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PERINATAL OUTCOMES IN ACUTE RESPIRATORY VIRAL INFECTION IN PREGNANT WOMEN

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Received 20th Nov 2023, Accepted 28th Dec 2023, Online 30th Jan 2024 **Annotation:** Respiratory viral infections in the process of human civilization manifested themselves through various viral infections. In the XXI century, COVID-19 became a global problem in the history of mankind, and the causative agent of which was the SARs-CoV-2 virus and was the cause of a pandemic around the world, and today this virus has turned into a seasonally aggravated respiratory viral infection. This virus can also cause serious health problems during pregnancy. Unlike the general population, pregnant women constitute a special group with a significantly higher risk of viral infection as a unique "immunological" condition and a change in the function of all organs and systems during pregnancy, in this regard, the study of the functional state of the motherplacenta-fetus system in pregnant women, the course of pregnancy, complications and perinatal outcomes, as well as the condition of newborns in women who have suffered viral infections remains a modern requirement from a scientific and practical point of view.

Keywords: Respiratory viral infections; pregnancy newborns; coronavirus infection; perinatal outcomes.

Relevance.

Numerous studies on the effect of respiratory viruses on the human body have shown that this infection selectively affects the vascular endothelium, causing vasculitis in many organs and systems [4, 5]. From these proofs, it is assumed that systemic vascular endothelial damage can lead to impaired placental formation, the development of placental oxidative stress and a variety of complications of pregnancy and in newborns [1, 3, 9].

At the end of 2019, a new type of respiratory virus was discovered and identified, causing a

cluster of pneumonia cases. The virus spread rapidly, and in February 2020, WHO designated this disease as COVID-19, i.e. coronavirus disease of 2019 [2, 7].

Large-scale studies are being conducted all over the world aimed at studying the effect of respiratory viral infections on the state of the mother-placenta-fetus system in pregnant women [3, 9, 10]. In this regard, the priority area of scientific research remains the study of the function of the vessels of the uteroplacental complex, the state of the vascular endothelium and the morphology of the placenta, as well as the assessment of the condition of newborns

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after childbirth, in women infected with acute respiratory viral infection (COVID-19) during pregnancy.

Research materials and methods. The study was conducted in a Specialized maternity center for pregnant women with Covid-19 in the Samarkand region, morphological studies were conducted in a Multidisciplinary clinic of the Samarkand State Medical University. We examined 86 pregnant women, aged 20 to 35 years, who had been ill with Covid-19 in the II (40) and III (46) trimesters of pregnancy.

The research methods were general clinical and obstetric examinations, ultrasonographic and Doplerographic examination of pregnant women and newborn examination.

The results obtained and their discussion. In general, the majority of pregnancies ended with urgent delivery 49 (57%) and through the natural birth canal 40 (46.5%). Premature birth due to obstetric. According to the WHO definition, the rate of premature birth before 37 weeks of gestation is up to 10% (WHO, 2018). In our study, premature birth occurred 2.1 times more often in those affected by Covid-19. In this regard, each pregnant patient should be individualized, taking into account the obstetric situation and the state of the mother-placenta-fetus system.

In every fifth (19.8%) patient, amniotic fluid contained admixture an of meconium. Progressive fetal hypoxia (unsatisfactory/inconclusive fetal condition) was observed in 11 (12.8%) cases. Cesarean section delivery occurred in 46 (53.5%) women according to obstetric indications: acute and progressive fetal hypoxia (unsatisfactory/inconclusive fetal condition) -13 (15%) cases, labor anomalies and uterine scar - 12 (13.9%), PPRP - 4 (4.7%), pelvic presentation of the fetus -3 (3.5%). Indications for COP in connection with the severe condition of the mother were carried out in 14 (16.3%) women.

The analysis of the course of labor in two groups showed the following. In patients who underwent Covid-19 in the second trimester of

pregnancy, childbirth occurred on average at 35.3±3.9 weeks, while complications occurred in 3 (7.5%). Patients who had a coronavirus infection in the third trimester of pregnancy were delivered later in pregnancy, on average at 36.2±4.8 weeks, complications occurred in 10 (21.7%) women.

In the structure of indications for surgical delivery, the inconclusive condition of the fetus was in group 1 - 5 (12.5%), in group 2 - 7 (15.2%) cases.

In total, 86 newborns were born, 51 of them full-term, 1 newborn was with signs of postponement and 34 newborns were born with signs of prematurity. Of these, in 9 cases, childbirth occurred at 24-28 weeks gestation and the newborns showed signs of severe prematurity. Due to prematurity and severe condition of newborns at birth, perinatal mortality was 5.8% (5 cases, 58%).

The average birth weight of newborns in the 1st group was 2800.0±250.0; in the 1st group - 2950.0±330.0. The assessment of the condition of newborns on the Apgar scale averaged 3-4 points in 11 (12.8%) newborns, 5-6 points in 23 (26.7%) newborns and the remaining 52 (60.5%) newborns were born in satisfactory condition and the Apgar score was 7-8 points or higher.

Conclusions. Given that Covid-19 is a viral respiratory infection that has caused an ongoing pandemic, it is important understand its impact on women in labor and their newborns [3, 5, 6]. Moreover, two other known human coronaviruses (SARS-CoV and MERS-CoV) have been associated with adverse clinical outcomes, including lifethreatening maternal disease, mortality (in a small but significant number of cases), delayed fetal development, premature birth, hospitalization of women and newborns the intensive care unit, spontaneous abortions and perinatal death [1, 4, 8].

Analysis of the study results shows that patients with viral infections have a frequency of premature childbirth and the need for surgical delivery are higher than in the

population. In our study, perinatal mortality was 5.8%. To improve perinatal outcomes and the risks of additional complications in newborns and pregnant women with respiratory viral infections, it is necessary to prescribe drugs to improve blood flow in the mother-placenta-fetus system.

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