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CYTOKINE PATTERN OF TH1 AND TH2 CELLS IN PREGNANCY

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Abstract:

Experimental and clinical investigations indicate that antibody production and T_H1/T_H2 cytokine pattern, CD4⁺ T_H1/T_H2 ratio, IL-1, IL-10 (JLJ, IL1D) are dominant during pregnancy. The T_H1/T_H2 cells activities decrease in pregnancy. Thus the cell-mediated immunity is partially depressed. All these events help fetus as an allograft survives in the mother's womb. In this research we measured T_H1/T_H2 cytokines in the sera of healthy pregnant and IUGR-pregnant women (IL-1, IL-10, interferon-gamma; IFN-γ). Pregnant women showed a decrease in mean serum level of IL-2 and IFN-γ. This means depression of cell-mediated immunity. This finding explains increased incidence of some of the immunologic infections and fetal survival of the fetus during pregnancy.

Keywords:

T-Helper cell . interleukin

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