

EP242 / #1124**E-Poster Viewing - Neonatology AS02-15.
Infectious diseases****Markers of inflammatory response in infants with
intrauterine infection from mothers with
identified torch infection**

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BACKGROUND AND AIM

Background: Intrauterin Infection (IUI) leads to various disorders, including organ defects, the development of severe infectious inflammation.

The aim: To investigate the status of inflammatory response markers in infant organism with identified IUI born to mothers diagnosed with TORCH infection.

METHODS

The study group included: infants diagnosed with IUI (n = 40), born to mothers with the diagnosis of TORCH infection and a control group (n = 25). The average weight of newborns was 1877.69 ± 981.78 g. Gestational age: 32.25 ± 5.15 weeks. Cytokine profile, γ -IFN, TNF- α , PgE2, Neopterin, Procalcitonin were studied.

RESULTS

The values of the parameters of the Cytokine profile (IL-1, IL-6, IL-8, IL-10) varied in reference values, but with significant differences with the values of the control group, which were 1,2;4;10; 6 times, respectively. The levels of

inflammatory mediators (γ -IFN Procalcitonin, Neopterin, TNF- α Pg E2) differed significantly from the data of the control group of infants and exceeded the upper limit of the reference values by 1,3; 3; 25; 4 times, respectively.

CONCLUSIONS

According to the correlation analysis, there are positive correlations: IL 1 and Procalcitonin ($r = 0.33$); IL 6 and IL10 ($r = 0.44$); IL 10 and ProstaglandinE2 ($r = 0.44$); Neopterin and ProstaglandinE2 ($r = 0.39$), which indicates synergism in the performance of biologically active processes. Negative correlations were observed: IL 1 and infants Gestational age($r = -0.36$); IL 6 and IL 8 ($r = -0.34$); γ -IFN and TNF- α ($r = -0.43$). which indicates the diversity in the inflammatory response