بررسی تغییرات فصلی آنزیم گلوتاتیون برکسیداز خون و تغییرات پاتولوژیک قلب و ماهیچه‌های اسکلتی در گوسفندان آذربایجان غربی

دورсет مهدی نوری*، دکتر سیما عصی

پیش‌نیایی: 19 آبان ماه 1382

پیش‌نیایی: 19 آبان ماه 1382

Survey of the blood GSH-PX seasonal variation and pathologic changes in the hearts and skeletal muscles of sheep in West Azerbaijan

Nouri, M.1, Asri, S.2

1Department of Clinical Sciences, Faculty of Veterinary Medicine, Shaheed Chamran University of Ahvaz, Ahvaz-Iran. 2Department of Clinical Sciences, Faculty of Veterinary Medicine, University of Urmia, Urmia-Iran.

Objective: To clarify the season in which GSH-PX, the index of blood selenium status, is in its critical condition. In addition specific pathological changes due to selenium deficiency in skeletal muscle and the heart was investigated.

Animals: In this study, blood sampling were taken of 2400 clinically normal sheep and 27 lambs suspected for selenium deficiency. 10 selenium deficient lambs were also autopsised for pathological changes.

Procedure: GSH-PX was measured in 2400 blood samples taken of normal sheep in 3 towns in west Azerbaijan. Blood samples were also collected from 27 lambs suspected for selenium deficiency. Ten lambs with clinical signs of selenium deficiency were necropsied and gross and microscopic changes in the hearts and skeletal muscles were studied.

Statistical analysis: Season's variations were analysed by student "t" test.

Results: This investigation showed that blood GSH-PX in sheep in the all studied areas, was significantly lower in winter than summer. The lambs with clinical signs of selenium deficiency had marginal blood GSH-PX and showed evident degenerative changes in the hearts and skeletal muscles.


Key words: Se Deficiency, GSH-PX, Sheep, West Azerbaijan.

Corresponding author's email: m.nouri@chamran.ac.ir
فوق کلیوی و به‌پیشه‌ها در ارتر نجوم، نواصیر این مشاهده‌ها در اثر تغییرات فیزیکی و بیولوژیکی در این ناحیه اتفاق می‌آید.

**بحث**

در این مطالعه تغییرات قلی در میزان گلوتاتیون پراکسیداز در ارتر نجومی مشاهده شد. در این بحث، میزان گلوتاتیون پراکسیداز در ارتر نجومی به‌عنوان یکی از عوامل مهم تغییرات فیزیکی و بیولوژیکی در این ناحیه انتخاب شد. در این مطالعه، میزان گلوتاتیون پراکسیداز در ارتر نجومی به‌عنوان یکی از عوامل مهم تغییرات فیزیکی و بیولوژیکی در این ناحیه انتخاب شد.
بررسی تغییرات فلزی آنزیم‌گلوتاتون...
References


15. Pehrson, B. (1985): Selenium-dependent and non-
selenium-dependent glutathione peroxidase activity
488-491.

peroxidase activity of Glutathione S-Transferase
purified from rat liver. Biochem Biophys. Res.

17. Radostits, O.M., Gay, C.C., Blood, D.C. and Hinchcliff,
1515-1532.

Seasonal variation of selenium status of Norwegian
dairy cows and effects of selenium supplementation.

indicators of muscle damage in model of nutritional

nutrition of live stock 3rd ed. CABI publishing. PP:
373-402.

402.

of season and husbanary on the selenium status of