

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Utilizing the Platelet Rich Plasma (PRP) method to improve sperm function and increase chances of fertility in Intrauterine Insemination (IUI) in patients

Protocol summary

Study aim

Confirmation the method of using PRP in improving sperm parameters and increasing fertility chances in IUI patients

Design

A clinical trial with a control group, with factorial groups, not blinded, was used on 200 patients to improve sperm function and fertility.

Settings and conduct

According to the studies conducted in this field on male infertile patients and IVF, for the first time a clinical trial on IUI patients will be conducted in the andrology department of Noble Laboratory of Isfahan.

Participants/Inclusion and exclusion criteria

Limitless

Intervention groups

The study has two intervention groups including: treatment group with (IUI) intrauterine insemination method and treatment group with intrauterine insemination+Platelet-rich plasma (IUI+PRP) method.

Main outcome variables

The effect of growth factors and platelets in (PRP) Platelet-rich plasma on reducing the amount of (ROS) Reactive oxygen species, increasing effective sperm motility and reducing sperm DNA Fragmentation in improving fertility and (IUI) intrauterine insemination results

General information

Reason for update

Acronym

PISFI

IRCT registration information

IRCT registration number: **IRCT20230314057714N1**

Registration date: **2023-03-26, 1402/01/06**

Registration timing: **prospective**

Last update: **2023-03-26, 1402/01/06**

Update count: **0**

Registration date

2023-03-26, 1402/01/06

Registrant information

Name

soraya savoj

Name of organization / entity

Nobel medical laboratory

Country

Iran (Islamic Republic of)

Phone

+98 31 3627 9670

Email address

svjalex@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-04-21, 1402/02/01

Expected recruitment end date

2023-08-23, 1402/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Utilizing the Platelet Rich Plasma (PRP) method to improve sperm function and increase chances of fertility in Intrauterine Insemination (IUI) in patients

Public title

Investigating the effect of PRP on increasing fertility in IUI patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

unlimited

Exclusion criteria:

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 200

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

-Nobel Laboratory

Street address

-Hakim Nizami Street, Shahid Falahpour Alley, No. 1,
Nobel Laboratory

City

-Isfahan

Province

Isfahan

Postal code

1111111111

Approval date

2024-03-18, 1402/12/28

Ethics committee reference number

-rec003

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N46

ICD-10 code description

Male infertility

Primary outcomes

1

Description

Fertility increase percentage

Timepoint

Sampling day

Method of measurement

Visual Analogue Scale

2

Description

Percentage of Sperm Motility

Timepoint

Sampling day

Method of measurement

Optical Microscope

Secondary outcomes

empty

Intervention groups

1

Description

Control group: 1 ml IUI Sample without 1 MI PRP

Category

Treatment - Other

2

Description

Intervention group: 1 ml IUI Sample with 1 MI PRP

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Nobel Medical Laboratory

Full name of responsible person

Dr Mohammad Reza Deemeh

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Web page address

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Nobel Laboratory

Full name of responsible person

Dr Ali Ajami

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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

Nobel Laboratory

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Other

Person responsible for general inquiries

Contact

Name of organization / entity

Nobel Laboratory

Full name of responsible person

soraya savoj

Position

Andrologist

Latest degree

Master

Other areas of specialty/work

Reproductive Health

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

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Position

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Latest degree

Bachelor

Other areas of specialty/work

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Person responsible for updating data

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Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Yes - There is 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

Yes - There is 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

No - There is not a plan to make this available

Title and more details about the data/document

Part of the data, such as information about the main outcome

When the data will become available and for how long

The access period starts 12 months after the results are published

To whom data/document is available

Doctors and researchers working in academic and scientific institutions

Under which criteria data/document could be used

In order to carry out studies and clinical treatments in the field of fertility, male infertility and IUI

From where data/document is obtainable

<http://www.nobellab.com> info@nobellab.com
009803132679670 Department of Andrology

What processes are involved for a request to access data/document

Coordination with Nobel Laboratory, Andrology
Department

Comments