



**GOVERNMENT OF SIERRA LEONE  
MINISTRY OF HEALTH AND SANITATION  
DIRECTORATE OF HEALTH SECURITY AND EMERGENCIES**

**WEEK 3**

**WEEKLY NATIONAL EPIDEMIOLOGICAL BULLETIN**

*Disease specific report*

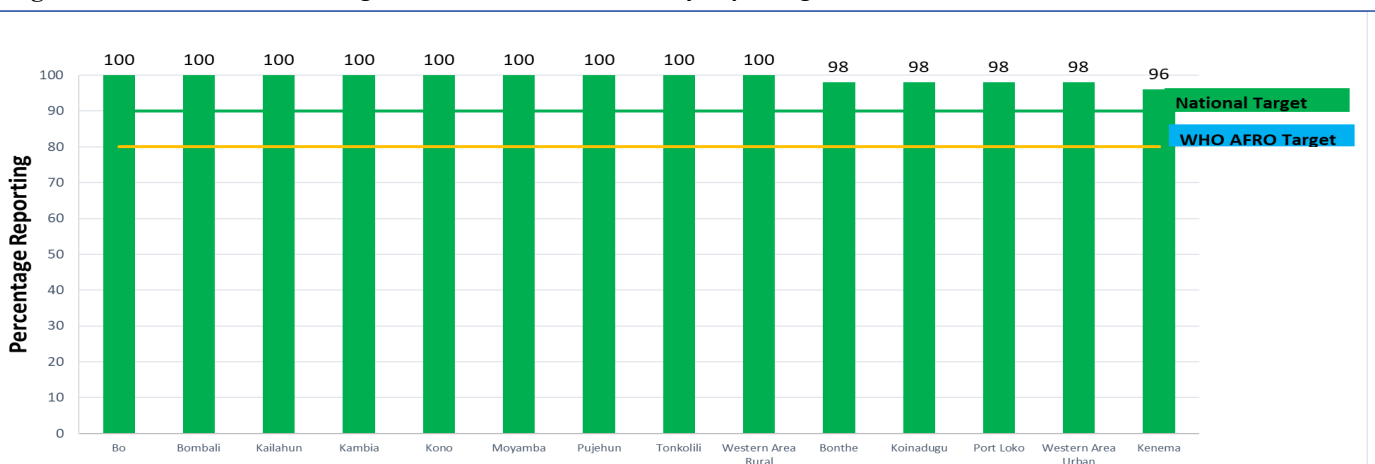
**Week 03, 13th to 19th January 2020**

- **Acute Flaccid Paralysis (AFP).** One case of AFP was reported for this week from Kailahun district. Sample was collected and sent to CPHRL for shipment.
- **Acute Viral Haemorrhagic fever:** One suspected case reported, from Kono district. The case was a 7 year old female. Sample was collected and tested positive for Lassa fever at the Kenema Lab. The case died at the Koidu Government hospital.
- **Measles:** One suspected case was reported from Kailahun. The case was tested negative for measles.
- **Maternal death:** 8 maternal deaths were reported country-wide, a little than the 7 reported the previous week. Of these, 3 were from Westrn Area Urban, 2 from Kenema and 1 each from Port Loko, Kambia and Bo districts.
- which had no case.
- **Animal bite:** In total 28 animal bite cases were reported countrywide with no related death. Five (5) cases were reported from Pujehun district, Bombali and Western Area Rural (3), Bonthe, Kono and Western Area Urban (2), two each and the rest of the other districts reporting 1 each with the excepting of Port Loko that reported zero case
- **Dysentery (Bloody diarrhoea):** In total 57 cases were reported. Kono and Koinadugu districts reported the highest 17 and 10 respectively accounting for (47%) of the total cases.
- **Severe malnutrition in under five :** In total, 658 cases including 11 deaths were reported. Kenema 79, Pujehun 77, Kambia 65, Moyamba 64 and Kailahun 62 reported the highest number of cases.
- **Malaria:** Of the 60,135 suspected malaria cases reported for week three, 59,495 (98.9%) were tested and 33,582 were positive, giving a positivity rate of (56.4%). The national cumulative incidence for week three is 13 per 1000 population. A total of 89 malaria deaths were reported
- **Neonatal Tetanus (NNT).** One case of NNT was reported from Bonthe district. The RRT investigated the case and report sent to national
- **Yellow Fever:** One case of suspected yellow fever was reported this week from Kailahun district. Sample was collected and tested negative.
- **Zero reporting:** Zero cases were reported for AEFI, Anthrax, Buruli ulcer, Chikungunya, Cholera, Dengue Fever, Dracunculiasis (Guinea worm), Influenza due to new subtype, Measles, Meningococcal Meningitis, Monkeypox, Plague and Smallpox.

