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PATHOMORPHOLOGICAL CHARACTERISTICS OF COVID-19

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Introduction. It is known that the role of the placenta in physiological and pathological pregnancy is unique and connects the fetus and the mother's organism together. As a result of the placenta's inappropriate development during the period of pregnancy or, on the contrary, its function is disturbed under the influence of various factors, it leads to a significant change in the development of the fetus. In 85-90% of cases, infertility is caused by placental insufficiency, i.e. placental uterine blood circulation disorder. In addition, under the influence of viral diseases, special pathomorphological changes in the placenta are observed: lympho-plasmacytic infiltration in the stroma of the teats, hemocidrin bodies in the stroma of blood vessels and teats, necrosis of the teats, focal or diffuse villusitis and intervillusitis.

For research purposes. It is in the area of syncytotic trophoblasts in the terminal teats of the placenta of pregnant women infected with covid-19 that viruses are located in a fuchsinophil form. In addition, fibrin foci, mixed inflammatory infiltration in the subchorionic space, distundual arteropathy, and hypertrophy of the arteriolar wall are observed in the case of perivillesis. As a result of these pathomorphological changes, it causes chronic intrauterine hypoxia, so it seems that the study of pathomorphological changes in the placenta of pregnant women infected with covid-19 is considered urgent.

Discussion. Analysis of pathomorphological changes in the placenta of pregnant women infected with Covid-19.

Material and methods. A total of 70 placentas of pregnant women were selected for research, and the main group included 50 placentas of pregnant women infected with covid-19, while the control group included 20 placentas of women with physiological pregnancy. Macroscopic and microscopic (hematoxylin eosin, histochemical staining) studies were used in the study.

Results: against the background of covid 19, the duration of pregnancy is 50% (at 30-35 weeks), 30% (at 20-25 weeks), 20% (at 35-40 weeks). By age, 55% (25-35 years old), 30% (35-40 years old), 10% (40-45 years old), 5% (20-25 years old). The duration of pregnancy of pregnant women in the control group is 45% (at 30-35 weeks), 15% (at 20-25 weeks), 40% (at 35-40 weeks). By age, 65% (25-35 years old), 6% (35-40 years old), 4% (40-45 years old), 25% (20-25 years old). pathomorphological changes in the placenta of pregnant women infected with covid-19: perivillosis and foci of subchorial fibrin in the placenta (35%), vascularization of the teats with large foci (40-45%), inflarction of the teats (10-15%), inflammatory infiltrate in the subchorial space, detsudual arteropathy (25%),atherosis and fibrinoid necrosis (30%), hypertrophy of the arteriolar wall (15-20%), immature interstitial papillae (55%). Changes in the placenta (60%), vascularization of the teats with large foci (20%), infarction of the teats (15%), inflammatory infiltrate in the subchorial space, decidual arteropathera (12%), atherosis and fibrinoid necrosis (45%) hypertrophy of the arteriolar wall (5%), immature



nipples (10%). In the background of covid-19, the period of pregnancy in 70% of cases corresponded to the period of 30-40 weeks. the main pathomorphological changes in the placenta are manifested by the intermediate papillae, where the vascularization of papillae with a large focus has not been reached.

Conclusion. In pregnant women with covid-19, the average age of pregnancy at full term is 36+- 0.02, the main pathomorphological changes are manifested by the vascularization of the supporting suckers in the placenta.

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