

# dog teeth calculus

**dog teeth calculus** can be a concerning issue for pet owners, as it directly affects the health and well-being of our furry companions. This hard mineralized plaque build-up can lead to serious dental problems, including periodontal disease, which may cause pain and discomfort for dogs. Understanding dog teeth calculus, its causes, prevention, and treatment options is essential for maintaining your dog's oral health. In this article, we will explore the nature of dog teeth calculus, its implications for overall health, and best practices for prevention and care. We will also cover common questions regarding dog dental health to ensure you have all the information you need to keep your dog's mouth healthy.

- Understanding Dog Teeth Calculus
- Causes of Dog Teeth Calculus
- Health Implications of Dog Teeth Calculus
- Prevention Strategies for Dog Teeth Calculus
- Treatment Options for Dog Teeth Calculus
- Frequently Asked Questions

## Understanding Dog Teeth Calculus

Dog teeth calculus, also known as dental calculus or tartar, is a hardened form of plaque that accumulates on a dog's teeth. Plaque is a soft, sticky film made up of bacteria, food particles, and saliva. If not removed through regular brushing or professional cleaning, this plaque can mineralize within 24 to 72 hours, turning into calculus. Calculus can appear as yellow or brown discoloration on the teeth and is commonly found near the gum line.

Calculus formation is not just a cosmetic issue; it is a significant concern that can lead to more severe dental health problems. The presence of calculus can create a rough surface on the teeth, which further attracts more plaque and bacteria, promoting a cycle of dental decay. Understanding how calculus forms and its characteristics can help pet owners take proactive measures to maintain their dog's oral hygiene.

## Causes of Dog Teeth Calculus

The formation of dog teeth calculus is influenced by several factors, including diet, oral hygiene habits, and genetics. Recognizing these causes can aid in preventing calculus build-up in dogs.

## Diet

A dog's diet plays a crucial role in the development of dental calculus. Soft, sugary, or highly processed foods can contribute to plaque accumulation. In contrast, a diet that includes hard kibble or dental chews can help mechanically remove plaque from the teeth during chewing.

## Oral Hygiene

Regular oral hygiene practices are vital in preventing the formation of calculus. Dogs that do not have their teeth brushed regularly or do not receive professional dental cleanings are more likely to develop calculus. Owners should prioritize brushing their dog's teeth at least two to three times a week for optimal results.

## Genetics

Some dog breeds are predisposed to dental issues, including calculus formation. Breeds with smaller mouths or crowded teeth, such as Chihuahuas and Pugs, may experience more rapid calculus build-up due to the difficulty in cleaning their teeth effectively.

## Health Implications of Dog Teeth Calculus

The implications of dog teeth calculus extend beyond just the mouth. Neglecting dental care can lead to significant health issues. Here are some of the most notable health concerns associated with calculus build-up:

- **Periodontal Disease:** Calculus is a major contributor to periodontal disease, which can cause inflammation, infection, and tooth loss if left untreated.
- **Systemic Health Issues:** Bacteria from periodontal disease can enter the bloodstream and affect other organs, including the heart, liver, and kidneys.
- **Pain and Discomfort:** The presence of calculus can lead to gingivitis and severe pain in dogs, affecting their quality of life.
- **Bad Breath:** The accumulation of plaque and calculus can result in halitosis, or bad breath, which is often a sign of underlying dental issues.

Being aware of these health implications underscores the importance of regular dental care and monitoring your dog's oral health.

## Prevention Strategies for Dog Teeth Calculus

Preventing dog teeth calculus requires a combination of good dental hygiene practices and regular veterinary care. Here are some effective strategies:

- **Regular Brushing:** Brush your dog's teeth at least two to three times a week with toothpaste specifically formulated for dogs.
- **Dental Chews:** Provide dental chews that can help reduce plaque and calculus formation through mechanical action.
- **Healthy Diet:** Feed a balanced diet that supports dental health, including hard kibble and limited sugary treats.
- **Routine Veterinary Dental Cleanings:** Schedule professional dental cleanings with your veterinarian at least once a year.
- **Water Additives:** Consider using water additives designed to reduce plaque and calculus build-up.

Implementing these strategies can significantly reduce the risk of calculus formation and ensure your dog's teeth remain healthy.

