



**Early Warning** | Performance Indicators

**11**

Total number of reporting locations

**11**

Total reports submitted

**0**

Total missing reports

**100%**

Completeness

**64%**

Timeliness



**Alert** | Active alerts

**2**

Total number of IBS\* alerts  
100% 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](#)

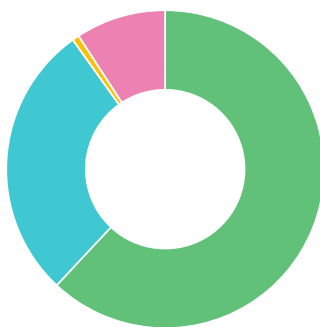
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**A. Indicator-based surveillance**

**Summary**

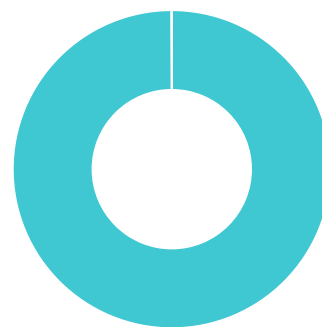
**Figure 1a** | Proportional morbidity by syndrome (W2)



- Acute Fever and Rash
- Prolonged Fever
- Influenza-like Illness
- Watery Diarrhoea
- Bloody diarrhoea
- Acute Jaundice Syndrome
- Suspected Dengue
- Suspected Meningitis
- SARI

This pie chart represents the proportional breakdown of the reportable syndromes under surveillance. These represented 4% of total morbidity in W2.

**Figure 1b** | Proportional IBS alerts by syndrome (W2)



- Acute Fever and Rash
- Prolonged Fever
- Influenza-like Illness
- Watery Diarrhoea
- Bloody diarrhoea
- Acute Jaundice Syndrome
- Suspected Dengue
- Suspected Meningitis
- SARI

# Statistical tables

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

Syndrome	W2		Cumulative 2018	
	# cases	% morb. <sup>1</sup>	# cases	% morb. <sup>1</sup>
Acute Fever and Rash	0	0.0%	0	0.0%
Watery Diarrhoea	40	28.2%	193	23.2%
Influenza-like Illness	88	62.0%	558	67.1%
Prolonged Fever	0	0.0%	7	0.8%
Dengue-like illness	0	0.0%	0	0.0%
Bloody diarrhoea	0	0.0%	2	0.2%
Suspected meningitis	0	0.0%	1	0.1%
Acute jaundice syndrome	1	0.7%	1	0.1%
Severe acute respiratory infection (SARI)	13	9.2%	69	8.3%
<b>Total consultations</b>	<b>142</b>	<b>100%</b>	<b>831</b>	<b>100%</b>

<sup>1</sup> Proportional morbidity (expressed as % of total consultations)

**Table 1b** | Alert performance indicators by type

Syndrome	W2		Cumulative 2018	
	# alerts	% verif. <sup>2</sup>	# alerts	% verif. <sup>2</sup>
Acute Fever and Rash	0	0%	0	0%
Watery Diarrhoea	2	100%	5	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%
<b>Total alerts</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0%</b>

<sup>2</sup> Proportion of alerts that have been verified

**Table 1c** | Surveillance performance indicators by Island (W2)

Location	Reporting		Performance	
	# sentinel sites	# reports received	Comp. <sup>3</sup>	Time. <sup>4</sup>
'Eua	1	1	100%	100%
Ha'apai	1	1	100%	0%
Tongatapu	8	8	100%	63%
Vava'u	1	1	100%	100%

