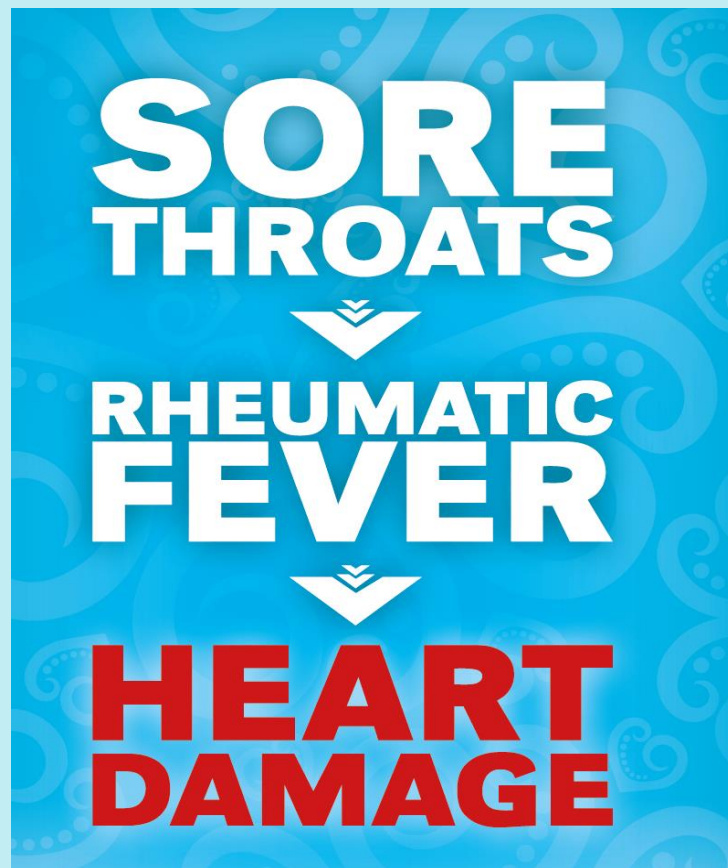


Rheumatic Fever Prevention in the Waikato

Waikato PHO's

Michelle Morley
Clinical Nurse Specialist
Population Health
Waikato District Health Board



Preventing Rheumatic Fever

Population
Health

Waikato District Health Board

Overview

- Rheumatic Fever refresher
- Waikato rapid response STM programme
- Overview of the rapid response processes
- Resources and links

How does a sore throat cause heart damage?

Sore throat

20%



GAS throat infection

Acute Rheumatic Fever

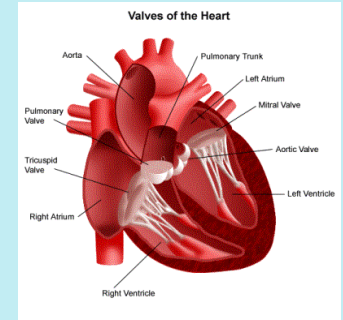
(0.3 – 3%)

<9 Days

- ☹️ sore or swollen joints
- ☹️ a skin rash
- ☹️ a fever
- ☹️ stomach pain
- ☹️ fatigue
- ☹️ jerky movements

80%

Damaged heart valves/
carditis



Rheumatic Fever



- RHF mostly eradicated in developed nations
- NZ still has high rates of RHF, disproportionately affecting Maori and Pacific families
- RHF can result in damaged heart valves, decreased life expectancy and loss of life

RHF is completely preventable by correct detection and treatment of GAS sore throats



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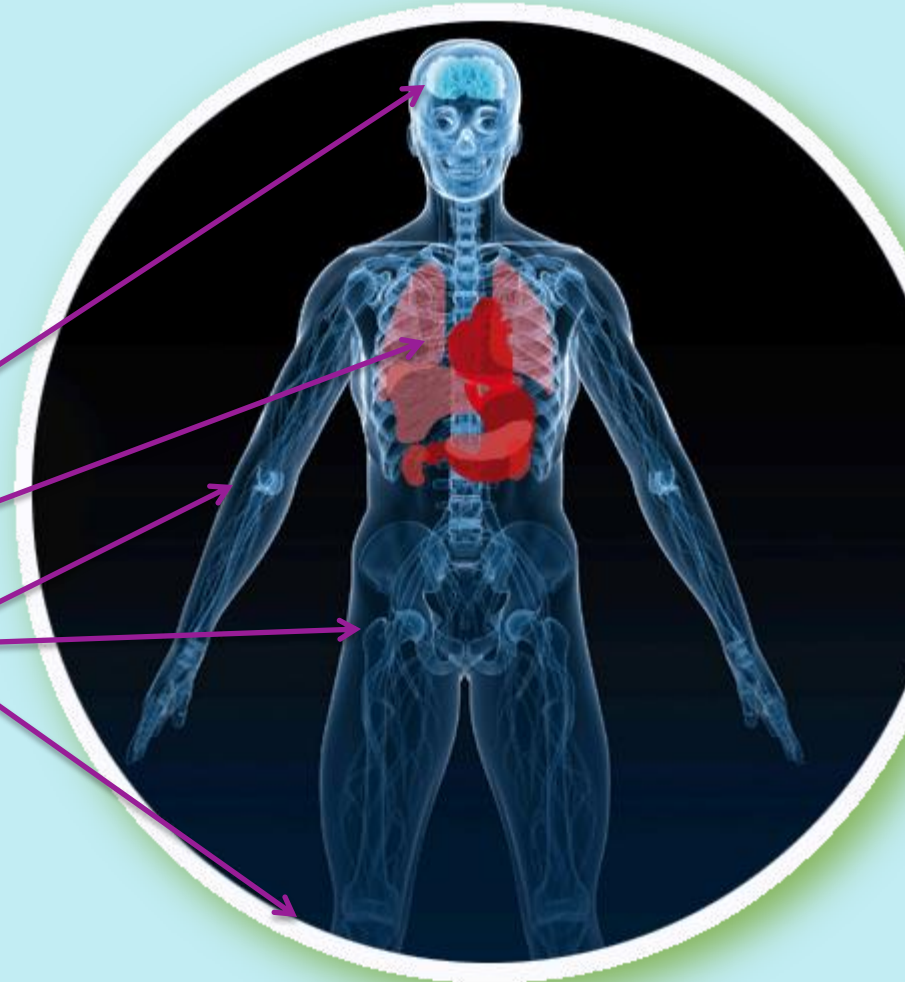
How does rheumatic fever affect the body?

Acute rheumatic fever
affects 3 organ systems

Brain

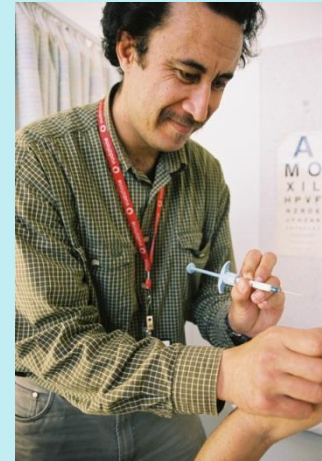
Heart

Joints (arthritis)



How does Rheumatic Fever affect children's lives?

- Secondary prophylaxis – 13 injections (one every 28 days)/year
- Education – DN once a month
- Dental Review – twice a year
- Authority completed once a year
- Details updated on register once a year
- Clinic reviews
- Echocardiography - variable depending upon severity
- Influenza vaccine for medium to high risk - annually
- Pneumococcal vaccine recommended for medium or high risk – 5 yearly



- Enrolled with PHO



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Preventing Rheumatic Fever

**“IT’S NOT COOL
TO TAKE THE RISK”**



Warm, healthy homes – Whare Ora Programme

Detecting and treating Group A Strep sore throats

Improving access to primary health care services

Improving awareness

 **STOP
SORE THROATS
HURTING HEARTS**

Preventing Rheumatic Fever

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WHARE ORA

Waikato Healthy Homes Programme

<https://www.waikatodhb.health.nz/your-health/wellbeing-in-the-waikato/whare-ora>



MOULD KIT



**KIDSCAN
BLANKET**



**SMOKE
ALARM**



**CURTAINS &
RAILS**



**PORTABLE
HEATING**



BEDS



PRODUCTS

**FIXED
HEATING**



**DRAUGHT
STOPPERS**



INSULATION



BEDDING



**OUTLET
COVERS**



**DRAUGHT
TAPE**





SERVICES



Eligibility criteria

WHARE ORA REFERRAL FORM

For a whanau to be eligible for the Whare Ora Waikato Healthy Homes Programme they must meet all of the criteria in one group. Referrals can be sent to whareora@waikatodhb.health.nz

Child Name:	Child DOB:	Child age:	Child NHI:	Child ethnicity:	Child gender <input type="checkbox"/> M <input type="checkbox"/> F
Caregiver:	Relationship to child:		Consent given:		
Address:	Area:	Phone:	Mobile:	Whanau Email:	
Type of housing: <input type="checkbox"/> Housing New Zealand <input type="checkbox"/> Private rental <input type="checkbox"/> Home owner <input type="checkbox"/> Whanau owned home <input type="checkbox"/> Trust Home <input type="checkbox"/> Living with other whanau <input type="checkbox"/> Other					
Referrer Name :		Referrer Contact:		<input type="checkbox"/> Health Need:	

GROUP 1 HOSPITAL ADMISSION (0-5 years)	GROUP 2 SOCIAL (0-5 years)	GROUP 3 PREGNANT MOTHER/ NEW BORN	GROUP 4 RMF/HOSPITAL ADMISSION (0-14 years)	GROUP 5 3 POSITIVE THROAT SWABS
<input type="checkbox"/> Does the parent or caregiver have a CSC card, or are they eligible for one?	<input type="checkbox"/> Does the parent or caregiver have a CSC card, or are they eligible for one?	<input type="checkbox"/> Does the parent or caregiver have a CSC card, or are they eligible for one?	<input type="checkbox"/> Does the parent or caregiver have a CSC card, or are they eligible for one?	<input type="checkbox"/> Does the parent or caregiver have a CSC card, or are they eligible for one?
<input type="checkbox"/> Does the whanau live in Waikato DHB catchment area?	<input type="checkbox"/> Does the whanau live in Waikato DHB catchment area?	<input type="checkbox"/> Does the whanau live in Waikato DHB catchment area?	<input type="checkbox"/> Does the whanau live in Waikato DHB catchment area?	<input type="checkbox"/> Does the whanau live in Waikato DHB catchment area?
<input type="checkbox"/> Is one member of the household a New Zealand citizen or permanent resident?	<input type="checkbox"/> Is one member of the household a New Zealand citizen or permanent resident?	<input type="checkbox"/> Is one member of the household a New Zealand citizen or permanent resident?	<input type="checkbox"/> Is one member of the household a New Zealand citizen or permanent resident?	<input type="checkbox"/> Is one member of the household a New Zealand citizen or permanent resident?
<input type="checkbox"/> Was a 0 to 5 year old living in the home hospitalised with one of the following: <input type="checkbox"/> Pneumonia <input type="checkbox"/> Acute bronchiolitis <input type="checkbox"/> Acute Bronchitis <input type="checkbox"/> Unspecified acute LRTI <input type="checkbox"/> Bronchiectasis <input type="checkbox"/> Meningococcal infection <input type="checkbox"/> Bacterial meningitis <input type="checkbox"/> Viral meningitis <input type="checkbox"/> Meningitis <input type="checkbox"/> Rheumatic fever <input type="checkbox"/> Acute nephritic syndrome <input type="checkbox"/> Unspecified nephritic syndrome <input type="checkbox"/> Sepsis due to strep, group A	<input type="checkbox"/> Does this whanau have a child 0 to 5 years old and meet at least TWO of the following risk factors: <input type="checkbox"/> Caregiver has a corrections history <input type="checkbox"/> Mother with no formal education <input type="checkbox"/> Long term beneficiary <input type="checkbox"/> Child Youth and Family finding abuse or neglect	<input type="checkbox"/> Does the whanau have a pregnant woman or new born baby in the home?	<input type="checkbox"/> Is there at least two people aged 0-19 living in the home <input type="checkbox"/> Is there evidence of structural or functional crowding <input type="checkbox"/> Was a 0 to 14 year old living in the home hospitalised with one of the following: <input type="checkbox"/> Pneumonia <input type="checkbox"/> Acute bronchiolitis <input type="checkbox"/> Acute Bronchitis <input type="checkbox"/> Unspecified acute LRTI <input type="checkbox"/> Bronchiectasis <input type="checkbox"/> Meningococcal infection <input type="checkbox"/> Bacterial meningitis <input type="checkbox"/> Viral meningitis <input type="checkbox"/> Meningitis <input type="checkbox"/> Rheumatic fever <input type="checkbox"/> Acute nephritic syndrome <input type="checkbox"/> Unspecified nephritic syndrome <input type="checkbox"/> Sepsis due to strep group A <input type="checkbox"/> Skin Infections <input type="checkbox"/> URTI	<input type="checkbox"/> Is there at least two people aged 0-19 living in the home <input type="checkbox"/> Is there evidence of structural or functional crowding <input type="checkbox"/> Have there been 3x positive Strep throat swabs in the whanau in a 3 month period?

Referral to Whare Ora



Send

From

Erana@isawesome.com

To...

Whareora@waikatodhb.health.nz

Cc...

Bcc...

Subject:

Whare Ora Referral

Child Name: Erana Severne

Child NHI: HNI333

Parent Name: Shelley Campbell

Relationship to Child: Mother

Child DOB: 3/5/1990

Child illness: RMF child

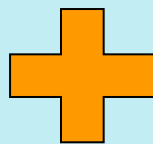
information about whanau: Whanau have no heating, Mother has CSC card, high health needs, six children in home, No insulation.

Kind regards,

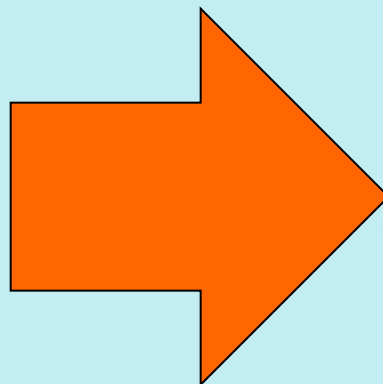
Erana 021 329 084

Sore throat management

**Swab
Sore throats**



**Treat
Group A Strep**



 **STOP
SORE THROATS
HURTING HEARTS**

Preventing Rheumatic Fever

**Population
Health**

Waikato District Health Board

Background to swabbing programme

Waikato DHB is working with communities to provide free sore throat management services across Waikato

The service is a new funded initiative aimed at reducing the incidence of Rheumatic Fever (RHF) in the Waikato

Ministry funding has been secured from to provide rapid response services. Waikato DHB funds antibiotics under the PSO scheme with the Ministry



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Drop in rapid response services



Eligibility criteria:

FREE to high risk groups with sore throats:

- 4-19 year old Maori and Pacific children
- 4-19 year old non-Maori, non-Pacific children in areas of deprivation

NB If an eligible child has a positive GAS result any symptomatic household members aged 3 – 35 years also become eligible for free throat swabbing and treatment

Map of swabbing services:

<https://www.waikatodhb.health.nz/your-health/wellbeing-in-the-waikato/rheumatic-fever>



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PHO – rapid response services

- Access – drop in
 - Enrolled and non-enrolled patients
 - Primarily Nurse-led clinics
 - Opportunistic
- Branding/identification
 - Signposting of swabbing service
 - Regional promotion/advertising
 - Word of mouth/repeat business

Please ensure you have a sticker up



Get a sore throat swabbed for FREE anywhere you see this sticker

DO YOU KNOW OF SOMEONE WHO HAS A SORE THROAT?

AGED BETWEEN 4 –19?

They could be suitable to get a

FREE
SORE THROAT SWAB

Checking Sore Throats help to Prevent Rheumatic Fever.

You can get a FREE sore throat swab done today. Ask your nurse here, or visit your local pharmacy, GP or [pathlab](#)

Get your sore throat check here

SORE THROATS
RHEUMATIC FEVER
HEART DAMAGE

Team approach



RECEPTIONIST

The welcoming face of sore throat management

Updating details on file

Accepting enrolled and non enrolled patients

Enabling drop in for sore throats



GP

Clinical oversight

Management of standing orders/scripts

Management of the unwell child/complicated cases



Team approach



PRACTICE NURSE

Nurse-led sore throat management

Swabbing, education and follow up

Medication management



**SORE
THROATS**
↓
**RHEUMATIC
FEVER**
↓
**HEART
DAMAGE**



PRACTICE MANAGER

Contractual oversight

Ensures staff are trained and on board with the programme

Ensures systems are in place

Ensures monthly reporting occurs

 **STOP
SORE THROATS
HURTING HEARTS**

Preventing Rheumatic Fever

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Waikato Rapid Response model

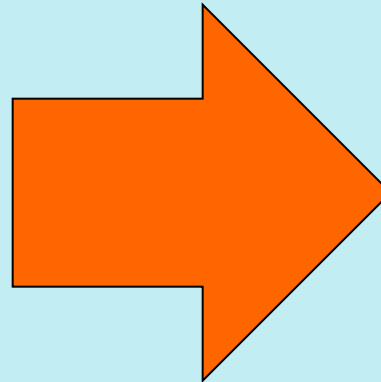
Intervention one - swab



Intervention two - treat:


1. Treat positive results only OR

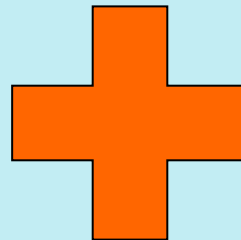
2. Give script/antibiotics with instructions





Provision of Antibiotics

Script or Standing Order (SO)

	Rheumatic Fever Prevention Programme	<insert your logo here>
Standing order for <insert service name here> rapid response sore throat management service		
Date issued: 21/4/15	Review date: 21/4/16	
Medicine standing order title	Treatment of group A Streptococcal (GAS) throat infections in <name of practice>'s rapid response service	
Rationale	To enable the administration and/or supply of oral amoxicillin and erythromycin, and intramuscular penicillin by pharmacists/registered nurses, in <name of practice>'s rapid response service, for the prevention of rheumatic fever in children aged 4–19 and other household contacts	
Organisation/clinic	This standing order applies to pharmacists/registered nurses working in <name of practice>'s rapid response service. The standing order is authorised by Dr <name>, <name of service>.	
Scope	For the treatment of positive Group A Streptococcal throat infections in high risk children and young people aged 4 – 19 years of age. Also, in households with an eligible child with a positive GAS result, for treatment of symptomatic household contacts aged 3 – 35 years with a positive Group A streptococcal result.	



Pharmacy Supply Order (PSO)

Practitioner's Supply Order Form (Note: Use form H.571 for controlled drugs)																														
<table border="1"> <thead> <tr> <th>Pharmaceutical requirements (Name and strength)</th> <th>Quantity required</th> </tr> </thead> <tbody> <tr> <td>Amoxicillin 250mg Caps</td> <td>10 x 30 capsules</td> </tr> <tr> <td>Amoxicillin 500mg Caps</td> <td>10 x 20 capsules</td> </tr> <tr> <td>Amoxicillin 250mg/5ml Liquid</td> <td>10 x 300ml</td> </tr> <tr> <td>Erythromycin 400mg Tabs</td> <td>2 x 20 tablets</td> </tr> <tr> <td>Erythromycin 200mg/5ml Liquid</td> <td>2 x 300ml</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		Pharmaceutical requirements (Name and strength)	Quantity required	Amoxicillin 250mg Caps	10 x 30 capsules	Amoxicillin 500mg Caps	10 x 20 capsules	Amoxicillin 250mg/5ml Liquid	10 x 300ml	Erythromycin 400mg Tabs	2 x 20 tablets	Erythromycin 200mg/5ml Liquid	2 x 300ml																	Contractor's stamp
Pharmaceutical requirements (Name and strength)	Quantity required																													
Amoxicillin 250mg Caps	10 x 30 capsules																													
Amoxicillin 500mg Caps	10 x 20 capsules																													
Amoxicillin 250mg/5ml Liquid	10 x 300ml																													
Erythromycin 400mg Tabs	2 x 20 tablets																													
Erythromycin 200mg/5ml Liquid	2 x 300ml																													
Signature of practitioner (only): 																														
Reg no. <input type="text" value="Dr Richard Vipond"/>		1173977																												
Name (Please print) <input type="text" value="Population Health Private Bag 3200 Hamilton 3240"/>																														
Address of practitioner: <input type="text" value="Ph 07- 8382569 / 021 2446326 MCNZ 36746"/>																														
Date: <input type="text" value="D"/> <input type="text" value="M"/> <input type="text" value="Y"/>		Rural: Y / N																												
March 2014 HP5787																														



Preventing Rheumatic Fever



Practice reminders

- Prompt swabbing and treatment – RHF can develop in <10 days of sore throat
- A mild sore/hoarse throat can be GAS and can cause RHF. All sore throats in high risk groups must be treated with urgency
- Swab with a nurse same day, appointment with GP if needed when available
- If no availability for same day swabbing, refer to pharmacy or pathlab for drop-in swabbing
- After GAS +ve result in child – h/hold becomes eligible for free swabbing and treatment
- Simple treatment option of OD amoxicillin for 10 days



Preventing Rheumatic Fever

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Promotional opportunities

- Phone/nurse triage – making rapid response accessible and free
- Opportunistic promotion of sore throats messaging and importance of swabbing for high risk children and their families
- Referral to Whare Ora – Social criteria, pregnant women/new born in home, x3 GAS in household in x3 months
- Thinking holistically



DO YOU KNOW OF SOMEONE WHO HAS A SORE THROAT?

AGED BETWEEN 4 –19?

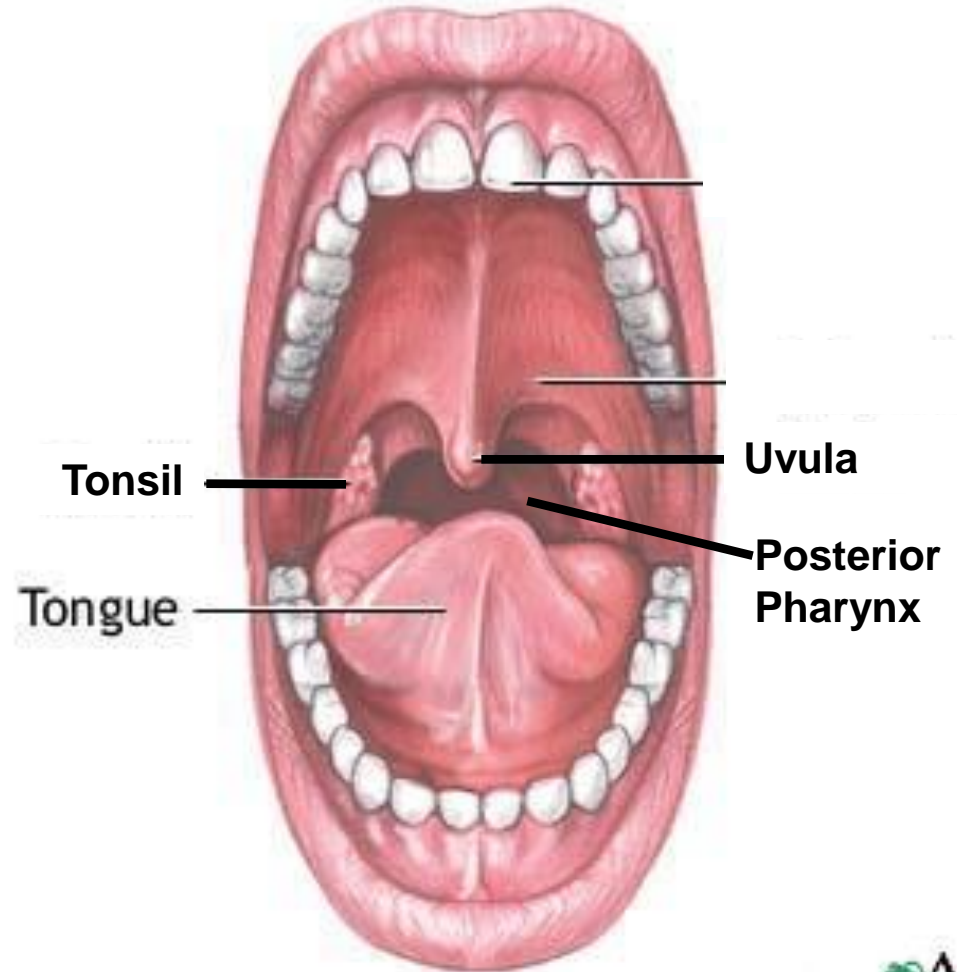
They could be suitable to get a **FREE SORE THROAT SWAB**

Checking Sore Throats help to Prevent Rheumatic Fever.

You can get a FREE sore throat swab done today. Ask your nurse here, or visit your local pharmacy, GP or pathlab

Get a sore throat swabbed for FREE anywhere you see this sticker

Identifying landmarks



STOP
SORE THROATS
HURTING HEARTS

Preventing Rheumatic Fever

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Taking a swab



1. Use bacterial swab and tongue depressor
2. Ask patient to open mouth wide and say “Ah”
3. Avoid touching the tongue and lips
4. Swab from posterior pharynx – behind the uvula and between the tonsils
5. Also from both tonsils if possible

How to swab - watch youtube clip

<https://www.youtube.com/watch?v=RozgYeUMMcM>



Laboratory forms

The top form is a 'General Laboratory Request Form' with the following handwritten details:

- SHADED ARE MANDATORY (Failure to complete may result in the sample being rejected - Board of Directors)
- HEALTH SERVICES NUMBER: 07 839 8606
- LABORATORY: IANZ Registered Laboratory
- PATIENT LABEL: FIRST NAMES: Cath, SURNAME: Knapton
- COLLECTOR: Dr Richard Vipond
- SEX: M/F, D.O.B: [blank]
- TESTS: BIOCHEMISTRY (Green), HAEMATOLOGY (Purple), MICROBIOLOGY/BIOCHEM, MICROBIOLOGY/VIROLOGY
- CLINICAL DETAILS: SIM for RHF prevention, Throat swab for GAS
- DATE: 21/08/16

