
THE CHANGES OF THE LEVEL OF BLOOD ANTIOXIDANT AND PROOXIDANT ACTION OF METALLOPROTEINS IN NORMAL PREGNANTS

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From the blood of normal pregnant women it was isolated, purified and determined the quantitative changes of the antioxidant (Cu,Zn-SOD, catalase, ceruloplasmin, transferrin) and recently discovered new prooxidant action metal lipoproteins (cytochromes B₅₅₈III, B₅₅₈IV, obtained from membranes of erythrocytes, and suprol - superoxide producing lipoprotein, obtained from blood serum), as well as cytochrome B₅ soluble fraction of erythrocytes. In comparison with control data from practically healthy women blood, the level of cytochrome Bs and Cu,Zn-SOD increases (42 and 38,8% correspondingly) at pregnancy. Simultaneously the level of other metalloproteins decrease (20%, 10,3%, 22,3%, 33,3% for cytochromes B₅₅₈III, B₅₅₈IV, ceruloplasmin and transferrin correspondingly). This data testify the breach of the levels producing and utilizing the superoxide radicals metalloproteins in the blood of pregnant women. It's important to notify, that indicated data in the content of pro- and antioxidant metalloproteins don't be a marker of oxidative stress, because they take place in the limits of physiological adaptation reactions. This thesis is confirmed by our previous data according the compensation of lipid peroxidation and antioxidant system balance in pregnant organism.

PROBLEMS OF ANTENATAL DIAGNOSTICS OF INTRAUTERINE INFECTION

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Materials that define the present situation of the teaching on intrauterine infections, of solved and unsolved problems of their diagnostics in mother and fetus are summed up in the report. Possibilities of intrauterine infections diagnostics with the use of immunofermental analysis, PCR, RT-PCR are discussed. An algorithm is suggested for diagnostics of intrauterine cytomegaloviral and other viral infections. Primary tasks of infectious perinatology have been stated.