

# American Samoa UHC Zika & Dengue Situation Report

(June 10 – 24, 2018)

## Activity Updates and Resource Needs

### Epidemiology

#### Activities & General Updates

- Am. Samoa have not seen any ZIKV PCR positive cases since June 2016. From June 10 - 24, Hawaii State Lab released results for 81 samples tested via ZIKA IgM MAC ELISA, 10 were tested positive. Positive serology tests (IgM) for Zika was discussed and has been agreed to monitor PCR positive results.
- Am. Samoa 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 ongoing since March 2017. 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).
- Am. Samoa gearing up for a campaign to eliminate Lymphatic Filariasis in Am. Samoa. In partnership with PIHOA, CDC, and WHO. Mass Drug Administration trial run scheduled for 6/28/2018.
- CDC Technical Assistance arrived June 13, 2018. Will be here for three weeks to help re-establish/enhance notifiable, syndromic, arboviral, and event-based surveillance systems.

#### Next Steps

- N/A

#### Resource Needs/Requests of PHEP/ELC

- DOH LF Team to inquire funding support from ELC for up-coming MDA activities.

### Laboratory Testing

#### Activities & General Updates

- From June 10 to June 24, 2018, 76 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 **80 samples tested via Trioplex PCR Assay (13 PCR Positive for Dengue 2 infection, all negative for ZIKV, CHKV infection).**
- May 29 – June 10: Hawaii State Lab released results for 81 samples tested via Zika MAC ELISA assay 10 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 24, 2018:
  - 885 Dengue PCR positives (Hawaii State Lab)
  - 75 Rapid Dengue Test kits: positive NS1 antigen (LBJ Lab)
  - 28 PRNT Positive
  - **Total: 988 Laboratory Confirmed cases document in the Cumulative Shipped List**

#### Next Steps

- DOH Lab collaborating with CDC Arbo Virus Division to test the use of blood spot testing for Arbo Virus surveillance.

#### 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.

#### Resource Needs/Requests of PHEP/ELC

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### 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.

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#### 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

- N/A

#### Next Steps

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#### Resource Needs/Requests of PHEP/ELC

- ELC funded Epidemiologist to provide support with preparing educational materials and training slides.

### 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.

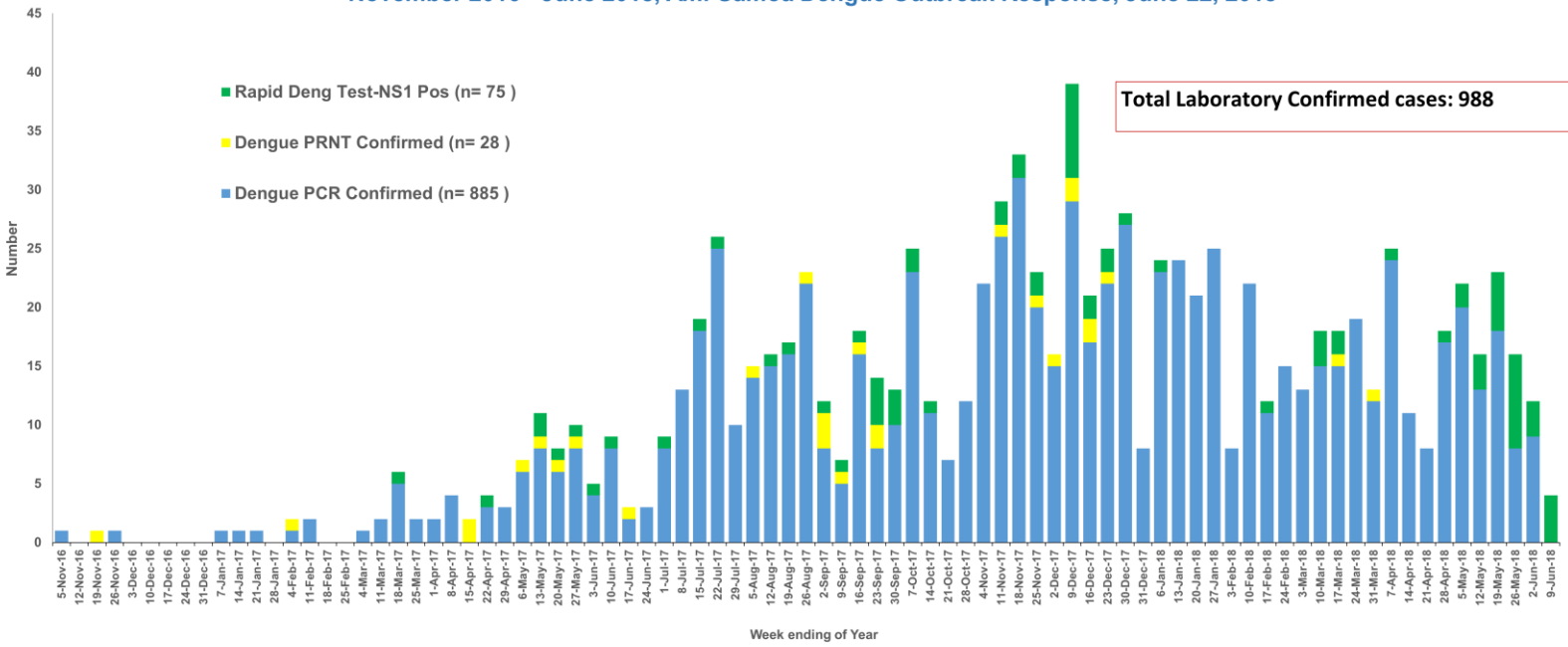
#### Resource Needs/Requests of PHEP/ELC

