CONTENTS

Preface, ix
Acronyms and Abbreviations, xi

Section 1: Mammalian Hematology Case Studies

Case 1. A 6-year-old otter undergoing a routine physical examination, 5
Case 2. A 10-year-old ferret with lethargy and anorexia, 9
Case 3. A 6-year-old ferret with anorexia and lethargy, 13
Case 4. A 2-year-old ferret with weight loss and lethargy, 17
Case 5. A 3-year-old rabbit with anorexia, 21
Case 6. A 6-year-old hedgehog with anorexia and ataxia, 27
Case 7. A 7-year-old guinea pig with anorexia and decreased water intake, 31
Case 8. A 3½-year-old ferret with lethargy and weight loss, 35

Section 2: Avian Hematology Case Studies

Case 9. A 1-year-old parrot with an acute onset of severe illness, 45
Case 10. A 2-year-old chicken with lethargy, inappetence, and lack of egg laying, 49
Case 11. A 14-year-old macaw with feather-picking behavior and weight loss, 53
Case 12. A 14-year-old parrot with weakness, anorexia, and labored breathing, 57
Case 13. A 4-year-old parrot with anorexia, weakness, and lethargy, 61
Case 14. An adult vulture with generalized weakness, 65
Case 15. A 2-year-old tragopan with wounds, 67
Case 16. A 5-month-old chicken with lethargy, 69
Case 17. A 4-year-old budgerigar with generalized weakness and breathing heavily, 73
Case 18. A 4½-year-old duck with acute dyspnea, 75
Case 19. A 14-year-old falcon with anorexia, 79
Case 20. An 8-month-old hawk with anorexia, weakness, and vomiting, 83
Case 21. A juvenile kestrel with a drooping right wing and blood in the left nares, 89

Section 3: Herptile Hematology Case Studies
Case 22. A 20-year-old turtle with lethargy and anorexia, 95
Case 23. A 3-year-old lizard with lethargy and keeping the eyes closed, 101
Case 24. An 18-month-old lizard with an oral mass, 105
Case 25. A 35-year-old tortoise with anorexia, lethargy, and constipation, 111
Case 26. An adult turtle with a fractured carapace and leg laceration, 117
Case 27. A 2-year-old lizard with anorexia and weight loss, 121

Section 4: Fish Hematology Case Studies
Case 28. An adult stingray with weight loss and lethargy, 127
Case 29. An adult stingray undergoing a routine physical examination, 131

Section 5: Mammalian Cytology Case Studies
Case 30. A 6-year-old guinea pig with excessive drinking and urination, soft stools, and weight loss, 137
Case 31. A 2-year-old rat with diarrhea, dry skin, and squinting eye, 143
Case 32. A 6-year-old tiger with two masses in her mouth, 147
Case 33. A 10-year-old lion with weight loss and lethargy, 151
Case 34. A 5½-year-old ferret presented for a presurgical evaluation, 155
Case 35. A 4-year-old ferret with a tail mass, 159
Case 36. A 5-year-old rabbit with a mass near the left nostril, 163
Case 37. A 1-year-old chinchilla with a closed eye, 167
Case 38. A 5-year-old ferret with a swollen head, 169
Case 39. A 2-year-old rat with a swelling around the left inguinal area, 173
Case 40. A 5-year-old ferret with lethargy, dyspnea, diarrhea, polyuria, and polydypsia, 175
Case 41. A 3-year-old guinea pig with anorexia and decreased water intake, 179
Case 42. A 9-year-old ferret with a mass on the ear, 181
Case 43. A 3-year-old ferret with lethargy and weight loss, 183
Case 44. A 3-month-old ferret with a prolapsed rectum, 187
Case 45. A 2½-year-old gerbil with lethargy and anorexia, 193
Case 46. A 5-year-old guinea pig with an ulcerated swelling in the abdominal area, 195
Case 47. A 6-year-old ferret with pawing at the mouth, 199
Case 48. A 7-year-old ferret with bilateral alopecia, 203
Section 6: Avian Cytology Case Studies

Case 49. A 20-year-old parrot with dyspnea, weight loss, and persistent ascites, 209
Case 50. An 11-year-old cockatiel with a mass in the ear, 213
Case 51. A 4-year-old cockatiel with a swollen head, 215
Case 52. An adult owl with a swollen elbow, 219
Case 53. A 2-year-old macaw with left leg lameness, 221
Case 54. A 6-year-old lovebird with dystocia, 225
Case 55. A 5-year-old parrot with dyspnea, 227
Case 56. A 2-year-old macaw with anorexia and weight loss, 235
Case 57. An adult goose with a mass on the wing, 241
Case 58. A 14-year-old budgerigar with lethargy and anorexia, 245
Case 59. A 35-year-old parrot with weight loss and dyspnea, 249
Case 60. A 29-year-old parrot with halitosis and reduced vocalization, 253
Case 61. A 6-month-old cockatiel with labored breathing, 257
Case 62. A 13-year-old parrot with a prolapsed cloaca, 259
Case 63. A 17-year-old cockatoo with broken blood feathers, 265
Case 64. An adult duck with a mass on the rhinotheca, 271
Case 65. A 3-month-old flamingo with a mass on the rhinotheca, 277

Section 7: Herptile Cytology Case Studies

Case 66. A 2-year-old lizard with difficulty breathing, 281
Case 67. A 3-year-old lizard with vomiting and weight loss, 285
Case 68. A 9-year-old lizard with a mass near the vent, 287
Case 69. A 19-year-old lizard with a large mass on its leg, 289
Case 70. An 11-year-old lizard with an oral mass, 293
Case 71. A 10-year-old snake with a coelomic mass and concern of intestinal impaction, 297
Case 72. A 9-month-old lizard with anorexia and weight loss, 299
Case 73. A 6-year-old lizard with a tail mass, 301
Case 74. A 27-year-old snake with a snout lesion, 305
Case 75. A 1-year-old lizard with multiple infections, 309
Case 76. An adult snake with severe dyspnea, 311
Case 77. An adult newt with a white skin lesion, 315
Case 78. An adult frog in a moribund condition, 317
Case 79. A 10-year-old lizard with anorexia, 321
Section 8: Fish Cytology Case Studies

Case 80. An adult eel with anorexia and skin lesions, 325
Case 81. A 1\(\frac{1}{2}\)-year-old goldfish with dropy, 329
Case 82. A 6-year-old fish with a red mass protruding from the vent, 333
Case 83. An adult stingray with skin masses, 335
Case 84. An adult fish with a mass projecting from the gills, 339
Case 85. A 5-year-old fish with bloating and constipation, 341
Case 86. An adult fish with lesions around its mouth, 345
Case 87. An adult fish with a large red mass on its belly, 349
Case 88. A 3-year-old fish with a growth below the eye, 351
Case 89. An adult fish with increased gilling and eye lesions, 355
Case 90. A fish that is a sole survivor of a massive fish die-off, 357
Case 91. An adult stingray presented for examination for coccidia, 359
Case 92. An adult fish with a large mass on its operculum, 361
Case 93. An adult fish with a mass on its side, 365
Case 94. An adult fish with ulcerative skin lesions, 367

References, 371
Index, 373