

Urine Sediment Guide

All images from the SedVue Dx[®] Urine Sediment Analyzer

Reference: Size = 200 microns

IDEXX

Blood cells



Figure 1. Red blood cells



Figure 2. Clumped red blood cells



Figure 3. White blood cells



Figure 4. White blood cells

Epithelial cells



Figure 5. Squamous epithelial cells



Figure 6. Squamous epithelial cells



Figure 7. Numerous transitional (nonglandular) epithelial cells with WBCs and RBCs



Figure 8. Numerous transitional (nonglandular) epithelial cells (Pleomorphic transitional cell carcinoma. Confirm with dry-slide cytology.)

Bacteria



Figure 9. Rods with white blood cells



Figure 10. Rods with white and red blood cells



Figure 11. Cocci with white blood cells



Figure 12. Cocci in chains

Casts



Figure 13. Left and right, hyaline cast

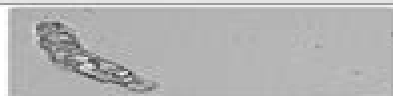


Figure 14. Cellular (nephritic) cast



Figure 15. Numerous granular (nephrotic) casts



Figure 16. Waxy (nephrotic) cast

Crystals



Figure 17. Large struvite crystals



Figure 18. Numerous small struvite crystals



Figure 19. Large calcium oxalate dihydrate crystals



Figure 20. Numerous calcium oxalate dihydrate crystals



Figure 21. Calcium oxalate monohydrate (needle-shaped) crystals



Figure 22. Calcium oxalate monohydrate crystals, left, dumbbells; right, hemp-seed



Figure 23. Numerous bilirubin (brown) crystals



Figure 24. Bilirubin crystal with WBCs



Figure 25. Cholesterol crystals

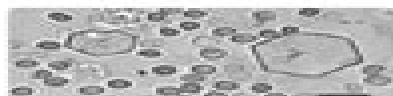


Figure 26. Cystine crystals with red blood cells



Figure 27. Uric acid crystals



Figure 28. Likely drug-related crystals

Miscellaneous



Figure 29. Lipids



Figure 30. Amorphous cylindrical debris



Figure 31. Hyphae



Figure 32. Squam with white blood cells



Figure 33. Left, *Pseudomonas* spp.; *Capillaria* spp.; cilia; right, mucous debris



Figure 34. Left, green granules; right, pollen



Figure 35. Flea



Figure 36. Duck mite

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**Carl A. Osborne, Jerry B. Stevens, Bayer
HealthCare. Animal Health Division**

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Knoll, Francis W. K. Smith, Jr., Larry P. Tilley, 2011-06-20 Blackwell's Five Minute Veterinary Consult Laboratory Tests and Diagnostic Procedures Canine and Feline is a comprehensive one stop reference text on diagnostic skills used daily in treating dogs and cats Chapters cover more than 275 procedures and tests including blood urine and fecal tests and radiographic ultrasound and endoscopic procedures Each topic written by an expert in the field provides essential information on related physiology indications contraindications potential complications and client education The uniform presentation of information arranged alphabetically from abdominal radiographs to zinc tests allows the reader to gain easy access to vital information making this an ideal reference to be used in a clinical setting **Veterinary Cytology** Leslie C. Sharkey, M. Judith Radin, Davis M. Seelig, 2020-08-04 This book offers a state of the art evidence based reference to all aspects of veterinary cytology Truly multidisciplinary in its approach chapters are written by experts in fields ranging from clinical pathology to internal medicine surgery ophthalmology and dermatology drawing the various specialties together to create a comprehensive picture of cytology's role in diagnosis and treatment of animal disease Firmly grounded in the primary literature the book focuses on companion animals with special chapters for species with fewer publications Chapters are logically organized by body system with additional chapters on tumors of particular import and diagnostic decision making The first two sections of Veterinary Cytology focus on cytology techniques quality control and special laboratory techniques Subsequent sections are organ tissue based and reflect what is known about the canine feline and equine species This is followed by chapters on non traditional species including exotic companion mammals rabbits cattle camelids non human primates reptiles and birds amphibians fish invertebrates and sheep and goats The last section highlights some unique features of the applications of cytology in industry settings Provides a gold standard reference to data driven information about cytologic analysis in companion animal species Brings together authors from a wide range of specialties to present a thorough survey of cytology's use in veterinary medicine Offers broader species coverage and greater depth than any cytology reference currently available Veterinary Cytology is an essential resource for clinical and anatomic pathologists and any specialist in areas using cytology including veterinary oncologists criticalists surgeons ophthalmologists dermatologists and internists Graff's Textbook of Routine Urinalysis and Body Fluids Lillian A. Mundt, Kristy Shanahan, 2010-02-01 Newly updated Graff's Textbook of Urinalysis and Body Fluids is the best urinalysis reference for laboratory students and professionals In its Second Edition this practical book retains its full color images and top notch coverage of urinalysis principles while significantly updating the content broadening the scope to include new material on body fluids providing more information on safety and quality assurance and adding textbook features such as objectives case studies and study questions **Urine Sediment Reference Guide**, 2006 **Blackwell's Five-Minute Veterinary Consult** Larry P. Tilley, Francis W. K. Smith, Jr., Meg M. Sleeper, Benjamin M. Brainard, 2021-04-06 Want access to this book online The full book content is also available as part of VetConsult an online subscription platform with a powerful search

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Clinical Pathology , An Issue of Veterinary Clinics of North America: Small Animal Practice, E-Book Maxey L. Wellman, M. Judith Radin, 2022-11-18 In this issue of Veterinary Clinics Small Animal Practice guest editors Drs Maxey L Wellman and M Judith Radin bring their considerable expertise to the topic of Clinical Pathology Evaluation of clinical laboratory data is used daily in the diagnosis and monitoring of veterinary patients and the field is rapidly expanding as new tests and technologies become available This issue provides valuable up to date information on current important topics in clinical pathology that are of interest to clinicians veterinary students and residents Contains 16 practice oriented topics including digital cytology tick borne diseases toxicology case studies laboratory diagnosis of endocrine diseases blood transfusions and more Provides in depth clinical reviews on clinical pathology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

A Guide to the practical examination of urine James Tyson, 1893
Guide to the Practical Examination of Urine James Tyson, 1895 *A Guide to the practical examination of urine for the use of physicians and students* James Tyson, 1895 *Small Animal Cytologic Diagnosis* Anne M. Barger, Amy L. MacNeill, 2016-08-19 Doody's Core Title 2022 2 8 3 with a 5 STAR rating A powerful tool that can be employed in a wide variety of disease processes cytology in small animals has gained increased recognition and clinical application Small Animal Cytologic Diagnosis presents clinically applicable information about the use of cytology and indicates when advanced diagnostic testing can be beneficial to diagnose underlying disease processes The book discusses the pathophysiology of inflammation cancer biology and comparisons to histology to help readers fully comprehend the cytologic changes that can occur with inflammation and neoplasia Also covered are some of the limitations and advantages of cytology compared to histopathology important gross findings e g body cavity effusions and parasites and the associated diagnostic methods

required Further information is provided on oncogenes reference values for effusions and bone marrow aspirates laboratory handling of samples and how to carry out certain diagnostics The book includes chapters written by experts from around the world is divided up into chapters based on anatomical region making it very easy to locate information required for assistance with a specific case provides multiple cytological images for the same sample providing different views of what may be seen uses technical language where appropriate but without overcomplicating the information presented it is very accessible and easy to understand The book includes tissue specific chapters focusing on diseases of a particular area always in comparison to normal tissue Each of these chapters concludes with various cases that include information on signalment history pertinent laboratory data specimen images final outcome and the underlying pathology causing the cytologic lesions when possible With more than 1300 superb illustrations this comprehensive resource provides ample practical information for students as well as practicing veterinarians

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