- N/A

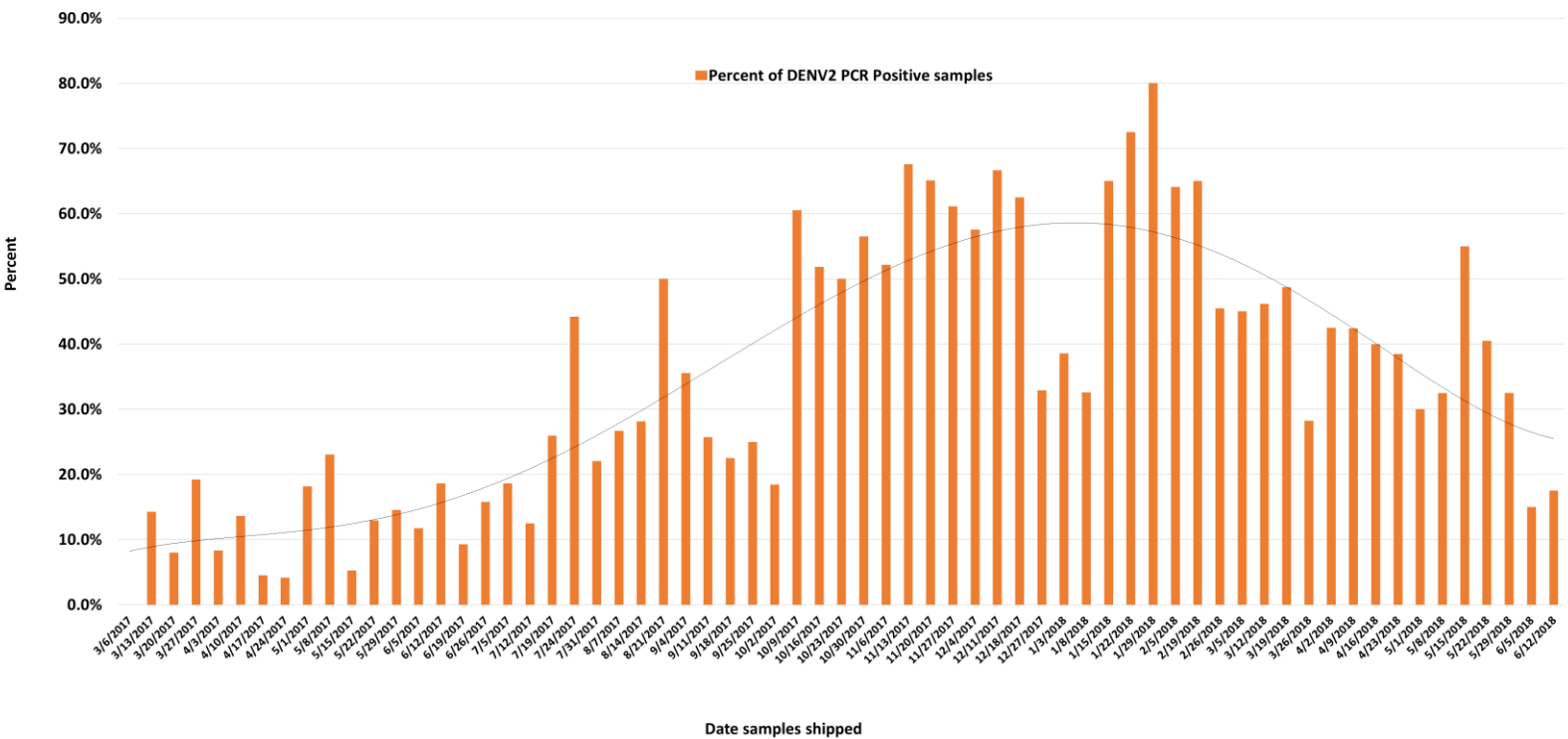
# Epidemiologic data for American Samoa-UHC Weekly Report –June 10 - 24, 2018

