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Pocket guide: antimicrobial prescribing

for common small animal diseases

Ten tenets of antimicrobial prescribing

- Make a diagnosis.
- Follow antimicrobial guidelines.
- Consider host, likely disease agent, and drug when selecting an antimicrobial.
- Use the correct dose and duration.
- Document indication, drug, dose, frequency, route, and duration.
- Incorporate watchful waiting, as appropriate.
- Regularly review the need for therapy.
- Teach clients to administer antimicrobials.
- · Do not prescribe antimicrobials "just in case."
- Use a tiered approach, choosing antimicrobials with lower importance to human medicine first.

Tips for client satisfaction

- Recommend specific symptomatic therapy when antibiotics are not needed.
- Provide a plan if symptoms do not improve.
- Educate clients. Combine positive treatment recommendations with explanations for why antibiotics are not needed.
- Answer questions.
- When using delayed prescriptions, write an expiration date on the prescriptions so it can be filled only during the watchful waiting period.

Watchful waiting: Delay prescribing for conditions that often self-resolve. Communicate the plan for watchful waiting, letting the client know when to be concerned or contact you for follow-up.





ANTIMICROBIAL RESISTANCE AND STEWARDSHIP INITIATIVE

University of Minnesota Driven to Discover[™]

arsi.umn.edu

Treatment and management recommendations are adapted from the International Society for Companion Animal Infectious Diseases. Please visit **arsi.umn.edu/as-resources** to view the published guidelines.

Feline bacterial upper respiratory infec		
Doxycycline	5 mg/kg PO q12hr	7-10 days
Amoxicillin	22 mg/kg PO q12hr	. ,
Consider watchful waiting if clinical signs present <10 days.		
If clinical signs present >10 days or worsen over 5–7 days, antibiotic therapy (above) might be warranted.		
Canine infectious respiratory disease		
Doxycycline	5 mg/kg PO q12hr	7-10 days
Amoxicillin-clavulanate	11 mg/kg PO q12hr	,,.
Consider watchful waiting if clinical signs present <10 days.		
Treat within 10 day period if fever, lethargy, or inappetence present with mucopurulent discharge.		
Bacterial pneumonia		
Pneumonia without sepsis	Pneumonia with sepsis	
Ampicillin, ampicillin-sulbactam, or cefazolin.	Parenteral fluoroquinolone plus ampicillin	
Use oral equivalents if IV is not needed.	OR parenteral fluoroquinolone plus ampicillin-sulbactam	
	OR parenteral fluoroquinolone plus clindamycin	
	OR base on culture and susceptibility testing	
Treatment duration of 10 days likely to be sufficient in most cases.		
Canine superficial pyoderma		
Cephalexin	15-30 mg/kg PO q12hr	Re-evaluate
Clindamycin*	5.5-10 mg/kg PO q12hr	in 2 weeks.
Topical treatment with antiseptics alone may k	be sufficient for mild or focal cases.	
Frequent re-evaluation is needed to determine treatment duration.		
*Staph. strains resistant to erythromycin may develop resistance to clindamycin during treatment.		
Sporadic bacterial cystitis		
Amoxicillin	10-15 mg/kg PO q12hr	
Trimethoprim-sulfa	15-30 mg/kg PO q12hr	3-5 days
UTI is uncommon in young cats. Consider alternative diagnoses, such as urolithiasis and feline		
idiopathic cystitis.		
Recurrent bacterial cystitis		
Definition: ≥3 UTIs in 12 months or ≥2 in 6 months.		
Perform diagnostics (e.g., urinary tract imaging) to identify predisposing cause.		
Treat as for sporadic bacterial cystitis and/or based on culture and susceptibility testing.		
Pyelonephritis		
Enrofloxacin	5-20 mg/kg PO q24hr (dog)	
Marbofloxacin	2.7-5.5 mg/kg PO q 24 hr	10-14 days
Cefpodoxime	5-10 mg/kg PO q24hr (dog)	10 14 00/3
Acute diarrhea	5 · · · · · · · · · · · · · · · · · · ·	
In most cases, antibiotics do not hasten recovery and cause further dysbiosis.		
Consider dietary, prebiotic, probiotic, and supportive therapy.		
Acute hemorrhagic diarrheal syndrome with sepsis		
Acute hemorrhagic diarrheal syndrome		
	10-15 mg/kg PO q12hr	5-7 days
Metronidazole	10-15 mg/kg PO q12hr	
Antibiotics indicated only with degenerative left shift/sepsis.		