



Dengue Situation Report

Epi-week 10: 04 – 10 March 2024

Date of report: 11 March 2024

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Highlights

- As of 11th March, the number of lab-confirmed dengue cases continues to increase as shown in figure 1
- In this epi-week, there were 12 new cases recorded (see figure 2)
- The most affected age groups are those between 20-29 and over 60 years (see figure 4)
- The cases are densely distributed in the North West of Upolu (NWU) and Apia Urban Area regions; however, cases have been reported from all regions including Savaii (see figure 5)
- Majority of the cases presented at the TTM Hospital where most of the test requests were from.

Table 1. Case definition of dengue fever

Case definition and alert threshold

Alert threshold: Twice the average number of cases seen in the previous 3 weeks

Case definition:

Suspected case (clinical case definition):

Acute fever $\geq 38.0^{\circ}\text{C}$ for at least 2 days, AND two or more of the following:

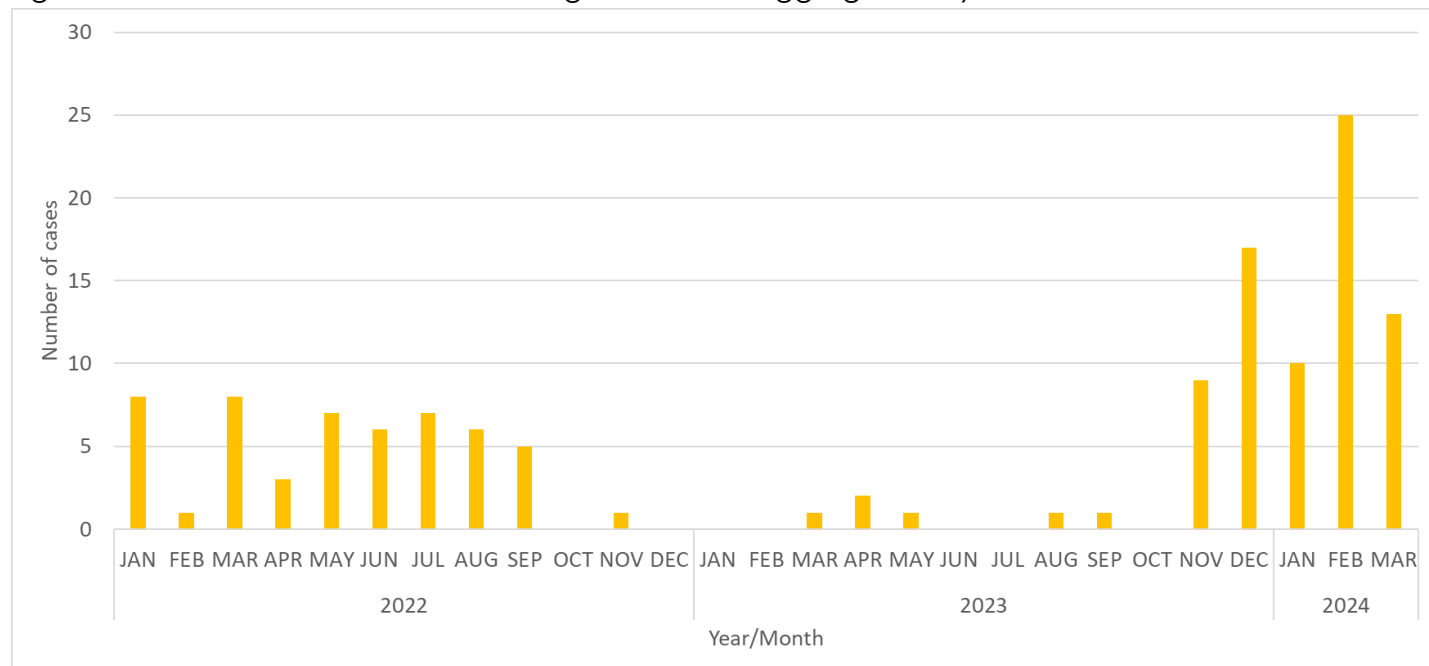
- Anorexia and nausea
- Aches and pains
- Rash
- Low white blood cell count
- Warning signs, including:
 - Abdominal pain or tenderness
 - Persistent vomiting
 - Mucosal bleeding
 - Liver enlargement $>2\text{cm}$ below costal margin
 - Clinical evidence of fluid accumulation
 - Lethargy, restlessness
 - Laboratory: increase in hematocrit, rapid decrease in platelet count

