

This report provides an overview of rheumatic fever in New Zealand in 2017/18 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 12 October 2018 and on the NMDS as at 5 September 2018.

Notifications for initial episodes of rheumatic fever with an onset date between 1 July 2017 and 30 June 2018 were linked with first episode rheumatic fever hospitalisations (as defined by the [Better Public Services \(BPS\) rheumatic fever target](#)) with a discharge date between 1 July 2017 and 30 June 2018. 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 were matched, there were 156 cases that met the definition of first episode rheumatic fever between 1 July 2017 and 30 June 2018, giving a rate of 3.3 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 2017/18 but discharged from hospital after 1 July 2018. 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 2017/18.

**Table 1. First episode rheumatic fever cases by ethnicity and age group, July 2017 to June 2018**

Ethnic group (prioritised)	0–4 years		5–14 years		15–24 years		25+ years		Total	
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Māori	0	-	37	24.5	13	10.0	5	1.4	<b>55</b>	<b>7.7</b>
Pacific peoples	2	-	47	81.1	29	50.9	15	10.0	<b>93</b>	<b>31.6</b>
European or Other	0	-	3	-	5	1.0	0	-	<b>8</b>	<b>0.2</b>
<b>Total</b>	<b>2</b>	<b>-</b>	<b>87</b>	<b>13.9</b>	<b>47</b>	<b>7.0</b>	<b>20</b>	<b>0.6</b>	<b>156</b>	<b>3.3</b>

<sup>1</sup> 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 2017 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.

The Rheumatic Fever Prevention Programme ran from 2011 to 30 June 2017 and included the provision of free sore throat services in the community and in primary schools in high incidence areas, targeting 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 2017/18.

**Table 2. First episode rheumatic fever cases by ethnicity and targeted age groups, July 2017 to June 2018**

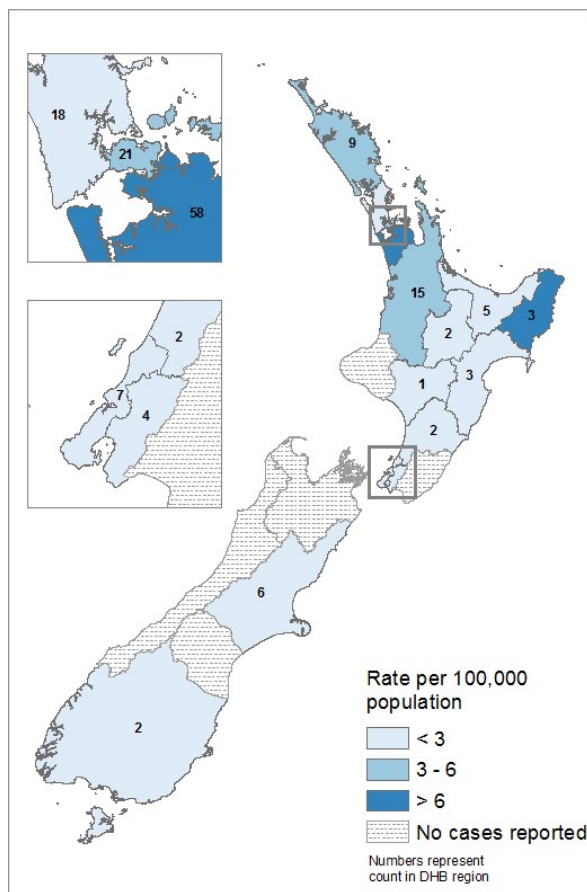
Ethnic group (prioritised)	5–12 years		4–19 years	
	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
Māori	32	26.0	44	18.8
Pacific peoples	44	94.0	69	75.1
European or Other	2	-	7	1.0
<b>Total</b>	<b>78</b>	<b>15.4</b>	<b>120</b>	<b>11.9</b>

<sup>1</sup> 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 2017 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 cases for July 2017 to June 2018.

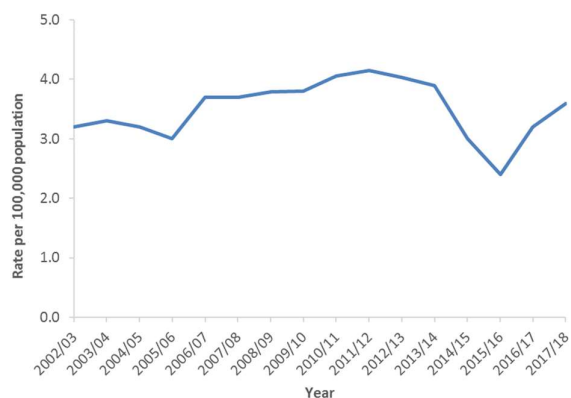
**Figure 1. First episode rheumatic fever cases by district health board, July 2017 to June 2018**



For DHBs with  $\leq 10$  cases rates are considered unstable and should be interpreted with caution.

The following graphs show the trend in the rate of hospitalised cases for 2002/03–2017/18 for the total population and 2011/12–2017/18 for Māori and Pacific peoples.

**Figure 2. First episode rheumatic fever hospital discharge rates, 2002/03–2017/18**



**Figure 3. First episode rheumatic fever hospital discharge rates for Māori and Pacific peoples, 2011/12–2017/18**

