

Effect of stress inoculation training based on the WeChat platform on pregnant women with assisted reproduction

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| Submission date 21/03/2025 | Recruitment status No longer recruiting | <input type="checkbox"/> Prospectively registered |
| | | <input type="checkbox"/> Protocol |
| Registration date 27/03/2025 | Overall study status Completed | <input type="checkbox"/> Statistical analysis plan |
| | | <input type="checkbox"/> Results |
| Last Edited 26/03/2025 | Condition category Pregnancy and Childbirth | <input type="checkbox"/> Individual participant data |
| | | <input checked="" type="checkbox"/> Record updated in last year |

Plain English summary of protocol

Background and study aims

The aim of this study is to find out whether stress inoculation training (SIT) through the WeChat platform can effectively relieve the perinatal psychological pressure of pregnant women undergoing assisted reproduction.

Who can participate?

Pregnant women aged 18-35 years undergoing assisted reproduction (in vitro fertilization-embryo transfer [IVF-ET])

What does the study involve?

Participants are randomly divided into the control group and the experimental group. The control group was given routine nursing intervention and the experimental group was given SIT based on the WeChat platform.

What are the possible benefits and risks of participating?

SIT may relieve the perinatal psychological pressure of pregnant women with assisted reproduction, relieve the tension during delivery, increase the natural delivery rate and reduce the incidence of premature delivery.

Where is the study run from?

Suzhou Municipal Hospital (China)

When is the study starting and how long is it expected to run for?

September 2022 to October 2023

Who is funding the study?

1. Gusu School of Nanjing Medical University (China)
2. Suzhou Municipal Hospital (China)

Who is the main contact?
Jia Liu, fngsajia@126.com

Contact information

Type(s)

Public, Scientific, Principal Investigator

Contact name

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

Nil known

Study information

Scientific Title

Effect of stress inoculation training based on the WeChat platform on perinatal psychological stress and delivery outcome of pregnant women with assisted reproduction

Study objectives

Stress inoculation training (SIT) can effectively relieve the perinatal psychological pressure of pregnant women with assisted reproduction, relieve the tension during delivery, increase the natural delivery rate and reduce the incidence of premature delivery.

Ethics approval required

Ethics approval required

Ethics approval(s)

Approved 24/09/2022, The ethics committee of Suzhou Municipal Hospital (No. 26 Daoqian Street, Gusu District, Suzhou, 215002, China; +86 (0)51262362550; webmaster@smh.cc), ref: K-2022-103-H01

Study design

Single-center interventional double-blinded randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Efficacy

Participant information sheet

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

Health condition(s) or problem(s) studied

Perinatal psychological stress and delivery outcome of pregnant women with assisted reproduction

Interventions

110 pregnant women who have In Vitro Fertilization-Embryo Transfer (IVF-ET) will be randomly divided into a control group and an experimental group with 55 cases in each group. The control group will be given routine nursing intervention and the experimental group will be given SIT based on the WeChat platform.

Patients in the control group received routine early pregnancy health guidance and psychological screening. At 13 + 6 weeks of gestation, the control group filled in the demographic data questionnaire, including age, height, weight, residence during pregnancy, occupation, education, monthly family income, medical expenses, pregnancy history, etc.. After scanning the QR code, the Edinburgh postnatal depression scale (EPDS) and State-Trait Anxiety Inventory (STAI) were completed in the questionnaire star, and routine early pregnancy health guidance was given. At 24-27 + 6 weeks of gestation, patients attend school courses for pregnant women, including diet during pregnancy, self-monitoring of fetal movement, pregnancy activities and weight management, and distribute health education materials. At 28-37 weeks of gestation, patients attend the simulated delivery training courses, regular pre-delivery guidance. At 32 weeks and 37 weeks of gestation, one-to-one perinatal consultation and guidance were conducted in the midwife clinic. After 37 weeks of pregnancy, the psychological stress of the control group was assessed again, and the EPDS and STAI questionnaires were completed in the questionnaire star. In addition to routine early pregnancy health guidance and psychological screening, patients in the intervention group were given SIT.

Intervention Type

Behavioural

Primary outcome measure

Psychological stress is measured using the WeChat version of the psychological questionnaire before and after the study

Secondary outcome measures

The rate of natural delivery is measured using the delivery records in the hospital before and after the study

Overall study start date

24/09/2022

Completion date

01/10/2023

Eligibility**Key inclusion criteria**

1. Age ≥ 18 years
2. Infertility patients who had undergone IVF-ET and successfully conceived
3. Permanent residents in the area surveyed
4. Regular antenatal examination, cooperation with training and completion of questionnaire survey
5. Voluntary participation, and signed the informed consent
6. Individuals who can fully understand or accurately answer the questionnaire questions

Participant type(s)

Other

Age group

Adult

Lower age limit

18 Years

Upper age limit

35 Years

Sex

Female

Target number of participants

120

Total final enrolment

110

Key exclusion criteria

1. Patients with severe depression and anxiety
2. Patients with severe basic diseases such as heart, lung and immunity
3. Patients with mental retardation
4. Patients with mental retardation, failure to cooperate and complete all investigations

Date of first enrolment

25/09/2022

Date of final enrolment

30/09/2022

Locations**Countries of recruitment**

China

Study participating centre

Suzhou Municipal Hospital

No. 26 Daoqian Street

Gusu District

Suzhou

China

215002

Sponsor information**Organisation**

Suzhou Municipal Hospital

Sponsor details

No. 26 Daoqian Street

Gusu District

Suzhou

China

215002

+86 (0)51262362550

webmaster@smh.cc

Sponsor type

Hospital/treatment centre

Website

<http://smh.cc>

ROR

<https://ror.org/02cdyrc89>

Funder(s)

Funder type

University/education

Funder Name

Gusu School of Nanjing Medical University

Funder Name

Suzhou Municipal Hospital

Results and Publications

Publication and dissemination plan

Planned publication in a peer-reviewed journal

Intention to publish date

30/06/2025

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are not expected to be made available due to ethical restrictions.

IPD sharing plan summary

Not expected to be made available