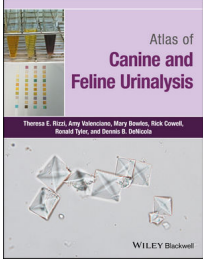


ATLAS OF CANINE AND FELINE URIANALYSIS

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DESCRIPTION:

Atlas of Canine and Feline Urinalysis offers an image-based reference for performing canine and feline urinalyses, with hundreds of full-color images depicting techniques, physical characteristics, urine chemistry, and microscopic characteristics of urine sediment in dogs and cats.

- Presents hundreds of full-color images for reference and picture-matching while using urinalysis as a diagnostic tool
- Provides a complete guide to properly performing a urinalysis exam in the veterinary practice
- Emphasizes collection techniques, physical assessment, urine chemistry, and the microscopic sediment exam
- Covers casts, crystals, cells, organisms, and artefacts
- Offers a practical, visual resource for incorporating urinalysis into the clinic

CONTENTS:

Section I: Sample Collection and Handling

Collection of Urine Samples
 Free Catch Urine Collection
 Transurethral Catheterization
 Cystocentesis
 Urine Sample Handling
 Culture

Section II: Urine: Physical Characteristics

Volume
 Color
 Clarity/Turbidity
 Odor
 Urine Specific Gravity

Section III Urine Chemistry

Urine pH
 Protein
 Glucose
 Ketones
 Blood
 Bilirubin

Section IV Urine Sediment

Preparation for Microscopic Examination
 Casts
 Hyaline Casts
 Cellular Casts
 Granular Casts
 Waxy Casts
 Fatty Casts
 Hemoglobin Casts
 Mixed Casts
 Psuedo Casts
 Crystals
 Crystals associated with urolith formation
 Struvite/Triple Phosphate Crystals
 Calcium oxalate dihydrate
 Calcium oxalate monohydrate
 Calcium Phosphate
 Urate/Ammonium Biurate

Uric Acid
Cystine
Xanthine
Amorphous (Phosphate, Urate, Silicates)
Crystals not typically associated with urolith formation
Tyrosine and leucine
Bilirubin
Melamine
Drug Induced
Sulfonamides
Ampicillin
Radiopaque Contrast Agents
Cholesterol
Cells
Transitional Epithelial Cells
Squamous Epithelial Cells
Renal Tubular Epithelial Cells
Leukocytes
Erythrocytes
Atypical (Neoplastic) Cells
Organisms
Bacteria
Fungal Hyphae
Yeast
Dioctophyma renale Ova
Capillaria (Pearsonema) plica and Capillaria felis cati Ova
Microfilaria
Miscellaneous Findings and Artifacts
Pollen
Fungal spores
Mucus
Lipid Droplets
Sperm
Air Bubbles
Starch Granules (Glove Powder)
Fiber

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