## Treatment Options for Dog Teeth Calculus

If your dog already has developed calculus, treatment options are available to restore their oral health. The most common treatment methods include:

### Professional Dental Cleaning

The most effective way to remove calculus is through a professional dental cleaning performed by a veterinarian. This procedure typically requires anesthesia to allow for a thorough cleaning of the teeth, including scaling and polishing to remove tartar.

### At-Home Care Post-Cleaning

After professional cleaning, maintaining good oral hygiene at home is crucial. Regular brushing, dental chews, and monitoring your dog's oral health can help prevent the reformation of calculus.

### Medication for Infections

If calculus has led to periodontal disease, your veterinarian may prescribe antibiotics or anti-inflammatory medications to address any infections and reduce inflammation.

## Frequently Asked Questions

### Q: What is dog teeth calculus?

A: Dog teeth calculus is a hardened form of dental plaque that accumulates on a dog's

teeth, leading to dental health issues if not managed properly.

## **Q: How can I prevent calculus build-up on my dog's teeth?**

A: Prevent calculus build-up by regular brushing, providing dental chews, maintaining a healthy diet, and scheduling routine veterinary dental cleanings.

## **Q: Is dog teeth calculus dangerous?**

A: Yes, dog teeth calculus can lead to serious health issues such as periodontal disease, tooth loss, and systemic health problems if not treated.

## **Q: How often should I have my dog's teeth professionally cleaned?**

A: It is recommended to have your dog's teeth professionally cleaned at least once a year, but some dogs may require more frequent cleanings based on their dental health.

## **Q: Can I use human toothpaste to brush my dog's teeth?**

A: No, human toothpaste contains ingredients that can be harmful to dogs. Always use toothpaste specifically formulated for dogs.

## **Q: What are the signs of dental problems in dogs?**

A: Signs of dental problems in dogs include bad breath, difficulty eating, swollen gums, excessive drooling, and visible tartar on the teeth.

## **Q: Are certain dog breeds more prone to calculus build-up?**

A: Yes, smaller breeds with crowded teeth, such as Chihuahuas and Poodles, are often more prone to calculus build-up due to their dental structure.

## **Q: Can dental treats replace brushing my dog's teeth?**

A: While dental treats can help reduce plaque, they should not replace regular brushing, which is the most effective way to maintain oral hygiene.

## Q: What should I do if I notice calculus on my dog's teeth?

A: If you notice calculus on your dog's teeth, schedule a veterinary appointment for a professional dental cleaning and discuss a home care plan.

## Q: How can I tell if my dog has periodontal disease?

A: Signs of periodontal disease include red or swollen gums, bleeding when brushing, loose teeth, and persistent bad breath.

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**dog teeth calculus:** *Veterinary Notes For Dog Owners* Trevor Turner, 2011-08-31 Dogs are now arguably the most popular companion animals, and the general wellbeing of the family pet is of paramount importance to many people. Today far more veterinary surgeons are concerned with the welfare of dogs than with any other animal. *Veterinary Notes for Dog Owners* provides a detailed, authoritative and easily understood text for the professional breeder and pet owner alike, as well as for veterinary surgeons and nurses looking for clear, up-to-the minute explanations of sometimes complex issues. Twenty authors, all experts in their particular fields, have come together under the astute editorial guidance of leading veterinary surgeon Trevor Turner BVetMed, MRCVS, to cover all aspects of canine health care and management. There are detailed sections on general and inherited disease, the organ systems and infectious and parasitic diseases; on nutrition and feeding; on first aid, poisoning, and nursing the sick dog; canine dentistry and hernias; on behavior and behavioral problems. Invaluable advice on choosing a dog and building kennels is included as well as such topics as understanding pet insurance. This book is destined to become the standard work on canine health care and management, the essential manual for anybody who takes a serious interest in the welfare of dogs.

**dog teeth calculus:** *The Dog Care Handbook* Christopher Little, 2024-03-31 The Dog Care Handbook is a self-help book written for thoughtful dog owners in the UK. It will improve your knowledge of dogs, your relationship with your vet and your understanding of important and common diseases that our dogs might develop. Many dog owners find that visiting the vet is stressful and costly. The outcomes can sometimes be unsatisfactory. Every dog owner should be able to find a vet they can trust who will respect your perspective and work within your budget. This book will help. The text covers the entire lifespan of pet dogs from puppyhood to old age, in chronological order. Preventative health is covered in detail. Major conditions of the skin, the heart, the joints, the kidneys and other organs are explained fully in lay language. One chapter deals specifically with emergencies, another with home nursing, a third covers old age. Colourful anecdotes and case examples are sprinkled throughout. Numerous illustrations are provided which make it easy to medicate your dog or provide first-aid. The information and advice in this book are based on

up-to-date scientific evidence where-ever possible. When there is a paucity of knowledge the author gives his own perspective based on years of clinical practice in the UK. No other book for the public provides such a wide-ranging remit covering the health and well-being of pet dogs.

