SPECTRUM OF PROTEINSBLOOD OFCATS WITH MAMMARYTUMORS

O.M. Fedets, N.Y. Kulay, Y.O. Karkoshkina

Proteins, blood, mammarytumor,cat.

Fractional compositionof plasma proteins fromcatswith mammary tumors has been investigated (14 main fractionshave been identified). The level of individual fractions (γ-globulins, transferrins and acute phase proteins α1-antitrypsin, haptoglobin and ceruloplasmin) increased in different animals.

The aim of research was to study the blood protein spectrum cats with tumors of the breast.

Material and methods. 2 ml blood was taken from the jugular vein of six animals with tumors of the breast.

Results. Proteins plasma was divided into 14 fractions. The animal №2 (8 years second operation), №3 (10 years, except for breast cancer multiple metastases, 3 days after surgery lethal) and №4 (14 years before surgery; relapse, multiple tumors and lymph units) increased content of transferrin 1, which includes beta-lipoproteins.

Conclusions

1. In cats with mammary tumors there are such changes in a blood protein spectrum: an increase in the γ-globulin; the maintenance of transferrin 1 which includes β-globulins transporting low-density lipoprotein; the concentration of acute phase proteins of inflammation which leads to an increase in α1-globulin fractions (α1-antitrypsin includes), haptoglobin and ceruloplasmin.

2. In blood protein spectrum of each animal there is a significant change in one or two factions, which covers other possible changes.