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## Time depend effect of sevoflurane anesthesia on total antioxidant capacity in calves

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**Statement of the Problem:** The aim of this study was to investigate the effect of sevoflurane on total antioxidant capacity in calves.

**Methodology & Theoretical Orientation:** The research was carried out on 15 calves, from newborns to 3-months-old, in operations performed for a variety of reasons. For induction, sevoflurane was given at 5-7% concentration via mask during 15 minutes. Then, endotracheal intubation was performed and the maintenance was set to a concentration of 2.5-4% sevoflurane in 100% oxygen in two hours period. Blood samples were centrifuged at 3500 rpm for 10 minutes at +4°C and the serum samples were obtained. The samples were maintained at -20°C until analyses. Total antioxidant capacity (TAC) was determined using commercial kits using a spectrophotometer (Eo Biotex, USA).

**Findings:** There was no significant difference recorded on TAC during sevoflurane anesthesia.

**Conclusion & Significance:** It was determined the sevoflurane anesthesia had no adverse effect on total antioxidant capacity in calves.

### Biography

Selvinaz Yakan has completed his PhD in 2012 from Kafkas University and Postdoctoral studies from Agri Ibrahim Cecen University, Eleskirt Celal Oruc Animal Production School, Department of Animal Health. She studied veterinary anaesthesia and analgesia, veterinary ophthalmology, wound healing, and orthopedic surgery. She finished five important projects in her country and is dealing with two projects.

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