

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of therapeutic efficacy of endo Radiofrequency in patients with axillary hidradenitis suppurativa

Protocol summary

Study aim

Evaluation of therapeutic efficacy of Endo Radiofrequency in patients with axillary hidradenitis suppurativa

Design

In this interventional study, 18 patients with hidradenitis suppurativa in the axilla are included in the study. The axillary hidradenitis suppurativa is treated with endo RF. The study is an observational comparison before and after treatment.

Settings and conduct

This study was performed on 18 patients with hidradenitis suppurativa of the axilla undergoing a session of treatment with endo-RF device, who entered the cysts with subsection cannula and with Power 90 and until the required heat by radio frequency (RF) waves. To destroy the cyst, it is transferred to the cyst and heated on the surface of the skin. This radiation continues and the cysts are destroyed. Patients' satisfaction, side effects and tolerability of treatment will be assessed by a questionnaire and the extent of improvement will be assessed by a physician using hidradenitis suppurativa grading scoring and photography with a camera, before treatment and 3 months after treatment.

Participants/Inclusion and exclusion criteria

Inclusion criteria: The diagnosis of hidradenitis suppurative is based on the diagnosis of a dermatologist, the absence of collagen and vascular patients, no pregnancy and lactation, patients' satisfaction with the study and age less than 65 years and more than 18 years. Exclusion criteria: the presence of lesions and skin diseases such as skin cancer, skin infections, pregnancy and lactation and patient dissatisfaction.

Intervention groups

In this study, the intervention is endo RF and the intervention group is people aged 18 to 65 years with hidradenitis suppurativa in the axilla who referred to the dermatology clinic of Hazrat Rasoul Akram Hospital.

Main outcome variables

Qualitative and quantitative severity of hidradenitis suppurative lesions

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20140624018210N12**

Registration date: **2022-04-23, 1401/02/03**

Registration timing: **retrospective**

Last update: **2022-04-23, 1401/02/03**

Update count: **0**

Registration date

2022-04-23, 1401/02/03

Registrant information

Name

Elham Behrangi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 21 6650 2040

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-03-30, 1401/01/10

Expected recruitment end date

2022-04-14, 1401/01/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Evaluation of therapeutic efficacy of endo
Radiofrequency in patients with axillary hidradenitis
suppurativa

Public title
Endo RF in axillary hydradenitis suppurativa

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Diagnosis of suppurative hydradenitis based on the
diagnosis of a dermatologist
Exclusion criteria:

Age
From **18 years** old to **65 years** old

Gender
Both

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **18**

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
Ethics Committee of Iran University of Medical
Sciences
Street address
Hazrat Rasoul Akram Hospital ., Maziar Mansoori
Street ., Sattar Khan Street ; Tehran; Iran
City
Tehran
Province
Tehran
Postal code
1445613131
Approval date

2022-03-19, 1400/12/28
Ethics committee reference number
R.IUMS.FMD.REC.1401.005

Health conditions studied

1

Description of health condition studied
Hidradenitis suppurativa
ICD-10 code
L73.2
ICD-10 code description
Hidradenitis suppurativa

Primary outcomes

1

Description
Qualitative severity of hidradenitis suppurativa
Timepoint
At the beginning of the study and three months later
Method of measurement
Photography and objective observation

Secondary outcomes

1

Description
hidradenitis suppurative severity score
Timepoint
At the beginning of the study and three months later
Method of measurement
based on *Hidradenitis Suppurativa Physician's Global
Assessment Scale*

Intervention groups

1

Description
This study will be performed as an interventional study
on 18 patients aged 18 to 65 years with hidradenitis
suppurativa of the axilla who referred to the dermatology
clinic of Hazrat Rasool Akram Hospital during 1401.
Hidradenitis suppurativa of the axilla undergoes a
session of endo RF (Aphrodite) treatment by entering the
cysts with a subduction cannula with an endo RF
(Aphrodite) device and with 90 Power and until the
required heat by radio frequency waves (RF) To destroy
the cyst, it is transferred to the cyst and heated on the
surface of the skin. This radiation continues and the
cysts are destroyed. In this study, the demographic and
clinical characteristics of the patient are assessed by a
questionnaire before starting treatment and patient
satisfaction, side effects and tolerability of the treatment
are assessed by a questionnaire 3 months after each
treatment session. hidradenitis suppurativa grading will
be done before each treatment session and 3 months

after each treatment session and photography with a normal camera, before each treatment session and 3 months after each treatment session.

Category

Treatment - Devices

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

Hazrat raasbol akram hospital

Full name of responsible person

Elham Behrangi

Street address

Hazrat raasbol akram hospital ; Maziar Mansoori street ; Sattar khan street; Tehran ; Iran

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

Iran University of Medical Sciences

Full name of responsible person

dr.Seyed Abbas Motevalian

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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

Iran 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**

Iran University of Medical Sciences

Full name of responsible person

Dr.Elham Behrangi

Position

Associate Professor

Latest degree

Specialist

Other areas of specialty/work

Dermatology

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

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Full name of responsible person

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Position

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Latest degree

Specialist

Other areas of specialty/work

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Email

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Not applicable