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Effects of ketamine constant rate infusions on cardiac biomarkers and cardiac function in dogs

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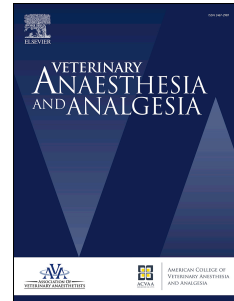
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RESEARCH PAPER

Running head (Authors): *LG Franco et al.*

Running head (short title): Ketamine infusions and cardiac function

Effects of ketamine constant rate infusions on cardiac biomarkers and cardiac function in dogs

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Abstract

Objective To evaluate the effects of ketamine continuous rate infusions (CRI) at two dose rates on cardiovascular function and serum creatine kinase MB isoenzyme (CK-MB) and troponin I in healthy conscious dogs.

Study design Experimental, prospective, crossover, randomized, blinded study.

Animals Eight adult mixed breed dogs, aged 6 ± 1 years and weighing 19 ± 8.6 kg, mean \pm standard deviation.

Methods Dogs were administered an intravenous bolus of ketamine (0.5 mg kg^{-1}) followed by a ketamine CRI for 12 hours ($20 \mu\text{g kg}^{-1} \text{ minute}^{-1}$; treatment TC20 or $40 \mu\text{g kg}^{-1}$

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