The bottom form is a 'pathlab waikato' form with the following handwritten details:

- SURNAME: [blank]
- FIRST NAMES: Cath
- DOB: [blank]
- SEX: M/F, AGE: [blank], NHI: [blank]
- DOCTOR: Dr Richard Vipond, CODE: VIPR, 838 2569
- PHONE: 07 839 8606
- TESTS: MICROBIOLOGY SWABS, HAEMATOLOGY, IMMUNOLOGY
- CLINICAL PARTICULARS: SIM for RHF prevention, Throat 10 AUG 2016
- DOCTOR'S SIGNATURE: [Signature]

Complete the process of labelling your swab and lab form

1. Patient details, NHI, DOB
2. Collector details. Depot = service name

Suggest pre-filling in lab form with:

- Swab – throat
- Clinical particulars – “throat swab for GAS. Rapid response service RHF”.
- GP name and signature

Then create multiple copies and use the copies

- Green lab form used for pharmacy swabs processed in rural hospitals
- Pathlab form used for pharmacy swabs in all other locations in the Waikato

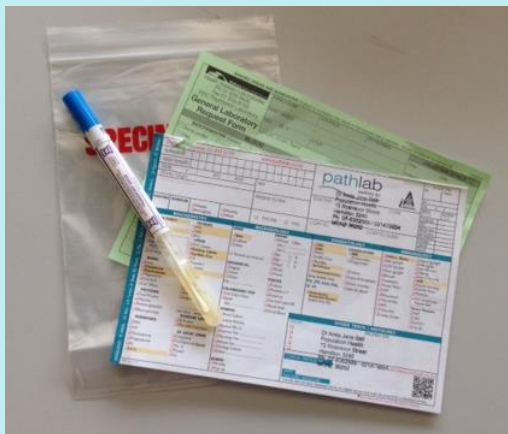


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How to process the swab



1. Carefully put Swab into tube
2. Label with patient details
3. Place into specimen bag with completed lab form

1x swab 1x lab form 1x bag



- Swabs to be picked up with your normal swab processing
- Can stay up to a day if you have missed the pick up time. No need for refrigeration. Out of direct sunlight.
- Results can be expected back in 1-3 days.

Labelling errors

Error

- Details on lab form don't match details on swab tube
- More than one patient's swab/form in a bag together
- Swab or form are unlabelled
- Missing information (eg using initial instead of first/last name)

How to prevent errors

- Carefully follow the labelling process
- Carefully check spelling and details
- Ask a second person to check your forms and labelling
- Complete labelling while patient is there to help with spelling & to check details
- 1x swab, 1x Pathlab form, 1x bag

<http://www.pathlab.co.nz/PicsHotel/PathLab/Brochure/Clinical%20Updates/2016/Specimen%20Labelling%200-%20Pathlab%20-%20Jan%202016.pdf>



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Labelling errors

- Swabs may be discarded
- Recalls may be required
- Patient may be given delayed or wrong results
(ie a negative case may unnecessarily be given a/bs, or a positive case may be missed and not treated)
- Time delays between GAS sore throat & treatment
(increased risk of Rheumatic Fever developing)

RHF can develop in less than 10 days from onset of sore throat!

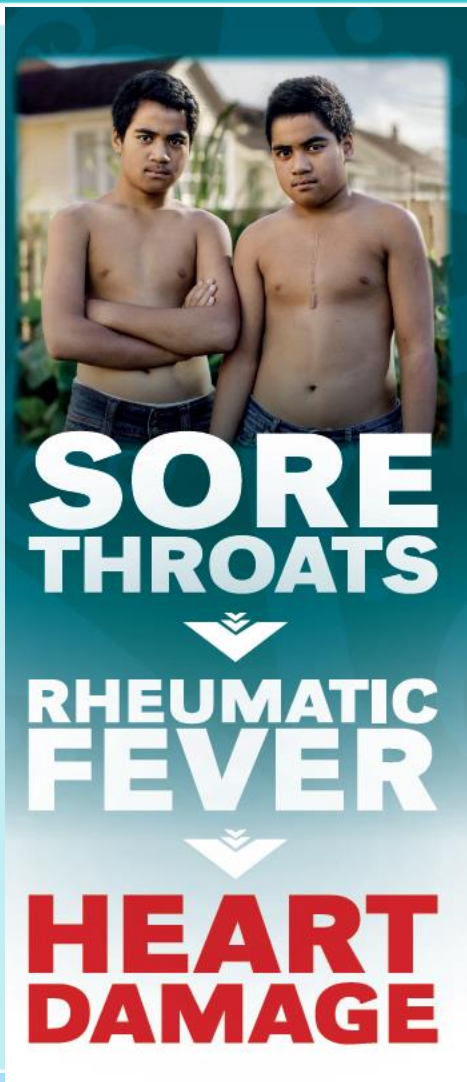


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Patient Education



Make it easy for high risk patients to come back

- Praise their attention to sore throats
- Stress importance of not ignoring symptoms
- Educate clients and whanau that 'Sore throats Matter'
- Check for other household members with sore throats
- Contact details for community swabbers



Preventing Rheumatic Fever

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Support for adherence

All the work that goes into swabbing and following up is wasted if antibiotics are not completed!

