



Investigation of the Effect of Age, Gender, Seasonal Change on the Level of Serum Asprosin in Trakya Horse

Bülent Bayraktar

Bayburt University, Faculty of Health Sciences, Turkey

Abstract:

Adipokine hormones in the regulation of energy balance and metabolism, cardiovascular, neuroendocrine functions, insulin, glucose and lipid metabolism, appetite, nutrition, inflammation, immune and reproductive system have important roles in many physiological processes such as regulation of blood pressure. The aim of this study was to determine the effect of season, gender and age factors on visfatin hormone level in Trakya horse breed. The material of the study was composed of male and female horses between the ages of 1-5; 5-15; 16-30, belonging to the winter and summer seasons in Trakya horses. The study was performed in 60 horses with various age and gender. The highest levels of serum asprosin were observed for females in the winter period in the 5-15 age range (14.22 ng/ml), while the lowest was observed in horses in the summer period in the 16-30 age range (8.17 ng/ml). In male horses, the highest serum asprosin level was found in horses between 5-15 years of age (12.52 ng/ml) and 16-30 years of age (6.07 ng/ml) for the winter period. As a result, it was determined that season, age, gender parameters were effective on serum visfatin hormone level ($p < 0.00$). With the results obtained, the present study is the first.

Biography:

Prof. Dr. Bülent BAYRAKTAR has completed Atar University Faculty of Veterinary Medicine, completed his PhD in Physiology Department of Kocaeli University. He also graduated from Istanbul Selimiye Veterinary Health Vocational High School and High School Edu-



cation Uludağ University He is working on the identification of appropriate markers in the determination of racehorses. He has 4 peer reviewed international research papers and 7 peer reviewed national papers.

Recent Publications:

1. Response of Japanese quails (*Coturnix coturnix japonica*) to dietary inclusion of *Moringa oleifera* essential oil under heat stress condition
2. Effects of Race, Gender, Body Condition Score and Pregnancy on Serum Apelin Levels in Ewe, 2020
3. Investigating the adipokine and cardiac troponin response in experimental thyroid dysfunction, 2020
4. Effects of an Essential Oil Mixture Added to Drinking Water for Temperature-Stressed Broilers: Performance, Meat Quality, and Thiobarbituric Acid-Reactive Substances Trakya At Irkında Serum Visfatin Seviyesi Üzerine Yal, Cinsiyet, Mevsim Etkisinin İncelenmesi

[Webinar on Veterinary Medicine and Animal Sciences, November 09, 2020](#)

Citation: Dr. Bülent Bayraktar, Investigation of the Effect of Age, Gender, Seasonal Change on the Level of Serum Asprosin in Trakya Horse, Webinar on Veterinary Medicine and Animal Sciences, November 09, 2020