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Correlation of Progesterone Induced Blocking Factor and Neutrophil-Lymphocyte Ratio in Preterm and Term Delivery

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Abstract: Objective:This study aimed to determine difference of Progesterone Induced Blocking Factor, Neutrophil-Lymphocyte Ratio levels between preterm and term labor, and also to examine correlation between PIBF and NLR in preterm and term labor women. **Methods:** This is a comparative analytical study with cross-sectional design. Subjects were divided into two groups consisting of 33 persons per group. Data was analyzed with Independent T-test and Mann-Whitney test. Correlation between two variables was measured with Pearson correlation calculation. **Results:** Mean levels of PIBF waslower inpreterm labor (973.18 \pm 290.91 ng/ml) compared to term labor (3338.06 \pm 2165.89 ng/ml) (p = 0.000 <0.005). Average NLR was greater in preterm labor (12.62 \pm 6.44) than term labor (5.17 \pm 1.64) with significant differences. Correlation value (Pearson) between PIBF and NLR in preterm labor was weakly negative (-0.543), whereas correlation between PIBF and NLR in term labor was lower than term labor. Average of NLR in preterm labor was greater than term labor. There was a negative correlation between serum levels of PIBF and NLR in preterm labor andthere was no correlation between serum levels of PIBF and NLR in preterm labor andthere was no correlation between serum levels of PIBF and NLR in term labor.

Keywords: Preterm labor, PIBF, NLR.

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