Dengue-3 Outbreak in Republic of the Marshall Islands, June 25–Sept 29, 2019
Situation Report Date: Sept 29, 2019

Outbreak Overview

Cases: To date there have been 607 suspect cases of which 161 have been lab confirmed. This is outbreak week #20 in Ebeye and #8 in Majuro. No cases yet in outer atolls. Symptom and age profile of cases is typical for dengue fever. One death and one severe dengue patient evacuated out-of-country to date.

Organization of Response: EpiNet team in Ebeye and the RMI national EpiNet teams were both activated on July 16, with daily meetings currently. Presidential Declaration of Health Emergency and activation of multi-ministry and NGO National Emergency Operations Center on August 6 with weekly meetings. RMI Dengue Response Plan finalized Aug 6. Weekly conference calls with technical assistance partners also being held.

Case Definitions (based on PPHSN):

- Suspected case: Acute fever > 2 days with two or more of the following: anorexia and nausea; aches and pains; rash; low white blood cell count; tourniquet test positive; warning signs (abdominal pain or tenderness; persistent vomiting; mucosal bleeding; liver enlargement > 2 cm; fluid accumulation; lethargy; restlessness; increase in hematocrit with decrease in platelets).
- Confirmed case: Suspected case with lab confirmation (+Rapid test (for NS1 or IgM) or +PCR test)

Current Response Goals:

1. Slow spread in Ebeye and Majuro & prevent spread to outer atolls
2. Assure excellent clinical care to minimize deaths.

Highlights:

- Surveillance system with daily updates in place for Ebeye, and Majuro.
- Vigorous community engagement, ongoing with help from partners- Red Cross, WUTMI, Malgov. Ebeye complete for community clean-up and spraying of hospital, schools and churches. Community awareness by mass phone texts, radio, posters and public seminars.
- Vector Control: 54/54 churches completed; 22/22 schools completed in Majuro
- Health Education: 54/54 churches completed; 22/22 schools completed in Majuro
- Rain catchment tanks on Ebeye and Majuro not yet screened or treated (due to absence of screening materials & larvicde). Majuro: Trash and large item pickup completed in Ebeye and in about ½ of Majuro (from Rita-Rairok villages). Four illegal dumps in Majuro found (but not yet addressed).
- Dengue 101 clinical seminars completed in Ebeye: 100% of doctors & 100% clinical nurses and Majuro: 100% of doctors, 100% NPs, 100% triage & ward nurses. Fast track outpatient dengue clinic using NPs in Majuro Hospital is open and dedicated dengue ward scheduled to open on Sept 16.
- Lab at Ebeye & Majuro fully functional for dengue care.
- Dengue 101 not yet delivered to health assistants; Community cleanup initiated in 3 outer atolls but most still pending; Shipments of dengue-related supplies to go to some atolls this week.
- Travel restrictions for Ebeye & Majuro.

Dengue-related Inventory:

- Projected inventory gaps identified this week. MOHHS order not yet placed for projected gaps; Some items requested from regional partners (and are pending)

Priority activities this week:

- Place inventory gaps orders; Begin treating rain catchment tanks (t/o RMI) as soon as supplies are in. Address Majuro dumps & complete removal of large items. Accelerate Priority activities this week
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Contact:

- Francyne Wase-Jacklick, Deputy Secretary (wasejacklick@gmail.com)
- Edlen Anzures, Data Officer (eanzures@gmail.com)

EpiNet Outbreak Team Members:

- Ebeye: Dr. Thein/Rivera, Allen Capelle, Dr. Juaquin Nasa, Rose Bobo, Mela Ratu
- Majuro: Dr. Helentina Garstang, Secretary Jack Niedenthal, Deputy Secretary Mailynn Konelios-Lang, Dr. Tom Jack, Francyne Wase-Jacklick
- Delap: Dr Mark Durand

Cases (Suspect & Confirmed) by Week of Onset - Ebeye & Majuro

<table>
<thead>
<tr>
<th>Week of Onset</th>
<th>Ebeye</th>
<th>Majuro</th>
<th>Outer Islands</th>
</tr>
</thead>
<tbody>
<tr>
<td># New in Past 7 Days</td>
<td>7</td>
<td>44</td>
<td>0</td>
</tr>
<tr>
<td># Hospitalized</td>
<td>126</td>
<td>52</td>
<td>0</td>
</tr>
<tr>
<td># in Hosp Now</td>
<td>4</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td># Died</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td># NS1 or IgM+ (# Tested)</td>
<td>106 (160)</td>
<td>55 (345)</td>
<td>0</td>
</tr>
<tr>
<td># PCR+ (# Tested)</td>
<td>15 (17)</td>
<td>5 (11)</td>
<td>0</td>
</tr>
</tbody>
</table>

Geographic Distribution of Suspect Cases

Attack Rates:

- RMI overall=11.4/1000
- Ebeye =22.4/1000 (widespread all wetos)
- Majuro= 13.2/1000

Cases by Village:

- Rita=14/1000
- Ajeltake=14/1000
- Delap=13/1000
- Uliga=14/1000
- Rongrong = 10/1000
- Jenrok = 10/1000
- Laura = 9/1000
- Rairok= 12/1000
- Woja= 19/1000
- Majuro= 13.2/1000

Summary of Cases

<table>
<thead>
<tr>
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<th>Majuro</th>
<th>Outer Islands</th>
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<tr>
<td># Suspected Cases</td>
<td>256</td>
<td>351</td>
<td>0</td>
</tr>
<tr>
<td># Confirmed Cases</td>
<td>76</td>
<td>101</td>
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