

Scabies Prevalence Study

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**This
topic
has
made
me
feel.....**

**Disappointed,
Excited,
Angry,
Confused,
Motivated,
Hopeful.**

Why a scabies prevalence study?

- Last NZ prevalence study was carried out in the late 1970's
(18% Pacific, 10% Māori, 2% NZEO – high school students)
- Strong association with:
 - i) skin infection
 - ii) kidney disease
 - iii) cellulitis
 - iv) abscesses
 - v) **acute rheumatic fever / RHD**
- Fiji study found that 93% of skin infection/impetigo attributed to scabies

Why a scabies prevalence study?

- Scabies is easily treated
- Pacific region is a high prevalence region
- Pacific communities experience highest burden all of the sequelae from scabies
- Failure of our \$75M Throat Swabbing Campaign to reduce the ARF/RHD epidemic being experienced by NZ's Pacific community
- **Prevalence study is a First STEP**

“MY BROTHER ALMOST DIED.”

IT STARTED WITH A SORE THROAT



**SO
THROATS**
RHEUMATIC
FEVER
**HEART
DAMAGE**

An untreated sore throat can lead to Rheumatic Fever and heart damage. If your child has a sore throat take them to a free Sore Throat Clinic or see a doctor or nurse.



For more info visit:
health.govt.nz/rheumaticfever



R036

**SO
THROATS**
RHEUMATIC
FEVER
**HEART
DAMAGE**

**GET YOUR CHILD'S
SO
THROAT
CHECKED NOW**

For more info visit:
health.govt.nz/rheumaticfever



Budget 2019: \$12m for rheumatic fever

18 May, 2019 3:50pm



The Government's putting \$12 million into combating rheumatic fever.

The money, from the upcoming Wellbeing Budget, will support Māori and Pacific communities to combat the preventable disease with their own initiatives.

"The Wellbeing Budget provides \$12m to support innovative programmes that will reduce the incidence of rheumatic fever among both Māori and Pacific people and support better management of the illness.

Associate Health Minister Jenny Salesa said the latest figures suggest rheumatic fever rates in Pacific people are increasing. Photo / Mark Mitchell

Get your **sore
throat check** here

SCABIES

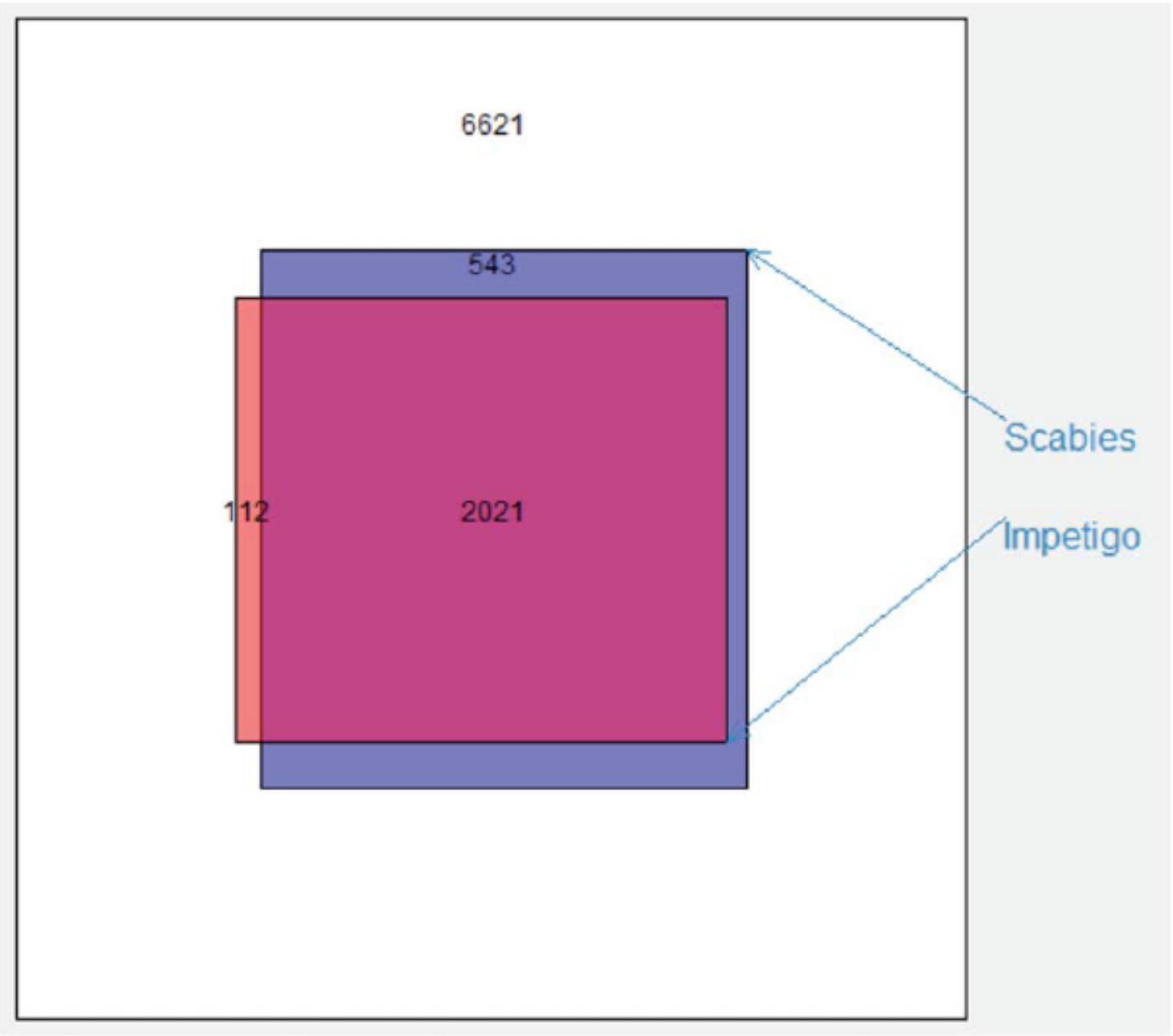
RHEUMATIC
FEVER

**HEART
DAMAGE**



- Vaccine! 5-10 years away!
- Poverty eradication
- Housing

Focussed treatment for Scabies has **NO** perceivable negative consequences



93% of impetigo explained by scabies

Figure 1. Scaled rectangle diagram,¹² illustrating the degree of overlap between scabies and impetigo in a Fijian population survey of scabies.¹³

Scabies Prevalence Study

Understanding scabies prevalence to improve the health of Pasifika/Māori kids

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Roger Marshall
Richard Johnson

Sample – Auckland based

Treated as 2 separate studies

1. Early Childhood Care Centres (ECC)

N = 1,152 children (from 23 ECC's)

2. Primary-Intermediate-Secondary Schools

N = 942 children (from 8 schools)

TOTAL N = 2,094

Weighted more to schools of high Māori and Pasifika pop
and high deprivation areas

Diagnosis

High degree of variability (Simon Pilot study)

Three levels of Diagnosis:

- **CONFIRMED** – identify burrow/delta wing sign
- **CLINICAL** - papular lesions in a typical distribution + history of itch in the family
- **SUSPECTED** – atypical or few history features, according to Delphi Panel Criteria

Trial novel methods to improve diagnosis

We will trial several methods of improving the diagnosis, including the collection of nuclear material for a PCR test

and

storing photos to use for training neural networks to recognise the features of scabies from photographs taken from the skin. (teledermatology, neural networks)