

CAREFUL ANTIBIOTIC USE

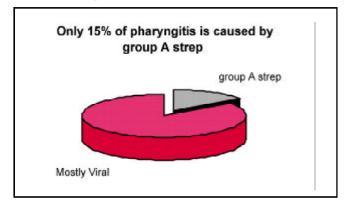
To avoid antibiotic resistance: treat only proven group A strep

PHARYNGITIS IN CHILDREN¹

"If you are entirely comfortable selecting which pharyngitis patients to treat 10 days with penicillin, perhaps you don't understand the situation."

- Stillerman and Bernstein, 1961

Most sore throats are caused by viral agents.²



■ Clinical findings alone do not adequately distinguish Strep vs. Non-Strep pharyngitis.³

BUT, prominent rhinorrhea, cough, hoarseness, conjuntivitis, or diarrhea suggest a VIRAL etiology. ⁴

■ Antigen tests (rapid Strep kits) or culture should be positive before beginning antibiotic treatment.

Experts suggest confirming negative results on antigen tests with culture.⁵

Remember that most cases with clinical signs of strep, like exudate and adenopathy, are viral.

Experts discourage treatment pending culture results⁵⁻⁶, but if you do...

- Make sure to stop antibiotics when culture is negative.
- Discourage parents from saving antibiotics.

If an antibiotic is prescribed:

■ Use a penicillin as treatment for group A strep.⁷

NO group A strep are resistant to penicillin. Treatment is 90% effective at elimination of strep, and may be higher in the prevention of acute rheumatic fever (ARF). Carriers are at very low risk for both ARF and spreading infection.⁷

■ Use erythromycin if penicillin allergic.

References

- Schwartz B, Marcy SM, Phillips WR, Gerber MA, Dowell SF, Pharyngitis-principles of judicious use of antimicrobial agents. Pediatrics 1998;101:171-174
- 2. Tanz RR, Shulman ST. Diagnosis and treatment of group A streptococcal pharyngitis. Semin Pediatr Infect Dis 1995;6:69-78.
- 3. Poses RM, Cebul RD, Collins M, et al. The accuracy of experienced physicians' probability estimates for patients with sore throat: implications for decision making. JAMA 1985;254:925-29.
- 4.Denson MR. Viral pharyngitis. Semin Pediatr Infect Dis 1995;6:62-68.
- 5. American Academy of Pediatrics. Group A streptococcal infections. In: Pickering LK, ed. 2000 Red Book: Report of the Committee on infectious Diseases. 25th ed. Elk Grove, IL: American Academy of Pediatrics; 2000:528.
- 6.Middleton DB, D' Amico FD, Merenstein JH. Standardized symptomatic treatment versus penicillin as initial therapy for streptococcal pharyngitis. J Pediatr 1988;113:1089-94.
- Shulman ST, Gerber MA, Tanz RR, Markowitz M. Streptococcal pharyngitis: the case for penicillin therapy. Pediatr Infect Dis J 1994;13:1-7.