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Effects of *Jiantai Liquid* on the Expressions of Uterine Inflammatory Cytokines in Mice With Embryo Implantation Dysfunction

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ABSTRACT Objective To study the possible molecular mechanism of *Jiantai Liquid* in improving the implantation environment in the endometrium. **Methods** Totally 90 pregnant mice were randomized into the normal group, model group and *Jiantai Liquid* group, with 30 in each. The embryo implantation dysfunctional (EID) models were established with indomethacin in the model group and *Jiantai Liquid* group. The *Jiantai Liquid* group was gavaged with *Jiantai Liquid* from the 1st day of pregnancy. The model group and normal group were gavaged with the same amount of normal saline. The levels of interleukin-1 β (IL-1 β), IL-1 receptor type I (IL-1RI), IL-6, leukemia inhibitory factor (LIF) and colony stimulating factor-1 (CSF-1) mRNA were detected on the 5th day of pregnancy. The embryonic development was observed, and the numbers and site numbers of embryo implantation were recorded on the 8th day of pregnancy. **Results** Comparing with the normal group, the numbers and site numbers of embryo implantation were significantly decreased in the *Jiantai Liquid* group and model group ($P < 0.01$). Comparing with the model group, the numbers and site numbers of embryo implantation were significantly increased in the *Jiantai Liquid* group ($P < 0.05$). Comparing with the normal group, the contents of IL-1 β , IL-1RI, IL-6, LIF and CSF-1 mRNA were significantly increased in the model group ($P < 0.01$). Comparing with the model group, the contents of IL-1 β , IL-1RI, IL-6, LIF and CSF-1 mRNA were significantly decreased in the *Jiantai Liquid* group ($P < 0.01$). **Conclusion** *Jiantai Liquid* can improve endometrial microenvironment and promote implantation by deregulating the expressions of IL-1 β , IL-1RI, IL-6, LIF and CSF-1 mRNA.

Keywords *Jiantai Liquid*; endometrial; embryo implantation; inflammatory cytokines

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