ABC of health literacy:

- **A**ssess current knowledge
- **B**uild on that knowledge
- **C**heck for understanding

Support for adherence

1. Assess for ability to return for antibiotics
2. Assess for ability to complete course
?single dose of IM Benzathine penicillin
3. Consider reminder devices -
scratchy charts, phone call/txts
4. Consider widening reminders
5. Invite wider family groups to attend



Waikato Rapid Response model

PSO order of:

- 30 bottles of amoxicillin 500mg caps
- 300ml amoxicillin grans for oral liquid – 250mg/5ml
- 20 bottles erythromycin ethyl succinate 400mg tabs
- 300ml erythromycin ethyl succinate grans for oral liquid – 200mg/5ml

Claim dispensing fee as per current Community Pharmacy Services Agreement



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Providing antibiotics under PSO

Antibiotics are supplied for free under the MPSO allowances.

Work with pharmacy to ensure adequate and appropriate supply of medication, but not too much resulting in wastage.



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Safe provision of Antibiotics under standing order

- Single dispense based on patient – **right drug, right patient**
- Complete a full clinical assessment with patient

Antibiotics for GAS

First-line treatment

amoxicillin orally for 10 days

Children < 30 kg: 750 mg once daily
Children ≥ 30 kg: 1000 mg once daily

**benzathine penicillin G (BPG),
intramuscular, single dose**

Children < 30 kg: 450 mg (600,000 units)
Children ≥ 30 kg: 900 mg (1,200,000 units)

Definite or possible anaphylaxis to penicillin or amoxicillin

**erythromycin ethyl succinate
orally for 10 days**

Children and adults: 40 mg/kg/day in 2–3
divided doses
Maximum adult daily dose 1000 mg

<http://www.health.govt.nz/publication/using-practitioner-supply-orders-and-standing-orders-rheumatic-fever-prevention-programme>



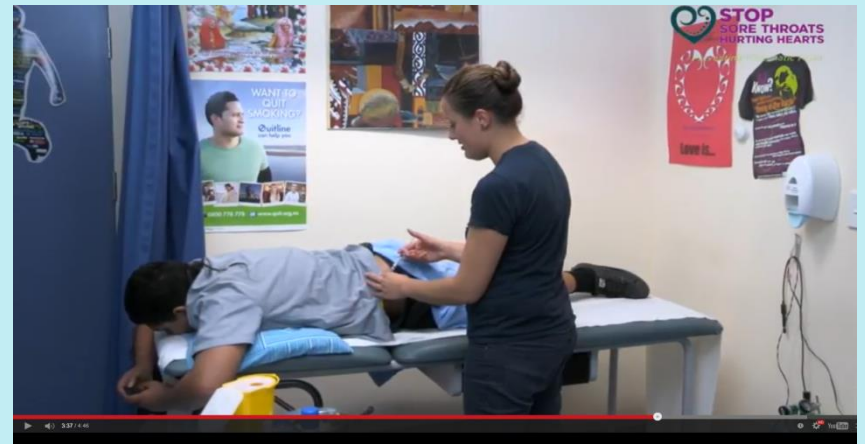
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Intramuscular penicillin

- Given with lidocaine
- Once only
- No risk of forgetting
- Eradicates GAS (for up to 28 days)
- Ministry of health guidance:
 - <https://www.health.govt.nz/our-work/diseases-and-conditions/rheumatic-fever/rheumatic-fever-resources/rheumatic-fever-learning-resources>



Precautions/exclusions

Medsafe data sheets:

<http://www.medsafe.govt.nz/index.asp>

Amoxicillin

Erythromycin

Benzathine Penicillin

Lidocaine

Patient assessment:

- Weight
- Allergies
- Medical conditions
- Medications
- History of x3 GAS in past 3 months
- H/hold history of x3 GAS in past 3 months



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What to do with Group B, C, or G Strep

- Other groups of strep pharyngitis can cause the same symptoms as Group A Strep
- But only Group A Strep can go on to cause the autoimmune response that leads to Rheumatic Fever
- If the result comes back negative for Group A Strep but positive for other groups of Strep, they can still be treated in the same manner, but the claim cannot be made for under the Rapid Response model (as it is specifically for the treatment of Group A Strep in the prevention of Rheumatic Fever)



Preventing Rheumatic Fever

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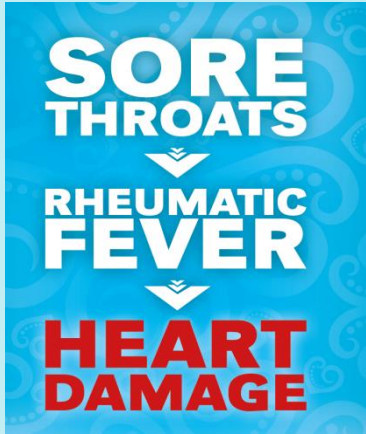
Waikato District Health Board

