

[Oxidant/Antioxidant Balance in Cows and Sheep in Antenatal Pathology.](#)

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- **Description:** It has been established that antenatal pathology causes changes in the oxidant/antioxidant balance indices of cows within the range from 24.3% to 41.5%, and in sheep - 17.2-26.2%. In particular, in cows the content of serum catalase decreased by 29.9% and that of superoxide dismutase - by 29.1%, in erythrocytes, catalase - by 35.7%, and reduced glutathione - by 28.0%, and by hemoglobin by 24.3%, the number of red blood cells - by 28.7% and the concentration of 2,3-diphosphoglycerate - by 41.5%. At the same time, the content of malondialdehyde in serum and erythrocytes, on the contrary, increased by 32.4% and 32.5%, respectively, and there was a change in oxidant/antioxidant balance from 1 : 1 to 1 : 3 conventional units. In sheep, the content of serum catalase decreased by 17.2% and that of superoxide dismutase - by 21.6%, in erythrocytes catalase - by 23.9% and in reduced glutathione - by 21.1%, hemoglobin content decreased by 26.2%, the number of erythrocytes - by 24,1% and the concentration of 2,3-diphosphoglycerate - by 21.2%. While the content of malondialdehyde in blood serum and in erythrocytes, on the contrary, increased by 23.7% and 22.3%, respectively, and the change in oxidant/antioxidant balance occurred from 2:1 to 1:3 conventional units.
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