

Information topic	Details
Indicator name	Overseas infectious diseases of priority concern to New Zealand
Domain and topic	Border Health
Indicator definition and units	<p>Annual overseas distribution of border health priority disease outbreaks* (classified as a Public Health Emergency of International Concern (PHEIC) and priority notifiable respiratory and vector-borne diseases) with focus on the Asia-Pacific region.</p> <p>*Disease priorities should be identified by annual risk assessment (<i>Jefferies 2016 BHI Development report</i>)</p>
Data source	<ul style="list-style-type: none"> - World Health Organization. Global Alert Response dataset: http://www.who.int/csr/don/archive/year/en/ (accessed February 2018). - World Health Organization. Extranet polio database: https://extranet.who.int/polio/public/CaseCount.aspx (accessed February 2018). - Pacific Public Health Surveillance Network (PPHSN). 2018. Dengue disease alerts in the Pacific region. Personal communication.
Methodology	<ul style="list-style-type: none"> - Global outbreak alerts of priority border health concern: Data were extracted from the WHO GAR dataset for each alert notification for priority diseases over a 5 year period. Data extraction included: disease, country of reported outbreak, earliest reported date of symptom onset for the index case (or date of outbreak alert if symptom onset not reported). Outbreak data were mapped by disease, geographically over time, summarised in tabulated form by disease, year and country of origin. - Polio PHEIC: data extracted from the WHO Extranet polio database. Data extraction included country, year and total cases. Summarised in tabular form. - Spread of mosquito-borne diseases in the Pacific: summary of Pacific Island countries and territories affected by dengue provided by PPHSN. Presented in graph form.
Time period and time scale	<ul style="list-style-type: none"> - Annual; from 2013 onwards - 5 year period (or available data to the nearest whole year if less)
Spatial coverage	<ul style="list-style-type: none"> - Global - Pacific island countries and territories (dengue)
Measures of frequency	<ul style="list-style-type: none"> - Disease type by geographic distribution and year, with focus on priority disease outbreaks reported in the Asia-Pacific region. - Proportion of Pacific or Asian nations affected

Limitations of indicator	<ul style="list-style-type: none"> - For countries outside of the Pacific regions, the indicator does not show where diseases pre-existed (e.g. where polio is established as an ongoing (endemic) problem within a country) or show when an outbreak finished. - Diseases were prioritised; therefore the indicator may not detect a new or emerging disease which becomes a priority threat. However, changing priorities should be detected in annual risk assessment.
Limitations of data sources	<ul style="list-style-type: none"> - WHO GAR: As per limitation of indicator noted above. It is also limited by whether countries report certain outbreaks to the WHO. - PPHSN disease priorities may differ from New Zealand and, therefore, New Zealand disease priorities may not be reported. - No currently available regional Asian outbreak reporting system. - Only Dengue reported by PPHSN in the Pacific region. There was no information available for Zika and Chikungunya in the Pacific at the time of reporting. - International under-reporting of diseases is expected, particularly among developing countries.
Created by	Environmental Health Indicators New Zealand, Centre for Public Health Research, Massey University, Wellington
Related indicators	<ul style="list-style-type: none"> - Exotic notifiable infectious diseases in New Zealand of priority border health concern - Human-disease competent vectors/pests introduced to New Zealand - High-risk human-disease competent vectors/pests present at the New Zealand border
For more information	WHO GAR: http://www.who.int/csr/resources/publications/en/ (accessed February 2018)
References	<ul style="list-style-type: none"> - Pacific Public Health Surveillance Network (PPHSN). 2018. Dengue disease alerts in the Pacific region. Personal communication. - World Health Organization. Global Alert Response dataset: http://www.who.int/csr/don/archive/year/en/ (accessed February 2018)