

# 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

**Street address**

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**Web page address**

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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**

Hamid Rezaei Soreshjani

**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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<http://www.nobellab.com/>

## 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](mailto: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