Confirmed case

Isolation of dengue virus or detection of dengue-specific antigen or antibodies in tissue, blood, CSF or other body fluid by an advanced laboratory test



Figure 1. Number of lab-confirmed dengue cases disaggregated by month, 2022 to date



Source: Clinical laboratory serology data

Figure 2. Number of lab-confirmed dengue cases by epi-week against the alert threshold

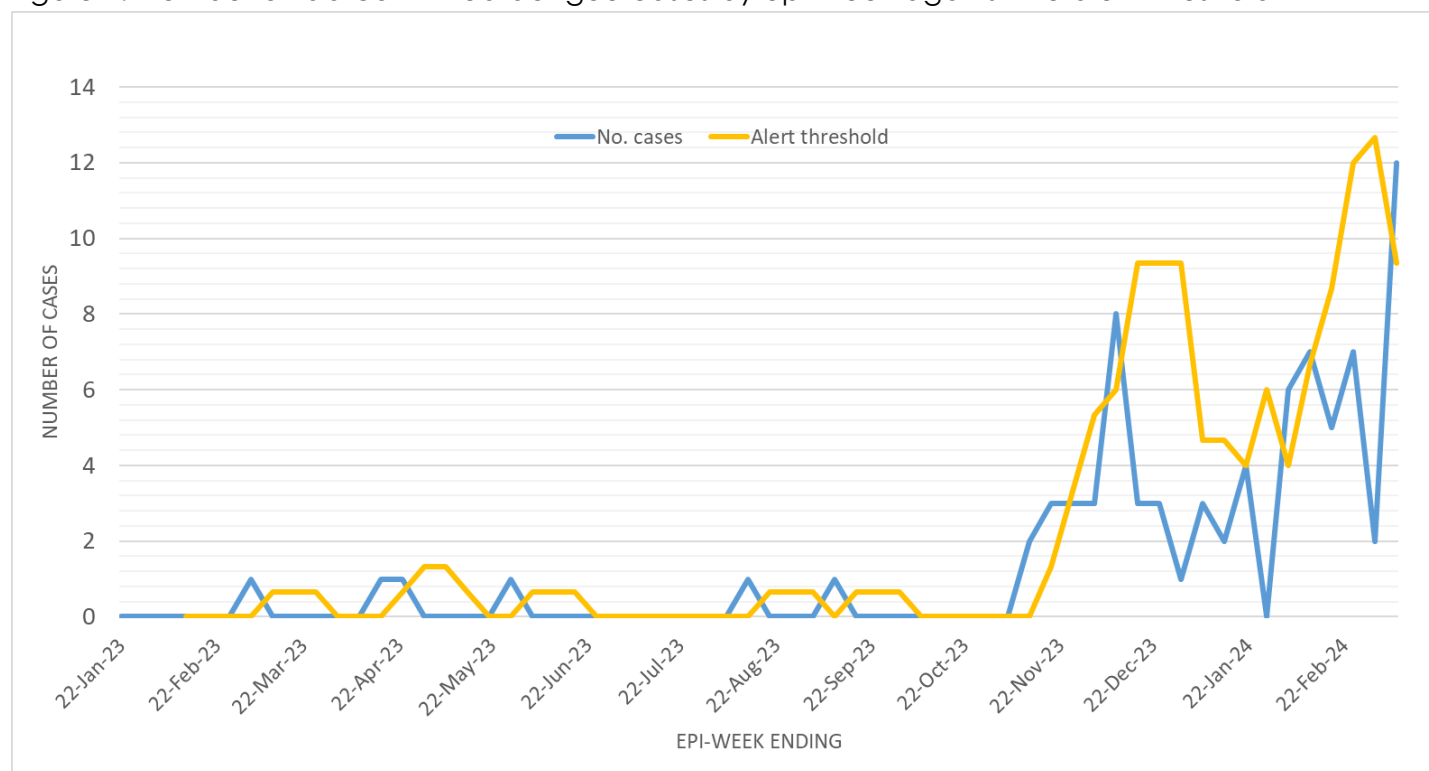
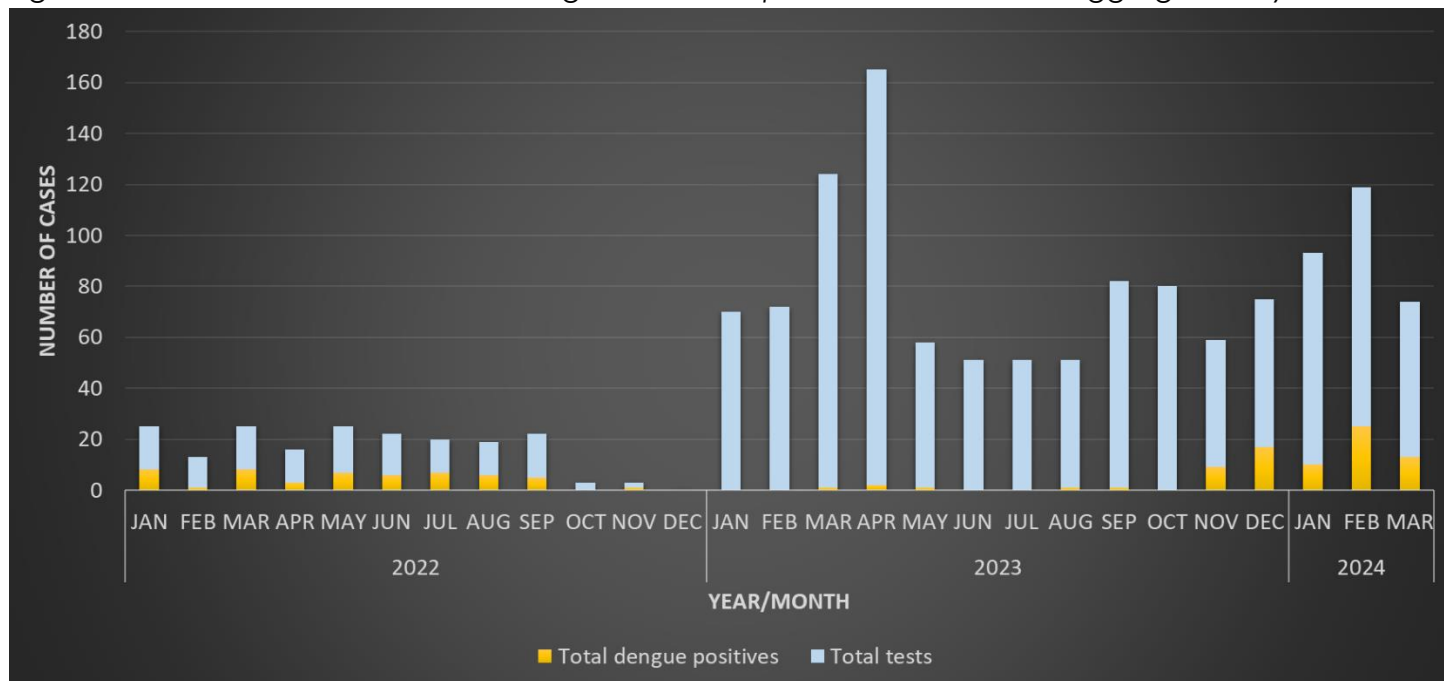
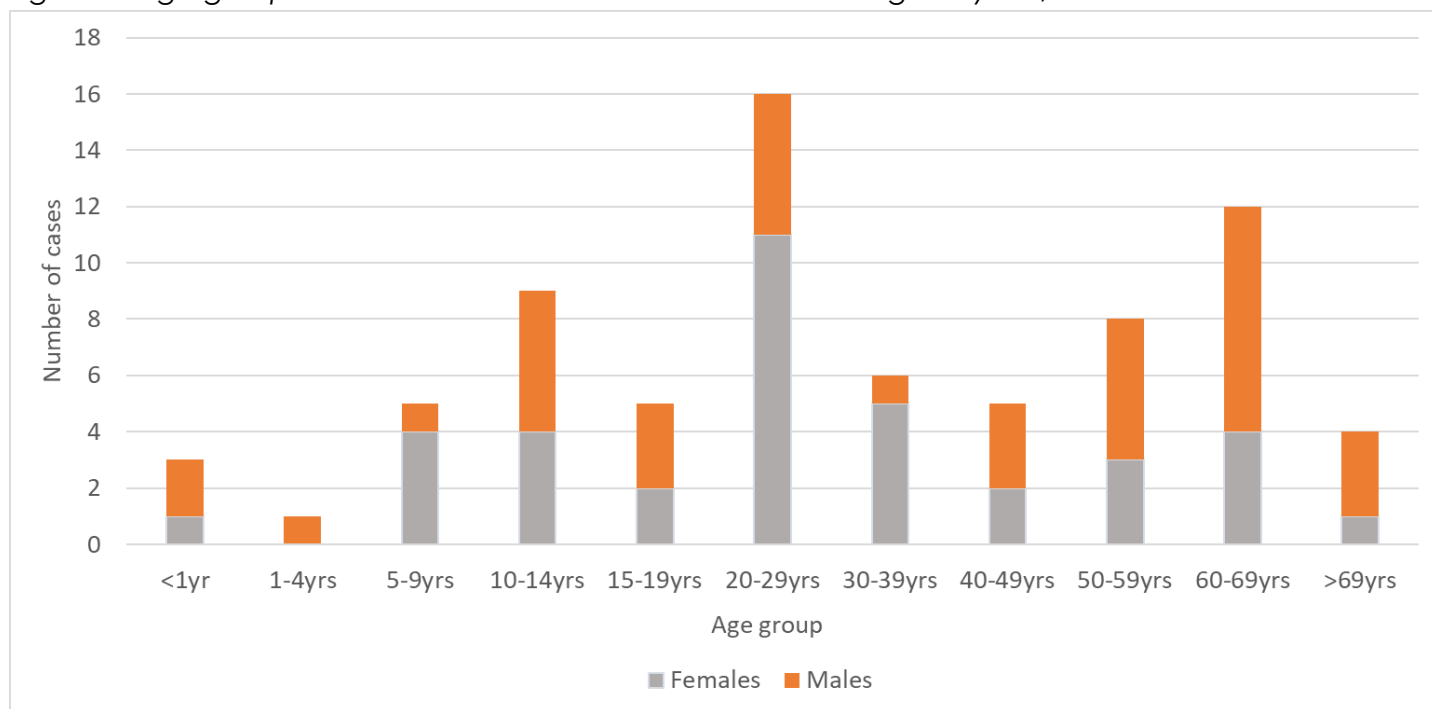


