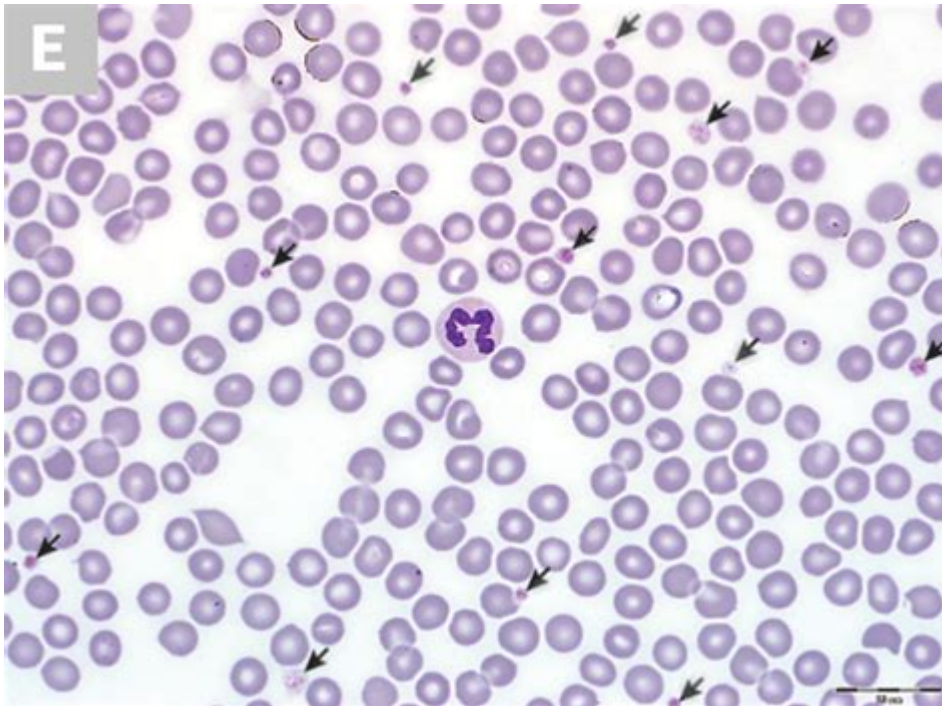


Manual Platelet Count Dog



Manual Platelet Count in Dogs: A Comprehensive Guide for Owners and Veterinarians

Is your canine companion exhibiting unusual lethargy, bruising, or prolonged bleeding? Understanding your dog's platelet count can be crucial in diagnosing and treating a range of health issues. This comprehensive guide delves into the intricacies of a manual platelet count in dogs, explaining the procedure, interpretation, and its significance in veterinary medicine. We'll explore why this test is ordered, what the results mean, and what you can expect during the process.

What is a Manual Platelet Count in Dogs?

A manual platelet count, also known as a manual thrombocyte count, is a laboratory procedure used to determine the number of platelets circulating in a dog's blood. Platelets, or thrombocytes, are tiny blood cells essential for blood clotting. A low platelet count (thrombocytopenia) can lead to excessive bleeding, while an abnormally high count (thrombocytosis) can indicate underlying health problems. Unlike automated methods, a manual platelet count involves direct microscopic examination of a blood smear, offering a more detailed assessment of platelet morphology (shape and size) in addition to the quantity.

Why is a Manual Platelet Count Necessary?

While automated platelet counters are common, a manual platelet count is often preferred in certain situations:

Detecting Platelet Clumping: Automated counters can sometimes misinterpret platelet clumps as single platelets, leading to inaccurate results. Manual examination allows for the identification and accurate counting of individual platelets, even when clumping occurs.

Assessing Platelet Morphology: A manual count allows veterinarians to visually inspect the shape and size of the platelets. Abnormal platelet morphology can be indicative of specific diseases, providing valuable diagnostic information often missed by automated methods.

Confirmation of Automated Results: A manual count can serve as a valuable confirmation or correction of an automated platelet count, particularly when the automated result is unexpected or inconsistent with the dog's clinical signs.

Resource Limitations: In some veterinary clinics with limited resources, a manual platelet count may be the only available method for platelet quantification.

The Procedure: How is a Manual Platelet Count Performed?

The procedure begins with collecting a blood sample from your dog, typically a venous blood draw. The sample is then prepared by creating a blood smear on a microscope slide. This involves spreading a small drop of blood thinly and evenly across the slide. The smear is then stained to enhance visibility of the blood cells under a microscope. A trained technician or veterinarian then examines the stained smear under a microscope, systematically counting the number of platelets within a specific area of the slide. This count is then used to calculate the total platelet count per microliter of blood.

Interpreting the Results: What do the Numbers Mean?

The results of a manual platelet count are typically reported as the number of platelets per microliter (μL) of blood. The reference range (considered normal) varies slightly between laboratories and may depend on the dog's breed, age, and other factors. However, a generally accepted range is between 150,000 and 450,000 platelets/ μL .

Thrombocytopenia (low platelet count): A count below the reference range suggests a decreased production of platelets, increased destruction of platelets, or increased platelet consumption (e.g., due to clotting). This can be caused by various conditions including infections, autoimmune diseases, certain medications, bone marrow disorders, and disseminated intravascular coagulation (DIC).