<sup>3</sup> Completeness of reporting

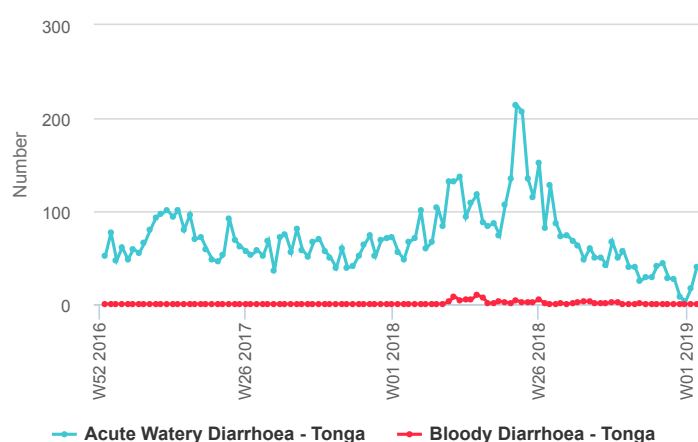
<sup>4</sup> Timeliness of reporting

**Table 1d** | Alert performance indicators by Island

Syndrome	W2		Cumulative 2018	
	# alerts	% verif. <sup>2</sup>	# alerts	% verif. <sup>2</sup>
'Eua	0	0%	6	100%
Ha'apai	0	0%	8	100%
Tongatapu	2	200%	99	2400%
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

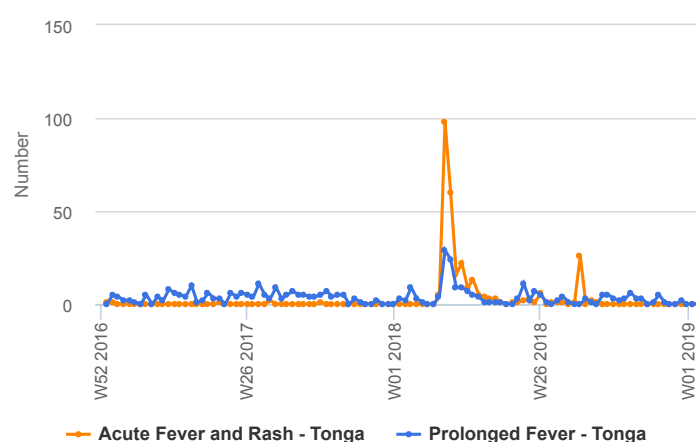


Figure 2c | Influenza-like Illness and SARI

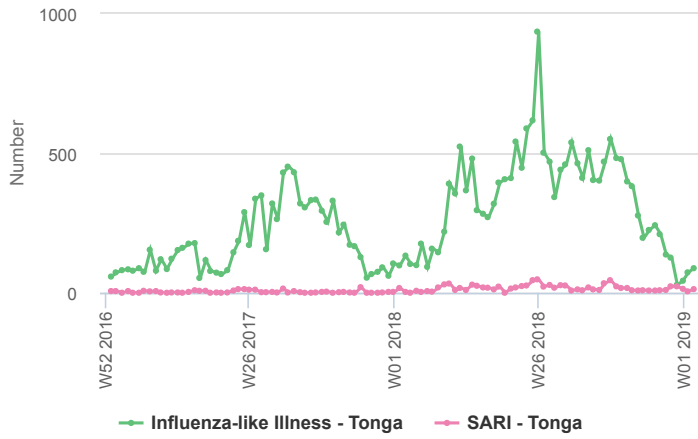
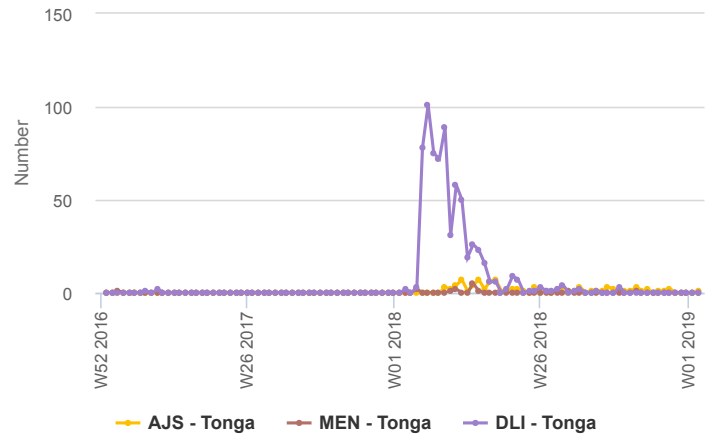


Figure 2d | Acute Jaundice Syndrome, Suspected Meningitis and DLI



All cause trends by Island

Figure 3a | 'Eua

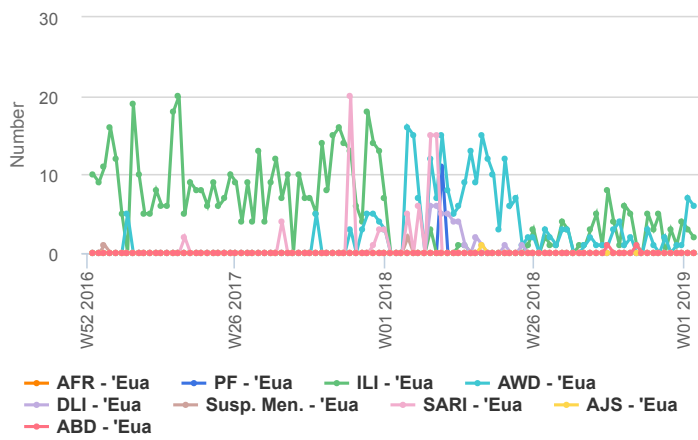


Figure 3b | Ha'apai

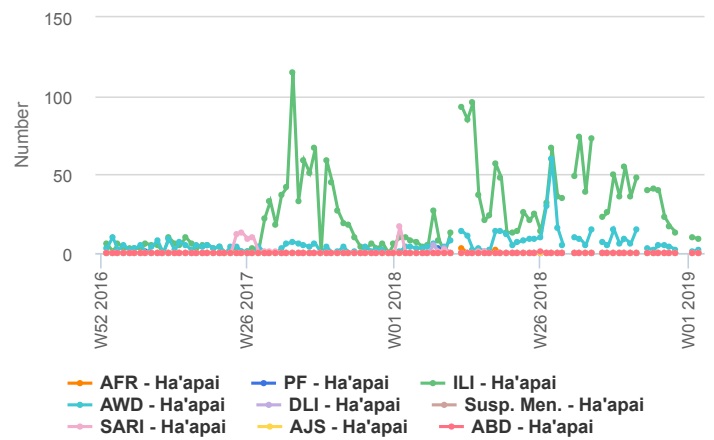


Figure 3c | Tongatapu

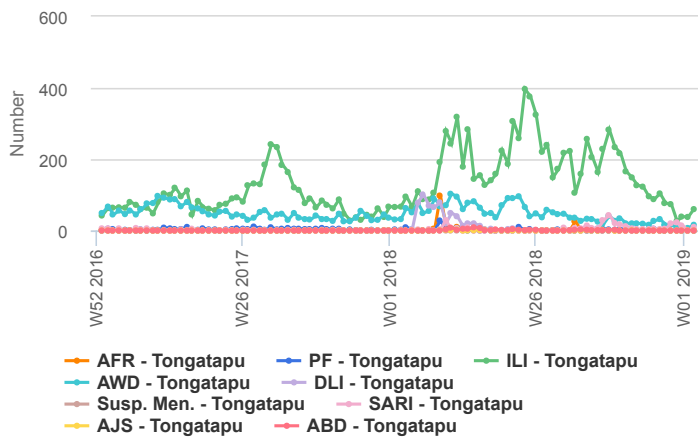
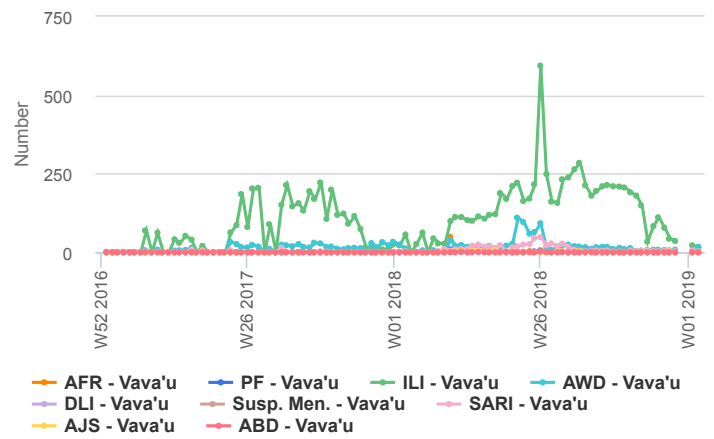


Figure 3d | Vava'u



## 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 (W2 2019)

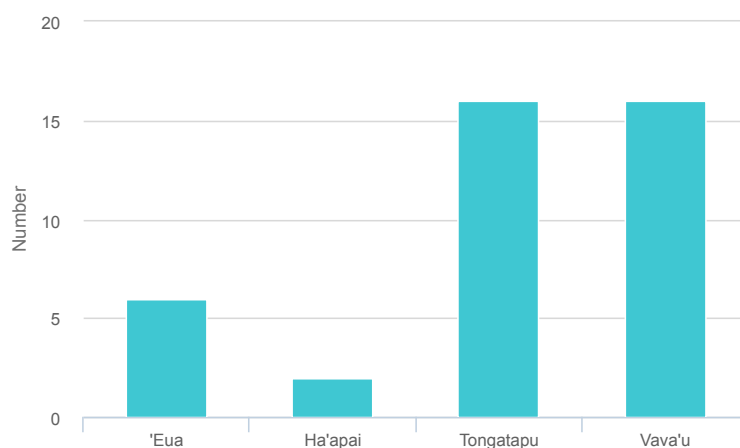


### Acute Watery Diarrhoea

**Table** | Number of cases by Island

Island	AWD
'Eua	6
Ha'apai	2
Tongatapu	16
Vava'u	16

**Figure** | Number of cases by Island (W2 2019)

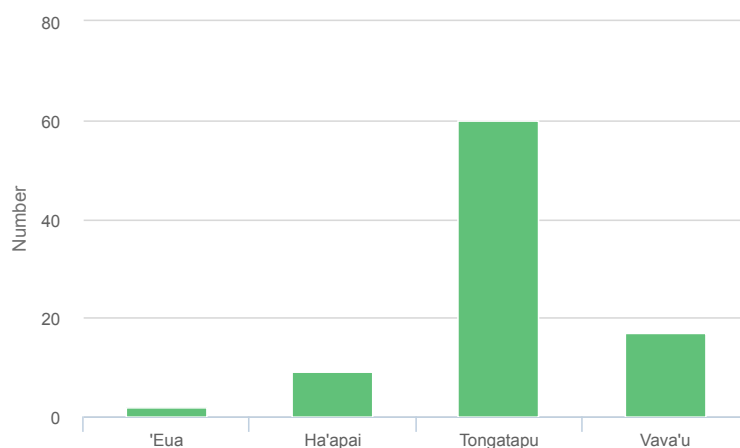


### Influenza-like Illness

**Table** | Number of cases by Island

Island	ILI
'Eua	2
Ha'apai	9
Tongatapu	60
Vava'u	17

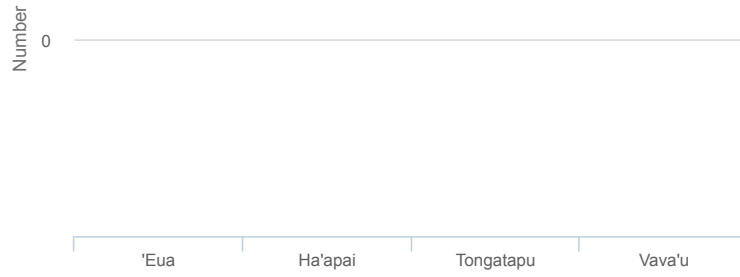
**Figure** | Number of cases by Island (W2 2019)



**Table** | Number of cases by Island

Island	PF
'Eua	0
Ha'apai	0
Tongatapu	0
Vava'u	0

**Figure** | Number of cases by Island (W2 2019)

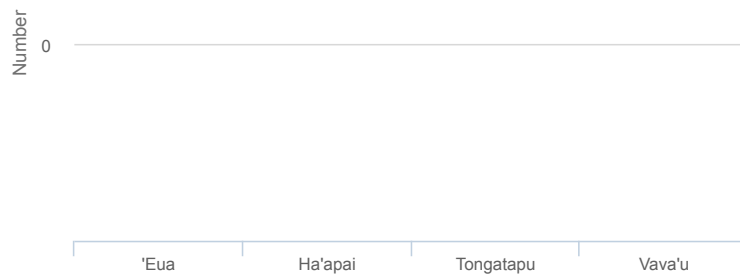


Dengue-like illness

**Table** | Number of cases by Island

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

**Figure** | Number of cases by Island (W2 2019)

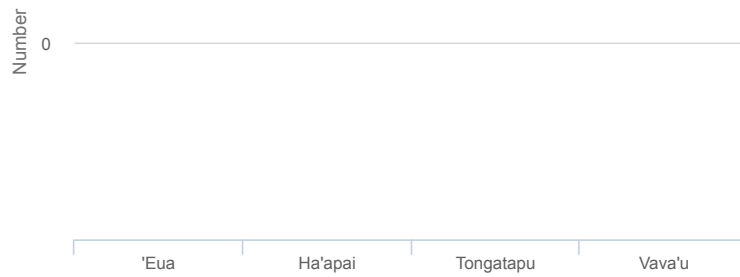


Bloody Diarrhoea

**Table** | Number of cases by Island

Island	BD
'Eua	0
Ha'apai	0
Tongatapu	0
Vava'u	0

**Figure** | Number of cases by Island (W2 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 (W2 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 (W2 2019)

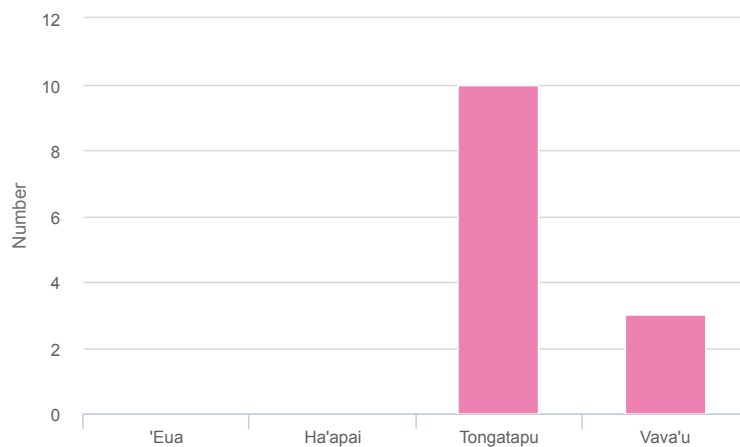


Severe acute respiratory infection (SARI)

**Table |** Number of cases by Island

Island	SARI
'Eua	0
Ha'apai	0
Tongatapu	10
Vava'u	3

**Figure |** Number of cases by Island (W2 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 <b>or</b> twice the average number of cases seen in the previous 2 weeks
Acute jaundice syndrome	Jaundice (yellow eyes or dark urine), <b>and</b> severe illness with or without fever	3 cases
Dengue-like illness	Fever for at least 2 days, <b>plus at least two</b> 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, <b>plus one or more</b> 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 <b>or</b> , 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

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