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**XVIII International Congress of Mediterranean Federation
of Health and Production of Ruminants**

THE ACTS OF THE CONGRESS



XVIII INTERNATIONAL CONGRESS OF MEDITERRANEAN FEDERATION OF HEALTH AND PRODUCTION OF RUMINANTS

*May 26-29, 2010
Durrës, Albania*

**The edition of this summary was made possible
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**EVALUATION OF HOMOCYSTEINE, TROPONIN I,
AND NITRIC OXIDE IN LAMBS WITH SUBCLINICAL
NUTRITIONAL MYODEGENERATION**

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ABSTRACT

Nutritional myodegeneration (NM) is a degenerative disease of the cardiac and skeletal muscles. During the past few years, elevated blood levels of homocysteine (a sulfur-containing amino acid) have been linked to coronary heart disease and a atherosclerosis.

Plasma homocysteine (Hcy), serum Troponin I (TnI), serum Nitric oxide (NO) levels in lambs with NMD will be elevated. Ten healthy lambs and 20 lambs with NMD were included in the study. Serum activity of creatin kinase (CK), aspartate aminotransferase (AST), alkaline phosphatase (ALP), and lactate dehydrogenase (LDH) values were measured with autoanalyzer. Plasma concentration of Hcy, serum TnI I, and NO levels were determined with ELISA method and activity erythrocyte GSH-Px values was measured spectrophotometer. Before treatment, plasma homocysteine, serum NO, troponin I, AST, ALT, ALP, CK, and LDH values of lambs with NMD were higher than those of healthy ones ($P < .001$), while GSH-Px activity of lambs with NMD are lower than those of healthy ($P < .001$). At day 10 (after treatment) none variables were significantly different between treated for lamb with NMD and control lamb.

Nutritional Myodegeneration in lamb is associated with increased homocysteine, TnI, and NO levels. Increased homocysteine, TnI, and NO levels can result from selenium deficiency causing myocardial disorder in NMD lambs.

Key Words: Nutritional Myodegeneration; Lamb; Homocysteine; Troponin I; Nitric oxide