

TABLE OF CONTENTS

Small Animal Medical Differential Diagnosis, 4th Edition

1. Abdominal Distension
2. Abdominal Effusions and Ascites
3. Abdominal Pain, Acute
4. Aggressive Behavior
5. Alopecia
6. Anaphylaxis
7. Anuria and Oliguria
8. Anxiety and Phobias
9. Ascites
10. Ataxia and Incoordination
11. Blindness
12. Bradycardia, Sinus
13. Cachexia and Muscle Wasting
14. Compulsive Behavior Disorders
15. Constipation
16. Coughing
17. Cyanosis
18. Deafness
19. Diarrhea, Acute
20. Diarrhea, Chronic
21. Dyschezia
22. Dysphagia
23. Dyspnea
24. Dysuria
25. Ecchymoses

26. Edema
27. Epistaxis
28. Failure to Grow/Failure to Thrive
29. Fever of Unknown Origin
30. Flatulence
31. Gagging
32. Genital dermatoses – **NEW!**
33. Halitosis
34. Head Tilt
35. Hematemesis
36. Hematochezia
37. Hematuria
38. Hemoptysis
39. Hemorrhage, Prolonged
40. Horner's Syndrome
41. Hyperpigmentation (increased melanin in the epidermis) – **NEW!**
42. Hyperthermia
43. Hypopigmentation (due to melanocyte destruction, dysfunction, or abnormal distribution of melanosomes) – **NEW!**
44. Hypothermia
45. Icterus (Jaundice)
46. Inappropriate Elimination
47. Incontinence, Fecal
48. Incontinence, Urinary
49. Infertility, Female (Canine)
50. Infertility, Male (Canine)
51. Joint Swelling
52. Lameness
53. Lymphadenopathy (Lymph Node Enlargement)
54. Melena
55. Muscle Wasting

56. Nasal Discharge
57. Nystagmus
58. Obesity
59. Oliguria
60. Pallor
61. Papules and Pustules
62. Paresis and Paralysis
63. Petechiae and Ecchymoses
64. Pollakiuria
65. Polyuria and Polydipsia
66. Pruritus
67. Ptyalism (Excessive Salivation)
68. Regurgitation
69. Reverse Sneezing – **NEW!**
70. Scaling and Crusting – **NEW!**
71. Seizure
72. Sneezing and Nasal Discharge
73. Stertor and Stridor
74. Stranguria, Dysuria, and Pollakiuria
75. Stomatitis
76. Stupor and Coma
77. Syncope
78. Tachycardia, Sinus
79. Tenesmus and Dyschezia
80. Tremor
81. Urine, Discolored
82. Urticaria/Angioedema
83. Vision Loss, Sudden
84. Vomiting
85. Weakness

86. Weight Gain

87. Weight Loss

PART TWO: SYSTEMIC APPROACH TO DIFFERENTIAL DIAGNOSIS

Section I

1. Cardiopulmonary Disorders
2. Arrhythmias
3. Aspiration Pneumonia– **NEW!**
4. Atrioventricular Valve Disease, Chronic (Mitral or Tricuspid Valve)
5. Cardiomegaly
6. Chylothorax – **NEW!**
7. Congenital Heart Disease
8. Heart Failure
9. Heartworm Disease
10. Hypertension
11. Laryngeal and Pharyngeal Disease
12. Lower Respiratory Tract Disease
13. Mediastinal Disease
14. Myocardial Diseases
15. Murmurs
16. Pericardial Effusion
17. Pleural Effusion
18. Pulmonary Disease
19. Pulmonary Edema
20. Pulmonary Thromboembolism
21. Tachycardia, Sinus

Section II

22. Dermatologic Disorders
23. Allergic Skin Disease
24. Alopecia, Endocrine
25. Erosions and Ulcerations of Skin or Mucous Membranes – **NEW!**

- 26. Folliculitis
- 27. Otitis Externa, Chronic
- 28. Parasitic Dermatoses
- 29. Pigmentation
- 30. Pyoderma

Section III

- 31. Endocrinologic and Metabolic Disorders
- 32. Acromegaly
- 33. Adrenal Tumors
- 34. Cretinism (Hypothyroidism in Puppies)
- 35. Diabetes Insipidus
- 36. Diabetic Ketoacidosis
- 37. Diabetes Mellitus
- 38. Gastrinoma (Zollinger-Ellison Syndrome)
- 39. Glucagonoma
- 40. Hyperadrenocorticism
- 41. Hyperglycemia
- 42. Hypoadrenocorticism
- 43. Hypoglycemia
- 44. Hyponatremia/Hyperkalemia
- 45. Insulinoma
- 46. Parathyroidism
- 47. Pheochromocytoma
- 48. Pituitary Dwarfism
- 49. Thyroid Disease

