

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

<b>Submission date</b> 11/01/2012	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 12/04/2012	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 12/04/2012	<b>Condition category</b> 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)<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

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes