

## ARTICLE

# Therapeutics for rheumatic fever and rheumatic heart disease

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## Keywords

rheumatic fever, rheumatic heart disease

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## SUMMARY

The goals of acute rheumatic fever therapy are to relieve symptoms, mitigate cardiac valve damage and eradicate streptococcal infection. Preventing future recurrences requires long-term secondary antibiotic prophylaxis and ongoing prevention of *Streptococcus pyogenes* (group A streptococcus) infections.

The recommended regimen for secondary prophylaxis comprises benzathine benzylpenicillin G intramuscular injections every four weeks. For patients with non-severe or immediate penicillin hypersensitivity, use erythromycin orally twice daily.

The goals of therapy for rheumatic heart disease are to prevent progression and optimise cardiac function. Secondary antibiotic prophylaxis can reduce the long-term severity of rheumatic heart disease.

Patients with rheumatic heart disease, including those receiving benzathine benzylpenicillin G prophylaxis, should receive amoxicillin prophylaxis before undergoing high-risk dental or surgical procedures. If they have recently been treated with a course of penicillin or amoxicillin, or have immediate penicillin hypersensitivity, clindamycin is recommended.

## Introduction

At least 8000 people in Australia currently have acute rheumatic fever or rheumatic heart disease. The conditions are notifiable in the Northern Territory, Western Australia, Queensland, South Australia and New South Wales. The Rheumatic Heart Disease Control Programs in these jurisdictions are important sources of support for healthcare providers.<sup>1</sup> Nationally, Rheumatic Heart Disease Australia provides educational resources for providers, patients and families.

Important changes were made to the therapeutic recommendations in the 2020 Australian Guideline for Prevention, Diagnosis and Management of Acute Rheumatic Fever and Rheumatic Heart Disease.<sup>1,2</sup> The duration of secondary prophylaxis after a diagnosis of acute rheumatic fever or rheumatic heart disease is now shorter for some people without cardiac involvement. Non-steroidal anti-inflammatory drugs (NSAIDs) such as naproxen or ibuprofen are now the recommended first-line drugs for arthritis instead of aspirin. Lidocaine (lignocaine) is no longer contraindicated with intramuscular injections of benzathine benzylpenicillin G. Endocarditis prophylaxis is now recommended for all patients with rheumatic heart disease, not just for Aboriginal and Torres Strait Islander people.

## What is rheumatic fever and who gets it?

In less than 10% of the population, infection with *Streptococcus pyogenes* (group A streptococcus) can trigger autoimmune conditions including acute rheumatic fever or acute post-streptococcal glomerulonephritis days to months after the initial infection.<sup>4</sup> Acute rheumatic fever is not a homogenous condition and shows high immunological<sup>5</sup> and clinical<sup>6</sup> diversity. It can also be subtle and mimic other conditions. There is no dedicated diagnostic test, and instead it is diagnosed using the Jones criteria.<sup>8</sup> These factors make the diagnosis highly challenging. In up to 75% of people with rheumatic heart disease, previous acute rheumatic fever was unrecognised.<sup>7</sup>

The abnormal immune responses characterising acute rheumatic fever chiefly occur in immature immune systems, with the peak incidence occurring at 5–14 years of age. The risk increases with repeated exposure to streptococci.<sup>8</sup> Most cases occur when the exposure risk is high, such as in crowded living conditions or when there is inadequate access to sanitation facilities and health care.<sup>9,10</sup>

Acute rheumatic fever also affects adults. Approximately 7% of notifications in Australia are in 35–44 year olds.<sup>11</sup> In Australia, nearly 50% of acute rheumatic fever cases and 70% of rheumatic heart disease diagnoses

