

Effect of endometrial injury on repeat implantation failure following in vitro fertilization embryo transfer or frozen embryo transfer

Submission date 11/01/2012	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 12/04/2012	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 12/04/2012	Condition category Pregnancy and Childbirth	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Prof Caihong Ma

Contact details
Reproductive Medical Center
Peking University Third Hospital
Beijing
China
100191

Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title

Effect of endometrial injury on repeat implantation failure following in vitro fertilization embryo transfer or frozen embryo transfer: a randomized controlled study

Study objectives

Patients with repeated implantation failure (RIF) have a higher implantation rate and pregnancy rate following in vitro fertilization embryo transfer (IVF-ET) or frozen embryo transfer (FET) after undergoing endometrial injury compared with patients without endometrial injury.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Peking University Third Hospital Ethics Committee, Beijing, China, 01 November 2011 ref: Shengzhi010

Study design

Prospective randomised controlled study

Primary study design

Interventional

Study type(s)

Screening

Health condition(s) or problem(s) studied

Infertility

Interventions

Endometrium scratching in fifth day after ovulation prior to an IVF or FET cycle in study group.
No extra administration prior to an IVF or FET cycle in control group

Control group: patients with RIF without endometrial injury before IVF-ET or FET.
Study group: patients with RIF undergoing endometrial injury before IVF-ET or FET.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

1. Implantation rate
2. Clinical pregnancy rate defined as the presence of a fetal sac by ultrasound scanning

Key secondary outcome(s)

1. Endometrial thickness
2. Endometrial type
3. Blood flow under endometrium

Completion date

31/12/2012

Eligibility

Key inclusion criteria

1. Patients with repeated implantation failure (three or more) undergoing in vitro fertilization embryo transfer (IVF-ET) or frozen embryo transfer (FET)
2. Patients with normal preoperative routine checks
3. Patients aged 40 years old or younger with basal follicle-stimulating hormone (FSH) <10 IU/L and numbers of follicles >5 in bilateral ovaries
4. Patients without history of uterine cavity operation in two months

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Female

Key exclusion criteria

1. Patients with hydrosalpinx
2. Patients with history of endometrium adhesion
3. Patients with uterine malformation
4. Patients with acute genital tract inflammation
5. Patients with history of using hormone such as oral contraceptive in three months

Date of first enrolment

05/11/2011

Date of final enrolment

31/12/2012

Locations

Countries of recruitment

China

Study participating centre

Reproductive Medical Center

Beijing

China

100191

Sponsor information

Organisation

Peking University Third Hospital (China)

ROR

<https://ror.org/04wwqze12>

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

Peking University Third Hospital, Beijing (China)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration