## **Supplementary Table S1.** *Algorithm for determining new ARF cases from hospitalisation data*. Document provided by Ministry of Health on 13/05/2014.

ICD codes used: ICD-10-AM diagnosis codes: I00, I01, I02 (Acute rheumatic fever)

ICD 9 CM-A diagnosis codes: 390, 391, 392 (Acute rheumatic fever)

ICD-10-AM diagnosis codes: I05-I09 (Chronic rheumatic heart disease)

ICD 9 CM-A diagnosis codes: 393-398 (Chronic rheumatic heart disease)

Inclusions: Principal diagnoses (Acute rheumatic fever) only

Overnight admissions

Day-case admissions

Exclusions: Previous acute rheumatic fever diagnosis (principal and additional) from 1988

Previous chronic rheumatic heart disease diagnosis (principal and additional) from 1988

New Zealand non-residents

Transfers: Transfers with a principal diagnosis of acute rheumatic fever are counted as one acute rheumatic fever hospitalisation episode

Timeframe: Trends from 2002 onwards