

# 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

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### Contact details

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China  
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## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

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

## Secondary study design

Randomised controlled trial

## Study setting(s)

Hospital

## Study type(s)

Screening

## Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

## 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 measure**

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

**Secondary outcome measures**

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

**Overall study start date**

05/11/2011

**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 hibaternal ovaries
4. Patients without history of uterine cavity operation in two months

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Female

**Target number of participants**

400

**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)

**Sponsor details**

48, Huayuan Bei Road

Haidian District

Beijing

China

100191

**Sponsor type**

Hospital/treatment centre

**Website**

<http://www.at0086.com/PUTH/>

**ROR**

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

## **Funder(s)**

**Funder type**

Hospital/treatment centre

**Funder Name**

Peking University Third Hospital, Beijing (China)

# Results and Publications

## Publication and dissemination plan

Not provided at time of registration

## Intention to publish date

## Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration