



Early Warning | Performance Indicators

11

Total number of reporting locations

11

Total reports submitted

0

Total missing reports

100%

Completeness

100%

Timeliness



Alert | Active alerts

0

Total number of IBS* alerts
0% verified

0

Total number of EBS** alerts
0% verified

Notes on alerts:

* **Indicator-based surveillance (IBS)** alerts are based on 9 reported syndromes (see Annex 1 for case definitions and alert thresholds).

** **Event-based surveillance (EBS)** alerts are based on immediate reporting of infectious, chemical and environmental hazards that pose a potential risk to public health.

For more details and to manage the alerts, login to [Tonga EWARS](#)

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A. Indicator-based surveillance

Summary

Figure 1a | Proportional morbidity by syndrome (W8)

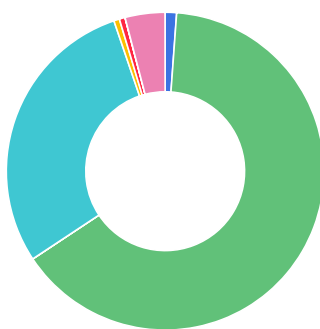


Figure 1b | Proportional IBS alerts by syndrome (W8)



This pie chart represents the proportional breakdown of the reportable syndromes under surveillance. These represented 5% of total morbidity in W8.

Statistical tables

Table 1a | Weekly and cumulative number of cases by syndrome

| Syndrome | W8 | | Cumulative 2018 | |
|---|------------|----------------------|-----------------|----------------------|
| | # cases | % morb. ¹ | # cases | % morb. ¹ |
| Acute Fever and Rash | 0 | 0.0% | 0 | 0.0% |
| Watery Diarrhoea | 50 | 29.1% | 308 | 26.3% |
| Influenza-like Illness | 111 | 64.5% | 754 | 64.5% |
| Prolonged Fever | 2 | 1.2% | 10 | 0.9% |
| Dengue-like illness | 0 | 0.0% | 0 | 0.0% |
| Bloody diarrhoea | 1 | 0.6% | 5 | 0.4% |
| Suspected meningitis | 0 | 0.0% | 1 | 0.1% |
| Acute jaundice syndrome | 1 | 0.6% | 3 | 0.3% |
| Severe acute respiratory infection (SARI) | 7 | 4.1% | 88 | 7.5% |
| Total consultations | 172 | 100% | 1,169 | 100% |

¹ Proportional morbidity (expressed as % of total consultations)

Table 1b | Alert performance indicators by type

| Syndrome | W8 | | Cumulative 2018 | |
|---|----------|-----------------------|-----------------|-----------------------|
| | # alerts | % verif. ² | # alerts | % verif. ² |
| Acute Fever and Rash | 0 | 0% | 0 | 0% |
| Watery Diarrhoea | 0 | 0% | 6 | 100% |
| Influenza-like Illness | 0 | 0% | 1 | 100% |
| Prolonged Fever | 0 | 0% | 0 | 0% |
| Dengue-like illness | 0 | 0% | 0 | 0% |
| Bloody diarrhoea | 0 | 0% | 0 | 0% |
| Suspected meningitis | 0 | 0% | 1 | 0% |
| Acute jaundice syndrome | 0 | 0% | 0 | 0% |
| Severe acute respiratory infection (SARI) | 0 | 0% | 0 | 0% |
| Event-based surveillance | 0 | 0% | 0 | 0% |
| Total alerts | 0 | 0% | 0 | 0% |

² Proportion of alerts that have been verified

Table 1c | Surveillance performance indicators by Island (W8)

| Location | Reporting | | Performance | |
|-----------|------------------|--------------------|--------------------|--------------------|
| | # sentinel sites | # reports received | Comp. ³ | Time. ⁴ |
| 'Eua | 1 | 1 | 100% | 100% |
| Ha'apai | 1 | 1 | 100% | 100% |
| Tongatapu | 8 | 8 | 100% | 100% |
| Vava'u | 1 | 1 | 100% | 100% |

³ Completeness of reporting

⁴ Timeliness of reporting

Table 1d | Alert performance indicators by Island

| Syndrome | W8 | | Cumulative 2018 | |
|-----------|----------|-----------------------|-----------------|-----------------------|
| | # alerts | % verif. ² | # alerts | % verif. ² |
| 'Eua | 0 | 0% | 6 | 100% |
| Ha'apai | 0 | 0% | 8 | 100% |
| Tongatapu | 0 | 0% | 104 | 2900% |
| Vava'u | 0 | 0% | 31 | 0% |

National trends by syndrome

Figure 2a | Acute Watery Diarrhoea and Bloody diarrhoea

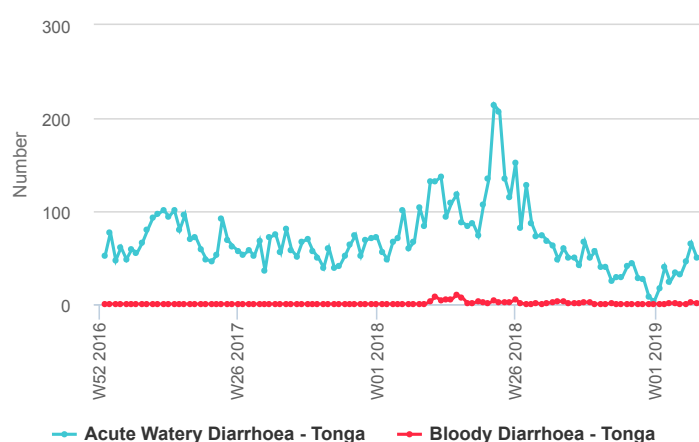


Figure 2b | Acute Fever and Rash (AFR) and Prolonged Fever

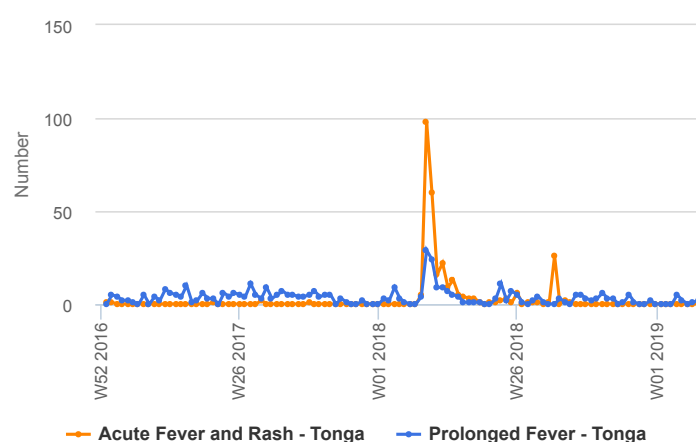


Figure 2c | Influenza-like Illness and SARI

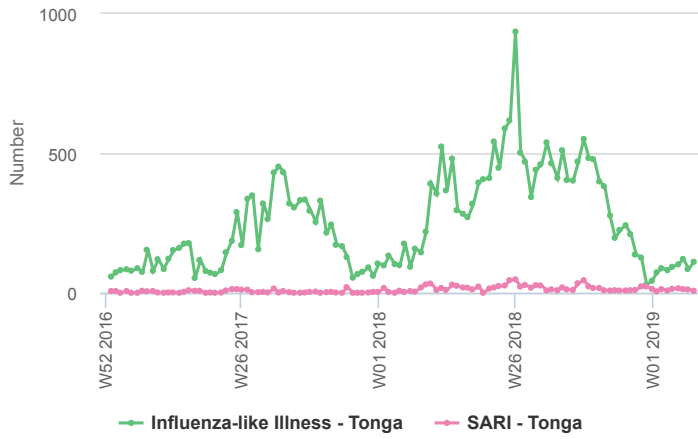
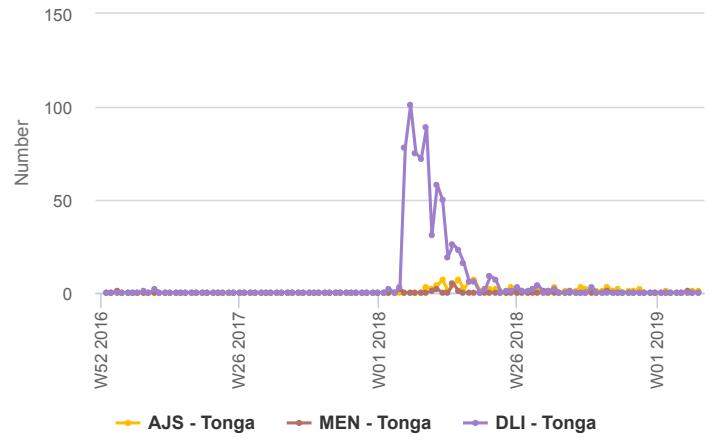


Figure 2d | Acute Jaundice Syndrome, Suspected Meningitis and DLI



All cause trends by Island

Figure 3a | 'Eua

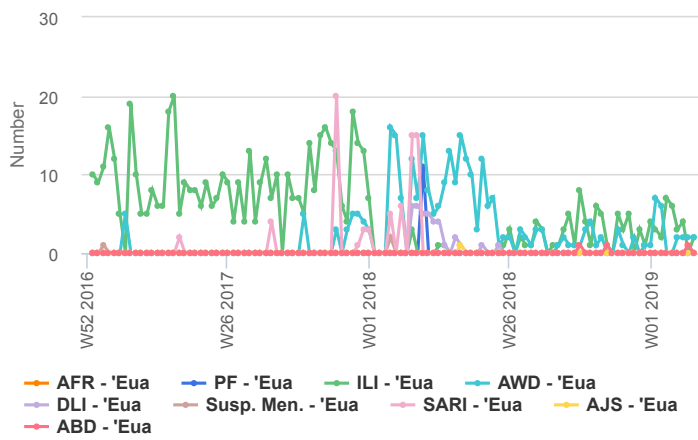


Figure 3b | Ha'apai

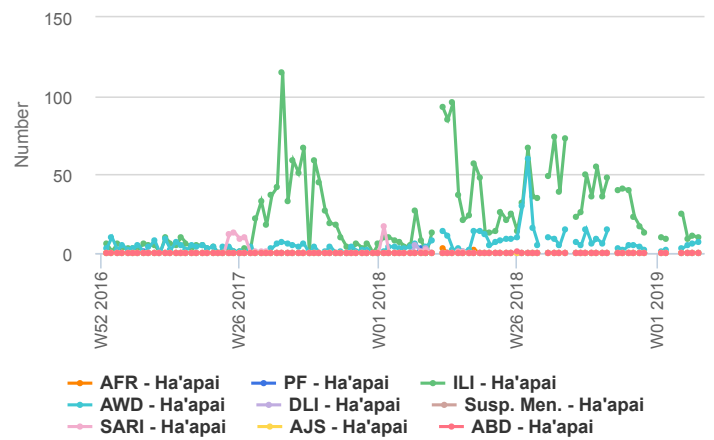


Figure 3c | Tongatapu

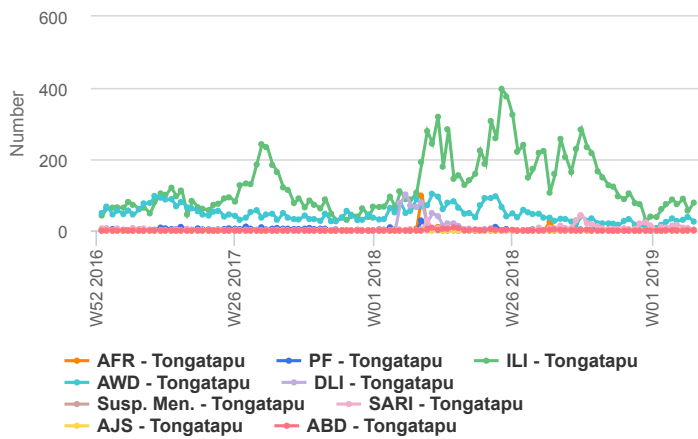
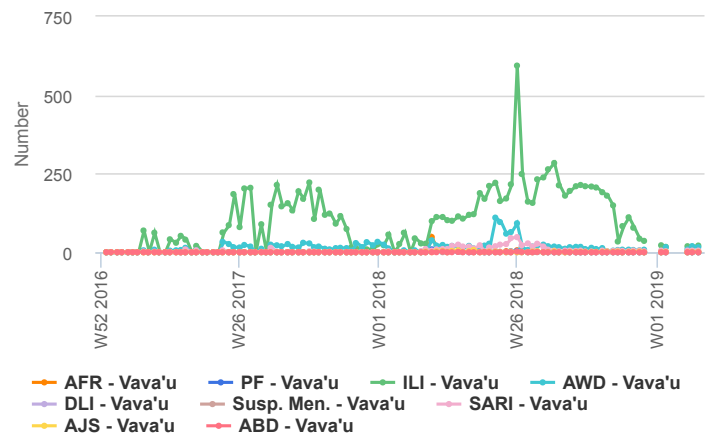


Figure 3d | Vava'u



Analysis by syndrome

Acute Fever and Rash

Table | Number of cases by Island

| Island | AFR |
|-----------|-----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 0 |
