coagulation disorder, immune deficiency, connective tissue disorder, diabetes, anemia, hemophilia, and malnutrition) Having a history of previous injury or surgery and visible lesions in the neck area

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **48**

Randomization (investigator's opinion)

Randomized

Randomization description

The 4 permutation block randomization method was used to randomize patients into two groups. Given that Group A is the intervention group and Group B is the control group. Randomization was done with SAS software version 9. For allocation concealment, opaque-sealed envelopes will be used.

Blinding (investigator's opinion)

Double blinded

Blinding description

This is a double-blind study. Comparison of color and smell between Hypericum and Dexpanthenol creams will be done using allowed color and essential oil. The type of treatment will be placed inside a sealed envelope and delivered to the nurse and statistical analyst. The researcher and the participant will be blind.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Guilan University of Medical Sciences

Street address

Deputy of research and technology, In front of 17 shahrivar hospital, Shaid siadati street, Namjoo street, Rasht

City

Rasht

Province

Guilan

Postal code

4193713111

Approval date

2023-05-03, 1402/02/13

Ethics committee reference number

IR.GUMS.REC.1402.058

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

Scar caused by neck surgery

ICD-10 code

L90.5

ICD-10 code description

Scar conditions and fibrosis of skin

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

Scar spread

Timepoint

Scar spread will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

2**Description**

Erythema

Timepoint

Erythema will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

3

Description

Dyspigmentation

Timepoint

Dyspigmentation will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

4

Description

Track marks or suture marks

Timepoint

Track marks or suture marks will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

5

Description

Hypertrophy/atrophy

Timepoint

Hypertrophy/atrophy will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

6

Description

Overall impression

Timepoint

Overall impression will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on the observation of the researcher

7

Description

Pain

Timepoint

Pain will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on questions from the patient

8

Description

Itch

Timepoint

Itch will be measured at the beginning of the study and then weekly for 3 months.

Method of measurement

Based on questions from the patient

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Receiving 3 times a day topical cream formulation of Hypericum perforatum plant with 70% ethanolic extract with 2% concentration of total extract for 3 months.

Category

Treatment - Drugs

2

Description

Control group: Receiving 3 times a day Dexpanthenol 5% topical cream from Raha Pharmaceutical Company for 3 months

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Amir al-Momenin Hospital

Full name of responsible person

Ali Faghieh Habibi

Street address

Amir- al Momenin Educational Remedial & Research Center, 17th Shahrivar Street, Dr. Heshmat Square, Imam Khomeini Street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Rasht University of Medical Sciences

Full name of responsible person

Mohammadreza Naghipour

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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

Rasht University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding*empty***Country of origin****Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

Rasht University of Medical Sciences

Full name of responsible person

Maryam Shahrokhi

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Medical Pharmacy

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Person responsible for updating data**Contact****Name of organization / entity**

Rasht University of Medical Sciences

Full name of responsible person

Fatemeh Naghibi

Position

Pharmacy Student

Latest degree

Medical doctor

Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Patient privacy and ethical principles

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The results of the study will be available to everyone, specific information will be available only to the treatment staff. To protect the patient's privacy, the patient's information will be protected by the researcher.

When the data will become available and for how long

There is currently no plan to publish the data, but if published, it will be 6 months after the results are published.

To whom data/document is available

Researchers working in this field, Otolaryngologists and scientists with qualifications

Under which criteria data/document could be used

Physicians and researchers will have the right to request, there are restrictions on patient privacy and medical ethics

From where data/document is obtainable

Dr. Maryam Shahrokhi, 17 Shahrivar Hospital, Rasht; Fatemeh Naghibi, School of Pharmacy guilan university of meical science

What processes are involved for a request to access data/document

Refer to the 17 Shahrivar Hospital in Rasht and sign the application form, then meet with the project researcher and review the client's request - consult with the Medical Ethics Committee, then provide documentation

Comments