

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Pregnancy outcome using general anesthesia versus spinal anesthesia for In Vitro Fertilization

Protocol summary

Summary

Objectives: to compare the effects of general anesthesia vs. spinal anesthesia on the outcome of fertilization in patients undergoing in vitro fertilization. Design: a randomized prospective clinical trial, during a 2 years period Setting and conduct: after taking informed written consent, 200 patients entered the study; 100 in each group. Participants including major eligibility: 200 female patients, women aged 20 to 40 years. There were a number of criteria for entering and exit the study which were mentioned as inclusion and exclusion criteria: The inclusion and exclusion criteria were as follows: elective surgery; informed written consent for performing anesthesia in the form of general or spinal; Exclusion criteria were: patient refusal for entering the study; lack of appropriate NPO time; any contraindication for performing spinal anesthesia including patient refusal for spinal anesthesia; spinal deformities; previous spinal surgery; pre-existing coagulopathy; platelet disorders; chronic pain syndromes; history of drug abuse; cardiovascular diseases; uncontrolled hypertension. Interventions: one group receiving spinal anesthesia and the other, receiving general anesthesia. Ovum retrieval protocols were the same. Main outcome measures: The success rate of fertilization was compared between the two groups. Nonparametric and parametric analysis was used for data analysis. P value less than 0.05 was considered significant.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138810192804N3**

Registration date: **2012-01-07, 1390/10/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-01-07, 1390/10/17

Registrant information

Name

Ali Dabbagh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2243 2572

Email address

alidabbagh@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tehran University of Medical Sciences

Expected recruitment start date

2009-01-01, 1387/10/12

Expected recruitment end date

2011-01-01, 1389/10/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Pregnancy outcome using general anesthesia versus spinal anesthesia for In Vitro Fertilization

Public title

Pregnancy outcome using general anesthesia versus spinal anesthesia for In Vitro Fertilization

Purpose

Treatment

Inclusion/Exclusion criteria

The inclusion and exclusion criteria were as follows:
elective surgery; informed written consent for performing anesthesia in the form of general or spinal; Exclusion criteria were: patient refusal for entering the study; lack of appropriate NPO time; any contraindication for performing spinal anesthesia including patient refusal for spinal anesthesia; spinal deformities; previous spinal surgery; pre-existing coagulopathy; platelet disorders; chronic pain syndromes; history of drug abuse; cardiovascular diseases; uncontrolled hypertension

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **200**

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

IRB ethics committee, Research Deputy, Tehran
University of Medical Sciences, Tehran, Iran

Street address

IRB ethics committee, Research Deputy, Tehran
University of Medical Sciences, Tehran, Iran

City

Tehran

Postal code

Approval date

2011-09-12, 1390/06/21

Ethics committee reference number

130/1200/90/ص

Health conditions studied

1

Description of health condition studied

IVF patients

ICD-10 code

N98.2

ICD-10 code description

Complications of attempted introduction of fertilized ovum following in vitro fertilization

Primary outcomes

1

Description

pregnancy success after using IVF for pregnancy

Timepoint

2 year

Method of measurement

beta-hCG test 2 weeks after IVF and sonographic evaluation 6 weeks after IVF

Secondary outcomes

empty

Intervention groups

1

Description

the anesthesia method was different between the two groups: in the first group, 100 patients received general anesthesia.

Category

Treatment - Other

2

Description

In the second group, 100 patients received spinal anesthesia.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

4th Alley, Nejatollahi St, Mirza Kuchak Khan Hospital,
Aff. to School of Medicine, Tehran University

Full name of responsible person

Ali Dabbagh

Street address

Cardiac Anesthesiology Dept. Sa'adat Abad,

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tehran University of Medical Sciences

Full name of responsible person

Dr Akbar Fotoohi

Street address

Ghods St. Keshavarz Blvd. Central Campus, Vice chancellor for research, Tehran University of Medical Sciences, Tehran, Iran

City

Tehran

Grant name

پایان نامه و بدون بودجه

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, 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

Person responsible for general inquiries

Contact

Name of organization / entity

Anesthesiology Research Center, Shahid Beheshti University of Medicine

Full name of responsible person

Ali Dabbagh

Position

Associate Professor, Fellowship in Cardiac Anesthesiology, Anesthesiology Research Center, Shahid Be

Other areas of specialty/work

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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

