

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

Analysis of sesame effect on oxidative stress parameters of sperm analysis in infertility of men due to oxidative stress agents in Hamadan.

Protocol summary

Summary

In this study we compare the concentration of semen, sperm morphology, sperm motility, TAC, MDA, ROS and DNA Fragmentation before and after treatment. In this study, single-center to study the effect of sesame on oxidative stress parameters in men with infertility due to sperm analysis of oxidative stress in patients with a diagnosis of infertility in Hamedan city from January 94 to February 95 due to oxidative stress clinic Infertility come Fatemieh carried out. the number of patients studied 50 people who Sesame 30 grams daily for 3 months for them to be used. Exclusion criteria patients with azoospermia, absence of evidence of oxidative stress in semen, sesame seeds and a lack of sensitivity to the patient's consent to participate in the study or continue to participate in the study. 30 g of sesame is used for all patients. the amount of recovery based on comparison of the concentration of semen, sperm morphology, sperm motility, TAC, MDA, ROS and DNA Fragmentation is examined before and after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016020719885N2**

Registration date: **2016-05-12, 1395/02/23**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-05-12, 1395/02/23

Registrant information

Name

Hazhir Seifpanahi-Shabani

Name of organization / entity

Hamadan University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 0315

Email address

h.seifpanahi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research Hamadan University of Medical Sciences.

Expected recruitment start date

2015-12-22, 1394/10/01

Expected recruitment end date

2016-12-21, 1395/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Analysis of sesame effect on oxidative stress parameters of sperm analysis in infertility of men due to oxidative stress agents in Hamadan.

Public title

Sesame and Infertility of Men

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Infertile men who referred to infertility clinic of Fatemieh hospital with the evidence of oxidative stress in their semen fluid through TAC and MDA and ROS and DNA Fragmentation measured. Exclusion criteria: Azoospermia; absence of evidence of oxidative stress in semen; sensitivity to sesame seeds; lack of

patient consent for participation in the study or to continue participate in the study.

Age

No age limit

Gender

Male

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 50

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 Hamadan University of Medical Science

Street address

Shahid Fahmideh St, Vice Chancellor for Research
Hamadan University of Medical Sciences.

City

Hamadan

Postal code**Approval date**

2014-05-17, 1393/02/27

Ethics committee reference number

16/35/9/707/پ

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

Infertility

ICD-10 code

N46

ICD-10 code description

Male infertility

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

Oxidative stress

Timepoint

At the beginning of the study and three months after the study began

Method of measurement

Computer assisted sperm analysis & DNA fragmentation assay kit

Secondary outcomes

empty

Intervention groups**1****Description**

Daily consumption of 30 grams of sesame for 3 months

Category

Treatment - Drugs

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

Fatemieh Infertility Clinic

Full name of responsible person

Dr Mahnaz Yavangui

Street address

Fatemieh Medical Center, Street Kermanshah,
Hamadan.

City

Hamadan

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

Vice Chancellor for Research, Hamadan University of Medical Science.

Full name of responsible person

Mrs Yadollahzadeh

Street address

Shahid Fahmideh St, Vice Chancellor for Research
Hamadan University of Medical Sciences, Hamadan.

City

Hamadan

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

Yes

Title of funding source

Vice Chancellor for Research, Hamadan University of Medical Science.

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*

Fatemieh Medical Center, Kermanshah St, Hamadan.

City

Hamadan

Postal code**Phone**

+98 81 1828 3939

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m_yavangui@yahoo.com

Web page address**Person responsible for updating data****Person responsible for general inquiries****Contact****Name of organization / entity**

Student Research Center, University of Medical Sciences

Full name of responsible person

Hazhir Seifpanahi-shabani

Position

Medical Intern

Other areas of specialty/work**Street address**

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

Department of Obstetrics and Gynecology University of Medical Sciences

Full name of responsible person

Dr Mahnaz Yavangui

Position

Gynecologist, Fellowship of Infertility

Other areas of specialty/work**Street address****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*