



Veterinary Anesthesia and Analgesia

By Diane McKelvey BSc DVM, K. Wayne Hollingshead MSc DVM

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This practical resource is a concise guide designed to prepare veterinary technicians to administer anesthesia in animals. It discusses essential topics such as preanesthetic preparation of the patient, induction procedures, monitoring animals' vital signs during the anesthetic period, and postoperative care. The operation of anesthetic machines and breathing circuits are described in detail, as well as: the actions and side effects of anesthetic agents; the physiology of respiration, heart rate, and blood pressure; emergency response; and specialized techniques such as local anesthesia, postoperative analgesia, and the use of muscle-paralyzing agents and ventilators. In addition to canine and feline anesthesia, this edition has added information on anesthesia of rodents, rabbits, and other animals used in research, plus a new section on anesthesia of cattle, horses, small ruminants and pigs.

- This is the only book on veterinary anesthesia written explicitly for technicians, providing detailed, essential information that technicians must know.
- Concepts are presented in a clear, readable, well-organized format with key points, learning objectives, and review questions.
- Health and Safety issues surrounding anesthesia are discussed and safety procedures are outlined, as required by OSHA.
- Emphasis is placed on appropriate response to emergencies, and provisions of the effective pain control.
- Effective learning features such as objectives, key points, and review questions, help reinforce key information.
- All drugs and procedures included throughout the book are fully up-to-date.
- Clear, useful illustrations and tables highlight important facts and concepts.
- A solid balance of theory and application takes the reader from learning to real-world practice.
- Step-by-step Procedures boxes clarify the technician's role in anesthesia delivery.
- Notes throughout the text highlight important precautions and/or emergency interventions.
- A section on client education focuses on compliance with NPO instructions and age-related complications of anesthesia.
- New information is provided on the use of NSAID (nonsteroidal

antiinflammatory drugs - aspirin, ibuprofen) and opioid analgesics for pain control - now accepted as an indispensable aspect of anesthesia.

- Expanded discussions of sophisticated monitoring instruments and equipment address capnography, pulse oximetry, blood pressure measurement, and electrocardiology.
- An expanded section on anesthetic agents includes newer drugs such as medetomidine (Domitor) seroflurane, and analgesics such as carprofen (Rimadyl) and meloxicam (Metacam).
- The new title, previously published as Small Animal Anesthesia and Analgesia, reflects this edition's expanded scope and inclusion of other species.
- A new chapter on large animal anesthesia focuses predominantly on horses and cows.
- A new chapter on exotics covers various exotic pets, with an emphasis on pocket pets and birds.
- New line drawings and photographs of new equipment and techniques for delivery bring the book up to date with advances in the field.

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