Risk of death from sedation/ anaesthesia in UK dogs



General anaesthesia and sedation are common veterinary procedures but can result in substantial worry for owners. Owners may be particularly concerned about anaesthetic risk for young dogs undergoing neuter surgery.

This study aimed to provide a reliable evidence base on the overall risk of death related to sedation/anaesthesia in dogs across the UK. Specific emphasis was placed on understanding risks associated with neutering. Anonymised veterinary records were searched for any deaths in the 2 weeks following sedation/ anaesthesia.





Poorer health

Compared to dogs with ASA* scores of 1-2, dogs with ASA scores of 3-5 had 4.8-19.0 times the risk of sedation/ anaesthesia-related deaths.



Urgent procedure

Compared to dogs undergoing routine or elective surgery, dogs undergoing urgent procedures had 13.6 times the risk of sedation/anaesthesia-related deaths.



Dogs that were older, in poorer health, had undergone an urgent procedure or had a long nose were at higher risk of an sedation/anaesthesiarelated death.



Long nose Compared with dogs with

medium length skulls, dogs with long skulls had 3.7 times the risk of sedation/ anaesthesia-related deaths.

Older age

Compared with 0.5-1.5 year old dogs, 5.0-7.0 year old (x 4.9), 7.0-9.0 year old (x 4.9) and >9.0 year old (x 12.8) dogs had increased risk of sedation/ anaesthesia-related deaths.

Conclusions



i nese results help shared decision making between owners and veterinarians for procedures which require sedation or anaesthesia.

The risk of sedation/ anaesthesiarelated death for neuter surgery is particularly low.

The risk of death in dogs undergoing sedation/ anaesthesia is very low in the UK.

CLICK TO READ THE FULL STUDY

Shoop-Worrall et al. (2022) "Mortality related to General Anaesthesia and Sedation in Dogs under UK Primary Veterinary Care" Veterinary Anaesthesia and Analgesia

RVC VetCompass https://www.rvc.ac.uk/vetcompass carries out welfare research based on anonymised clinical information shared from over 30% of UK veterinary practices. We are very grateful to the owners and veterinary professionals who contribute to VetCompass research.





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