Documentation

Rheumatic Fever Rapid Response Services Monthly Reporting.		Service:
	Reports due on the 15 th of each month	Month:
1	Total number of individuals assessed	
2	Total number of eligible (M, P, Q5) 4-19 year olds assessed	Should equal sum 2a-2f below
2a	Number of eligible 4-19 year olds assessed who are Maori	
2b	Number of eligible 4-19 year olds assessed who are Pacific	
2c	Number of eligible 4-19 year olds assessed who are NZE	
2d	Number of eligible 4-19 year olds assessed who are Chinese	
2e	Number of eligible 4-19 year olds assessed who are Indian	
2f	Number of eligible 4-19 year olds assessed who are Other	
3	Total number of 3-35 year old eligible (has a sore throat) household contacts assessed	Should equal sum 3a-3f below
3a	Number of eligible household contacts (3-35 years) assessed who are Maori	
3b	Number of eligible household contacts (3-35 years) assessed who are Pacific	
3c	Number of eligible household contacts (3-35 years) assessed who are NZE	
3d	Number of eligible household contacts (3-35 years) assessed who are Chinese	
3e	Number of eligible household contacts (3-35 years) assessed who are Indian	
3f	Number of eligible household contacts (3-35 years) assessed who are Other	
4	Total number of throat swabs taken (eligible individuals and household members with sore throat)	Should equal sum of 2 & 3 above
5	Number of GAS +ve	
6	Number of eligible 4-19 year olds given antibiotics	Should equal sum of 6a – 6d below
6a	• Type of antibiotic given (Amoxicillin)	
6b	• Type of antibiotic given (Benzathine Penicillin – IM)	
6c	• Type of antibiotic given (Erythromycin)	
6d	• Type of antibiotic given (Other – specify)	
7	Number of eligible 3-35 year old household contacts given antibiotics	Should equal sum of 7a – 7d below
7a	• Type of antibiotic given (Amoxicillin)	
7b	• Type of antibiotic given (Benzathine penicillin – IM)	
7c	• Type of antibiotic given (Erythromycin)	
7d	• Type of antibiotic given (Other – specify)	
8	Total number given antibiotics	Should equal sum of 6 & 7 above
9	Number of eligible referrals made to Whare Ora	

- Matches fields from advanced forms
- Collated monthly
- Sent to PHO lead by 10th of the month
- PHO lead to Population Health by 15th of the month
- Used for surveillance and for allocation of funding

Resources



Waikato DHB Rheumatic Fever site:

- <https://www.waikatodhb.health.nz/for-health-professionals/rheumatic-fever>

Ministry of Health

- <https://www.health.govt.nz/our-work/diseases-and-conditions/rheumatic-fever/rheumatic-fever-publications>
- <https://www.health.govt.nz/our-work/diseases-and-conditions/rheumatic-fever/rheumatic-fever-resources/rheumatic-fever-resources-health-professionals>

National Heart Foundation

- <https://www.heartfoundation.org.nz/resources?keywords=rheumatic+fever>



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Online learning modules

- Ministry of Health Rheumatic Fever e-learning module:
<http://www.waikatodhb.health.nz/public-health-advice/a-z-of-public-health-topics/p-r/rheumatic-fever/ministry-of-health-rheumatic-fever-e-learning-module/>
- Rheumatic Heart Disease Australia e-learning modules:
<http://www.rhdaustralia.org.au/e-learning-discussion-forum>



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RHF Contacts and Links

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Waikato DHB Rheumatic Fever pages:

- <https://www.waikatodhb.health.nz/for-health-professionals/rheumatic-fever>
- <https://www.waikatodhb.health.nz/your-health/wellbeing-in-the-waikato/rheumatic-fever>
- <https://www.waikatodhb.health.nz/your-health/wellbeing-in-the-waikato/whare-ora>



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Links to further reading & references

National Heart Foundation of New Zealand:

- <https://www.heartfoundation.org.nz/resources?keywords=rheumatic+fever>
- National Heart Foundation of New Zealand (2014) New Zealand Guidelines for Rheumatic Fever Algorithm 4 Guide for sore throat management. Auckland, National Heart Foundation of New Zealand
- National Heart Foundation of New Zealand (2014) New Zealand Guidelines for Rheumatic Fever 2. Group A Streptococcal Sore Throat Management. Auckland, National Heart Foundation of New Zealand

Links to further reading & references

- Ministry of Health. 2015. Using Practitioner Supply Orders and Standing Orders in the Rheumatic Fever Prevention Programme: Guidance for sore throat management services. Wellington: Ministry of Health. <http://www.health.govt.nz/publication/using-practitioner-supply-orders-and-standing-orders-rheumatic-fever-prevention-programme>
- PHARMAC – increased access to antibiotics for RHF prevention programmes <http://www.pharmac.health.nz/assets/notification-2013-11-19-pso-changes-rfpp.pdf>
- PHARMAC 2015 Pharmaceutical schedule <http://www.pharmac.govt.nz/>
- Drug Monographs Information for Health Professionals. Medsafe.govt.nz.
- <http://www.medsafe.govt.nz/profs/datasheet/DSForm.asp>
- Drug Monographs Mims Online © UBM Medica (NZ) Ltd 2007.
- <http://mimsgateway.co.nz/>
- Oliver, J. R., Pierse, N., Stefanogiannis, N., Jackson, C. and Baker, M. G. (2017), Acute rheumatic fever and exposure to poor housing conditions in New Zealand: A descriptive study. J Paediatr Child Health, 53: 358–364. doi:10.1111/jpc.13421 online link: <http://onlinelibrary.wiley.com/doi/10.1111/jpc.13421/epdf>
- Ministry of Health online information video: <https://www.health.govt.nz/our-work/diseases-and-conditions/rheumatic-fever/rheumatic-fever-resources/rheumatic-fever-campaign-online-videos#educational>



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