**dog teeth calculus:** *The Complete Book of Home Remedies for Your Dog* Deborah Mitchell, 2013-04-30 A comprehensive guide for dog and puppy owners looking for safe and reliable home remedies to the most common canine health problems-- anything from fleas to arthritis. It contains an accessible wealth of information on a full range of natural, herbal, homeopathic nutritional supplements and at home first aid for your pet.

**dog teeth calculus: Whole Dog Journal Handbook of Dog and Puppy Care and Training** Nancy Kerns, 2007-12-01 The Whole Dog Journal Handbook of Dog and Puppy Care and Training features advice on behavior and positive training techniques, guidance about natural care and nutrition, and information about holistic care such as chiropractic, herbal remedies, massage, acupuncture, and homeopathy. It covers all aspects of canine health, including cancer treatments, and most important of all, it focuses on how to have fun with a dog. This book equips readers with the tools to understand dogs, to encourage their physical and emotional wellness, and to elicit their full potential and vitality—and to do it naturally.

**dog teeth calculus: The Dog** Linda P. Case, 2013-03-25 Dogs are a part of nearly 40 percent of United States households. With this in mind, author Linda P. Case has written the definitive textbook on dogs and their care. Completely updated and revised, the second edition of *The Dog* covers four areas of compelling interest: the bond between dogs and humans, canine behavior, canine health and disease, and canine nutrition. Aiming to enhance the human-dog bond, author Case uses clear, understandable writing to explain selective breeding, training principles, solution to common behavior problems, diet and nutrition, and preventative health care. Case liberally uses distinctive figures and tables, current references plus suggested readings, and a thorough glossary to aid in comprehension. More in-depth than most dog books, *The Dog* will prove to be an indispensable tool for undergraduate companion animal courses, veterinary technician courses, and dog care/training courses. In addition, it will serve as a valuable resource for professional breeders, trainers, exhibitors, and veterinary clinicians.

**dog teeth calculus: Breed Predispositions to Dental and Oral Disease in Dogs** Brook Niemiec, 2021-03-11 *Breed Predispositions to Dental and Oral Disease in Dogs* is an accessible guide to hereditary oral and dental disease. The text is designed to help veterinarians make informed clinical decisions and better communicate with clients. Comprehensive in scope, the book provides a thorough understanding of the differences between large and small dogs as related to effective dental treatment. The book includes specific information for treating small and toy breed dogs, small breed brachycephalic dogs, and brachycephalic dogs. It contains key details of clinical conditions more likely to be faced in specific breeds. To enhance the text, the book is filled with high quality clinical photographs and dental radiographs that demonstrate the concepts discussed. *Breed Predispositions to Dental and Oral Disease in Dogs* is a useful resource for any clinician dealing with oral disease in dogs and: Offers a practical guide to the considerations in treating dental disease in specific dog breeds Helps veterinarians make decisions about dental therapy and communicate with clients Offers an understanding of breed predispositions to dental disease Explores the myths about the dangers of anesthetizing small breed as well as brachycephalic dogs and provides balanced information on anesthesia In addition, there are chapters on the welfare implications of breed specific problems as well as how to address brachiocephalic syndrome. Written for veterinary practitioners, students, technicians and nurses, *Breed Predispositions to Dental and Oral Disease in Dogs* is a useful patient-side reference for veterinary professionals.

