

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Comparison of Efficacy of Topical Anagain 4% Solution Versus Topical Minoxidil 5% Solution in Androgenetic Alopecia

Protocol summary

Study aim

This study aims to compare the efficacy of topical Anagain 4% versus topical Minoxidil 5% in the treatment of androgenetic alopecia.

Design

Community based, parallel group, single blinded, RCT

Settings and conduct

In this study 38 patient with moderate to severe AGA are enrolled after explaining thoroughly the course and purpose of study. Patients are randomly assigned one of the two groups, one receiving topical Anagain 4% and the other receiving topical Minoxidil 5% solution twice daily for 6 months.

Participants/Inclusion and exclusion criteria

Inclusion criteria A. Clinical diagnosis of AGA B. Age range of 18 - 55 years, C. Patients who haven't received topical or systemic treatments for AGA within 3 months prior to the study. D. Patient who gave consent for the study Exclusion criteria A. Those with other causes of hair loss such as fungal infection such as taenia capitis, inflammatory or scarring alopecia, hyper-androgenism or other hormonal disorders B. Hypersensitive to the medications C. A history of severe systemic disease (renal, cardiovascular hepatic and lungs). D. Pregnant or breastfeeding patients

Intervention groups

Intervention group 1: Patients in the first group will be treated with Topical Anagain 4% (1 cc twice daily).
Intervention group 2: Patients in the second group will receive topical Minoxidil 5% (1 cc twice daily) for 6 months.

Main outcome variables

Number of hairs, Change in photographic pictures and patient satisfaction score.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210823052264N11**

Registration date: **2024-09-29, 1403/07/08**

Registration timing: **registered_while_recruiting**

Last update: **2024-09-29, 1403/07/08**

Update count: **0**

Registration date

2024-09-29, 1403/07/08

Registrant information

Name

Najia Ahmed

Name of organization / entity

PNS shifa

Country

Pakistan

Phone

+92 81 2864092

Email address

najiaomer@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-07-01, 1403/04/11

Expected recruitment end date

2024-12-31, 1403/10/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Efficacy of Topical Anagain 4% Solution Versus Topical Minoxidil 5% Solution in Androgenetic Alopecia

Public title

Comparison of Efficacy of Topical Anagain 4% Solution Versus Topical Minoxidil 5% Solution in Androgenetic Alopecia

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Clinical diagnosis of AGA score 2-5 on Norwood-Hamilton Classification Age range of 18 - 55 years Patients who haven't received topical or systemic treatments for AGA within 3 months prior to the study. Patient who gave consent for the study.

Exclusion criteria:

Those with other causes of hair loss such as fungal infection such as taenia capitis, inflammatory or scarring alopecia, hyper-androgenism or other hormonal disorders Hypersensitive to the medications A history of severe systemic disease (renal, cardiovascular hepatic and lungs) Pregnant or breastfeeding patients

Age

From **18 years** old to **55 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Data analyser

Sample size

Target sample size: **92**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization done by lottery method in which chits were kept in a jar and patient will be asked to pick one deciding their treatment regimen as per interventional group 1 and 2

Blinding (investigator's opinion)

Double blinded

Blinding description

Researcher who is assessing the response is blind and the patients are blinded. Participant/patient picks up a chit from the jar and decides the treatment method as per interventional group 1 and 2

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Institutional Ethical Review Board (IERB) certificate - CMH Quetta

Street address

CMH Quetta

City

Quetta

Postal code

08762

Approval date

2024-08-30, 1403/06/09

Ethics committee reference number

CMH QTA-IERB/33/2024

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

Androgenetic Alopecia

ICD-10 code

L64.9

ICD-10 code description

Androgenic alopecia, unspecified

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

Total hair density and total number of vellus and terminal hairs

Timepoint

before start of study and after 1,2,3 and 6 months after start of study.

Method of measurement

Photographic pictures

2**Description**

Patient satisfaction score

Timepoint

After 6 months

Method of measurement

Questionnaire

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

Any side effect after applying minoxidil or anagain topically

Timepoint

1,2,3 and 6 months

Method of measurement

interviewing the patients and clinical examination

Intervention groups

1

Description

Intervention group: Participants will be given Topical Anagain 4% solution. They will be shown the correct method of application of the drug which they will apply twice daily on the scalp, 12 hours apart for 6 months.

Category

Treatment - Drugs

2

Description

Control group: Participants will be given Topical Minoxidil 5% solution. They will be shown the correct method of application of the drug which they will apply twice daily on the scalp, 12 hours apart for 6 months.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Combined Military Hospital Quetta

Full name of responsible person

Nosheen Abbas

Street address

CMH Quetta

City

Quetta

Postal code

08762

Phone

+92 335 0250058

Email

nausheenabbas1122@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Combined Military Hospital Quetta

Full name of responsible person

Nosheen Abbas

Street address

CMH Quetta

City

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Postal code

08762

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+92 335 0250058

Email

nausheenabbas1122@gmail.com

Grant name

CMH Quetta

Grant code / Reference number

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

Yes

Title of funding source

Combined Military Hospital Quetta

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

Combined Military Hospital Quetta

Full name of responsible person

Nosheen Abbas

Position

Registrar

Latest degree

Subspecialist

Other areas of specialty/work

Dermatology

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Email

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Combined Military Hospital Quetta

Full name of responsible person

Nosheen Abbas

Position

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Person responsible for updating data

Contact

Name of organization / entity
Combined Military Hospital Quetta
Full name of responsible person
Nosheen Abbas
Position
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Latest degree
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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

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