

Dengue Fever and Malaria Notifications

HIGHLIGHTS:

- **Globally, about 390 million dengue fever occurred each year. Malaria, the most deadly vector-borne disease, kills over 1.2 million people annually.**
- **In 2014, 178 cases of dengue fever were notified in New Zealand, an increase of two thirds compared to 106 cases in 2013.**
- **In 2014, the number of malaria notification (33) was almost one third fewer than 2013 (47)**



Source:
http://en.wikipedia.org/wiki/Anopheles#mediaviewer/File:Anopheles_stephensi.jpeg. (Left).
<http://www.nbcnews.com/health/health-news/bugs-your-july-4th-bbq-beware-chikungunya-west-nile-n147881>. (Right)

Dengue fever and malaria have serious effects on the world population health

Dengue fever is a viral disease transmitted by mosquitoes and is prevalent throughout the tropics and subtropics. It is the world's fastest growing vector-borne disease and its incidence has increased 30-fold over the last 50 years (World Health Organisation, 2014b). Around 40 percent of the world's population is now at risk from dengue fever. Each year, about 390 million dengue fever infections occur in over 100 countries.

Malaria is a disease caused by the parasite Plasmodium, and is transmitted by mosquitoes. It is the most deadly vector-borne disease and kills over 1.2 million people annually (World Health Organisation, 2014a), and is a leading cause of death and disease in many developing countries. Young children and pregnant women are the groups most affected.

In 2014, 178 cases of dengue fever were notified, an increase of more than two thirds compared to 106 cases in 2013

In 2014, 178 cases of dengue fever were notified in New Zealand, compared to 106 cases in 2013. This was an increase of 68%. (Table 1).

Thirty-three cases of malaria were notified in 2014, a 30% decrease from the 47 cases in 2013. (Table 1).

Table 1: Number of malaria and dengue fever notifications in New Zealand, 2013-2014

Disease	2013	2014	Change %
Dengue fever	106	178	68 ↑
Malaria	47	33	30 ↓

Source: ESR. (2015).

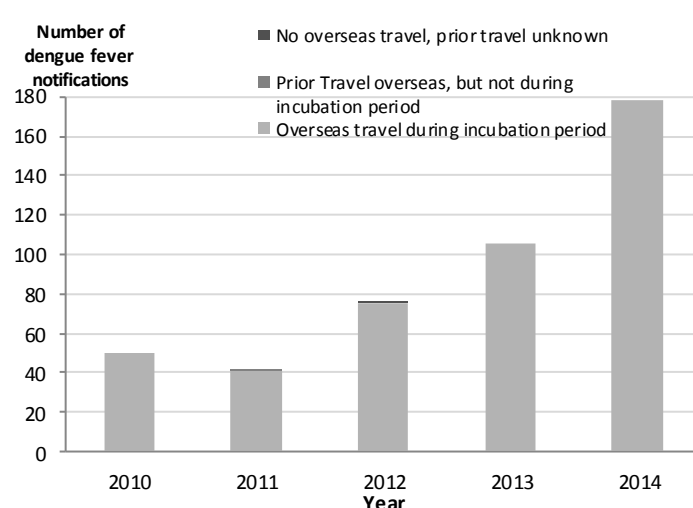
Dengue Fever and Malaria Notifications

Overseas travel played an essential role in the infection of dengue fever and malaria

Year 2014 had the highest number of dengue fever notifications since 1997 (ESR, 2015). Annual dengue fever notifications fluctuated between 42 and 178 cases from 2010 to 2014 (Figure 1). Almost all cases of dengue fever had travelled overseas during the incubation period of the disease. (Figure 1)

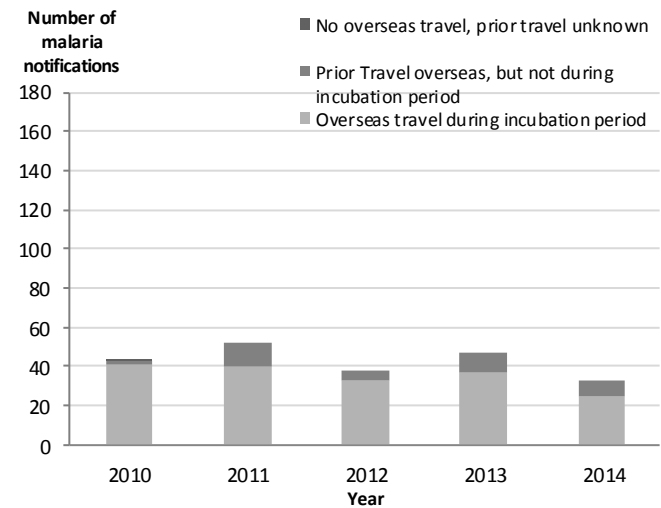
Annual malaria notifications fluctuated between 38 and 52 from 2010 to 2014 (Figure 2). Almost all cases had an overseas travel history. Four out of five cases have travelled overseas during the incubation period of the disease.

Figure 1: Number of dengue notifications in New Zealand by risk factors, 2010-2014



Source: ESR. (2015).

Figure 2: Number of malaria notifications in New Zealand by risk factors, 2010-2014



Source: ESR. (2015).

For more information, please contact Fei Xu on f.xu@massey.ac.nz

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