Section IV

- 50. Gastroenterologic Disorders
- 51. Chronic Constipation, Feline – **NEW!**
- 52. Diarrhea
- 53. Dental and Oral Cavity Diseases

54. Diseases of the Tongue – **NEW!**

55. Salivary Gland Disease

56. Esophageal Disease

57. Stomach Disorders

58. Small Intestinal Disease

59. Large Intestinal Disease

60. Ileus

61. Malabsorptive Diseases

62. Perianal Disease

63. Protein-Losing Enteropathy

64. Fecal Incontinence

Section V

65. Hematologic Disorders

66. Anemia

67. Coagulopathies, Inherited and Acquired

68. Leukocyte Disorders

69. Platelet Dysfunction

70. Splenitis/Splenomegaly

71. Thrombocytopenia

Section VI

72. Immunologic and Immune-Mediated Disorders

73. Autoimmune Skin Diseases

74. Immune-Mediated Disease

75. Immune System Components

76. Mechanisms of Immunopathologic Injury – **NEW!**

77. Organ Systems Affected by Autoimmune Disorders in the Dog and Cat
— **NEW!**

78. Systemic Lupus Erythematosus (SLE)

Section VII

79. Infectious Disease

80. Anaplasmosis, Canine – **NEW!**

- 81. Bacterial Infections, Systemic
- 82. Ehrlichiosis, Canine
- 83. Influenza, Canine – **NEW!**
- 84. Neorickettsiosis, Canine
- 85. Mycoses, Systemic – **NEW!**
- 86. Polysystemic Protozoal Diseases
- 87. Rocky Mountain Spotted Fever
- 88. Sepsis and Systemic Inflammatory Response Syndrome (SIRS)
- 89. Vaccines, Recommended Core vs. Non-Core – **NEW!**
- 90. Viruses, Canine
- 91. Viruses, Feline

Section VIII

- 92. Joint and Bone Disorders
- 93. Arthritis
- 94. Bone Disorders

Section IX

- 95. Liver and Exocrine Pancreatic Disorders
- 96. Cholangitis and Cholangiohepatitis, Feline
- 97. Exocrine Pancreatic Disease
- 98. Gallbladder and Extrahepatic Biliary Disease
- 99. Hepatic Encephalopathy
- 100. Hepatic Lipidosis, Feline
- 101. Hepatobiliary Disease
- 102. Hepatomegaly and Microhepatica
- 103. Hyperlipidemia
- 104. Pancreatitis
- 105. Portosystemic Shunt, Congenital
- 106. Vacuolar Hepatopathy, Canine

Section X

- 107. Neoplasia

- 108. Chemotherapeutic Agent Toxicity
- 109. Corticosteroid Therapy
- 110. Humoral Hypercalcemia – **NEW!**
- 111. Histiocytic Disease
- 112. Lymphoma
- 113. Paraneoplastic Syndromes
- 114. Sarcomas
- 115. Thyroid Neoplasms
- 116. Tumors

Section XI

- 117. Neurologic and Neuromuscular Disorders
- 118. Brain Disease, Congenital or Hereditary
- 119. Cognitive Dysfunction
- 120. Cranial Nerve (CN) Deficits
- 121. Head Tilt
- 122. Inflammatory Disease of the Nervous System
- 123. Intracranial Neoplasms
- 124. Myasthenia Gravis
- 125. Myositis and Myopathies
- 126. Neurologic Examination
- 127. Paroxysmal Disorders Confused with Epileptic Seizures – **NEW!**
- 128. Peripheral Neuropathies
- 129. Spinal Cord Disease
- 130. Spinal Cord Lesions
- 131. Systemic Disease
- 132. Vestibular Disease

Section XII

- 133. Ocular Disorders
- 134. Anisocoria – **NEW!**
- 135. Blindness, Acute

- 136. Corneal Color Changes – **NEW!**
- 137. Eyelids and Periocular Skin – **NEW!**
- 138. Non-healing Corneal Erosions (Ulcers) in Dogs – **NEW!**
- 139. Ocular Manifestations of Systemic Diseases
- 140. Ocular Neoplasia – **NEW!**
- 141. Red Eye – **NEW!**
- 142. Retinal Detachment – **NEW!**
- 143. Uveitis – **NEW!**

Section XIII

- 144. Toxicology
- 145. Chemical Toxicoses
- 146. Plant Toxicoses
- 147. Venomous Bites and Stings

Section XIV

- 148. Urogenital Disorders
- 149. Differentiating between urine marking and inappropriate elimination in cats – **NEW!**
- 150. Glomerular Disease
- 151. Indications for Cytoscopy – **NEW!**
- 152. Mammary Masses – **NEW!**
- 153. Prostatic Disease
- 154. Proteinuria in Dogs and Cats – **NEW!**
- 155. Pyelonephritis, Bacterial Renal Disease
- 156. Reproductive Disorders
- 157. Ureteral Diseases
- 158. Urinary Tract Infection (UTI)
- 159. Uroliths, Canine
- 160. Vaginal Discharge

Section XV

Pain Diagnosis – NEW!

