Expression of adhesion molecules, CD molecules and immune antibody in endometrial tissue of unexplained infertility patients

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To study the expression of adhesion molecules, CD molecules and immune antibody in endometrial tissue of unexplained infertility patients. Methods: A total of 120 cases of unexplained infertility admitted from 2013 January to 2014 September were enrolled as observation group, 120 cases of healthy women received examination in our hospital during the same period were enrolled in control group. Then expression of adhesion molecules, CD molecules and immune antibody in endometrial tissue were detected. Results: mRNA and protein content of E-cadherin, ICAM-1 and Integrin in uterine endometrial tissue of observation group were significantly lower than those of control group ($P<0.05$). mRNA and protein content of CD68 in uterine endometrial tissue of observation group were significantly higher than that of control group ($P<0.05$); mRNA and protein content of CD163, CD4+CD25+FoxP3 were significantly lower than those of control group ($P<0.05$). AsAb, Em-Ab, ACAb, hCGAb, AoAb content in uterine endometrial tissue of observation group were significantly higher than those of control group ($P<0.05$). Conclusion: Low expression of adhesion molecule, disorder expression of CD molecular and high expression of autoantibodies in uterine endometrial tissue of unexplained infertility patients are correlated with female sterility.

[KEY WORDS] Unexplained infertility; Adhesion molecule; Autoantibody; Helper T cell; Regulatory T cells