**dog teeth calculus: Pacific Northwest Laboratory Annual Report for 1965 in the Biological Sciences to the USAEC Division of Biology and Medicine** R. C. Thompson, Evelyn G. Swezea, 1966

**dog teeth calculus: The Original Dog Bible** Kristin Mehus-Roe, 2011-10-04 The woofstasticsecond edition. "This attractive, copiously illustrated easy-to-understand volume covers

every aspect of responsible dog ownership.” —Library Journal The revised and expanded second edition of the bestselling *The Original Dog Bible* remains the most comprehensive dog lover’s resource on the market! The book is divided into eight parts—each fully illustrated and designed for easy reference—plus helpful, entertaining sidebars covering hundreds of related topics. With detailed chapters on the requirements of caring for a dog, health, training, and so much more, this book will prepare you for a wonderful life with a dog. Also included is a catalog of over 250 purebred dog breeds with insightful articles for each! “Being a veteran veterinarian of twenty five years and a lifetime pet lover, I can enthusiastically say ‘this old doc learned new tricks’ upon reading the consummate book on all things dogs . . . I highly recommend it!” —Dr. Marty Becker, former resident veterinarian on ABC’s *Good Morning America* and coauthor of *Chicken Soup for the Dog Lover’s Soul* “This comprehensive book certainly lives up to its subtitle . . . The best part of the book, however, covers ‘life with a dog,’ with sections on pet care partners like sitters and walkers, emergencies, lost dogs, biting, traveling with a dog, and a fantastic chapter on activities one can do with one’s dog.” —Publishers Weekly

**dog teeth calculus:** *Textbook of Veterinary Internal Medicine - eBook* Stephen J. Ettinger, Edward C. Feldman, 2010-02-02 Now in its 7th edition, this popular, must-have text remains the only encyclopedic resource for veterinary internal medical problems. The internationally acclaimed gold standard offers unparalleled coverage of pathophysiology, diagnosis, and treatment of diseases affecting dogs and cats, as well as the latest information on the genome, clinical genomics, euthanasia, innocent heart murmurs, hyperbaric medicine, home prepared and raw diets, obesity, botulism, artificial pacing of the heart, cancer vaccines, and more. The 7th edition combines the convenience of a two-volume printed textbook with the enhanced functionality of an Expert Consult website that enables you to electronically search your entire book and study more efficiently. With instant access to the most reliable information available, you’ll always be at the forefront of veterinary care! Fully searchable online text provides fast, easy access to the most reliable information in the field. More than 150 clinical algorithms throughout the text aid in disease-identification and decision-making. Expanded online chapter content enhances your understanding through additional text, illustrations, tables, and boxes. Hyperlinked client information sheets streamline reference of specific conditions and enhance communication with clients. Extensive online reference list directs you to full-text PubMed abstracts for additional research. Thoroughly updated and expanded content, including 90 new chapters, addresses the latest developments across the full spectrum of small animal care. Companion Expert Consult website enhances your learning experience with the ability to search the entire electronic text instantly, make notes, and highlight content for easy review. Expert Consult also gives you instant access to: More than 150 procedural videos that guide you step-by-step through essential procedures. An interactive drug formulary that makes it easier to find and cross-reference key drug information. Audio files that help you identify heart abnormalities by their sound.

**dog teeth calculus: Manuals Combined: Military Working Dog Handler Medical and Doctrine Presentations And Manuals** , Over 3,200 total slides and pages ... INTRODUCTION: Dogs have served in active service at the sides of their handlers for decades. They have been heroes, showing bravery under fire, saving lives (often losing their own), and bringing comfort to the injured and infirmed. The first recorded American use of military dogs was during the Seminole War of 1835 and again in 1842. In Florida and Louisiana, the Army used Cuban bred bloodhounds for tracking. During the US Civil War, dogs were used as messengers, guards, and unit mascots. The Army Quartermaster Corps began the US Armed Forces' first war dog training during World War II. By 1945, they had trained almost 10,000 war dogs for the Army, Navy, Marine Corps, and Coast Guard. Fifteen war dog platoons served overseas in World War II. Seven platoons saw service in Europe and eight in the Pacific. MWDs were trained at Fort Carson, Colorado, organized into scout dog platoons, and used in the Korean conflict for sentry duty and support of combat patrols. In 1957, MWD training moved to Lackland Air Force base (LAFB), Texas, with the Air Force managing the program. Throughout the Vietnam Conflict, the Military Police Corps used dogs with considerable success.

