



# **Pharyngitis-Tonsillitis** in Children and Adults

#### Translated from the original French version published March 2010

This **clinical guide** is provided for information purposes and is not a substitute for the practitioner's judgment.

# **GENERAL**

- VIRUS: MOST CASES OF PHARYNGITIS
- Bacteria: Streptococcus pyogenes (group A β-hemolytic streptococcus) most usual cause of pharyngitis:
  - 10% in adults
  - 15-30% in children aged 3-15 (winter-spring)

### **DIAGNOSIS**

#### Viral pharyngitis:

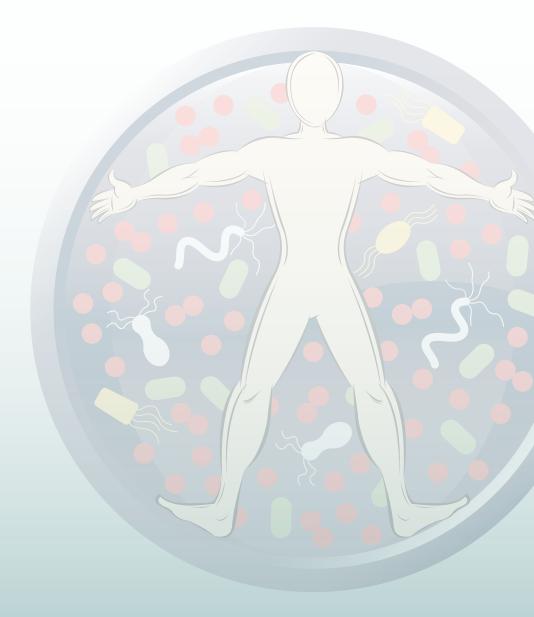
- · Gradual onset
- Frequent symptoms are:
  - Conjunctivitis Cough
- Hoarseness - Rhinorrhea

Group A β-hemolytic streptococcus (GAS) as probable cause of pharyngitis					
Feature	High probability	Low probability			
Season	Winter-spring	Summer			
Age	3-15 years	< 3 years or > 15 years			
Onset	Sudden	Gradual			
Symptoms	Severe sore throat, pain on swallowing, headache, fever, nausea, vomiting and abdominal pain occasionally	Conjunctivitis, hoarseness, cough, rhinorrhea, diarrhea, absence of fever			

The epidemiological context (positive contact) also increases the probability of streptococcal infection.

McIsaac score for assessing sore throat				
Criteria	Points			
History of fever ≥ 38 °C	1			
Presence of tonsillar exudates	1			
Tender anterior cervical adenopathy	1			
No cough	1			
Age < 15	1			
Age ≥ 45	-1			
Total score	Percentage (%) of GAS infection			
0-1	1-10%			
2-3	17-35%			
> 4	50% and over			





#### REFERENCES

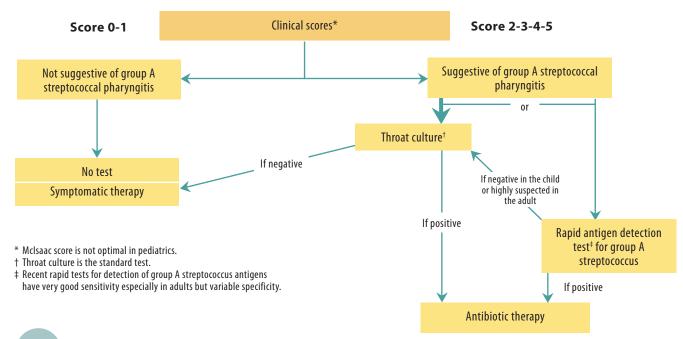
Bisno AL, Gerber MA, Gwaltney JM, et al. Pratice guidelines for the diagnosis and management of Group A streptococcal pharyngitis. Clin Infect Dis. 2002;35:113-25. Committee on Infectious Diseases. Group A Streptococcal Infections. Dans: Pickering LK (ed). Red Book 2003. American Academy of Pediatrics, Elk Grove Village, 2003. Del Mar C, Glasziou PP, Spinks A. Antibiotics for sore throat. Cochrane Database Syst Rev. Issue 4, 2006;CD000023. McIsaac WJ, Kellner JD, et al. Empirical validation of guidelines for the management of pharingitis in children and adults. JAMA. 2004 Apr 7;291(13):1587-95. McIsaac WJ, White D, Tannenbaum D. et al. A clinical score to reduce unnecessary antibiotic use in patients with sore throat. CMAJ. 1998;158(1):75-83. Vanderkooi OG, Low DE, Green K, et al. Predicting antimicrobial resistance in invasive pneumococcal infections. Clin Infect Dis. 2005 May 1;40(9):1288-97. Please note that other references have been consulted.