| Vava'u | 0 |

Figure | Number of cases by Island (W8 2019)

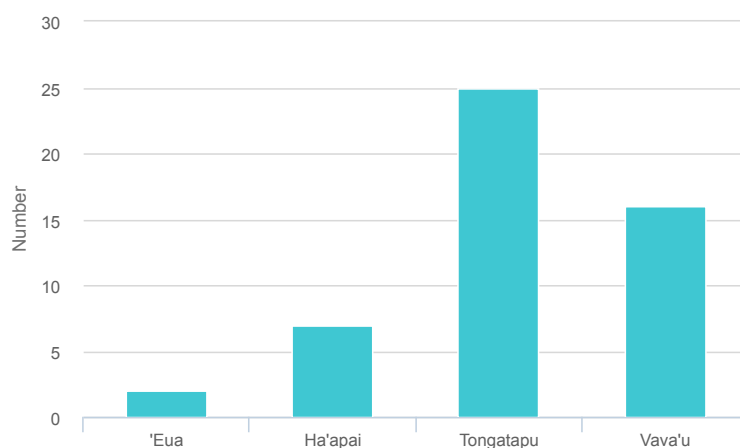


Acute Watery Diarrhoea

Table | Number of cases by Island

| Island | AWD |
|-----------|-----|
| 'Eua | 2 |
| Ha'apai | 7 |
| Tongatapu | 25 |
| Vava'u | 16 |

Figure | Number of cases by Island (W8 2019)



Influenza-like Illness

Table | Number of cases by Island

| Island | ILI |
|-----------|-----|
| 'Eua | 2 |
| Ha'apai | 10 |
| Tongatapu | 78 |
| Vava'u | 21 |

Figure | Number of cases by Island (W8 2019)

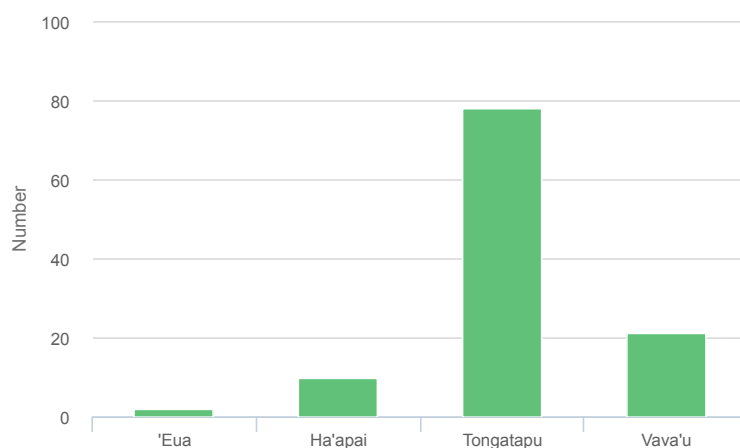
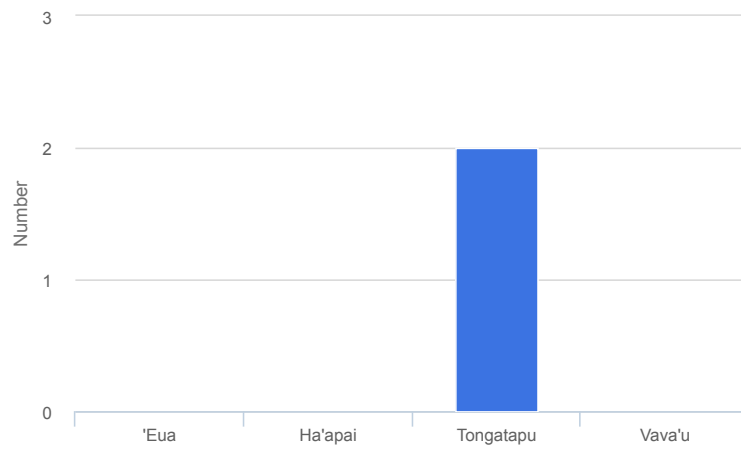


Table | Number of cases by Island

| Island | PF |
|-----------|----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 2 |
| Vava'u | 0 |

Figure | Number of cases by Island (W8 2019)

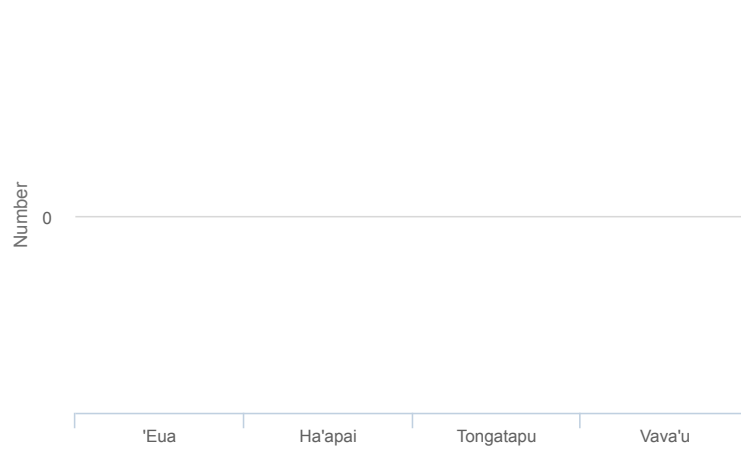


Dengue-like illness

Table | Number of cases by Island

| Island | DLI |
|-----------|-----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 0 |
| Vava'u | 0 |

Figure | Number of cases by Island (W8 2019)



Bloody Diarrhoea

Table | Number of cases by Island

| Island | BD |
|-----------|----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 1 |
| Vava'u | 0 |

Figure | Number of cases by Island (W8 2019)

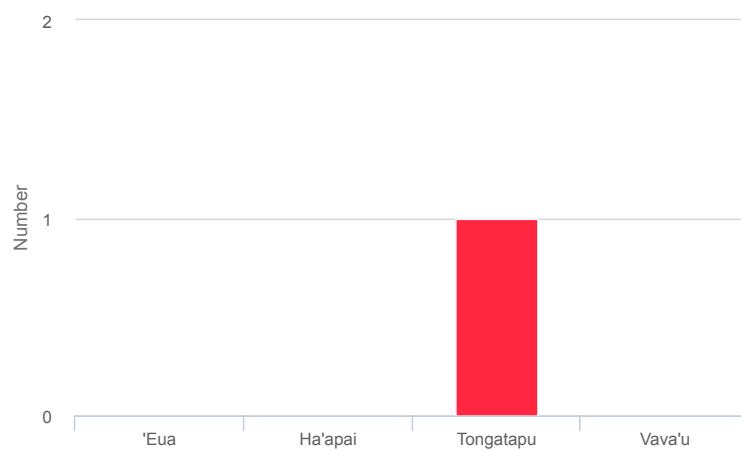


Table | Number of cases by Island

| Island | AWD |
|-----------|-----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 0 |
| Vava'u | 0 |