## 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 22, 2018

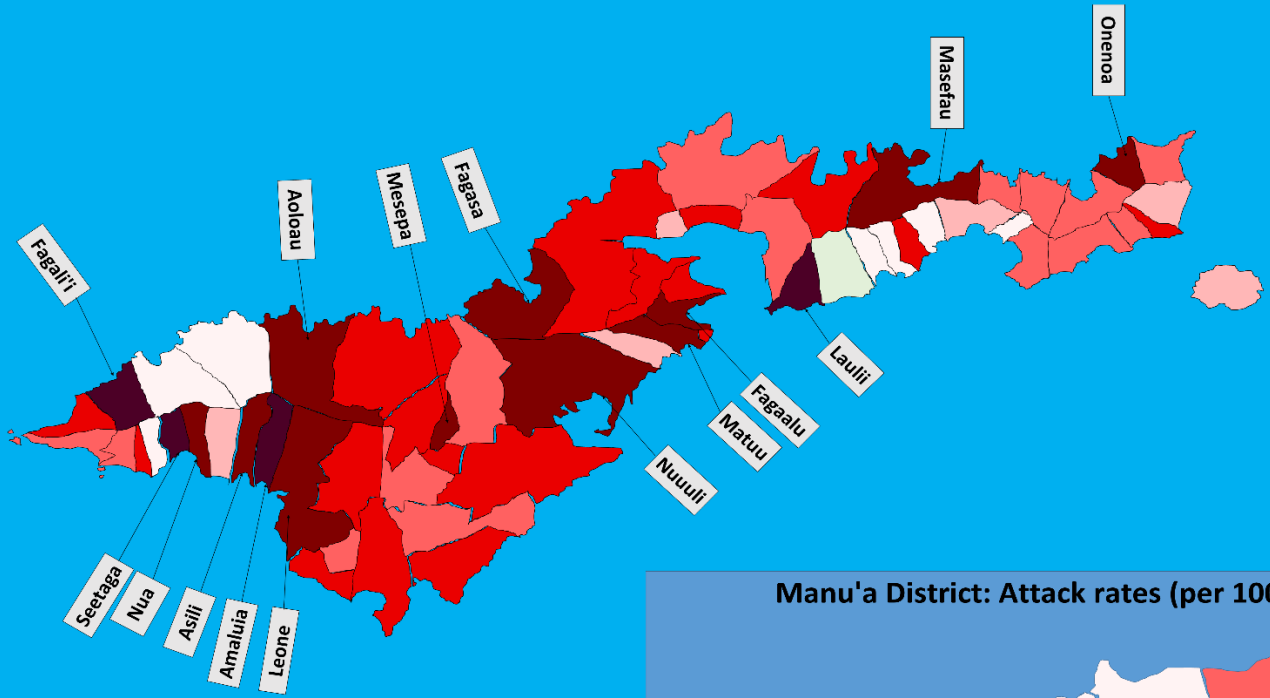


Percent of serum samples tested rt-RT PCR positive for Dengue virus infection, March 2017 - April 2018, American Samoa Dengue Outbreak Response - June 22, 2018

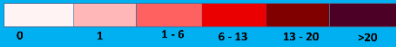


# Attack Rates by Village (per 1000 individuals)

## Tutuila Island: Attack rates (per 1000) by Village



### Attack Rate Scale (Per 1000 individuals)



## Manu'a District: Attack rates (per 1000)

