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theoretical medicine»***

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***«Actual Problems Of Clinical And
Theoretical Medicine»***



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CYTOKINE PROFILE AS DIAGNOSTIC CRITERION IN PERINATOLOGY

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Actuality: In accordance with the statistical study carried out by Ginsburg in 2010, early perinatal mortality in Ukraine is about 3 cases per 1,000 live births. This is in great part due to the infectious complications in children arising because of intrauterine infection (IUI) of mother. Early detection of IUI is not always possible due to the nonspecific symptom.

Chronic persistent infection contributes to the maintenance of permanent high levels of innate immunity factors due to the effect on the cell Toll-receptor system. Receptor activation leads to the cytokine release and implementation of inflammatory response. Presumably, the levels of pro- and anti-inflammatory cytokines may allow predicting the implementation of infectious complications in the children who are born to mothers with IUI.

Aim: Determination of the criteria for the diagnostic of early neonatal complications based on a study of pro- and anti-inflammatory cytokines in the blood serum and the contents of the posterior vaginal fornix (PVF) of pregnant women with IUI.

Materials and Methods: The study included 24 pregnant women, who were divided into 2 groups. The first group (basic) included 14 women with realization of IUI in the newborn in early neonatal period, the second (control) - 10 patients without the implementation of IUI in newborns. The content of cytokines IL-1 β , TNF α , IL-6, IL-8, IL-10 were examined. Women age ranged from 22 to 39 years and was averaged 31.0 \pm 0.5 and 28.0 \pm 0.5 years, respectively. In analyzing the structure of extragenital diseases of mothers there was a significant increase in the incidence of chronic diseases of upper respiratory tract (32.3%), chronic kidney disease (25.1%), cystitis (30.2%), $p < 0.05$. In the basic group, the opportunistic vulvovaginal infection (43.5%), carriage of herpes simplex virus (42.1%), candidiasis (35%), ureaplasma (36.4%), $p < 0.05$, were more common.

In the quantitative study of pro-inflammatory cytokines in pregnant women who gave birth to children with IUI, there was a significant increase in the serum levels of IL-8 (16.73 \pm 1.7 pg/ml, $p = 0.021$) and IL-6 (38.4 \pm 3.5 pg/ml, $p = 0.032$). The contents of the PVF had



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elevated cytokine levels of IL-6 (89.41 ± 6.5 g/g) and IL-1 β (157.2 ± 13.4 g/g), $p < 0.05$. Anti-inflammatory IL-10 in the serum of pregnant women was reduced 6 times compared to the control group, average was 3.99 ± 2.2 pg/ml, $p = 0.011$).

Conclusions: In result of examination of pregnant women with IUI implementation in neonates it has been shown an decrease of

anti-inflammatory cytokine IL-10 and increase of pro-inflammatory cytokines IL-6, IL-8 at the systemic level as well as an increase of pro-inflammatory cytokines IL-1 β , IL-6 at the periphery. Based on these data it is possible to develop diagnostic criteria, the use of which will reduce the risk of infectious complications in newborns.

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CLINICAL AND ETIOLOGIC CHARACTERISTICS OF ABNORMAL UTERINE BLEEDINGS IN ADOLESCENT GIRLS

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Actuality: Abnormal uterine bleedings of puberty (AUBP) are one of the most severe gynecological diseases in adolescents constituting 20-30% of all gynecological diseases in this age group. Issues of diagnosis, treatment and rehabilitation of patients with AUBP remain relevant, since recurrence worsens prognosis regarding reproductive function in these patients, which is still an important social and economic problem.

The aim of our study was to evaluate clinical and etiological features of the development and

presentation of new abnormal uterine bleedings in adolescents.

Materials and methods: Assessment of medical records of 11-17-year-old adolescents with AUBP for the years 2014-2015 was performed at the Department of Obstetrics, Gynecology and Children Gynecology (Regional Children Clinical Hospital No.1 and Kharkiv Maternity Hospital No.1).

Results: The study of medical records showed that 70% of patients developed AUBP at the age of 14-16 years, the majority of patients (77.5%) had new-onset bleedings and 22.5% of adolescents suffered



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