

عنوان مقاله:

Evaluation of peripheral blood NK cell subsets and cytokines in unexplained recurrent miscarriage

محل انتشار:

پانزدهمین کنگره بین المللی زنان و مامایی ایران (سال: 1398)

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خلاصه مقاله:

Background: Recurrent miscarriage is considered as one of the main problems in women s reproductive health. The aim of the present study was to evaluate the NK cell subsets and cytokines in unexplained recurrent miscarriage and fertile women. **Material and Method:** In this case-control study, 40 women with unexplained recurrent miscarriage were assigned to the case group and 40 nonpregnant women were assigned to the control group. NK cell subsets (CD56+ CD16+ / CD56+ CD16-) and cytokines (IL-2 / IL-12) levels in the peripheral blood (PB) were used for assessing immunologic problems. The percentage of peripheral blood NK cells (CD56dim/bright) was identified by flow cytometry. **Results:** The obtained results showed a significant difference in CD56+ CD16+ and CD56+ CD16- between the two groups. Also, IL-2 and IL-12 values were higher in the group with recurrent miscarriage. A cut-off value of $\geq 5.25\%$ ($P < 0.001$) and $\geq 3.4\%$ ($P < 0.015$) for the increased percentage of CD56+ CD16+ and CD56+ CD16-cells in the PB become to be Predictive of recurrent miscarriage. **Conclusion:** Increased NK cells and cytokines in the PB of women with recurrent miscarriage strongly establish prospective researches to recognize the predictive value of these parameters in the evaluation of patients with recurrent miscarriage

کلمات کلیدی:

Natural killer cells; Cytokines; Peripheral blood; Recurrent miscarriage

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