Figure | Number of cases by Island (W8 2019)



Acute Jaundice Syndrome

Table | Number of cases by Island

| Island | MEN |
|-----------|-----|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 0 |
| Vava'u | 1 |

Figure | Number of cases by Island (W8 2019)

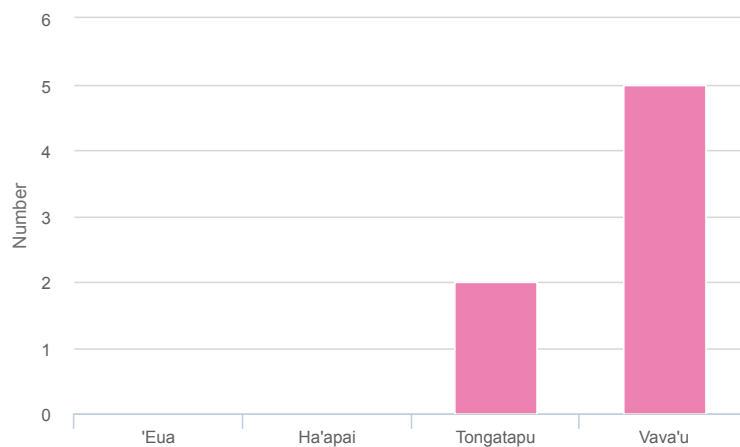


Severe acute respiratory infection (SARI)

Table | Number of cases by Island

| Island | SARI |
|-----------|------|
| 'Eua | 0 |
| Ha'apai | 0 |
| Tongatapu | 2 |
| Vava'u | 5 |

Figure | Number of cases by Island (W8 2019)



B. Annexes

Annex 1 | Case Definitions

| Syndrome | Case Definition | Alert Threshold |
|---|---|--|
| Acute Fever and Rash | Fever plus rash | 1 case |
| Prolonged fever | Fever for 3 days or more | Twice the average number of cases seen in the previous 2 weeks |
| Influenza-like illness | Fever plus cough or sore throat | Twice the average number of cases seen in the previous 2 weeks |
| Watery diarrhoea | 3 or more loose or watery stools in 24 hours (non-bloody) | Twice the average number of cases seen in the previous 2 weeks |
| Bloody diarrhoea | Any episode of acute bloody diarrhea | 3 cases in one location in 1 week or twice the average number of cases seen in the previous 2 weeks |
| Acute jaundice syndrome | Jaundice (yellow eyes or dark urine), and severe illness with or without fever | 3 cases |
| Dengue-like illness | Fever for at least 2 days, plus at least two of the following: i. Nausea or vomiting; ii. Muscle or joint pain; iii. Severe headache or pain behind the eyes; iv. Rash; v. Bleeding | Twice the average number of cases seen in the previous 3 weeks |
| Suspected meningitis | Sudden onset of fever, plus one or more of the following: i. Severe headache; ii. Neck stiffness; iii. Altered consciousness; iv. Petechial/purpurral rash | 1 case |
| Severe acute respiratory infection (SARI) | Influenza-like illness (ILI) and hospitalisation or , if at a Health Centre, ILI and referral to main hospital | Twice the average number of cases seen in the previous 2 weeks |

Data Sources

EWARS Sentinel Reporting Sites

Contact Information

Ministry of Health
Nuku'alofa, Tonga
Telephone: #23200

Ministry of Health
Nuku'alofa, Tonga
Email:
Telephone:



Global
EWARS

Learn more about EWARS
<http://ewars-project.org>

Tonga EWARS

has been deployed since Feb 2018 in response to Tropical Cyclone Gita. It is supporting Tonga MoH in enhancing syndromic surveillance to its 11 sentinel sites using mobile technology.
<http://to.ewars.ws/login>



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