

#### 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 auestions.
- 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.





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#### Treatment and management recommendations adapted from:

Hillier A, et al. Guidelines for the diagnosis and antimicrobial therapy of canine superficial bacterial folliculitis (Antimicrobial Guidelines Working Group of the International Society for Companion Animal Infectious Diseases). zumn.edu/iscaidfolliculitis Lappin MR, et al. Antimicrobial use Guidelines for Treatment of Respiratory Tract Disease in Dogs and Cats: Antimicrobial Guidelines Working Group of the International Society for Companion Animal Infectious Diseases. z.umn.edu/iscaidrespiratory Weese JS, et al. International Society for Companion Animal Infectious Diseases (ISCAID) guidelines for the diagnosis and management of bacterial urinary tract infections in dogs and cats. z.umn.edu/iscaiduti

### Feline bacterial upper respiratory infection

Doxycycline 5 mg/kg PO q12hr 7-10 davs 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.

7-10 davs

10-14 days

5-7 days

#### Canine infectious respiratory disease

5 mg/kg PO q12hr Doxycycline

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.

### Canine superficial pyoderma

Cephalexin 15-30 mg/kg PO q12hr > 2 weeks Clindamycin\* 5.5-10 mg/kg PO q12hr

Topical treatment with antiseptics alone may 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.

#### 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	

Re-evaluate in 7-10 days to determine treatment duration.

### Sporadic bacterial cystitis

Amoxicillin	10-15 mg/kg PO q12hr	3-5 days
Trimethoprim-sulfa	15-30 mg/kg PO q12hr	

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.

#### **Pvelonephritis**

Enrofloxacin 5-20 mg/kg PO SID (dog)

Marbofloxacin 2.7-5.5 mg/kg PO q12hr

Cefpodoxime 5-10 mg/kg PO q24hr (dog)

#### Acute diarrhea

Antibiotics might cause further dysbiosis.

Consider dietary, prebiotic, probiotic, and supportive therapy.

## Acute hemorrhagic diarrheal syndrome with sepsis

Amoxicillin 10-15 mg/kg PO q12hr

Metronidazole 10-15 mg/kg PO q12hr

Antibiotics indicated only with degenerative left shift/sepsis.