

# **ORIGINAL ARTICLES**

# Protocols for antibiotic use in primary and secondary prevention of rheumatic fever

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Several guidelines and studies that address the issue of 'best practice' in the primary and secondary prevention of rheumatic fever (RF) have been published recently. Here I present a summary of the latest recommendations for the prevention of RF that have been distilled from these sources.

### Primary prevention of RF

The prevention of the first attack of RF requires antibiotic treatment of suspected or proven streptococcal throat infection or tonsillitis in children between the ages of 3 and 15 years. In communities where RF is endemic, all cases of sore throat in children 3 - 15 years of age should be regarded as a streptococcal infection and be treated as such *unless* any one of the following clinical characteristics, which indicate that the sore throat should not be diagnosed as a 'strep' throat, is present: ulceration, hoarseness, watery nasal secretion, and/or conjunctivitis. Children not diagnosed with streptococcal pharyngitis should be treated symptomatically. If laboratory services are available, diagnosis of 'strep' sore throat should be confirmed microbiologically, but this confirmation should not delay the initiation of treatment. The recommended treatment of 'strep' throat is set out in Table I.

Antibiotic	Mode of administration	Dose
Benratchine genüciffin	Intramapositar (kery- child ander obser- vetton for 30 minutes)	Single Alor > 30 kg 1.2 MU < 30 kg 100 000 - 900 030 U
CHE		
Phinoxymethyl penicillin	Otal	> 30 kg, 500 mg hal- or 250 mg gial. < 50 kg, 125 mg gial.
OR		
If history of puncillin aflengy moves		
Eigetheomycin	Otal	> 30 kg; 500 mg h.d. or 250 mg q.i.d. = 30 kg; 125 mg q.i.d.

## Secondary prevention of RF

Secondary prevention requires notification of the initial attack of RF (and the first diagnosis of rheumatic heart disease (RHD) if no history of RF) in some countries (e.g. South Africa), and drug treatment every 2 - 4 weeks (Table II). Intramuscular penicillin

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Amburac	Mode of administration:	Dane.
Benizithine penicilin	her amandar (keep ahili undar abserva- tion for 30 minutes)	Grown overy 2 - 4 works > 30 kg: 1.2 MU < 30 kg: 600 (800 - 900 000 U
CHE		
Phenonymethyt penantilin.	Ont	> 30 kg; 250 mg hal = 30 kg; 125 mg hal
CR.		
of history of periodillis aflancy		
Egythennychn	Chil	> 30 kg: 250 mg hd < 30 kg: 125 mg hd

Canagery of putient	Duration of moundary prevention
Patient without preven eachtis-	for 5 years other had attack, or used 18 years of age (whichever in languar)
Passent with mild cardina (add mired organistation or boiled cardino	for 10 years other the lint official or at least until 25 years of ago tachecur is longer?
More severe valvalar disease	Lillehong
After calse surgery	Litelong

should be encouraged in all patients; it is more effective than oral penicillin and results in better compliance. <sup>1,3</sup> The new World Health Organization recommendations for the duration of secondary prevention are presented in Table III.<sup>2</sup>

#### Conclusion

The persisting problem of RF and RHD may be due in part to the failure of health care professionals to adopt existing guidelines on the prevention of RF.<sup>5</sup> Penicillin, which is the cornerstone of any RF prevention programme, is cheap and widely available. The challenge is to bridge the gap between evidence and practice in countries where RF and RHD remain a major public health problem.

#### References

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240