Most of these were sentry dogs used to safeguard critical installations such as ports and airfields. A new dimension in canine utilization was realized when marijuana detector dog teams were trained and deployed to assist military police in suppressing illicit drug traffic. Sentry and marijuana detector dog teams were then deployed worldwide in support of military police. An important outgrowth of the conflict was the development of canine research and development efforts. These ongoing efforts were able to initiate the first steps toward developing a more intelligent and stronger military dog, training dogs to detect specific drugs and explosives, developing multiple-purpose dogs, and employing tactical dogs by electronic remote control. In the 1990s and early 2000s, MWDs were deployed around the globe in military operations such as Just Cause, Desert Shield and Desert Storm, Uphold Democracy, and Enduring Freedom and Iraqi Freedom. These teams were effectively utilized to enhance the security of critical facilities and areas, as well as bolster force protection and antiterrorism missions, allowing commanders to use military police

CONTENTS: Military Working Dog Handler Medical Presentations (1,248 slides) Military Working Dog Handler Additional Medical & Dental Presentations (346 slides) Handler Training Medical Tasks Manual (50 pages) Design Guide for Military Working Dog Facilities (31 pages) VETERINARY / FOODBORNE ILLNESS SPECIMEN SAMPLE TEST AND SUBMISSION GUIDE (72 pages) Military Police - Military Working Dogs (58 pages) SOLDIER'S MANUAL AND TRAINER'S GUIDE MOS 91T ANIMAL CARE SPECIALIST SKILL LEVELS 1/2/3/4 (407 pages) U.S. Army MILITARY WORKING DOG MANUAL (136 pages) U.S. Air Force MILITARY WORKING DOG PROGRAM (51 pages) U.S. Navy MILITARY WORKING DOG MANUAL (206 pages) United States Department of Agriculture National Canine Operations Manual (194 pages) United States Department of Agriculture National Detector Dog Manual (274 pages)

**dog teeth calculus:** *Unraveling inflammaging : A pathway to Prevent Age-related Disease in Animals* Toshiro Arai, Takahiro Teshima, Osamu Yamato, Jose Ceron, 2025-01-13 The field of age-related diseases in animals, particularly focusing on the concept of 'inflammaging', forms the basis of this research topic. Inflammaging, a term coined to describe the chronic proinflammatory state often associated with aging, has been linked to a variety of degenerative diseases. This low-grade chronic inflammatory state is believed to result from an accumulation of damaged macromolecules and cellular debris due to increased production and inhibited damage surveillance and repair functions in multiple tissues. The secretion of proinflammatory cytokines from senescent cells, known as the 'senescence-associated secretory phenotype' (SASAP), is thought to contribute to the onset of inflammaging. In animals such as dogs and cats, the longer they live, the more diseases they develop, similar to humans, with inflammaging being a potential cause of various age-related diseases. The primary aim of this research topic is to delve deeper into the mechanisms of inflammaging in animals and its role in age-related diseases. The goal is to develop new diagnostic biomarkers for inflammaging, which could potentially lead to early diagnosis and prevention of age-related diseases. In an aging society, the increase in age-related diseases is inevitable. However, the extension of healthy life years and the ability to stay healthy until old age are standard medical requirements. Therefore, the early diagnosis of inflammaging could be a significant step towards preventing various age-related diseases in animals.

**dog teeth calculus:** *Healthcare and Nutrition For Dummies®*, Portable Edition M. Christine Zink, DVM, PhD, DACVP, 2010-12-17 Help your dog enjoy a happy, healthier life You do everything you can to maintain your optimum health. Does't your best friend deserve the same? Your dog is a member of the family and needs the same attention as you do to stay healthy, be happy, and live longer. Healthcare & Nutrition For Dummies makes it easier to ensure that your canine is living a healthy lifestyle. A healthy dog from head to tail — recognize the signs of a healthy dog and learn how to examine your dog's coat, skin, ears, toes, and teeth Paws to learn about nutrition — discover the power of protein, the facts about fat, and the roles that carbohydrates, fiber, vitamins, and minerals play in your pooch's overall health Feed me, Seymour — select the best food for Fido, serve the proper portions, set a feeding schedule, and address special dietary needs Reap the rewards of exercise — enjoy fun and creative activities with your pooch to maintain or lose weight and keep

joints healthy Open the book and find: What to feed dogs who have diseases or allergies The benefits of nutritional supplements How to handle common orthopedic problems Ways to identify dental problems and how to care for your canine's canines The signs of an aging dog How to address vision and hearing issues, incontinence, cognitive impairment, and more When to schedule a visit with the vet

**dog teeth calculus: Dr. Carol's Naturally Healthy Dogs** Carol Osborne, 2006-05 Our dogs are cherished family members and best friends and with proper care lifelong companions. Although illnesses can affect your dogs health and appearance, many conditions can be effectively treated at home. This 112 page, four color, user friendly book takes a comprehensive look at how you can help your dog and when to consult a vet. Gives clear, expert advice on conventional therapies as well as alternative therapies and herbal and homeopathic remedies that you or a practitioner can administer. Shows you how to recognize symptoms of illness and gives advice on everything from digestive disturbances, allergies and itching to behavioral modification, healthy aging tips and explains first aid techniques in the event of an emergency.

