TABLE 35-1 Indications for Antibiotic Treatment of Acute Otitis Media

AGE	INDICATION
<6 months	Antibiotic treatment reasonable for all
6 months to 2 years	Bilateral ear findings
≥6 months	Otorrhea
>2 years	Symptoms worsening or not improving within 48–72 h
All ages	Ear findings with severe otalgia, otalgia lasting at least 2 days, or temperature of >102.2°F

The benefits of antibiotics are modest and are offset by adverse effects. Antibiotics do not result in early resolution of pain but do decrease pain by day 2 or 3 (number needed to treat, 20 patients treated with antibiotics for 1 patient to have decreased pain by day 2 or 3). More children who receive antibiotics have vomiting, diarrhea, and rash (number needed to harm, 14 patients treated with antibiotics for 1 to have vomiting, diarrhea, or rash). Severe complications like mastoiditis are rare, and the number needed to treat to prevent a case of mastoiditis is ~5000 (i.e., 5000 otitis media patients treated with antibiotics to prevent 1 case of mastoiditis). The American Academy of Family Physicians recommends not routinely prescribing antibiotics for otitis media in children 2–12 years old who have nonsevere symptoms and for whom the observation option is reasonable.

The antibiotic of choice for AOM is high-dose amoxicillin (90 mg/kg per d, up to 3 g). Alternatives include cefdinir, cefuroxime, cefpodoxime, or IM ceftriaxone. If the patient has received amoxicillin in the prior 30 days, clinicians should prescribe amoxicillin/clavulanate (90/6.4 mg/kg per d) in two divided doses. The duration of antibiotic treatment is 10 days for children <2 years old or children with severe symptoms; 5–7 days for children 2–5 years old with mild to moderate AOM; and 5 days for children ≥6 years old with mild or moderate symptoms.

If a patient's condition is not better after 48–72 h of treatment, the antibiotic regimen should be changed to amoxicillin/clavulanate, a second- or third-generation oral cephalosporin, or IM ceftriaxone