



Zika in Kosrae, Federated States of Micronesia

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SitRep #5

Kosrae EpiNet Team

Contact: Dr. Livinson Taulung Itaulung@fsmhealth.fm

Dr. Carolee Masao cmasao@fsmhealth.fm



Outbreak Overview

On March 15, 2015 Kosrae State was notified of its first confirmed case of Zika. Since Feb 2016 there have been 11 confirmed cases and 11 probable cases of Zika disease in Kosrae.

-Onset dates of first 3 confirmed (PCR+) cases: 02/23/2016, 03/19/2016, 4/2/2016. Ages (and sex): 49 (F), 37 (F), 21 (F). None with a travel history.

-68 other suspect cases identified since enhanced Zika surveillance began on 02/10/2016 when Marshall Islands reported a confirmed case.

Case Definition (updated)

Suspect: Rash AND/OR Fever AND any: retro-orbital pain, arthritis, non-purulent conjunctivitis, red eyes, body aches, edema, headache or malaise

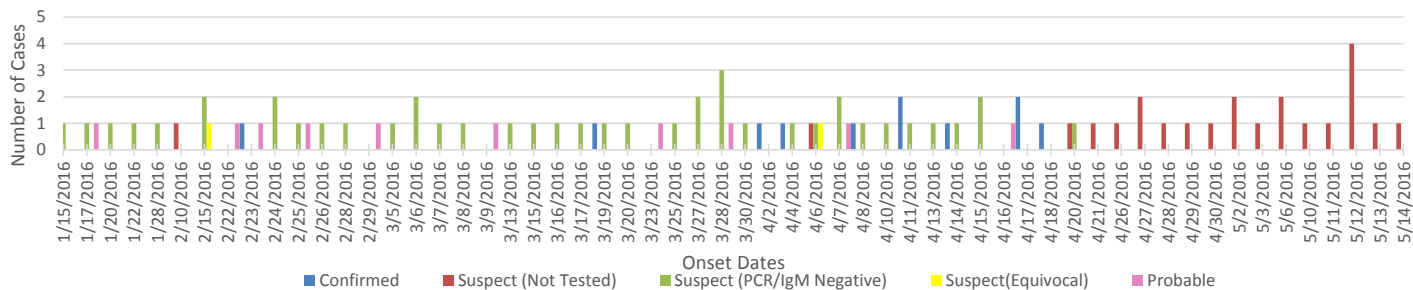
Probable: Suspect case with presence of IgM antibody against Zika virus and an epidemiological link

Confirmed: Meets suspect case definition with lab confirmation:
Zika RNA/antigen or
IgM+ with Zika PRNT90 titre ≥ 20 , ratio ≥ 4

General Case Counts

Total Cases: 90
Confirmed Cases: 11
Probable Cases: 11
Suspect Cases: 68
Median Age: 24 Yrs
Age Range: <1-75 Yrs
Percent Female: 50%
Pregnant Cases: 1

Cases by Date of Onset



Laboratory Testing

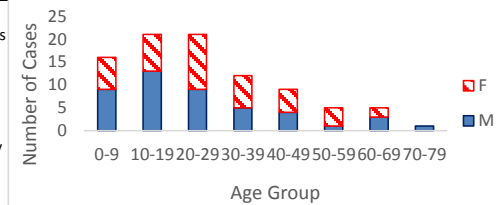
All confirmatory testing has been done by the Hawaii State Public Health Laboratory. Since Feb 10, 2016:

- 67 samples sent for testing
- 11 PCR positive for Zika
- 11 IgM positive for Zika
- 0 of 1 pregnant women are lab positive for Zika.

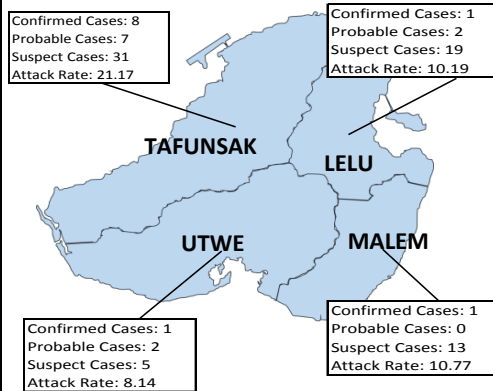
Response Measures

- EpiNet Team Activated with enhanced Surveillance
- Enhanced surveillance for Zika and Zika related outcomes at all clinics including OB/nursery
- Entomologic survey completed: main vectors *A. Albopictus* and *A. Egypti*
- Ongoing public awareness campaign (radio, posters, flyers) on: Zika awareness/prevention, Vector source reduction, Risks to unborn baby
 - Zika Prevention Kits distributed to Pregnant Women (bednets, repellent, condoms)
- Vector control efforts ongoing including source reduction at case homes, public areas, and island-wide clean-up with assistance from island mayors and Department of Transportation and Infrastructure
 - FSM Epidemiologist support continues
- MRC activated for municipalities public awareness/Health Ed, distributing Zika flyers, doing environmental inspections, and identifying any pregnant women w/o ANC
- Municipalities are continuing with disposal of heavy duty junk cars, washers and items that required heavy equipment usage, hence All mayors are submitting listing of places where items are to be hauled to the dumpsite. Furthermore, Kosrae island Resource Management is to work with DHS to clean up illegal dumpsites along sand mining areas where are potential breeding sites
- Streamline Zika Testing to pregnant mothers along with random testing of potential cases in the general population
 - Received bednets and repellent from CDC
- Follow up meeting with Health Advisory on progress on island clean up.
- Meetings and workshops with women groups will be convened

Cases by Age and Gender



Cases by Municipality



**Attack rates per 1000 pop

Response Needs

- A hand-compression sprayer for residual spraying
- Carbon-copy paper for printing Zika surveillance forms
- Printing support for risk communication flyers, posters, and pamphlets
- Transportation costs & overtime compensation for field investigation, lab, and medical records staff
- Backup portable hard drive and rechargeable laptop computer for Medical
- Records to facilitate continuation of Zika surveillance during power outage
- Overpacks for laboratory to package specimens for shipping
- Shipping costs for Zika testing at off-island reference laboratory
- Bednets and repellent for distribution to suspected cases and pregnant women
- Replacement stock of insecticides and vector surveillance equipment
- Resources to fill sandmining pits, remove abandoned cars, and cover open septic tanks around homes.
- Fuel and maintenance support for garbage trucks to transport trash from households to dump sites