



Guidance to be updated as situation evolves updated 9/12/22

#### Updated:

- 9/12/22: Updated national guidance with PenV first line
- 8-9/12/22: Penicillin duration updated to 10 days as per SCAN guidelines
- 8/12/22: Advice from Specialist Pharmacy Service (SPS) about using solid oral dosage form antibiotics in children
- 7/12/22: Updated SCAN guidelines with reduced threshold of antibiotics

Given current increased rates in the community of Group A Streptococcus and admissions with invasive Group A Streptococcal iGAS) complications guidance below is in line with **UKHSA advice and <u>SCAN antibiotic</u>** guidance until rates decrease.

- 1. Reduced threshold for antibiotics
- 2. Antibiotic choices if supply shortage
- 3. When to take a swab
- 4. Notify the local health protection team promptly within 3 days by completing a <u>notification form</u> if a diagnosis of scarlet fever is suspected.
- 5. Clear Safety netting for early detection of streptococcal complications <u>Scarlet Fever (Group A Strep) :: Frimley</u> <u>HealthierTogether (frimley-healthiertogether.nhs.uk)</u>
- 6. <u>Clear Safety netting</u> for those not prescribed antibiotics
- 7. Isolation guidelines for schools and nurseries
- 8. <u>Referral guidance to secondary care</u>
  - a. If meet criteria as per fever pathway OR
  - b. Signs of iGAS OR
  - c. Signs of post streptococcal complications

#### Group A Streptococcus Scarlet Fever presents with:

- 1. Prodromal symptoms: if seen at this stage safety netting is key
- 2. Sore throat
- 3. Fever
- 4. Painful cervical lymphadenopathy
- 5. Strawberry tongue
- 6. The rash is often accentuated in flexural creases but tends to spare the palms and soles of the feet. The redness may be harder to see on brown and black skin.

The rash is not pruritic but has a characteristic sand-paper feel to it. The rash does not appear on the face, but the cheeks can look red but pale around the mouth. The flushed face may appear more 'sunburnt' on darker skin.

7. Peeling skin on the fingertips, toes and groin area, as the rash fades.

#### If the child only has a runny nose, cough or diarrhoea, without the other signs they are unlikely to have scarlet fever.



## Group A Streptococcus 2022 outbreak In Children

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#### Complications are iGAS

- 1. Sepsis
- 2. Streptococcal pneumonia
- 3. Lymphadenitis
- 4. Cellulitis, necrotizing fasciitis, and streptococcal toxic shock syndrome
- 5. Endocarditis, septic arthritis, osteomyelitis and liver abscess
- 6. Meningitis and cerebral abscess
- 7. Mastoiditis, peritonsillar abscess

#### Children who have recently had chickenpox or influenza are more likely to develop more serious infections.

#### Post complications include:

- 1. Acute post-streptococcal glomerulonephritis (typically 2 or more weeks after the acute infection)
- 2. Acute rheumatic fever with endocarditis and reactive arthritis

## 1. <u>Reduced threshold for antibiotics</u>

#### TONSILIITS

Most young children presenting with tonsillitis have a viral aetiology. No significant difference in pain score at day 3 in children treated with antibiotics compared to those treated with placebo. Antibiotic NNT greater than 4000 to prevent one case of quinsy.

**Optimise management of pain** - regular paracetamol or ibuprofen for pain (right dose for age or weight at the right time and maximum doses for severe pain).<sup>1,2</sup>

Base decision about antibiotic treatment on **FeverPAIN**<sup>1,2</sup> score (1 point for each of fever, purulence, attend within 3 days of onset or less, severely Inflamed tonsils, no cough or coryza):

- Score 0-1: less than 20% likelihood of isolating streptococcus: use NO antibiotics
- Score 2: 20-40% likelihood of isolating streptococcus, use back up/delayed antibiotic OR NO antibiotic
- Score 3 or more: over 40% likelihood of isolating streptococcus, use immediate antibiotic

Score validated in children 3 years and over - younger children are less likely to have a bacterial aetiology and are less likely to develop complications.

(7/12/22: The scores have been updated in light of increased Invasive Group A Strep incidence and deviate from NICE guidance)

#### SCARLET FEVER:

All require antibiotic treatment as below for 10 days.

# 2. Antibiotic choice for potential Group A Strep infections

8/12/22: Updated guidance 'off label' if oral suspension not available: <u>https://www.sps.nhs.uk/articles/using-solid-oral-dosage-</u> form-antibiotics-in-children/

9/12/22: Updated National Guidance below. Updated SCAN Guidelines with change from first line amoxicillin awaited.

 Phenoxymethylpenicillin remains first line due to its high effectiveness, no reported resistance, and narrow spectrum of activity. In the event of non-availability, amoxicillin, macrolides and cefalexin are alternative agents in decreasing preference.

• In non severe-penicillin allergy, macrolides are the option of choice, with cefalexin as an alternative.

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• In severe penicillin allergy, macrolides remain the option of choice. Co-trimoxazole is an option in the event of macrolide nonavailability and penicillin anaphylaxis. A severe penicillin allergy is when there is a history of allergy to penicillin with effects that are clearly likely to be allergic in nature such as anaphylaxis, respiratory distress, angioedema or urticaria.

• Both cefalexin and co-trimoxazole are broad-spectrum agents that may promote the development of antimicrobial resistance. Resistance to macrolides and co-trimoxazole is currently 7% and 10% respectively.

Antibiotic treatment length for sore throat should follow NICE guidance. For phenoxymethylpenicillin: "Five days of
phenoxymethylpenicillin may be enough for symptomatic cure, but a 10-day course may increase the chance of microbiological cure".
 In the current circumstances clinicians should be aware that a five day course will be appropriate for many children, at the discretion of
the treating clinician. Scarlet Fever 10 days of treatment.

• Children 5 years and above, may be able to swallow tablets/capsules signpost parent/carer to the <u>pill swallowing information on</u> the Healthier Together website).

• If required, NHS Specialist Pharmacy Service have provided advice on how to give doses by dispersing or crushing tablets, or opening capsules. Use in this way is outside the product license ('off-label'). <u>https://www.sps.nhs.uk/articles/using-solid-oral-dosage-form-antibiotics-in-children/</u>

# 3. Consider taking a throat swab in:

- a. diagnostic uncertainty
- b. allergic to penicillin (to determine antimicrobial susceptibility)
- c. treatment failure (persistence of clinically relevant symptoms)
- 4. Notify the local health protection team promptly within 3 days by completing a <u>notification form</u> if a diagnosis of scarlet fever is suspected.

5. Clear Safety netting for early detection of streptococcal complications <u>Scarlet Fever (Group A Strep) :: Frimley</u> <u>HealthierTogether (frimley-healthiertogether.nhs.uk)</u>

## 6. <u>Clear Safety netting</u> for those not prescribed antibiotics

## 7. Isolation guidelines for schools and nurseries

Advise the family to keep child away from school/nursery for 1 day after starting antibiotic treatment, wash their hands frequently, avoid sharing eating utensils and towels, dispose of tissues promptly, and avoid contact with anyone at particular risk of infection (e.g. people with valvular disease or who are immunocompromised).

# 8. Referral guidance to secondary care a. If meet criteria as per <u>Fever Pathway</u> OR b. Signs of iGAS OR c. Signs of post streptococcal complications

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