Figure 3. Number of lab-confirmed dengue vs test requests/conducted, disaggregated by month



Source: Clinical laboratory serology data

Figure 4. Age group distribution of lab-confirmed cases of dengue by sex, Nov 2023 to date

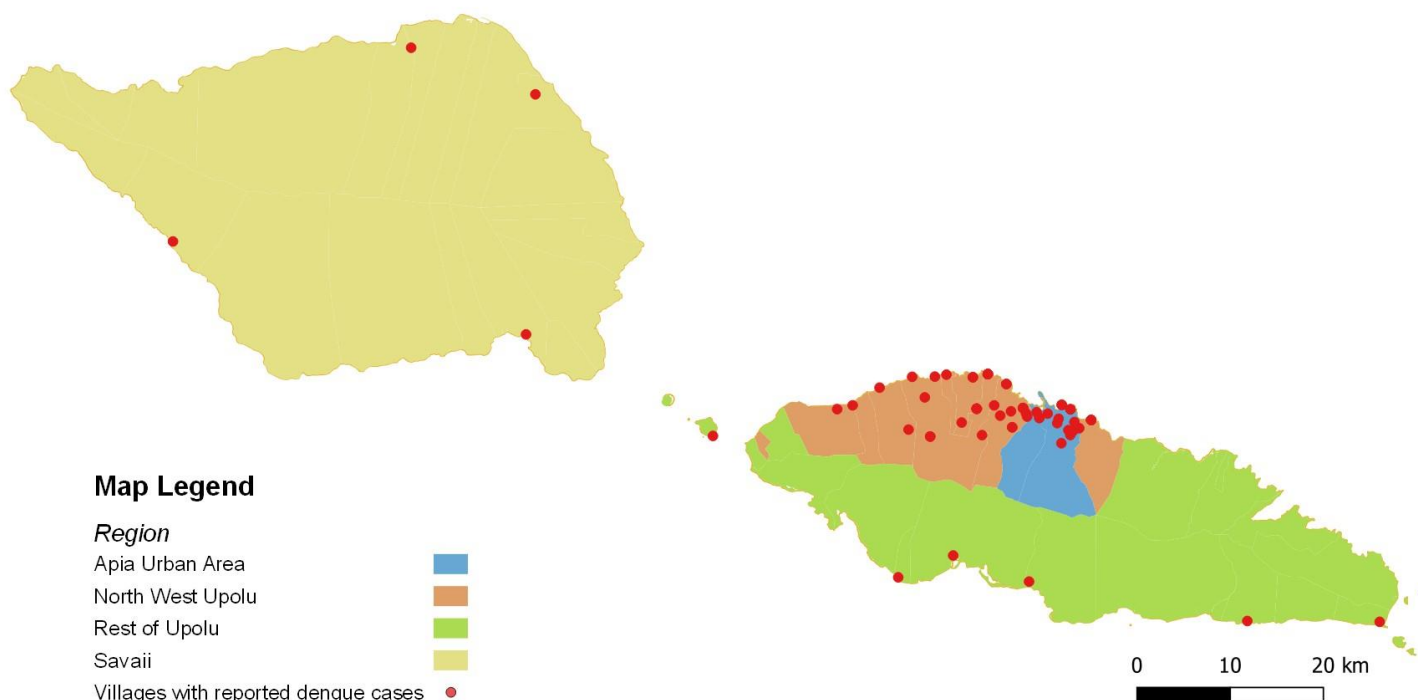


Source: Clinical laboratory serology data



Figure 5. Density map for lab-confirmed dengue cases by village, Nov 2023 to date
Source: Clinical surveillance data

Density map for reported cases of Dengue by village for the period November 12, 2023 - March 11, 2024



Actions taken

- Continue to boost media awareness on dengue preventative measures including talk shows and advertisement on all media outlets
- Integrated Vector Control Committee (IVCC) met on 5th March 2024 and formulated the following interventions:
 - Cabinet submission to propose for National Cleanup Campaigns
 - Raise and increase awareness on source reduction and preventative measures by working collaboratively with our partners such as:
 1. Ministry of Women, Community and Social Development (MWCSD) through the roles of Sui o Nuu and Sui Tama'ita'i o Nuu
 2. Samoa Tourism Authority (STA) through the National Beautification Committee and Accommodation Standards Inspection
 3. Land Transport Authority (LTA) through the Drainage Committee
 4. Ministry of Natural Resources and Environment (MNRE) through their ongoing cleanup programmes such as collection of heavy metals
 5. Ministry of Education, Sports and Culture (MESC) through health education in the school curriculum
 6. Samoa Airport Authority (SAA) and Samoa Shipping Corporation (SSC) through cleanup activities at the border
- Disseminated a public health alert to all clinicians to report and notify dengue like illnesses through syndromic surveillance and to test all symptomatic and suspected dengue patients

Recommendations for the public

- Continue to clean up and remove all stagnant water sources around the house to ensure breeding grounds of mosquitoes are eliminated
- Wear appropriate clothing to minimize mosquito bites
- Use mosquito nets and repellents such as lotion and sprays
- If you are affected, watch out for severe symptoms, and seek medical attention immediately. Monitor other people in the household for similar symptoms and present to the hospital for testing and health advise.