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## Changes in antioxidant parameters in calves with arthritis

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The aim of this study is to determine the changes in antioxidant parameters in calves with arthritis. The research was carried out on 30 calves consisting of 15 calves with arthritis and 15 calves healthy calves aged between two weeks and two months in different breed and sex. In this study, clinical examination and synovial fluid analysis (volume, color, viscosity, appearance, presence of flocculants mass) were used in diagnosis of calves with aseptic and septic arthritis. Blood samples were taken from the jugular vein of the animals and were centrifuged at 3500 rpm for 10 minutes at +40C and the serum samples were obtained. The samples were maintained at -200C until analyses. Significant differences were determined in malondialdehyde (MDA), superoxide dismutase (SOD), glutathione peroxidase (GSH-Px), catalase (CAT) between the groups. As a result, changes in the lipid peroxidation and antioxidant parameters in determining the efficacy of drugs to be applied in the treatment of arthritis in calves will be guiding.

### Biography

Selvinaz Yakan is an expert Veterinary Surgery. She has completed her PhD at Kafkas University, and now she is working as Associate Professor at Ağrı İbrahim Çeçen University Eleşkirt Celal Oruç School of Animal Production, Animal Health Department, Ağrı, Turkey. She focuses on Veterinary Ophthalmology, wound healing, pain, veterinary anaesthesia and analgesia.

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