Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effect of cervical mucus aspiration on clinical pregnancy rate before embryo transfer

Protocol summary

Summary

One of the most important steps in ART is embryo transfer. Cervical mucus can influence on implantation. Transfer technique is as effective as embryo quality. Also cervical mucus aspiration may induce better implantation but cervical irritation within aspiration can increase uterine contractions and decrease implantation. The aim of this study is evaluation of mucus aspiration on implantation rate and clinical pregnancy. Method: In a clinical trial 120 infertile women with male factor infertility were divided into two groups randomly. In one group, before embryo transfer cervical mucus aspiration were done by Mucat catheter. Pregnancy rate was determined with βhCG titer 12 days after transfer and compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201201168750N1**
Registration date: **2012-09-17, 1391/06/27**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-09-17, 1391/06/27

Registrant information

Name
Roya Kabodmehri
Name of organization / entity
Hamedan University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Hamedan University of Medical Sciences

Expected recruitment start date

2011-09-23, 1390/07/01

Expected recruitment end date

2012-08-22, 1391/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of cervical mucus aspiration on clinical pregnancy rate before embryo transfer

Public title

Effect of cervical mucus aspiration on clinical pregnancy rate before embryo transfer

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Infertile women with male factor Infertility. Exclusion criteria: Infertile women with women factor infertility.

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size
Target sample size: **120**
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
Hamedan university of medical sciences
Street address
Hamedan university of medical sciences, Shahid Fahmide Blvd
City
Hamedan
Postal code
Approval date
2011-10-03, 1390/07/11
Ethics committee reference number
2659/9/35/16/پ/د

Health conditions studied

1

Description of health condition studied
Male factor infertility
ICD-10 code
N46
ICD-10 code description
Azoospermia NOS Oligospermia NOS

Primary outcomes

1

Description
Clinical pregnancy
Timepoint
12 day after embryo transfer
Method of measurement
Measurement of Bhcg

Secondary outcomes

empty

Intervention groups

1

Description
Cervical mucus was aspirated in 60 patients before embryo transfer
Category
Other

2

Description
No intervention
Category
N/A

Recruitment centers

1

Recruitment center
Name of recruitment center
Infertility clinic
Full name of responsible person
Roya Kabodmehri
Street address
Fatemye hospital
City
Hamedan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
vice chancellor for research of Hamedan University of Medical Sciences
Full name of responsible person
Dr. Heydar Tavilani
Street address
Shahid Fahmideh
City
Hamedan
Grant name
4100000
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
vice chancellor for research of Hamedan 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

Hamedan university of Medical Sciences

Full name of responsible person

Dr. Heydar Tavilani

Position

Vice chancellor for research

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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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

Data Dictionary

empty