

**Denque-1 Outbreak, Cook Islands. Situation Report # 11: ending 5 April 2020**  
**Reporting Date: 10 April 2020**

**Overview: (new information in red text)**

- On the 27<sup>th</sup> of February 2019 an outbreak of Dengue type-1 was declared in the Cook Islands following the confirmation of seven (7) cases.
- 28 January 2019 to **5 April 2020**, a total of **236** cases were recorded, including confirmed and probable cases.
- January 2020 to **5 April 2020**: **115** cases including **12** DENV-1, and **8** DENV-2.
- Hospitalisation: A total of **59** cases since the beginning of the outbreak **including 4 current inpatient**. No deaths attributed to dengue infection.
- Aitutaki: **Positive DENV-2**, probable case from **last** month.
- No case reported in the rest of the Outer Islands
- Case definition used: **Fever**, with **one or more** of the following: nausea/vomiting, rash, aches and pains (e.g. headache, retro-orbital pain (eye pain), joint pain, myalgia, and arthralgia).
- Laboratory test: RTD SD duo to detect presumptive dengue virus infection, and random samples for LabPlus NZ for confirmation

**Public Health Response summary**

Vector (mosquito) control intervention program has been affected by the weather

- Raining almost every second day on Rarotonga making it impossible for peri-focal spraying. **This unfortunate weather is continuing.**
- Aitutaki:** Ongoing mosquito control activities

**Action Plans:**

- Community engagement: Districts (Puna) mass clean-up activities.**
- Support from government to assist each 10 Puna on Rarotonga, in terms of fuel (petrol/diesel), machineries – to clean overgrown sections; clear blocked streams/drainage.**

**Raise awareness**

- Emphasise source reduction: Get rid of mosquito breeding places in the community.
- Protection from mosquito bites. Apply insect repellents on exposed skin during the day

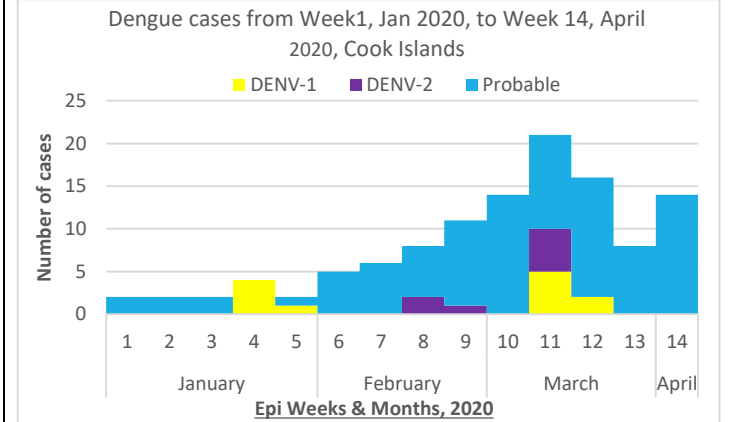
**Fig 1: Case Distribution by Islands**



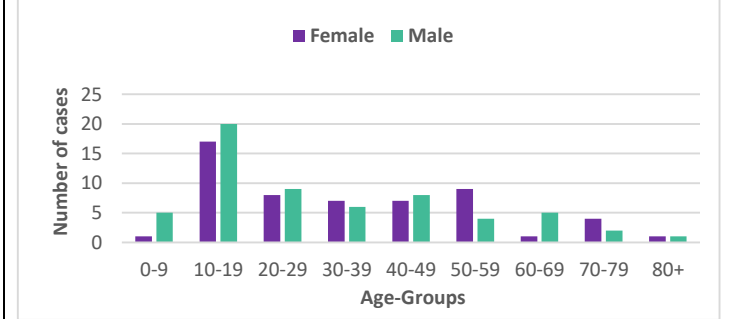
**Table 1: Summary counts of cases by Island from Jan 2019 to 05 April 2020**

Outcome	Confirmed DENV-1	Confirmed DENV-2	Probable	Total
Rarotonga	46	9	181	236
Aitutaki	3	2	0	5
Outer Islands	0	0	0	0
<b>TOTAL</b>	<b>49</b>	<b>11</b>	<b>181</b>	<b>241</b>

**Fig. 2: Epi Curve: Cases by Epi weeks- Jan 2020 to 5 April, 2020**



**Fig. 3: Gender and Age-group: Jan 2020 to 5 April 2020, Cook Islands**



Age range: 4 to 84 years old. 48% female; 52% male.

