

TABLE OF CONTENTS – Drug Therapy for Infectious Diseases of the Dog and Cat

Preface

Acknowledgments

Section A: Pharmacology Guidelines

1 Understanding Minimum Inhibitory Concentrations (MICs) 1

2 Static versus Cidal Antibiotics 1

3 In Vitro versus In Vivo Efficacy 2

4 Approaching Infectious Disease Cases 2

5 Why Antibiotics Fail 4

6 Adjusting Doses in Renal Failure 5

7 Pregnancy Risk Categories 6

8 Lactation Guidelines: Penetration of Drugs into Milk 7

9 Safe Writing Skills 7

10 Basic Math Skills 8

Section B: Empiric Therapy Pending Diagnostic Results

11 Arthritis Osteomyelitis 9

12 Bacteremia and Sepsis 10

13 Central Nervous System Infections (Meningitis) 11

14 Endocarditis (Bacterial) 12

15 Intra-Abdominal Infections 13

16 Neonatal Infections 14

17 Infections Associated with Neutropenia 15

18 Otitis Externa and Otitis Media 15

19 Pancreatitis 16

20 Peritonitis and Abscesses 17

21 Pneumonia/Bronchitis 18

22 Prostatitis 19

23 Pyothorax Infections 20

24 Sinus Infections 20

25 Skin and Soft Tissue Infections 21

26 Urinary Tract Infections 22

Section C: Therapy of Established Infections

27 Acanthamoeba 25

28 Acinetobacter 26

29 Actinomyces 27

30 Adenovirus (Infectious Canine Hepatitis) 28

31 Aelurostrongylus Abstrusus (Feline Lungworm) 29

32 Anaerobic Species (Bacteroides and Prevotella) 30

33 Anaplasma Species 30

34 Ancylostoma Species (Hookworms) 31

35 Ascaris Species (Roundworms) 32

36 Aspergillus Species 33

37 Babesia Species 35

38 Bartonella Species (Cat Scratch Disease) 36

39 Blastomycosis 37

40 Bordetella Bronchiseptica (Kennel Cough) 38

41 Borrelia Burgdorferi (Lyme Disease) 39

42 Brucella (Canine Brucellosis) 40

43 Calicivirus 42

- 44 Campylobacter Species 43
- 45 Candida Species 43
- 46 Canine Influenza Virus (CIV) 44
- 47 Capillaria Aerophila (Lungworm) 45
- 48 Cestode Species (Tapeworms) 46
- 49 Cheyletiella Species (Walking Dandruff) 47
- 50 Chlamydia Species 48
- 51 Citrobacter Species 49
- 52 Clostridium Difficile 50
- 53 Clostridium Tetani/Botulinum 51
- 54 Coccidiomycosis 52
- 55 Corynebacterium Species 53
- 56 Coxiellosis Species (Q Fever) 54
- 57 Cryptococcus Species 55
- 58 Cryptosporidium Species 56
- 59 Ctenocephalides Species (Fleas) 56
- 60 Cuterebra Species (Botfly Larvae) 57
- 61 Cytauxzoon Felis 59
- 62 Dematiaceous Fungi (Phaeohyphomycosis Chromoblastomycosis) 59
- 63 Demodex Canis/Felis (Red Mange) 60
- 64 Dermatophytosis 61
- 65 Dipylidium Caninum (Flea Tapeworm) 62
- 66 Dirofilaria Immitis (Heartworm) 63
- 67 Distemper (Canine) 64
- 68 Ehrlichia Species 65

- 69 Entamoeba Histolytica 66
- 70 Enterobacter Species 67
- 71 Enterococcus 68
- 72 Erysipelothrix Species 69
- 73 Escherichia Coli (Enterotoxigenic/Enterohemorrhagic) 70
- 74 Escherichia Coli (Nonenterohemorrhagic) 71
- 75 Feline Coronavirus (Feline Infectious Peritonitis: FIP) 72
- 76 Feline Immunodeficiency Virus (FIV) 73
- 77 Feline Leukemia Virus (FeLV) 74
- 78 Feline Panleukopenia Virus 75
- 79 Francisella Tularensis (Tularemia) 75
- 80 Fusarium Species 76
- 81 Giardia Species 77
- 82 Helicobacter Species 78
- 83 Hepatozoon Americanum/Canis (Hepatozoonosis) 79
- 84 Herpes Virus (Canine) 80
- 85 Histoplasma Capsulatum 80
- 86 Hyalohyphomycosis (Paecilomyces/Scedosporium) 81
- 87 Isospora Species 82
- 88 Klebsiella Species 83
- 89 Leishmaniosis 84
- 90 Leptospira Species 85
- 91 Lice 86
- 92 Malassezia 87
- 93 Microsporidia 88

