American Samoa UHC Zika & Dengue Situation Report
(May 13 – 27, 2018)

### Activity Updates and Resource Needs

#### Epidemiology

**Activities & General Updates**
- Am. Samoa have not seen any ZIKV PCR positive cases since June 2016. From May 15 – 25, Hawaii State Lab released results for 113 samples tested via Zika MAC ELISA IgM testing, 10 were tested positive. Positive serology tests (IgM) for Zika was discussed and has been agreed to monitor PCR positive results. Awaiting PRNT testing. None of these patients were pregnant women.
- Continue to see a decline in the ratio of samples that test positive for Dengue Virus infection.
- Am. Samoa continuing with weekly Unified Health Command meeting to update key leaders and interdepartmental/agency partners.
- Dengue outbreak has been going on for 1 year (March 2017 – Present), 40 serum samples are sent to Hawaii State Lab (HSL) weekly for confirmatory PCR testing for Zika, Dengue, Chikungunya. Selection criteria for samples: samples from patients with any of the two symptoms (fever, rash, arthralgia, myalgia, headache, conjunctivitis).
- Syndromic Surveillance activities have been re-established. A Surveillance Nurse is now actively collecting data weekly, with help from LBJ Infection Control Manager.
- Am. Samoa gearing up for a campaign to eliminate Lymphatic Filariasis in Am. Samoa. In partnership with PIHOA, CDC, and WHO.
- Anticipating the arrival of two Epidemiology Technical Assistance on June 12. They will be in Am. Samoa for 3 weeks to assist with re-establishing/enhancing various surveillance activities.

**Next Steps**
- N/A

**Resource Needs/Requests of PHEP**
- N/A

#### Laboratory Testing

**Activities & General Updates**
- From May 14 to May 22, 2018, 86 serum samples were sent to Hawaii State Lab for Trioplex PCR testing for Zika, Dengue, and Chikungunya (Selection criteria: Any two symptoms of fever, rash, arthralgia, myalgia, headache, conjunctivitis).
- Hawaii State Lab released results for 40 samples tested via Trioplex PCR Assay (13 PCR Positive for Dengue 2 infection, all negative for ZIKV, CHKV infection).
- May 15 - 25: Hawaii State Lab released results for 113 samples tested via Zika MAC ELISA assay 10 tested IgM positive for ZIKV infection.
- May 21: Hawaii State Lab released results for Dengue serotyping. Only Dengue Type 2 detected among PCR positive samples.

**From November 1, 2016 to May 25, 2018:**
- 819 Dengue PCR positives (Hawaii State Lab)
- 71 Rapid Dengue Test kits: positive NS1 antigen (LBJ Lab)
- 26 PRNT Positive
- **Total: 916 Laboratory Confirmed cases document in the Cumulative Shipped List**

**Next Steps**
- N/A

**Resource Needs/Requests of PHEP**
- N/A

#### Clinical Support

**Activities & General Updates**
- There is a need to change "EHR flagging status" of women who were pregnant between Jan 2016 – April 2017 previously identified with laboratory evidence of ZIKV infection. Some of these women are pregnant again and should not be following ZIKV protocols for this current pregnancy.
- ZIKV "follow-up" protocols for women with laboratory evidence of infection will be for only those who were pregnant and tested positive (PCR or IgM) after to April 2017.

**Next Steps**
- Territorial Zika Response Plan is currently being edited to reflect policy mentioned above.

**Resource Needs/Requests of PHEP**
### Health Communications

#### Activities & General Updates
- Dengue awareness messages passed on to patients at the Community Health Centers.
- PHEP continues to broadcast ads on the electronic billboard.

#### Next Steps
- N/A

#### Resource Needs/Requests of PHEP
- N/A

### Vector Control

#### Activities & General Updates
- Vector control solid waste activities have stopped due to lack of funding and personnel. Strategy has shifted to enforcement. Teams are sent to villages with high attack rates, for inspection. Citations are issued to those owners who are not compliant with Public Health and Environmental laws for sanitation.
- Residual spraying have been discussed but no dates are finalized yet.

#### Next Steps
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#### Resource Needs/Requests of PHEP
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### Management/General Logistics

#### Activities & General Updates
- All response activities are managed by the Public Health Emergency Preparedness Division of the Department of Health.
- Weekly Updates are provided by the local Epidemiologist at the Unified Health Command meetings and through Situational reports submitted.

#### Next Steps
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#### Resource Needs/Requests of PHEP
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1. Epidemic Curve

Counts of Laboratory Confirmed Symptomatic Dengue patients per week from by week of symptom onset, November 2016 - April 2018, Am. Samoa Dengue Outbreak Response, May 25, 2018

Total Laboratory Confirmed cases: 915

Percent of samples sent for Triplex (Zika, Dengue, Chikungunya) positive for Dengue virus infection by Week of disease onset, Am. Samoa Dengue Outbreak Response November 1, 2016 - May 25, 2018
Attack Rates by Village (per 1000 individuals)