Thrombocytosis (high platelet count): An elevated platelet count can indicate inflammation,

infection, certain cancers, or other underlying medical conditions.

What to Expect After the Test

Following a manual platelet count, your veterinarian will review the results in conjunction with your dog's clinical history and physical examination findings. Further diagnostic tests may be recommended depending on the platelet count and your dog's symptoms. This may include blood chemistry panels, complete blood counts (CBCs), coagulation tests, bone marrow aspiration, or imaging studies.

Conclusion

A manual platelet count is a valuable diagnostic tool in veterinary medicine, providing critical information about your dog's blood clotting ability. Understanding the procedure, interpretation of results, and the potential causes of abnormal platelet counts is crucial for appropriate diagnosis and treatment. Always consult with your veterinarian if you have concerns about your dog's health, especially if you observe signs of excessive bleeding or bruising. Early detection and prompt veterinary care are essential for the best possible outcome.

FAQs

Q1: How long does it take to get the results of a manual platelet count?

A1: The turnaround time can vary depending on the veterinary laboratory's workload, but typically results are available within a few hours to a couple of days.

Q2: Is a manual platelet count painful for my dog?

A2: The blood collection procedure may cause some temporary discomfort, but most dogs tolerate it well. Your veterinarian will take steps to minimize any pain or stress.

Q3: What are the potential risks associated with a manual platelet count?

A3: The risks associated with a blood draw are minimal and generally include slight bleeding at the puncture site, hematoma formation (bruising), and fainting in some sensitive dogs.

Q4: Can I request a manual platelet count specifically?

A4: While automated counters are more common, you can certainly discuss your concerns with your veterinarian and request a manual count, particularly if there are reasons to suspect inaccuracies with automated methods or if detailed platelet morphology is important.

Q5: How much does a manual platelet count cost?

A5: The cost varies depending on the veterinary clinic and geographic location. It's best to contact your veterinarian's office for a price estimate.

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newest advances in testing methods and diagnostic problem solving. - Full-color photos and schematic drawings are placed adjacent to related text, and accurately depict diagnostic features on microscopic slide preparations as well as test procedures and techniques.

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from: British Small Animal Veterinary Association Woodrow House, 1 Telford Way, Waterwells Business Park, Quedgeley, Gloucester, GL2 4AB, Tel: 01452 726709, Fax: 01452 726701, E-mail: publications@bsava.com

manual platelet count dog: Hematology Board Review Francis P. Worden, MD, Rami N. Khoriaty, MD, Kathleen A. Cooney, MD, Michael W. Deininger, MD, PhD, 2018-05-28 Hematology Board Review: Blueprint Study Guide and Q&A is a concise, outline-based study guide covering all topics that appear on the Hematology Certification Exam. The book includes all topics listed in the American Board of Internal Medicine (ABIM) blueprint as essential material for the exam and highlights topic areas that are often found on the test. For hematology and oncology fellows as well as practicing clinicians needing a refresher before taking MOC, this handy study guide provides succinct overviews of all blood disorders, syndromes and diseases with practice questions on the go. Each disorder or disease-based chapter provides the same structure for ease of use beginning with the epidemiology, and followed by the etiology and risk factors, signs and symptoms, diagnostic criteria, indications for treatment, prognostic factors, treatment recommendations, and special considerations. The authors provide the most accurate and up-to-date information, including well-established treatment regimens for a variety of blood disorders, including iron disorders, bone marrow failure syndromes, platelet and megakaryocytic disorders, hemostasis, thrombosis, and hematologic malignancies. Later chapters review other major subspecialty areas found on the exam including transfusion medicine and hematopoietic cell transplantation. With 200 board-style questions and answers with detailed rationales, Hematology Board Review is the go-to, quick review for any trainee preparing for initial certification and for hematologists or oncologists preparing for recertification. Key Features: Includes 200 board-style questions and answers with rationales Provides key point summaries of each topic area for quick study and easy recall Thorough coverage of hematologic malignancies, blood disorders, transfusion medicine, hematopoietic cell transplantation, and standard treatment regimens Tables providing key data and information related to staging, treatment options, and disease classifications

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procedures, and life as an emergency veterinary technician, including topics such as salary, compassion fatigue, and scheduling. Includes access to a companion website with chapter review questions and the images from the book for download in PowerPoint

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recommended nomenclature of quantities in thrombosis and haemostasis is new to this edition, further facilitating the use of this manual. *Laboratory Techniques in Thrombosis - a Manual* will contribute to furthering the much needed harmonization and standardization of tests within the field and should have a place in all working haemostasis laboratories.

