

# Functional Investigation of Granulated Lymphocytes in Human Decidua

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## Abstract

**Introduction:** Leucocytes accounted for 26-36% of the stromal cells in decidua of the first trimester of gestation in which 75% of them is related to endometrial granulated lymphocytes (eGL) with an unusual natural killer (NK) cell-like phenotype. Different roles are proposed for eGL, but fundamental role of these cells in control for normrly understood.

**Material and Methods:** In this study immunosuppressive activity of supernatants prepared from ten sample of normal first trimester decidua which cultured into cell suspension and corresponding purified eGL were investigated using. PHA-induced lymphoproliferation assay.

**Results:** The results showed that although supernatants from purified 24 hours eGL at 50% concentration tended to show increased immunosuppressive activity compared with the corresponding unfractionated cell suspension supernatants, the results did not reach significance..

**Conclusion:** It seems eGL can mediate immunosuppression activeity in human uterus, but whether this activity is crucial for survival of feto-placental unit real pregnancy is not cleare. more investigation in pathological pregnancy.

**Key Words:** granulated lymphocyte, decidua, immunosuppression.

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