# American Samoa UHC Zika & Dengue Situation Report
(May 28 – June 10, 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 37 samples tested via ZIKA IgM MAC ELISA, 16 were tested positive. Positive serology tests (IgM) for Zika was discussed and has been agreed to monitor PCR positive results. Awaiting PRNT testing. One of these patients is a 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 inter departmental/agency partners.
- Dengue outbreak has been going on for 1 year (March 2017 – Present), 80 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.
- A Medical Technologist was hired with anticipated start date of June 10, 2018.

### Next Steps

- N/A

### Resource Needs/Requests of PHEP/ELC

- **N/A**

## Laboratory Testing

### Activities & General Updates
- From May 29 to June 10, 2018, 80 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 **126 samples tested via Trioplex PCR Assay** (52 PCR Positive for Dengue 2 infection, all negative for ZIKV, CHKV infection).
- May 29 – June 10: Hawaii State Lab released results for 37 samples tested via Zika MAC ELISA assay 16 tested IgM positive for ZIKV infection.
- Hawaii State Lab released results for Dengue serotyping. Only Dengue Type 2 detected among all PCR positive samples.
- From November 1, 2016 to June 10, 2018:
  - 870 Dengue PCR positives (Hawaii State Lab)
  - 74 Rapid Dengue Test kits: positive NS1 antigen (LBJ Lab)
  - 27 PRNT Positive
  - **Total: 971 Laboratory Confirmed cases document in the Cumulative Shipped List**

### Next Steps

- **N/A**

### Resource Needs/Requests of PHEP/ELC

- **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.
### 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/ELC**
- Need to hire or assign personnel specifically to start a Joint Information Center. This office will take the lead in developing and distributing health information within the department and ASG, and also to the public.

### Vector Control

**Activities & General Updates**
- Solid waste removal from villages has stopped. 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.
- Plans to conduct residual indoor spraying of schools during the months of July-August has been discussed.
- Unified Health Command recommends that the vector control team prepared educational materials and training for school teachers and maintenance crew to identify and remove mosquito breeding sites on school grounds.

**Next Steps**
- EHS Coordinator requested to add village names to the Tutuila Map showing attack rates.
- ELC funded Epidemiologist to provide support with preparing educational materials and training slides.

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

### Management/General Logistics

**Activities & General Updates**
- All response activities are managed and supported by the Epidemiology and Lab Capacity (ELC) Program, and the Public Health Emergency Preparedness Division of the Department of Health.
- Weekly Updates are provided by the ELC Funded Epidemiologist at the Unified Health Command meetings and through Situational reports submitted.

**Next Steps**
- Discuss Vector control activities, DOH Laboratory testing capacity
- Anticipating the arrival of CDC team to assist with enhancing syndromic, notifiable, and arboviral surveillance systems.

**Resource Needs/Requests of PHEP/ELC**
- N/A
Epidemiologic data for American Samoa-UHC Weekly Report – May 28 – June 10, 2018

1. Epidemic Curve

Counts of Laboratory Confirmed Symptomatic Dengue patients per week from by week of symptom onset, November 2016 - June 2018, Am. Samoa Dengue Outbreak Response, June 10, 2018

Total Laboratory Confirmed cases: 971

Percent of samples sent for Trioplex (Zika, Dengue, Chikungunya) positive for Dengue virus infection by Week of disease onset, Am. Samoa Dengue Outbreak Response November 1, 2016 - June 10, 2018
Attack Rates by Village (per 1000 individuals)