**dog teeth calculus: Veterinary Periodontology** Brook Niemiec, 2013-01-04 Veterinary Periodontology is a comprehensive yet user-friendly reference on periodontal disease in dogs and cats, encompassing etiology, pathogenesis, and clinical features. Emphasizing clinical management of this common dental disease, this book covers basic as well as advanced treatments, offering practical instruction on therapeutic procedures. Veterinary Periodontology builds on existing human-based knowledge to provide veterinary-specific information on the periodontal disease process, therapies, patient management, and instrumentation. The book presents detailed information in an accessible format, including numerous step-by-step procedures for use in the clinic. Full-color images aid in comprehension. Veterinary Periodontology is beneficial for anyone who practices veterinary dentistry, including specialists, general practitioners, students, and technicians.

**dog teeth calculus: The Handbook of Veterinary Care and Management of the Military Working Dog - Including Anesthesia / Pain Management Standards**, 2017-10-17 PREFACE Since 9/11 the veterinary care of Military Working Dogs (MWDs) has assumed a greater importance. The role of the working dog has never been more visible and more appreciated. At this writing there are a large number of MWDs deployed throughout the world in support of the Global War on Terrorism. Many people both in and out of uniform are coming to realize that MWDs are among the most valuable and cost-effective counterterrorism tools we have. Before 9/11 detector dogs and their skills were largely taken for granted, even downplayed. Comments like: "MWDs are low-tech"; and "Dogs will be replaced by sensors, imaging techniques and computers" were not uncommon. Detector dogs have become a very visible front-line protective measure against bomb threats - check out the headlines on suicide bombers to see what our terrorist enemies are up to. Then check out the film clips that show security forces in action - the dogs are everywhere! These are reminders that no other tool in the arsenal can match the efficiency, mobility, adaptability and field readiness of a working dog. So, what's new - why publish a new edition now? Yes 9/11 did change things - this edition now has guidelines for MWDs exposed to Anthrax. This third edition of the Handbook also contains new information about the prophylactic laparoscopic-assisted gastropexy program that aims to protect our most "at-risk" dogs from GDV. We also provide guidelines on transitioning from once daily feeding to feeding two "meals" a day; the Dog Center now feeds over 500 MWDs twice a day. Additionally we have updated information about MWD Adoption - a program that has come of age in the 2 years since the publication of the second edition. Also in an effort to provide a "one-stop" resource for working dog policy, this edition now incorporates topics that were formerly available only as VETCOM policy letters. These and other revisions make this new MWD Handbook one of the most up to date resources for military veterinarians caring for MWD's and other Federal Agency working dogs. All veterinary personnel involved in anesthesia should familiarize themselves with these standards, as some previously used agents (such as butorphanol / acepromazine / glycopyrrolate combination, tiletamine / zolazepam, and xylazine) have been removed from the

guidance The world will continue to change and our veterinary care will also change as our knowledge, new technology, and improved therapeutics become available. Our commitment to the health care of MWDs is a constant. Keep up the good work!

**dog teeth calculus: Canine and Feline Nutrition** Linda P. Case, Leighann Daristotle, Michael G. Hayek, Melody Foess Raasch, 2010-05-19 How well can you answer pet owners' questions about proper diet and feeding? Canine and Feline Nutrition, 3rd Edition describes the role of nutrition and its effects upon health and wellness and the dietary management of various disorders of dogs and cats. By using the book's cutting-edge research and clinical nutrition information, you'll be able to make recommendations of appropriate pet food and proper feeding guidelines. Pet nutrition experts Linda P. Case, MS, Leighann Daristotle, DVM, PhD, Michael G. Hayek, PhD, and Melody Foess Raasch, DVM, provide complete, head-to-tail coverage and a broad scope of knowledge, so you can help dog and cat owners make sound nutrition and feeding choices to promote their pets' health to prolong their lives. - Tables and boxes provide quick reference to the most important clinical information. - Key points summarize essential information at a glance. - A useful Nutritional Myths and Feeding Practices chapter dispels and corrects common food myths. - New clinical information covers a wide range of emerging nutrition topics including the role of the omega-3 and omega-6 fatty acid families in pet health and disease management. - Coverage of pet food safety and pet food ingredients includes both commercially and home-prepared foods and provides answers to pet owners' questions on these topics. - Completely updated content reflects the latest findings in clinical nutrition research. - Information regarding functional ingredients and dietary supplementation provides a scientifically based rationale for recommending or advising against dietary supplements. - Guidelines for understanding pet food formulations and health claims differentiate between market-speak and actual clinical benefits for patients, with practice advice for evaluating and selecting appropriate foods.

