

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jul 2026

Efficacy of topical formulation of Sildenafil10% in bed sore healing

Protocol summary

Tehran University of Medical Sciences

Summary

This study was designed to evaluate the efficacy of topical Sildenafil 10% in a double blind randomized placebo controlled trial on pressure sore healing. Hundred patients with grade 1 or 2 bed sore were assigned into two groups (50 each) to receive topical formulation of sildenafil 10% or placebo for 14 days. The grade of bed sore will be evaluated after 7 and 14 days. The results will be compared in these two groups to assess the possible effect of topical sildenafil 10% on bed sore healing.

Expected recruitment start date

2011-07-01, 1390/04/10

Expected recruitment end date

2012-07-01, 1391/04/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of topical formulation of Sildenafil10% in bed sore healing

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201105303449N6**

Registration date: **2011-06-03, 1390/03/13**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2011-06-03, 1390/03/13

Registrant information

Name

Hossein Khalili

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6695 4715

Email address

khalilih@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Public title

Efficacy of topical formulation of Sildenafil10% in bed sore healing

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Grade 1 or 2 bed sore diagnosed by the pharmacist according to The 2-digit Stirling scale

Exclusion criteria: pregnancy or lactation, hypersensitivity reaction to topical formulation, elevated ALT and/or AST to more than 3 times the upper limit of normal with clinical manifestations of liver failure or more than 5 times the upper limit of normal without clinical manifestations of liver failure, unwillingness for entering in the study or discontinuation of follow up

Age

To **139** years old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

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

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Pharmaceutical Science Research Center

Street addressPharmaceutical Sciences Research Center, Faculty of
Pharmacy, Tehran University of Medical Sciences,
Poursina Avenue**City**

Tehran

Postal code**Approval date**

2011-01-23, 1389/11/03

Ethics committee reference number

1389/3/3

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

Grade 1 or 2 bed sore

ICD-10 code

L89

ICD-10 code description

Decubitus ulcer (Pressure ulcer)

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

Grade of bed sore

Timepoint

7 and 14 days after topical formulation

Method of measurementevaluation of bed sore grade according to The 2-digit
Stirling scale by pharmacist**Secondary outcomes**

empty

Intervention groups**1****Description**Control: topical placebo formulation (base of formulation
without active ingredient of sildenafil) once daily for 14
days**Category**

Treatment - Drugs

2**Description**

Intervention: topical sildenafil 10% once daily for 14 days

Category

Treatment - Drugs

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

بیمارستان امام خمینی

Full name of responsible person**Street address****City**

تهران

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**Pharmaceutical Research Center, Tehran University of
Medical Sciences**Full name of responsible person**

Dr Mohammad Abollahi

Street addressTehran university of Medical Sciences, Enghelab Ave,
Tehran**City**

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding sourcePharmaceutical Research Center, Tehran 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

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Fax

Email

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Web page address

Person responsible for general inquiries

Contact

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Hossein Khalili

Position

Associate Professor

Other areas of specialty/work

Street address

Tehran University of Medical Sciences, Enghelab Ave,

City

Tehran

Postal code

1417614411

Phone

Person responsible for updating data

Contact

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