

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.





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Feline bacterial upper respiratory infection

Doxycycline 5 mg/kg PO q12hr

Amoxicillin 22 mg/kg PO q12hr

7-10 days

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
Amoxicillin-clavulanate 11 mg/kg PO q12hr
7-10 days

Consider watchful waiting if clinical signs present <10 days.

Treat within 10 day period if fever, lethargy, or inappetence present with mucopurulent discharge.

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

Canine superficial pyoderma

Cephalexin 15–30 mg/kg PO q12hr

Clindamycin* 5.5–10 mg/kg PO q12hr

≥ 2 weeks

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.

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.

Pyelonephritis

Enrofloxacin	5-20 mg/kg PO SID (dog)	
Marbofloxacin	2.7-5.5 mg/kg PO q12hr	10-14 days
Cofnodoximo	5-10 mg/kg PO g24hr (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	5-7 days
Metronidazole	10–15 mg/kg PO a12hr	

Antibiotics indicated only with degenerative left shift/sepsis.