**dog teeth calculus: Textbook of Small Animal Surgery** Douglas H. Slatter, 2003-01-01 This two-volume masterwork offers explicit guidelines for evaluating patients, selecting the right operation, and implementing clinically proven procedures. It covers major topics relevant to the field such as oncology, ophthalmology, dentistry, the nervous system, the urinary and reproductive systems, and more. The up-to-date 3rd edition features an increased emphasis on decision-making algorithms and high-quality images that depict relevant anatomy, diagnostic features, and sequential steps in operative procedures. Expanded, detailed coverage assists the reader with learning and applying the latest surgical techniques. Contributors from three different continents and 17 countries, outstanding in their fields, lend a global perspective to the work. Extensive, high-quality illustrations aid the reader in clear visualization of techniques, instrumentation, and diagnosis. References for each chapter direct the reader to further sources of information. An appendix of normal laboratory values for the dog and cat put this essential information within easy reach. A cardiopulmonary resuscitation algorithm is printed on the inside front cover for quick and easy reference. A quick guide to evaluation and initial stabilization of life-threatening cardiopulmonary complications is printed on the inside back cover for immediate access to crucial information. The section on critical care has been expanded to include more complete information. 10 new section editors and 146 new contributors bring new insight to topics in their areas of expertise. 38 new chapters, including a chapter on arthroscopy, reflect current knowledge and advances. Detailed coverage of surgery techniques present explicit, easy-to-follow guidelines and procedures. An increased emphasis on decision-making algorithms makes the book even more clinically useful. Each chapter has been thoroughly revised, providing the most comprehensive scope of coverage for each topic.

**dog teeth calculus: Clinical Veterinary Advisor - E-Book** Etienne Cote, 2014-12-09 No other quick reference comes close in covering the diagnosis and treatment of hundreds of diseases in dogs and cats. Etienne Cote's Clinical Veterinary Advisor: Dogs and Cats, 2nd Edition is like six books in one -- with concise topics within sections on diseases and disorders, procedures and techniques, differential diagnosis, laboratory tests, clinical algorithms, and a drug formulary. Revised from cover

to cover, this edition includes dozens of new topics. It also includes free access to a fully searchable companion website featuring an electronic version of the text, all of the book's images, a searchable drug formulary, and 150 Client Education Sheets in both English and Spanish. Section I: Diseases and Disorders provides at-a-glance coverage of nearly 800 common medical problems, arranged alphabetically for immediate access. Entries include a definition, synonyms, epidemiology, clinical presentation, etiology and pathophysiology, differential diagnosis, workup, treatment, prognosis and outcome, plus pearls and considerations. Concise descriptions simplify diagnosis and treatment. Section II: Procedures and Techniques offers illustrated, step-by-step instructions for understanding and performing 111 important clinical procedures. Section III: Differential Diagnosis displays nearly every possible cause for 260 different clinical disorders. Section IV: Laboratory Tests summarizes essential information needed for interpreting more than 150 lab tests. Section V: Clinical Algorithms provides decision trees for the diagnostic and therapeutic decision-making processes involved in managing 91 of the most common clinical conditions/disorders. Section VI: Drug Formulary is a compilation of dosages and other relevant information for more than 300 new and current medications. 410 illustrations and photographs depict disease processes and related concepts. A companion website includes the complete text of the book in a fully searchable format, allowing quick access to information, and all of the book's images. It also includes 150 Client Education Sheets, each available in both English and Spanish. Clinical guidance added to diseases and disorders chapters helps you select appropriate tests and treatments for each case. 50 new client how-to handouts are added for a total of 150 client education sheets, helping to improve outcomes by informing clients. Technician Tips are inserted throughout nearly 800 diseases and disorders, providing specialized information for veterinary technicians. Enhanced electronic image collection on the companion website includes color images and additional figures not found in the text.

