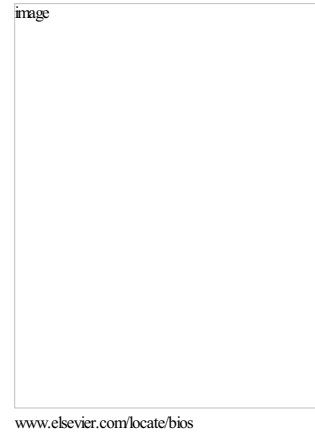


INTRAVENOUS ALFAXALONE ANAESTHESIA
IN LEOPARD GECKOS (*EUBLEPHARIS
MACULARIUS*)

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Research**Intravenous Alfaxalone Anaesthesia in Leopard Geckos (*Eublepharis macularius*)**

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Abstract

Intravenous alfaxalone, administered at a dose of 5 mg/kg in the jugular vein, was evaluated in 20 leopard geckos (*Eublepharis macularius*) to ascertain its ability to provide a level of anesthesia. The induction time, time to loss of mandibular tone, interval of deep anaesthesia, and full recovery time were 27.5 ± 30.7 seconds (10-56 seconds), 1.3 ± 1.4 minutes (11 seconds-4 minutes), 12.5 ± 2.2 minutes (11.11-15.39 minutes) and 18.8 ± 12.1 minutes (10.4-52.31 minutes), respectively. A significant reduction in heart rate (74 ± 12.9 beats/minute) between 2-24 minutes after alfaxalone administration was recorded. A significant decrease of respiratory rate (26.8 ± 10.1 breaths/minute) was recorded 2 minutes after alfaxalone administration and respiratory rate remained lower than basal respiratory (31.4 ± 3.1 breaths/minute) for 24 minutes, but without statistical significance. The intravenous administration of alfaxalone in leopard geckos achieved a rapid onset of anesthesia and a suitable recovery time. Based on this investigation the alfaxalone dose and administration site has proved to be a suitable protocol for sedation prior to tracheal intubation through maintenance on gas anaesthesia. Moreover, the administration technique, jugular administration of the drug, was acceptable in leopard geckos, in which other venipuncture sites are challenging or inaccessible.

Key words: Lizards; intravenous anesthesia; alfaxalone; geckos

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