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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

Registration date
12/04/2012

Overall study status
Completed

Last Edited
12/04/2012

Condition category
Pregnancy and Childbirth

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

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

Primary study design
Interventional

Study design
Prospective randomised controlled study

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)<10IU/L and numbers of follicles>5 in hibateral 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