- 161. Acute Pain Assessment – **NEW!**

162. Acute Pain Preemptive Scoring System (examples in each category) – **NEW!**
163. Chronic Pain Assessment – **NEW!**

PART THREE: LABORATORY VALUES AND INTERPRETATION OF RESULTS

1. Acetylcholine Receptor Antibody
2. Activated Coagulation Time (ACT)
3. Activated Partial Thromboplastin Time (APTT)
4. Adrenocorticotrophic Hormone (ACTH), Endogenous
5. Adrenocorticotrophic Hormone (ACTH) Stimulation Test
6. Alanine Aminotransferase (ALT, formerly SGPT)
7. Albumin
8. Alkaline Phosphatase, Serum (SAP or ALP)
9. Ammonia
10. Amylase, Serum
11. Anion Gap
12. Antinuclear Antibody (ANA)
13. Arterial Blood Gases
14. Aspartate Aminotransferase (AST, formerly SGOT)
15. Basophil Count
16. Bicarbonate (HCO_3^-)
17. Bile Acids
18. Bilirubin
19. Blood Urea Nitrogen (BUN)
20. Buccal Mucosal Bleeding Time (BMBT)
21. Calcium (Ca)
22. Cerebrospinal Fluid (CSF)
23. Chloride (Cl)
24. Cholesterol (CH)
25. Cholinesterase
26. Cobalamin
27. Complete Blood Count (CBC)

28. Coombs' Test
29. Cortisol
30. Creatine Kinase (CK, f NEW!ormerly CPK)
31. Creatinine
32. Cytologic Criteria of Malignancy – **NEW!**
33. Cytologic Features of Discrete Cell (Round Cell) Tumors – **NEW!**
34. Cytologic Features of Mesenchymal Cells – **NEW!**
35. Cytologic Features of Normal Epithelial Cells – **NEW!**
36. Cytology of Ear Canal Swabs – **NEW!**
37. Cytology of Nasal Swabs or Flush Specimens – **NEW!**
38. Dexamethasone Suppression Tests
39. Disseminated Intravascular Coagulation (DIC), Diagnostic Tests
40. Eosinophil Count
41. Erythrocyte Count (Red Blood Cell [RBC] Count)
42. Folate
43. Fructosamine
44. Gamma Glutamyltransferase (GGT)
45. Globulin, p. xx
46. Glucose
47. Glucose Tolerance Test
48. Glycosylated Hemoglobin
49. Heartworm Antibody, Feline
50. Heartworm Antigen, Canine
51. Heartworm Antigen, Feline
52. Hematocrit (Packed Cell Volume, PCV)
53. Hemoglobin
54. Hemolysis, Prevention in Laboratory Samples
55. Immunoassays
56. Insulin
57. Iron-Binding Capacity (Total, TIBC)/Ferritin

58. Joint Fluid (Arthrocentesis)
59. Lipase
60. Lymphocyte Count
61. Magnesium (Mg)
62. Mean Corpuscular Volume (MCV)
63. Methemoglobinemia
64. Methods of Sample Collection for Cytology
65. Monocyte Count
66. Myoglobinuria
67. Neutrophil Count
68. Osmolality
69. Packed Cell Volume
70. Parathyroid Hormone (PTH)/Ionized Calcium
71. Phosphorus (P)
72. Platelet Count
73. Polymerase Chain Reaction, p. xx – **NEW!**
74. Potassium (K)
75. Protein, Total (TP)
76. Prothrombin Time (PT)
77. Red Blood Cell (RBC) Count
78. Reticulocyte Count
79. Sodium (Na)
80. Thoracocentesis Fluid
81. Thrombocyte Count
82. Thyroid Function Tests
83. Toxoplasmosis Antibody Titer
84. Triglycerides
85. Trypsinogen-like Immunoreactivity (TLI)/Pancreatic Lipase Immunoreactivity (PLI)
86. Urinalysis
87. Urine Cortisol/Creatinine Ratio

88. von Willebrand's Factor

89. White Blood Cell (WBC) Count

Index.