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uide was developed with the collaboration of the professional corporations (CMQ, OPQ), the federations (FMOQ, FMSQ) and Québec associations of pharmacists and physicians.

# **DIAGNOSIS AND MANAGEMENT**



## **TREATMENT GUIDELINES**

- Most cases recover within 3-5 days without antimicrobial therapy
- VIRAL PHARYNGITIS: NO ANTIBIOTICS

Symptomatic treatment: analgesics/antipyretics

- BACTERIAL PHARYNGITIS:
- Wait for positive result of culture or rapid test before initiating therapy unless presence of the following:
- Important symptoms
- Contact with a documented case of group A streptococcal pharyngitis
- Clinical signs of scarlet fever
- History of acute rheumatic fever
- Pharyngitis complications
- Antibiotic therapy
- Slight reduction in duration of symptoms by approximately 1 day for group A with antibiotic use.
- Consider using antibiotics for group C and G streptococci in the symptomatic patient.
- The main objective is the prevention of acute rheumatic fever and suppurative complications associated with pharyngotonsillitis (peritonsillar abscess).
- Penicillin is the treatment of choice because of its efficacy and its safety.
- Because of the unpleasant taste of penicillin V suspension, **amoxicillin** may be used as effectively to treat young children.
- Reassess if not responding after 48-72 hours of therapy (Right diagnosis? Compliance? Complications?)
- Recurrent pharyngitis, consider:
- Cephalosporins
- ✓ Clindamycin
- ✓ AmoxiciÍlin-clavulanate potassium

These antibiotics have shown a higher eradication rate as compared to penicillin V

CHILDREN Treatment of group A streptococcal pharyngitis					
Antibiotic	Daily oral dosage*	Maximum daily dosage	Duration		
First-line therapy Penicillin V (PenVee®) Amoxicillin	50 mg/kg/day ÷ BID 50 mg/kg/day ÷ BID	600 mg BID 500 mg BID	10 days 10 days		
In case of allergy <sup>†</sup> Cephalexin Clarithromycin (Biaxin®) Azithromycin <sup>‡</sup> (Zithromax®)	50 mg/kg/day ÷ BID 15 mg/kg/day ÷ BID 12 mg/kg/day DIE	500 mg BID 250 mg BID 500 mg on 1st day then 250 mg DIE x 4 days	10 days 10 days 5 days		

ADULTS Treatment of group A streptococcal pharyngitis				
Antibiotic	Oral dosage	Duration		
First-line therapy Penicillin V (PenVee®)	600 mg BID	10 days		
En cas d'allergie <sup>†</sup> Cefadroxil (Duricef <sup>®</sup> ) Cephalexin Clarithromycin (Biaxin Bid <sup>®</sup> ) Azithromycin <sup>‡</sup> (Zithromax <sup>®</sup> )	1 000 mg DIE 500 mg BID 250 mg BID 500 mg on 1st day then 250 mg DIE x 4 days	10 days 10 days 10 days 5 days		

<sup>\*</sup> Daily oral dosage must be divided as recommended.

<sup>†</sup> In cases of type-1 penicillin allergy, cephalosporins are not a treatment option. The antibiotics used in case of allergy are usually listed in alphabetical order of their generic name. Only one brand name product is listed although several manufacturers may market other brand

<sup>‡</sup> A Canadian prospective cohort study (Vanderkooi et al, 2005) has shown a significantly lower risk of emergence of macrolide resistance with the use of clarithromycin (Biaxin®, Biaxin Bid® or Biaxin XL®) as compared to azithromycin (Zithromax®).