

# Application of Platelet-rich Plasma (PRP) in Reproductive Medicine

NCT06645379

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Status	RECRUITING
Phase	Not Applicable
Sponsor	The Fourth Affiliated Hospital of Zhejiang University School of Medicine
Enrollment	300 participants

## Key Eligibility Criteria

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### Inclusion (5)

- Premature ovarian insufficiency: ` Women aged  $\geq 18$  and  $< 40$  years old; a Oligomenorrhea or amenorrhea for more than 4 months (excluding pregnancy); b Basal follicle stimulating hormone (FSH)  $\geq 25$  IU/L (interval  $\geq 4$  weeks) at least 2 times, or total antral follicles (AFC)  $< 5$ , or anti-Müllerian hormone (AMH)  $< 1.1$  ng/mL.
- Poor ovarian response: ` Advanced age ( $\geq 40$  years) or other risk factors for poor ovarian response; a Poor ovarian response in previous IVF cycle, with  $\geq 3$  oocytes retrieved using conventional protocols; b Decreased ovarian reserve (antral follicle count  $< 5$  or anti-Müllerian hormone  $< 0.5$ – $1.1$  ug/L). Meeting any 2 of the above 3 criteria is sufficient.
- Intrauterine adhesion: ` Diagnosed by hysteroscopy and scored  $\geq 5$  points according to the American Fertility Society criteria (1988); a With symptoms such as reduced menstrual flow amenorrhea, periodic lower abdominal pain, infertility, or recurrent miscarriage; b Adult women with the desire to conceive.
- Thin endometrium: ` Endometrial thickness  $< 7$  mm on ovulation day or on the day of human chorionic gonadotropin (HCG) injection, or  $< 7$  mm on progesterone conversion day when using conventional hormone replacement therapy, a adult women with the desire to conceive.
- Repeated implantation failure: Women under 40 years old who have failed to achieve clinical pregnancy after transplanting at least three high-quality embryos within three fresh or frozen cycles. High-quality embryos include: Day 3 embryos (with  $\geq 8$  cells, evenly sized blastomeres, and  $< 10\%$  fragmentation) and blastocysts ( $\geq 3$ BB).

### Exclusion (8)

- Alanine aminotransferase  $\geq 3$  times the normal upper limit or estimated glomerular filtration rate (EGFR)  $< 90$  ml/min;
- Suffering from hemorrhagic diseases (such as hemophilia) or taking anticoagulant or antiplatelet drugs;
- Suffering from serious mental illness, cardiovascular and cerebrovascular diseases and malignant tumors;
- Suffering from diabetes with poor blood sugar control or other systemic diseases;
- Drug abuse, alcoholism or drug addiction;
- ... and 3 more (see full listing online)

## Locations (1 total)

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The Fourth Affiliated Hospital of Zhejiang University School of Medicine, Yiwu, Zhejiang, China