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procedures Presents tables, schematics, algorithms, and drawings for quick reference

manual platelet count dog: Trauma Induced Coagulopathy Hunter B. Moore, Matthew D. Neal, Ernest E. Moore, 2020-10-12 The first edition of this publication was aimed at defining the current concepts of trauma induced coagulopathy by critically analyzing the most up-to-date studies from a clinical and basic science perspective. It served as a reference source for any clinician interested in reviewing the pathophysiology, diagnosis, and management of the coagulopathic trauma patient, and the data that supports it. By meticulously describing the methodology of most traditional as well as state of the art coagulation assays the reader is provided with a full understanding of the tests that are used to study trauma induced coagulopathy. With the growing interest in understanding and managing coagulation in trauma, this second edition has been expanded to 46 chapters from its original 35 to incorporate the massive global efforts in understanding, diagnosing, and treating trauma induced coagulopathy. The evolving use of blood products as well as recently introduced hemostatic medications is reviewed in detail. The text provides therapeutic strategies to treat specific coagulation abnormalities following severe injury, which goes beyond the first edition that largely was based on describing the mechanisms causing coagulation abnormalities. Trauma Induced Coagulopathy 2nd Edition is a valuable reference to clinicians that are faced with specific clinical challenges when managing coagulopathy.

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Academy of Pediatrics, 2007 Based on key content from Red Book: 2006 Report of the Committee on Infectious Diseases, 27th Edition, the new Red Bookr Atlas is a useful quick reference tool for the clinical diagnosis and treatment of more than 75 of the most commonly seen pediatric infectious diseases. Includes more than 500 full-color images adjacent to concise diagnostic and treatment guidelines. Essential information on each condition is presented in the precise sequence needed in the clinical setting: Clinical manifestations, Etiology, Epidemiology, Incubation period, Diagnostic tests, Treatment

manual platelet count dog: Rickettsial Diseases Didier Raoult, Philippe Parola, 2007-04-26 The only available reference to comprehensively discuss the common and unusual types of rickettsiosis in over twenty years, this book will offer the reader a full review on the bacteriology, transmission, and pathophysiology of these conditions. Written from experts in the field from Europe, USA, Africa, and Asia, specialists analyze specific patho

manual platelet count dog: 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!

manual platelet count dog: Exotic Animal Hematology and Cytology Terry W. Campbell, Krystan R. Grant, 2022-03-29 The newly revised Fifth Edition of Exotic Animal Hematology and Cytology delivers a fully updated new edition of the most complete reference to hematology and cytology in exotic animals. The book features high-quality images and step-by-step descriptions of practical techniques. Organized by animal class to make it easier to quickly find critical information, the authors have included 45 new case studies to highlight the application of the content in a real-world setting. All major exotic animal groups are covered, including mammals, birds, reptiles, amphibians, and fish. Clinicians seeking a decision-making aid for patient workup, treatment, and prognosis will find what they need in Exotic Animal Hematology and Cytology. The book also

includes: Thorough cellular descriptions unique to mammalian, avian, herptile, and fish species, with extensive discussions of blood and bone marrow sample collection and hematologic techniques for each group Comprehensive evaluation of the peripheral blood specific to mammals, birds, herptiles, and fish, as well as the evaluation of bone marrow Practical discussions of hematology case studies with applications to common real-world clinical problems Color atlas of hemic cells of select species for quick and easy reference Extensive examinations of cytodiagnosis and exploration of unique features within mammals, birds, herptiles, and fish, as well as cytology case studies and wet-mount cases in fish Access to video clips and additional case reports on a companion website Exotic Animal Hematology and Cytology is an essential reference for veterinary clinical pathologists, anatomic pathologists, clinicians, and technicians, as well as for veterinary students taking courses involving exotic hematology and cytology.

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manual platelet count dog: 100 Top Consultations in Small Animal General Practice Peter Hill, Sheena Warman, Geoff Shawcross, 2011-04-18 Focusing on 'day one competencies', this book offers essential guidance to the most common problems encountered in small animal general practice. Addressing 100 core scenarios, it is ideal for the undergraduate or newly qualified vet, and for those seeking an up-to-date refresher. Organized by presenting sign (diarrhoea, itching) or disease (diabetes mellitus, pancreatitis), and with colour illustration throughout, each chapter explains: how to make a diagnosis which interventions are most appropriate in general practice what the vet should say to the client before and after examination The authors also offer invaluable advice on other key topics such as annual health checks, neutering and euthanasia, and they tackle the tough questions: What if it doesn't get better? What is the low cost option? When should I refer? Never before has so much practical information been brought together in a single volume. Like having an experienced or specialist clinician standing by your side in the consulting room, 100 Top Consultations will become a trusted companion for students and practitioners alike.

manual platelet count dog: Small Animal Surgery. Bloodless Surgery José Rodríguez Gómez, Jorge Llinás, Guillermo C. Couto, 2020-09-14T00:00:00+02:00 José Rodríguez, together with Guillermo Couto and Jorge Llinás, surprises us again with a new volume of the Small Animal Surgery collection, although this time he focuses on the application of bloodless surgery. The author and his colleagues use their wide experience to show readers the importance of ensuring appropriate haemostasis in surgical procedures. The basic principles of haemostasis, their practical application in various clinical cases or the different techniques available are explained throughout the book, and the information is complemented by numerous images that will help the clinician to ensure haemostasis (making knots step by step, surgical procedures shown in sequences of images, etc.). This work also stands out by including high-quality and very didactic videos, with which the reader will be able to gain valuable knowledge.

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