Dengue 3 Outbreak, Palau, December 2018 – January 2019
Report Date: February 19, 2019

Outbreak Overview

On Friday, December 7, 2018, the Palau Ministry of Health alerted the public of an outbreak of dengue fever following the first ever laboratory confirmation of two cases with dengue serotype-3. This poses a significant concern for public health as the whole population is potentially vulnerable to infection.

In response to the outbreak, the Ministry of Health activated its emergency response team on December 7, 2018. The team has been tasked with raising community awareness of the outbreak and dengue prevention measures, conducting disease surveillance and reporting, strengthening mosquito control measures, and ensuring adequate resources are available to combat the outbreak.

Between February 11 – February 17, 2019, there were 9 new lab-confirmed cases reported. This brings the total from December 1, 2018 to February 17, 2019 to 92 cases.

There have been no deaths attributed to dengue infection during this outbreak.

Demographics

- Age Range = 3 – 88 years
- Mean age = 32 years
- Median age = 27 years
- Male:Female ratio= 119

The majority of cases during this outbreak have been Palauan.

Cases by State and Koror Hamlets

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<thead>
<tr>
<th>State</th>
<th>Count</th>
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Epi Curve

- December 3, 2018 - February 17, 2019

Lab Testing

- The Belau National Hospital (BNH) Laboratory and 3 private clinics on-island continue to screen symptomatic patients for dengue with a rapid diagnostic test kit.
- The BNH Lab continues to send serum specimens to Hawaii State Laboratory (HSL) for confirmation and serotyping.
- 14 specimens were sent to HSL on February 17, 2019.
- The last recorded cases of DENV-2 were in November of 2018. Since the beginning of the outbreak, there have been 47 serotyped cases of DENV-3.

Response Measures

- The dengue outbreak response team is continuing efforts to increase community awareness on the dengue outbreak and prevention measures through:
  - Weekly radio talk shows at the national radio station
  - Dissemination of print material about dengue prevention to the community
  - Development of dengue prevention videos for public consumption that target young adults
  - Utilizing public forums to spread the prevention message.
- The Ministry of Health Management team has attended six presidential state visits (Ngchesar, Ngatpang, Aimeliik, Ngaraard, Airai and Ngaremgui) to spread the dengue prevention message.
- An outreach event to the southern state of Peleliu is being planned for the 25th of February by the Emergency Health Program. Dengue awareness and prevention messaging will likely be part of the agenda.

Contact: Tmong Udui, epidemiologist@palauhealth.org, (680) 488-4772/4773

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- The Ministry of Health Management team has attended six presidential state visits (Ngchesar, Ngatpang, Aimeliik, Ngaraard, Airai and Ngaremgui) to spread the dengue prevention message.
- The Ministry of Health team has also attended 5 parent-teacher association meetings to urge parents to heed the dengue prevention message.
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The Communicable Disease Unit and the DEH Vector Control Program continue to investigate reported cases of dengue fever and implement vector control measures.

The Ministry of Health’s community dengue prevention 3S message is to:

- Search and eliminate mosquito breeding sites.
- Self-protect by wearing insect repellent and ensuring a mosquito-free environment.
- Seek early consultation if you show severe signs or symptoms of dengue.

The next report will be released on Tuesday, February 26, 2019.

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