

Rheumatic Fever Report

January to December 2015

This report provides an overview of rheumatic fever in New Zealand in 2015 using both notification data from EpiSurv and hospitalisation data from the National Minimum Dataset (NMDS). The information presented is based on data recorded on EpiSurv as at 18 February 2016 and on the NMDS as at 4 February 2016.

Notifications for initial episodes of rheumatic fever with an onset date between 1 January and 31 December 2015 were linked with first episode rheumatic fever hospitalisations (as defined by the [Better Public Services \(BPS\) rheumatic fever target](#)) with a discharge date in 2015. Cases that did not match were followed up to see whether they met the case definition for rheumatic fever (as per the [Communicable Disease Control Manual](#)). Those that did not meet the definition were excluded.

Once the hospitalisation and notification data was matched, there were 102 cases that met the definition of first episode rheumatic fever between 1 January and 31 December 2015, giving a rate of 2.2 per 100,000 population. This number includes cases that were not hospitalised, cases that had another diagnosis whilst in hospital but were later diagnosed with rheumatic fever, and cases that were notified in 2015 but discharged from hospital in 2016. Cases that were diagnosed with rheumatic fever whilst in hospital but later found not to meet the case definition for rheumatic fever are not included in this number.

Table 1 shows the number and incidence rate per 100,000 population for first episode rheumatic fever cases by age group and ethnic group in 2015.

Table 1 First episode rheumatic fever cases by ethnicity and age group, 2015

Ethnic group (prioritised)	0–4 years		5–14 years		15–24 years		25+ years		Total	
	Number	Rate ¹	Number	Rate ¹	Number	Rate ¹	Number	Rate ¹	Number	Rate ¹
Māori	0	-	36	31.5	4	3.9	4	1.4	44	7.8
Pacific peoples	2	-	44	74.2	8	14.4	2	-	56	19.7
European or Other	0	-	0	-	1	-	1	-	2	-
Total	2	-	80	13.2	13	2.0	7	0.2	102	2.2

¹ Rate per 100,000 population. The denominator data used to determine disease rates for ethnic groups is based on the proportion of people in each ethnic group from the usually resident 2013 census population applied to the 2015 mid-year population estimates.

Note: For categories with ≤10 cases rates are considered unstable and should be interpreted with caution. Rates have not been calculated where there were fewer than four cases in a category.

Current initiatives in the Rheumatic Fever Prevention Programme include the provision of free sore throat services in the community and in primary schools in high incidence areas. These programmes target 4–19 year olds and 5–12 year olds respectively. Table 2 shows the number and incidence rate per 100,000 population for first episode rheumatic fever for these age groups by ethnic group for 2015.

Table 2 First episode rheumatic fever cases by ethnicity and age groups targeted by current initiatives, 2015

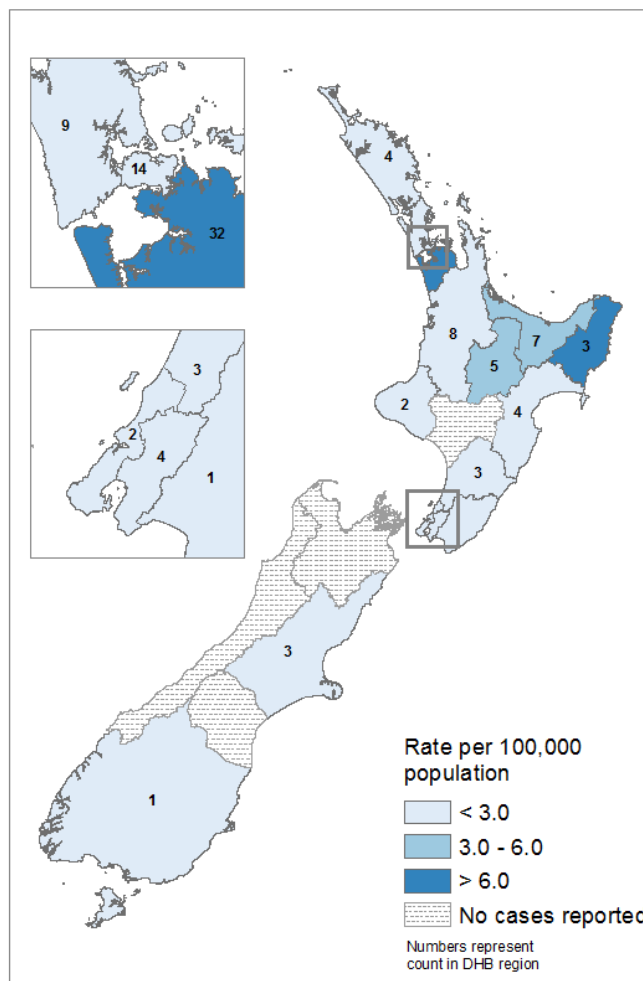
Ethnic group (prioritised)	5–12 years		4–19 years	
	Number	Rate ¹	Number	Rate ¹
Māori	31	33.5	38	21.1
Pacific peoples	33	68.8	51	54.2
European or Other	0	-	0	-
Total	64	13.0	89	9.0

¹ Rate per 100,000 population. The denominator data used to determine disease rates for ethnic groups is based on the proportion of people in each ethnic group from the usually resident 2013 census population applied to the 2015 mid-year population estimates.

Note: For categories with ≤10 cases rates are considered unstable and should be interpreted with caution. Rates have not been calculated where there were fewer than four cases in a category.

Figure 1 shows the geographical distribution of first episode rheumatic fever for 2015.

Figure 1 First episode rheumatic fever cases by district health board, 2015



For DHBs with ≤ 10 cases rates are considered unstable and should be interpreted with caution. Note the rate categories differ to previous reports due to the lower rates reported for this time period.

First episode rheumatic fever hospitalisation rates are used to monitor the Better Public Services target. The following graphs show the trend in the rate of hospitalised cases since 2002 for the total population and since 2009 for Māori and Pacific peoples.

Figure 2 Rate per 100,000 population of first episode rheumatic fever hospital discharges, 2002–2015

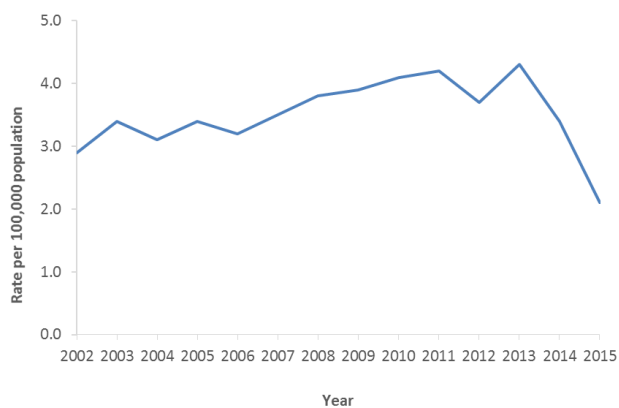


Figure 3 Rate per 100,000 population first episode rheumatic fever hospital discharges for Māori and Pacific peoples, 2009–2015

