

## SUMMARY

### **Effects of Ovario-hysterectomy in Dogs on AST, GGT, Serum Concentrations of Cholesterol, Triglyceride as well as Total Protein and Albumin Activities**

Four-teen mongrel bitches, aging between four and five, clinically healthy dogs were used in this study. Dogs were taken from the dog house of Aydın municipality. Operated dogs were not in estrus cycle. Blood was collected from vena cefalica lateralis. Prior to operation, ten days and 30 days following the operation blood was collected from the dogs. Blood in serum tubes were centrifuged at 3000 g for ten minutes and sera was kept at -20°C until the measuring of parameters. Analyses were performed using commercially available kits at an autoanalyser (BT 3000 Plus Italy).

Prior to the operation serum AST activities were 20,071 U/L, while those were detected as 18,571 U/L on the tenth day of operation and 24,80 U/L on the 30<sup>th</sup> day of surgery. Serum GGT activities on 0, 10. and 30<sup>th</sup> day of operation were 5,428 U/L, 5,357 U/L and 5,500 U/L, respectively. Serum triglyceride concentrations showed a slight increase from 66,714 mg/dl to 75,500 mg/dl at the tenth day of surgery. At the 30<sup>th</sup> day of operation it was detected as 73,700 mg/dl. Serum cholesterol levels were increased statistical significantly from 150,928 mg/dl to 187,357 mg/dl at the tenth day of operation. However, it decreased to 151,200 mg/dl on the 30<sup>th</sup> day of operation. Total protein levels decreased from 9,435 g/dl to 8,092 g/dl on the tenth day of operation and increased again to 9,360 g/dl on the 30<sup>th</sup> day of surgery. Serum albumin levels were 3,171 g/dl at the beginning of operation and decreased to 2,971 g/dl on the tenth day and to 2,950 g/dl on the 30<sup>th</sup> day of operation.

In conclusion, except cholesterol no alteration was detected in ovario-hysterectomy of dogs.

Key words; Dog, Ovariectomy, AST, GGT, triglyseride, total protein, albumin,  
cholesterol.