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## ANALGESIC EFFECTS OF MEDETOMIDINE/KETAMINE IN PREMEDICATION FOR INVASIVE SURGERY IN DOGS

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Alpha,-adrenoreceptor agonists (α,-agonists) are commonly used in small anim anaesthesia for their potent sedative and analgesic properties, although concerns about their cardiovascular effects have prevented their full adoption into veterinary practi Medetomidine is a relatively new sedative analgesic in dogs and cats but some precautic are required when using it. On the other hand Ketamine is a medication that is used sir 1960 and all the advantages and disadvantages have been known. Twenty-four dogs w admitted at the University veterinary hospital in Skopje for invasive surgery. All d were premedicated with 0,015 mg/kg medetomidine and 1mg/kg ketamine intramuscu Anesthesia was provided with Propofol and maintained with Isoflurane. Addition intraoperative analgesia was provided with 1,5mg/kg boluses tramadol intravenou Respiratory rates, heart rates, body temperature, EtCO, were recorded intra-operation During the intraoperative period, an increase of baseline values for HR, RR was consida sign of intraoperative pain. Effects of preemptive administration of medetomic ketamine were evaluated during surgery by recording the delivered fraction of isoflur as indicated by the vaporizer. Heart rates and respiratory rates during intraoper period were slightly decreased until 40 to 50 minutes of administration of medetomic ketamine. This is because of reflex bradycardia as effects of medetomidine. The deliv fraction of isoflurane was decreased to 2.0-1.5% in dogs following premedication of drugs. The use of combination of medetomidine/ketamine had very good analgesic in the first 40 minutes, in the first signs of pain you should give adequate analgetic.