Acute rheumatic fever iap guidelines

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## Procedures that increase risk of Endocarditis

| DENTAL PROCEDURES                              | OTHER PROCEDURES   |  |  |
|--|--|--|--|
| Dental extractions                             | Tonsillectomy/adenoidectomy  |  |  |
| Periodontal procedures                         | Bronchoscopy with a rigid bronchoscope   |  |  |
| Dental implant placement                       | Surgery involving the bronchial mucosa   |  |  |
| Gingival surgery                               | Sclerotherapy of oesophageal varices   |  |  |
| Initial placement of orthodontic appliances    | Dilatation of oesophageal stricture  |  |  |
| Surgical drainage of dental abscess            | Surgery of the intestinal mucosa or biliary tract  |  |  |
| Maxillary or mandibular osteotomies            | Endoscopic retrograde cholangiography  |  |  |
| Surgical repair or fixation of a fractured jaw | Prostate surgery   |  |  |
| Endodontic surgery and instrumentation         | Cystoscopy and urethral dilatation   |  |  |
| Intra-ligamentary local anaesthetic injections | Vaginal delivery in the presence of infection,<br>prolonged labour or prolonged rupture of membranes |  |  |
| Dental cleaning where bleeding is expected     | Surgical procedures of the genitourinary tract in the presence of infection                          |  |  |
| Placement of orthodontic bands                 |  |  |  |



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## Revised Jones criteria, 2015

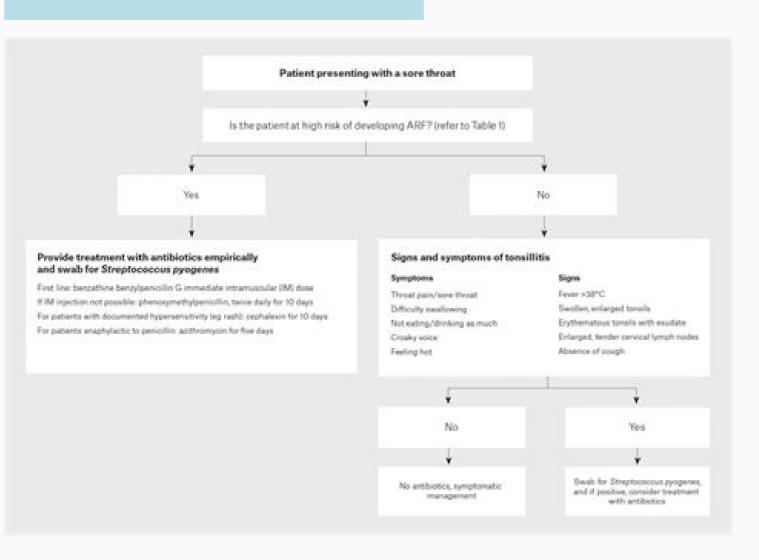
|   | Low risk population   | Moderate /high risk population  |   |
|---|---|---|---|
| Major criteria                                    |   |   | Evidence of recent<br>GAS infection   |
| Carditis<br>Arthritis                             | Clinical and/or subclinical  Polyarthritis  Chorea Erythema marginatum Subcutaneous nodules         | Clinical and/or<br>subclinical  Monoarthritis,<br>polyarthritis and/or<br>polyarthralgia<br>Chorea<br>Erythema marginatum<br>Subcutaneous nodules | Positive throat culture<br>or rapid streptococcal<br>antigen test<br>Elevated or increasing<br>streptococcal<br>antibody titer. |
| Minor criteria                                    |   |   |   |
| Arthralgia<br>Fever<br>Markers of<br>inflammation | Prolonged PR interval<br>Polyarthralgia<br>>38.5c<br>Peak ESR >60 mm/hr<br>and/or CRP >3.0<br>mg/dl | Prolonged PR interval Monoarthralgia >38c Peak ESR >30 mm/hr and/or CRP >3.0 mg/dl  |   |



## Management

- Treatment strategies can be divided into management
- acute attack,
  management of the current infection
- prevention of further infection and attacks.
   Management of the acute attack
- Single dose of benzyl penicillin 1.2 million U i.m.

  Oral phonoxymathylpenicillin 250 mg 6 hourly for
- Oral phenoxymethylpenicillin 250 mg 6-hourly for 10 days
   Penicillin-allergic: erythromycin or a cephalosporin
- Analgesia: optimally achieved with high doses of salicylates
- Treatment is then directed towards limiting cardiac damage and relieving symptoms.



Iap guidelines for rheumatic fever. Acute rheumatic fever treatment guidelines. Acute rheumatic fever guidelines 2020.

Guideline for diagnosis, management and secondary prevention of acute rheumatic fever and rheumatic fever (ARF) and rheuma Throat Management Guideline the following medication regimes have changed, but have not been updated in this document. Page reference Medication regime change in 2019 GAS Guideline Update13PhenoxymethylpenicillinTwice daily1-3 times daily1-2 times daily2-3 times daily1-2 times daily1-2 times daily2-3 times daily1-2 times daily1-2 times daily2-3 times daily1-2 time 70Erythromycin max daily dose1000mg1600mg 1. ACUTE RHEUMATIC FEVER By - Dr. Akshat Khemka 2. What is Rheumatic fever? Rheumatic fever is an immunological disorder that follows infectious, non-suppurative sequelae of streptococcal pharyngitis and occurs 10days to several weeks after the attack of sore throat. 3. Epidemiology Age group: 5-15 years Gender: Incidence is equal in males and females. Mitral valve disease and chorea are common in females, and aortic valve involvement is common in males. Prevalence: 0.6/1000 Attack rate: 0.3% to 3% in children who are not treated or inadequately treated 4. Epidemiology Predisposing factors - low socioeconomic status, overcrowding, poor nutrition, poor hygeine Genetic predisposition - certain HLA markers and a specific B-cell alloantigen (D8/17) 5. Epidemiology Incidence of rheumatic fever is on the decline in developed countries, attributable mainly to A - antibiotic coverage has increased B - better housing C - conditions (economic & health) have improved D - decreased bacterial virulence E - easy access to medical care G - GAS strains prevalence has shifted from rheumatogenic to non- rheumatogenic to non- rheumatogenic form colonies is associated with rheumatogenecity. Type 18 is the most virulent mucoid strain. Genetic predisposition Autoimmunity 7. Pathogenesis theory 8. Cytotoxicity theory a GAS toxin may be involved in the pathogenesis of acute rheumatic fever and rheumatic heart disease. Streptolysin O has a direct cytotoxic effect on mammalian cells in tissue culture. Drawback - inability to explain the latent period between GAS pharyngitis and the onset of acute rheumatic fever to other illnesses produced by immunopathogenic processes. Explains the latent period between between GAS pharyngitis and acute rheumatic fever Immunologic cross reactivity between GAS components (M protein, protoplast membrane, cell wall group A carbohydrate, capsular hyaluronate) and specific mammalian tissues (heart, brain, joints) 10. Immune-mediated pathogenesis More support for an autoimmune phenomenon (Type II hypersensitivity reaction) During strep infection, antigen presenting cells to induce production of antibodies against the Streptococcal cell wall. These antibodies can also interact with other cells in the body (for example, myocardium or joints, etc) producing the symptoms responsible with acute rheumatic fever. 11. Clinical manifestations It is commonly said that rheumatic fever 'bites the heart, licks the joint and kicks the brain'. Symptoms occur 1-5 weeks (average 2-3 weeks) after an initial attack of pharyngitis. History of preceding sore throat is present in 50% people. Fever, anoexia, lethargy, malaise may be present. Family history of rheumatic fever is often positive. 12. Revised Duckett Jone's Criteria Major manifestations (ACCESs) 1. Arthritis 2. Carditis 3. Chorea 4. Erythema marginatum 5. Subcutaneous nodules 13. Revised Duckett Jone's Criteria Minor manifestations 1. Clinical features - arthralgia, fever 2. Laboratory features - elevated acute phase reactants (ESR, CRP), polymorphonuclear leucocytosis (WHO update 2004) - Prolonged PR interval 14. Revised Duckett Jone's Criteria Supporting evidence of antecedent Group A streptococcal infection - Positive throat culture or rapid streptococcal antigen test - Elevated or increasing streptococcal antibody titer (anti-DNase B added in WHO update 2004) 15. Revised Duckett Jone's Criteria If supported by evidence of preceding group A streptococcal infection, the presence of two major manifestations or of one major and two minor manifestations or for a cute rheumatic fever. 16. Special circumstances in which diagnosis of acute rheumatic fever can be made without strict adherence to the Jones criteria 1. Chorea - may occur as the only manifestation of acute rheumatic fever (other causes have to be ruled out) 2. Indolent carditis - insidious or late-onset carditis; patient comes to medical attention months after the onset of acute rheumatic fever 3. Rheumatic fever recurrence - in the presence of a documented RHD, even the presence of supportive evidence of previous streptococcal infection suggests recurrence. (In the presence of supportive evidence of previous streptococcal infection suggests recurrence.) 2 major or 1 major & 2 minor criteria + supportive evidence of previous streptococcal throat infection 2. Recurrence of ARF in a patient without established heart disease: 2 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient with established heart disease: 2 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient with established heart disease: 2 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease: 2 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease: 2 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease: 3 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease: 3 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease: 3 minor criteria + supportive evidence of previous streptococcal throat infection 3. Recurrence of ARF in a patient without established heart disease in a patient wi criteria + supportive evidence of 18. Application of Jones criteria 4. Rheumatic chorea & insidious onset rheumatic carditis: no requirement of other major manifestations or supportive evidence of previous streptococcal throat infection 5. Chronic valve lesions of RHD: major manifestations are always stronger than one major plus two minor manifestation of Jones criteria 7. Arthralgia or a prolonged PR interval cannot be used as a minor manifestation when using arthritis and carditis, respectively, as a major manifestation. 8. The absence of evidence of an antecedent group A streptococcal infection is a warning that acute rheumatic fever is unlikely (except when chorea is present). 20. Application of Jones criteria 9. The vibratory innocent (Still's) murmur is often misinterpreted as a murmur of MR and thereby is a frequent cause of misdiagnosis (or overdiagnosis) of acute rheumatic fever. The murmur of MR is a regurgitant-type systolic murmur (starting with the S1), but the innocent murmur is low pitched and an ejection type. A cardiology consultation during the acute phase minimizes the frequency of misdiagnosis. 10. The possibility of the early suppression of full clinical manifestations should be sought during the history taking. Subtherapeutic doses of aspirin or salicylate-containing analgesics may suppress full manifestations. 21. Arthritis 22. Arthritis 22. Arthritis Seen in 75% of patients with acute rheumatic joints are generally hot, red, swollen and exquisitely tender 23. Arthritis Joint involvement is characteristically migratory in nature - fleeting/migratory polyarthritis Dramatic response to salicylates (absence of such a response should suggest an alternative diagnosis) Typically not deforming Inverse relationship between the severity of arthritis and the severity of cardiac

| involvement Jaccoud's arthritis is a progressive deforming arthropathy of salicylates E - Early manifestation of rheumatic fever F - Fleeting polyar - Migratory polyarthritis 26. CARDITIS 27. CARDITIS Seen in 50-60% of followed by aortic and tricuspid valves in that order 28. CARDITIS Valvul Carditis - Signs 1. Endocarditis - pansystolic murmur of MR, early diastoli heart blocks 3. Pericarditis - chest pain, pericardial friction rub, pericardi Initially there is MR which is later followed by fibrosis of the valve leading that the residual process of the valve leading that the residual salary for the line of valve classics. | rthritis G - Good prognosis - subsides 25. Features of rheumatic a patients with acute rheumatic fever Carditis and resultant chronic lar insufficiency is characteristic of both acute and convalescent stic murmur of AR 2. Myocarditis - cardiomegaly, tachycardia disproial effusion 31. Chest radiograph of an 8yr old patient with acute cg to MS. McCallum's patch is seen on the posterior wall of the left  | rthritis I – Involves the large joints especially knees, ankles, elbows as rheumatic heart disease are the most serious manifestations of acut ages of acute rheumatic fever, whereas valvular stenosis usually appearance to fever, unexplained CCF, Carey Coomb's murmur (delay ardit 32. Carditis – Pathology Aschoff body in the atrial myocardium attrium above the mitral valve. Often this forms a nidus for infective of   | and wrists J - Joints are red, swollen and tender for a day to a week K - e rheumatic fever Characterized by pancarditis Endocarditis (valvulitis ears several years or even decades after the acute illness. 29. Carditis - ded diastolic murmur due to mitral valve involvement), S3 gallop due to dis the most characteristic feature of acute rheumatic fever. Left sided vendocarditis. 33. Carditis - Pathology Rheumatic vegetations are small l  | Knee joint is most commonly involved L - Large joints are involved M ) is a universal finding Mitral valve is most commonly affected Symptoms Dyspnoea due to CCF Syncope Pain due to pericarditis 30. ardiac failure, S1 muffled or soft, conduction defects, arrhythmias, alves are commonly involved due to greater strain on these valves. beaded vegetations like warty nodules formed due to aggregation of   |
|--|--|--|--|---|
| platelet thrombi. Seen along the line of valve closure Surface exposed to of granulomatous inflammation with so-called "Aschoff nodules" seen best prominent nucleoli. Scattered inflammatory cells accompany them and ca Atrhralgia – 33% No joint involvement – 50% 38. Association of carditis vinvolvement 5-8% Tricuspid valve involvement 7-9% Pulmonary valve involvement common symptom in older children. Orthopnoea, nocturnal dyspnoe Regurgitation Most common valvular involvement in children with rheum hallmark of MR is a regurgitant systolic murmur starting with S1, grade 2   | t in myocardium. These are centered in interstitium around vessels in be mononuclear or occasionally neutrophils. 36. Carditis - Pathowith extracardiac manifestations Polyarthritis - 60-75% Chorea - olvement Very rare 40. Carditis sequelae (chronic) Mitral stenosises, or palpitation is present in more severe cases. Opening snap, lonatic heart disease Mitral valve leaflets are shortened because of for 2 to 4/6, at the apex, with good transmission to the left axilla (best   | s. 35. Carditis - Pathology Here is an Aschoff nodule at high magnifical logy Another peculiar cell seen with acute rheumatic carditis is the A 60-75% Subcutaneous nodules - >95% 39. Carditis sequelae (chronic Takes longer duration to develop after an attack of ARF Fibrosis of mow pitched, rumbling mitral diastolic murmur with pre systolic accentifibrosis, resulting in mitral regurgitation Patients are usually asymptodemonstrated in the left decubitus position). A short, low frequency described the substant of the left decubitus position.   | ation. The most characteristic component is the Aschoff giant cell. Several states and the Aschoff giant cell. Several states are the Aschoff giant gian | al appear here as large cells with two or more nuclei that have 17. Association of severe carditis with joint involvement Arthritis – 10% Aortic valve involvement (+MV) 20-25% Isolated aortic valve ordae & papillary muscles Dyspnoea with or without exertion is the tenosis 42. Mitral valve stenosis 43. Carditis sequelae (chronic) Mitral account of and palpitation (caused by atrial fibrillation) develop. The result of shortening of the LV ejection and early closure of the 44.  |
| Carditis sequelae (chronic) Mitral regurgitation 45. Mitral valve regurgitation trial valve as seen from above left atrium. The mitral valve demonstrates movement and hypotonia Psychiatric signs - emotional lability, poor school arms are extended - wormian darting movements of the tongue upon protomarginatum 53. Erythema marginatum 54. Erythema marginatum Early revidence of antecedent streptococcal infection (1) Increased or rising antimillilitre) Children 5-15 years >333 Adults >250 Significant levels of ASO maintained for 2-3 months before declining. 20% case may remain positive  | es the typical "fish-mouth" shape due chronic rheumatic scarring. 4 sol performance, hyperactivity, separation anxiety, obsessions, and trusion - examination of handwriting to evaluate fine motor movem manifestation Rare (102F) Laboratory - elevated acute phase readistreptolysin O (ASO) titer - values above 333 Todd units are signiful titer in children and adults 63. Supporting evidence of anteceden   | 8. Chorea 49. Chorea Seen in 10-15% of patients with acute rheumal compulsions Exacerbated by stress and disappear 50. Chorea Clinic ents 51. Chorea More common in prepubertal girls (8- 12 yrs) Self-lictants (ESR, CRP) - prolonged PR interval – earliest sign of conduction icant in children - sensitivity is 80% - rising titer is strong evidence of t streptococcal infection The blood titers of antistreptolysin-O raised at the contract of the co | tic fever Latent period - 3-6 months A/k/a Sydenham's chorea, St. Vitus all maneuvers to elicit features of chorea include - demonstration of milk miting - lasts for 2-6 weeks Spontaneous recovery occurs within a few and blocks 60. Normal PR interval in different age groups Age group (years recent streptococcal infection 62. Supporting evidence of antecedent stagainst extra cellular antigens of streptococci appear in 10 - 15 days and  | ' dance Neuropsychiatric disorder Neurologic signs - choreic maid's grip - spooning and pronation of the hands when the patient's nonths Rarely leads to permanent neurologic sequelae 52. Erythema PR interval (seconds) 3-12 0.16 12-14 0.18 >17 0.20 61. Supporting reptococcal infection Age group Significant levels (Todd units per I reach a peak in 3-4 weeks after the acute infection, and usually are  |
| titers with secondary prophylaxis (Benzathine penicillin). To show the risi Anti-Dnase B Titer Age group Normal levels Preschool children 1:60 units detection test 66. Supporting evidence of antecedent streptococcal infection 95% 95% 80% 67. Other manifestations of rheumatic disease Fatigue Epmay last for 2 to 6 months. 2. Arthritis subsides within a few days to seven arthritis Viral myocarditis Huntington chorea Reactive arthritis (Shigella, murmurs Gonococcal infection 70. Differences between Rheumatic Arthritimitral regurgitation MV repair: early intervention MV replacement: one   | s School children 1:480 units Adults 1:340 units 65. Supporting eviction 80-85% patients have an elevated titer if a single antibody is no pistaxis. Abdominal pain Anemia Skin rashes Respiratory problem ral weeks, even without treatment, and does not cause permanent. Salmonella, Yersinia) Viral pericarditis Wilson disease Serum sick it is and Rheumatoid Arthritis Features Rheumatic Arthritis Rheumatic A | dence of antecedent streptococcal infection (3) Positive throat culture neasured 95-100% patients have an elevated titer if 3 different antibous such as pneumonia, pleuritis, pleurisy, pleural effusion 68. Clinical damage. 3. Chorea gradually subsides in 6 to 7 months or longer and ness Infective endocarditis SLE Sickle cell disease Kawasaki disease atoid Arthritis Age Children>3yrs, usually 5-15 yrs May occur in child   | e – sensitivity of 25% - 40% (4) Recent scarlet fever/streptococcal sore the odies are measured – ASO, Anti-Dnase B & antihyaluronidasePOLYARTH course 1. Only carditis can cause permanent cardiac damage. Signs of a usually does not cause permanent neurologic 69. Differential diagnosis Cerebral palsy Malignancy Congenital heart disease Tics SLE Mitral value 60ml/m2 -Radius: wall thickness ratio at end systole multiplied by systole multip | roat - within previous 45 days (5) Rapid streptococcal antigen RITIS CARDITIS CHOREA ASO 80% 80% 30% ASO + Anti- Dnase B mild carditis disappear rapidly in weeks, but those of severe carditis of acute rheumatic fever ARTHRITIS CARDITIS CHOREA Rheumatoid we prolapse Hyperactivity Lyme disease (Borrelia burgdorferi) Innocent stolic pressure: 195mmHg -PA pressure> 50mmHg 107. Surgery in  |
| decongestive, digoxin 5. Anticoagulation: Patients with atrial fibrillationis not a good choice in these cases & must be avoided. 110. Surgery in an Prognosis of acute rheumatic fever The presence or absence of permanen of residual heart disease. 2. Recurrence of rheumatic fever: The severity followed 114. Primary prevention Appropriate antibiotic therapy institute therefore do not seek medical treatment. Another 30% of patients develop documented rheumatic heart disease. The purpose is to prevent colonization.   | INR 2-2.5 6. Surgical intervention in symptomatic patients. 7. SBI ortic stenosis Indications: Symptomatic patient Mean gradient >4 at cardiac damage determines the prognosis. The development of reformal of valvular involvement increases with each recurrence. 3. Regressed before the 9th day of symptoms of acute GAS pharnygitis is high pacute rheumatic fever without symptoms of streptococcal pharyntion or infection of the upper respiratory tract with group A beta-h   | E prophylaxis 109. Aortic valvular disease Isolated aortic stenosis is leading to the solution of the prophylaxis 109. Aortic valve area 600mmHg Modality: prosthetic valve replesidual heart disease is influenced by the following three factors: 1. Cosion of heart disease: Evidence of cardiac involvement at the first attally effective in preventing 1st attacks of acute rheumatic fever from the gitis. 115. Secondary prevention Secondary prevention of rheumatic emolytic streptococci and the development of recurrent attack of rheumatic streptococci.   | less common than combined lesion. Rheumatic AS: Result of balloon value accement 112. Prosthetic valves used Starr-Edward (caged ball & socked Cardiac status at the start of treatment: The more severe the cardiac inversed may disappear in 10% to 25% of patients 10 years after the initial and episode. However, primary prevention is not possible in all patients fever is defined as the continuous administration of specific antibiotics to tumatic fever. 116. Secondary prevention - drugs Agent Dose Mode Dose   | tyuloplasties are bad and valve replacement is choice. Ross procedure type) St. Jude (tilting disc, bileaflet) Bjork-Shiley (tilting disc) 113. olvement at the time the patient is first seen, the greater the incidence ttack. Valvular disease resolves more frequently when prophylaxis is because about 30% of the patients develop subclinical pharyngitis and patients with a previous attack of rheumatic fever, or well-interval Benzathine Penicillin G 27kg (60lb) 1.2 million units |
| Intramuscular Once every 21 days Penicillin V Children 250 mg b.i.d. Ora Rheumatic fever without carditis 5yrs from the last attack or until 21yrs of (persistent valvular disease); following cardiac surgery As per WHO 2004 deformities of the cardiac valves or replacement of the valves along with only the presence of IgE antibodies for the major or minor penicillin deter 10,000 U/ml to be given for sensitivity test. Prick test must be used befor at volar surface of forearm or lateral surface of arm). 121. How to do sens to intra dermal injection. The patient should not have taken antihistamine.                               | of age, whichever is longer (18yrs acc. to IAP) Rheumatic fever with 4 update: Lifelong prophylaxis or atleast till age of 40yrs 118. Tert rehabilitation to prevent further damage 119. Sensitivity testing forminants at the time of application and does not predict the future re intra dermal test for the patients getting their first injection (A distilution of A wheel 2 mm more than control or 4 mm more than in   | h carditis but without residual heart disease (no valvular disease) 10y ciary prophylaxis. To prevent development of infective endocarditis in or benzathine penicillin. Due to the fact that BPG is not suitable for interesting development of IgE-mediated reactions during subsequent courses of lrop of Benzyl Penicillin 10,000 U/ml to be kept on forearm volar surfaintial edema must be taken as positive test. Test reading time: 15-30 is   | rs from the last attack or until 21yrs of age, whichever is longer (25yrs a children with rheumatic valvular lesions Prophylactic antibiotics are given tradermal injections sensitivity testing, current IAP recommendations are penicillin. This method is not capable of detecting all cases of possible ace-scratch with bifurcated needle). Then Intradermal test with both Beminutes Rest of injections must be preceded by Benzyl Penicillin intradermal.   | acc. to IAP) Rheumatic fever with carditis and residual heart disease ven prior to any surgical procedure. Also includes surgical correction of e to use benzyl penicillin for skin testing. A penicillin skin test predicts penicillin allergy. 120. How to do sensitivity test. Benzyl Penicillin enzyl Penicillin and control saline must be done (approximately 0.02ml ermal test. Control saline helps in recognizing the initial oedema due   |
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