# Rheumatic Therapeutics

**Clarence Edward Skinner**



## **Rheumatic Therapeutics:**

**Rheumatic Therapeutics** Sanford Harold Roth,1985      **Manual of physiological therapeutics** ,1912      *Advances in Anti Rheumatic Therapy* Kim D. Rainsford,1995-12-11 This work on advances in anti rheumatic therapy covers topics such as outcome measures in clinical trials of anti rheumatic drugs azapropazone AZP the mode of action of glucocorticoids and clinical trials of oral chondroitin sulphate in the treatment of osteoarthritis      *Materia Medica and Therapeutics: Vegetable kingdom, ed. by H.G. Piffard* Charles Douglas Fergusson Phillips,1879      *Therapeutics of Dry Hot Air* Clarence Edward Skinner,1914      A Manual of Electro-static Modes of Application, Therapeutics, Radiography, and Radiotherapy William Benham Snow,1903      A System of Ophthalmic Therapeutics Casey Albert Wood,1909      Aspirin and Related Drugs Kim D. Rainsford,2004-10-28 Reviewing over a century of aspirin research and use Aspirin and Related Drugs provides a comprehensive source of information on the history chemistry absorption in the body therapeutic effects toxicology elimination and future uses of aspirin Highlighting the historical evolution of the salicylates and the commercial development of      *A Manual of Pharmacology and Its Applications to Therapeutics and Toxicology* Torald Hermann Sollmann,1917

**The Journal of Electro-therapeutics** ,1901      **An Ephemeris of Materia Medica, Pharmacy, Therapeutics and Collateral Information** ,1898      *On the present state of therapeutics* James Rogers,1870      *Clinical Therapeutics* Dujardin-Beaumetz,1885      **A Text-book of Materia Medica, Therapeutics and Pharmacology** George Frank Butler,1906      New Drugs for Rheumatism Annika Meyers,Charles Fleming,2024-10-15 Rheumatism is a chronic disease that has a significant impact on the lives of millions of people worldwide However in recent decades medical research has made significant progress in improving treatment options for sufferers Today we not only have proven drugs at our disposal but also completely new therapeutic approaches that are revolutionizing the treatment of rheumatism The focus is not only on the successes of the past decades but above all on the pioneering drugs that are currently in clinical research and development From biologics and Janus kinase inhibitors to personalized therapy approaches The book provides insights into the variety of therapy options and explains the role played by new approaches such as the blockade of cytokines or the use of targeted kinase inhibitors It shows how the targeted use of biomarkers allows therapies to be tailored ever more precisely to individual patients and outlines the promising developments that are expected in the coming years This book offers a well founded yet easy to understand analysis of current and future possibilities in rheumatism therapy It shows how modern drugs can help to alleviate the symptoms of rheumatism improve quality of life and slow down the progression of the disease in the long term For sufferers and specialists alike this work is essential reading that not only provides information but also gives hope for a better future for people with rheumatism      Dissertation on the Salicyl Compounds in the Treatment of Acute Rheumatism Robert Hale Trotter,1901      *New Developments in Antirheumatic Therapy* K. D. Rainsford,G.P Velo,2012-12-06 At present we may be at the cross roads in the therapeutic approaches we have for the treatment of the 100 or more

rheumatic conditions This is because we now recognise that although some advances have been made with the development of a large range of non steroidal and steroidal drugs during the past two decades or so we now recognise that many if not all of these have rather limited effects on many of the disease processes which underlie the manifestations of the various rheumatic states Advances in molecular biology in the past 50 years have enabled these tools to be applied extensively for developing further our understanding of the rheumatic disease processes In some cases these molecular tools e.g. interferon interleukin 2 T cell antibodies have been directly employed as therapies themselves While the outcome from trials with such agents in rheumatoid arthritis in particular has not been as would have been hoped these results as with cyclosporin A and low dose methotrexate in the therapy of rheumatoid arthritis have given us important indications for the approach employing what are generally described as immunomodulators to control this disease But this may not be the same type of approach which is desirable for all types of rheumatic conditions Indeed even the way which the present range of drugs and other therapies are applied may not be the most effective and safe means of treating different types of arthritic conditions

**Management of Rheumatic Disorders** J. M. H. Moll, 2013-11-11 In general existing texts concerned with rheumatic With regard to the general plan of the book the therapy have either been addressed to specific aspects of chapters are largely self contained and can be read in treatment or have formed only part of more general any order However it is recommended that the in textbooks This book has therefore been written to fulfil introductory chapters Chapters 1, 2 and 4 should be a need for a convenient and comprehensive distillation read before those succeeding them If a more circuitous route is preferred each chapter is supplied with a list of material covering the various treatment entities the contents and a summary to aid swift appraisal A interrelationships between them and the wide potential generous system of cross references and some repetition for their application of salient points are also intended to help the reader who A further need for such a book stems from the fact uses the book as a reference source A summary of the that approaches to treatment and their associated whole book is given in the last chapter Section 12 10 research reports have continued to grow at a high rate in and contains conclusions about the present status of the recent years This is particularly so in relation to drug various approaches to therapy together with suggestions therapy and the task of reviewing this massive literature about the future

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