Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The comparison of the therapeutic effect of Desmopresin, Oxybutinin, and Imipramin in the treatment of nocturnal enuresis in children

Protocol summary

Summary

The aim of this study was to compare the therapeutic effects of Desmopresin, Oxybutinin, and Imipramin on primary nocturnal enuresis. In this randomized controlled trial, 150 children, aged 5-14 years, referred to pediatric clinic for nocturnal enuresis were assigned to receive Imipramin, Desmopressin, or Oxybutinin for 6 weeks. Response to the treatment (discontinuing enuresis) and side effects was assessed one, two, three, and four months after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138807042503N1**
Registration date: **2010-05-30, 1389/03/09**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-05-30, 1389/03/09

Registrant information

Name

Maryam Seyfhashemi

Name of organization / entity

Semnan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 1333 0108

Email address

m-seyf@sem-ums.ac.ir

Recruitment status

Recruitment complete

Funding source

Semnan University of Medical Sciences

Expected recruitment start date

2009-04-21, 1388/02/01

Expected recruitment end date

2010-04-20, 1389/01/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of the therapeutic effect of Desmopresin, Oxybutinin, and Imipramin in the treatment of nocturnal enuresis in children

Public title

The comparison of the therapeutic effect of Desmopresin, Oxybutinin, and Imipramin in the treatment of nocturnal enuresis in children

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age 5-14, presence of nocturnal enuresis, patient's and parents consent for treatment and follow up, no underlying diseases, not receiving any medicine for enuresis during 6 months prior to the study, failure to response to the other non pharmacological therapies Exclusion criteria: disagreement of parents or patients for treatment, developing any drugs side effects

Age

From **5 years** old to **14 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committee of Semnan University of Medical Sciences

Street address

Basij Blv,

City

Semnan

Postal code

Approval date

empty

Ethics committee reference number

A-2391

Health conditions studied

1

Description of health condition studied

Nucturia

ICD-10 code

F98.0

ICD-10 code description

Nonorganic enuresis

Primary outcomes

1

Description

Response rate (discontinuing enuresis)

Timepoint

1, 2, 3, and 4 months after intervention

Method of measurement

observation and interview and collecting data from questionnaires

Secondary outcomes

empty

Intervention groups

1

Description

Desmopressin, nasal spray, 1-2 puff every night for 6 weeks

Category

Treatment - Drugs

2

Description

Oxybutinin 5mg, po, at bedtime every night for 6 weeks

Category

Treatment - Drugs

3

Description

Imipramin, 10-20 mg, po, at bedtime every night for 6 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Semnan University of Medical Sciences, Amir al Momenin Hospital

Full name of responsible person

Street address

City

Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr Raheb Ghorbani

Street address

Basij Blv.

City

Semnan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Semnan 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

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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