**dog teeth calculus:** *The Complete Guide to German Shorthaired Pointers* Dr. Joanna de Klerk, 2020-08-15 The German Shorthaired Pointer, or GSP, is an exceptionally versatile hunting dog that was developed in Germany in the 19th century. Like all pointer breeds, GSPs are very capable of spotting and quietly drawing attention to their quarry. Due to the inclusion of breeds like Bloodhounds and English Pointers, however, GSPs are also excellent trackers who are both fast and agile when pursuing game. This is a boisterous breed that craves interaction from its human companions, making the dogs unparalleled as companions for large and active families. These dogs are extraordinarily active and outgoing, and without enough vigorous exercise and regular training sessions, their delightful energy can develop into destructive hyperactivity. This book will provide you with all the tools you need to keep your German Shorthaired Pointer entertained and engaged from his first days at home until his final years. Packed with essential knowledge about the GSP, this guidebook will answer all of your most pressing questions, including: Is a German Shorthaired Pointer the right breed for me? How do I choose the perfect canine companion for my household? Which training methods are most effective for GSPs? How do I avoid or extinguish common problem behaviors? *The Complete Guide to German Shorthaired Pointers* is an all-encompassing manual to your affectionate and eccentric canine companion. Veterinarian Dr. Jo de Klerk thoroughly covers all aspects of these well-rounded hunting hounds, including their history, temperament, and health. Pet parents who choose to share their life with an enthusiastic German Shorthaired Pointer will treasure the indispensable information found in these pages about the history, temperament, and health of their precious pooch. Find out everything you need to know about these captivating canines and explore wide-ranging subjects, including: The history of the German Shorthaired Pointer Common behavior problems for German Shorthaired Pointers How to select the right GSP pup or rescue dog for you Preparing your home for a lively hunting dog How to introduce your GSP to children and other animals Step-by-step guidance for basic training commands Training your German Shorthaired Pointer for fieldwork Traveling with your German Shorthaired Pointer Nutrition, diet, and your GSP German Shorthaired Pointer-specific health and wellness information Caring for the aging German Shorthaired Pointer Whether you are looking for a skilled hunting dog or a demonstrative companion animal, the German Shorthaired Pointer is likely to perform admirably. This comprehensive

guidebook provides all the tips and techniques needed to ensure that your playful GSP pup gets all the mental stimulation, physical exercise, and attention he needs to grow into a confident and well-behaved adult. This thorough guidebook is an essential piece of literature for anyone who loves German Shorthaired Pointers.

**dog teeth calculus:** *Veterinary Dentistry: A Team Approach E-Book* Steven E. Holmstrom, 2018-06-15 From radiology and anesthesia to patient needs and client education, *Veterinary Dentistry: A Team Approach*, 3rd Edition covers everything you need to know about veterinary dentistry! This handy full-color guide is great for practitioners who are new to veterinary dentistry and for those who want to learn more about the underlying theories of the practice. The first section of the book presents dental procedures, with chapters on oral examinations, instruments, safety, and anesthesia, followed by coverage of more difficult areas such as endodontics, radiology and periodontics. The book concludes with a chapter on marketing veterinary dentistry and commonly asked client questions, replete with proper responses. New for this edition is expanded coverage of pocket pets and an added section on diagnostic radiology and interpretation. It also features an all-new Evolve companion website including client handouts, an instructor test bank, image collection, and PowerPoint slides. With its comprehensive coverage and team approach, this text is the ideal resource for both vet tech and vet students to quickly master the art of animal dentistry. - Clear, heavily illustrated procedures provide a more detailed look at the skills you need to master. - Vet Tech Threads include a variety of pedagogical features including learning objective, key terms, chapter outlines, Technician Notes, and more to help you navigate through chapters and focus your learning. - Inclusion of digital dental radiography develops your understanding of direct radiology versus computerized radiology and the economic considerations of both. - Dental terminology is incorporated to help you master the proper language and improve office communication. - NEW! Updated terminology throughout, based on the American Veterinary Dental College Nomenclature Committee, helps you master the proper language and improve office communication. - NEW! Section on diagnostic radiology and interpretation helps you understand nuances on radiographs. - NEW! Expanded coverage of pocket pets provides vital information on these increasingly popular pets. - NEW Full-color illustrations gives you a better picture of concepts, equipment, and procedure details.

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