- 94 Mucor Species 89
- 95 Mycobacterium Species 90
- 96 Mycoplasma Species 91
- 97 Myiasis (Maggots) 92
- 98 Neospora Caninum 92
- 99 Neorickettsia Helminthoeca 93
- 100 Nocardia Species 94
- 101 Otodectes Cynotis (Otodectic Mange) 95
- 102 Papilloma Virus 96
- 103 Paragonimus Species (Liver Flukes) 97
- 104 Parvovirus 97
- 105 Pasteurella Species 98
- 106 Poxvirus 99
- 107 Proteus Species 100
- 108 Prototheca Species 101
- 109 Pseudomonas Aeruginosa 102
- 110 Pseudorabies (Aujeszky's Disease) 103
- 111 Rabies Virus 104
- 112 Rhodococcus Equi 104
- 113 Rickettsia Rickettsii (Rocky Mountain Spotted Fever) 105
- 114 Salmonella Species 106
- 115 Sarcoptes Scabiei (Sarcoptic Mange) 107
- 116 Serratia Species 108
- 117 Shigella Species 109
- 118 Sporothrix Species 110

- 119 Staphylococcus Species 111
- 120 Streptococcus Species 112
- 121 Strongyloides Species (Threadworms) 113
- 122 Toxocara Canis/Cati 114
- 123 Toxoplasma Gondii (Toxoplasmosis) 115
- 124 Trichomonas Species 115
- 125 Yersinia Pestis (Plaque) 116

Section D: Antibiotics

- 126 Amikacin 118
- 127 Amoxicillin 120
- 128 Ampicillin 122
- 129 Azithromycin 124
- 130 Cefadroxil 126
- 131 Cefazolin 128
- 132 Cefdinir 130
- 133 Cefepime 132
- 134 Cefotaxime 134
- 135 Cefovecin 136
- 136 Cefoxitin 138
- 137 Cefpodoxime 140
- 138 Ceftazidime 142
- 139 Ceftiofur 143
- 140 Cefuroxime 145
- 141 Cephalexin 147
- 142 Chloramphenicol 149

143 Ciprofloxacin 151
144 Clarithromycin 153
145 Clavamox 155
146 Clindamycin 157
147 Dicloxacillin 159
148 Doxycycline 161
149 Enrofloxacin 163
150 Erythromycin 166
151 Florfenicol 168
152 Gentamicin 170
153 Imipenem and Cilastatin 172
154 Linezolid 174
155 Marbofloxacin 176
156 Meropenem 178
157 Metronidazole 180
158 Minocycline 182
159 Nitrofurantoin 185
160 Orbifloxacin 187
161 Oxytetracycline 189
162 Penicillin 191
163 Pradofloxacin 193
164 Rifampin 195
165 Potentiated Sulfas 197
166 Timentin 200
167 Tobramycin 202

168 Tylosin 204

169 Unasyn 206

170 Vancomycin 208

171 Zosyn 211

Section E: Antifungal Agents

172 Amphotericin B 221

173 Caspofungin 224

174 Clotrimazole 226

175 Enilconazole 228

176 Fluconazole 230

177 Flucytosine 232

178 Itraconazole 234

179 Ketoconazole 237

180 Posaconazole 239

181 Terbinafine 241

182 Voriconazole 243

Section F: Antiparasitic Agents

183 Albendazole 247

184 Atovaquone 249

185 Fenbendazole 251

186 Fipronil 253

187 Imidacloprid 255

188 Imidocarb Dipropionate 257

189 Ivermectin 259

190 Lufenuron 262

- 191 Meglumine Antimoniate 263
- 192 Melarsomine 265
- 193 Miltefosine 268
- 194 Milbemycin Oxime 269
- 195 Moxidectin 272
- 196 Nitazoxanide 274
- 197 Nitenpyram 276
- 198 Ponazuril (Toltrazuril Sulfone) 278
- 199 Praziquantel 280
- 200 Primaquine Phosphate 282
- 201 Pyrantel Pamoate 283
- 202 Ronidazole 285
- 203 Selamectin 287
- 204 Spinosid 289
- 205 Sulfadimethoxine 291
- 206 Tinidazole 294
- Section G: Antiviral Agents**
- 207 Acyclovir 297
- 208 Famciclovir 299
- 209 Cidofovir 301
- 210 Idoxuridine 302
- 211 Oseltamivir 304
- 212 Vidarabine 306
- 213 Zidovudine 307

Index.