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## Influence of environmental conditions on the chemical Immobilization of Fallow Deer (Dama dama).

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The objective of the clinical study is to evaluate of two dosages of tiletamine - zolazepam/ xylazine in deers caught in different climatic and environmental conditions, on physiological parameters and on duration and quality of anesthesia. The geographical area covered are the Peloritani mountains of Sicily; Thirty-six females and four males deers (Dama Dama); age and weight:  $3,5\pm 1,5$  years and  $44\pm 17$  kg, divided into two groups of twenty subjects (A and B), anesthetized to be transported. The deers free were captured in winter ( $12^{\circ}\text{C}$ ) with  $1\text{ mgkg}^{-1}$  of xilazine and  $1\text{ mgkg}^{-1}$  of tiletamine/zolazepam (group A). The deers were grouped in a large enclosure in spring ( $22^{\circ}\text{C}$ ), 12 hours before capture with  $2\text{ mgkg}^{-1}$  of xilazine and  $1,5\text{ mgkg}^{-1}$  of tiletamina/zolazepam (group B). Heart rate (HR), respiratory rate (RR), body temperature (BT), hemoglobin oxygen saturation (SpO<sub>2</sub>), blood lactate concentration (BLC), and immobilization quality (IQ) were evaluated at 10, 20, and 30 min after induction. Induction time (IT, minutes) and duration of recumbency (DR, minutes) were also recorded. HR remains constant throughout the monitoring in both groups. RR in both groups at 20 minutes decreases, but the subjects of group B have a lower RR than those of the group A. SpO<sub>2</sub> shows hypoxemia in group B. BT and BLC are significantly higher in B group. IT is about 8 minutes, while DR is about 50 minutes, in both groups. We get a better sedation in subjects of A group. The grouping of the subjects of B group in the paddock results in a great muscular strain and for the capture was required a higher dosage of anesthetic mixture.

**Keywords:** environmental, tiletamine/zolazepam; xilazine; deer

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