Intra-District Health Facility Reporting Rate for Week 16, 2019	
Kailahun (100%)	Western Area Urban (99%)
Kambia (100%)	Moyamba (98%)
Koinadugu (100%)	Bombali (98%)
Western Area Rural (100%)	Kenema (97%)
Port Loko (99%)	Kono (97%)
Tonkolili (99%)	Bo (93%)
Pujehun (99%)	Bonthe (88%)

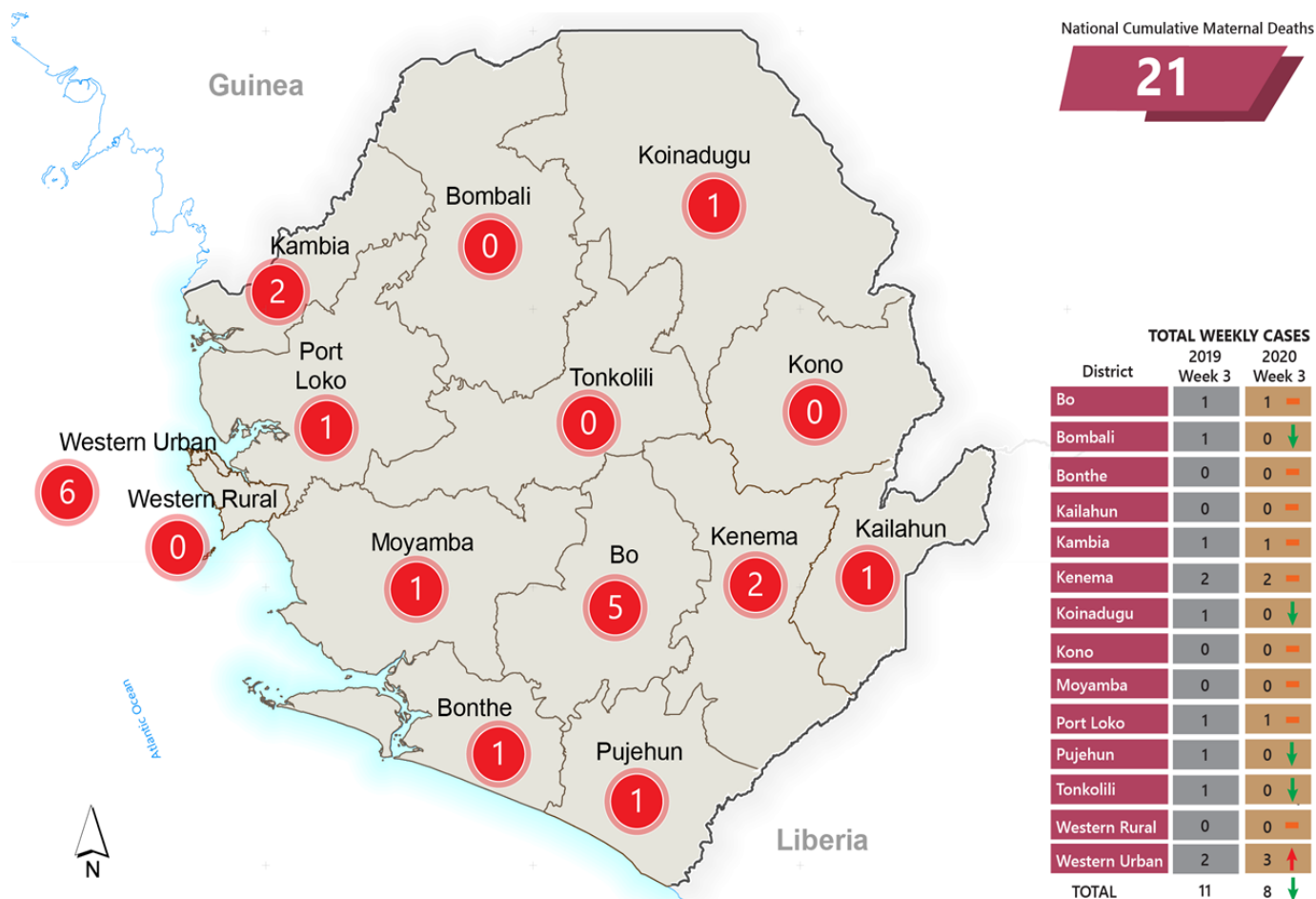
*Note :Data downloaded on Tuesday 21st January, 2020 at 16:30am*

**Figure 1: Average Intra-District Health Facility Reporting Rate For Week 1–3, 2020**



In the period of week 1 to 3 of 2020, all districts achieved the national intra-district health facility reporting rate target of  $\geq 90\%$   
 \*. Overall, 98% of the expected health facility reports have been submitted to the district level since the beginning of the year  
 \*The country revised the weekly IDSR reporting rate (completeness) target from  $\geq 80\%$  to  $\geq 90\%$  since week 7 of 2017

**Figure 4: Cumulative Reported Maternal Deaths by district, Week 1 to 3, 2020**



Eight (8) maternal deaths were reported in week 3 of 2020, a decrease from 11 deaths reported in week 2 of 2020. This raises the national cumulative maternal deaths to 21 since the beginning of the year. Districts with leading numbers of maternal deaths so far this year are Western Area Urban (6 deaths) and Bo (5). DHMTs are encouraged to promote interventions such as community sensitization that will contribute towards the reduction in maternal mortality.

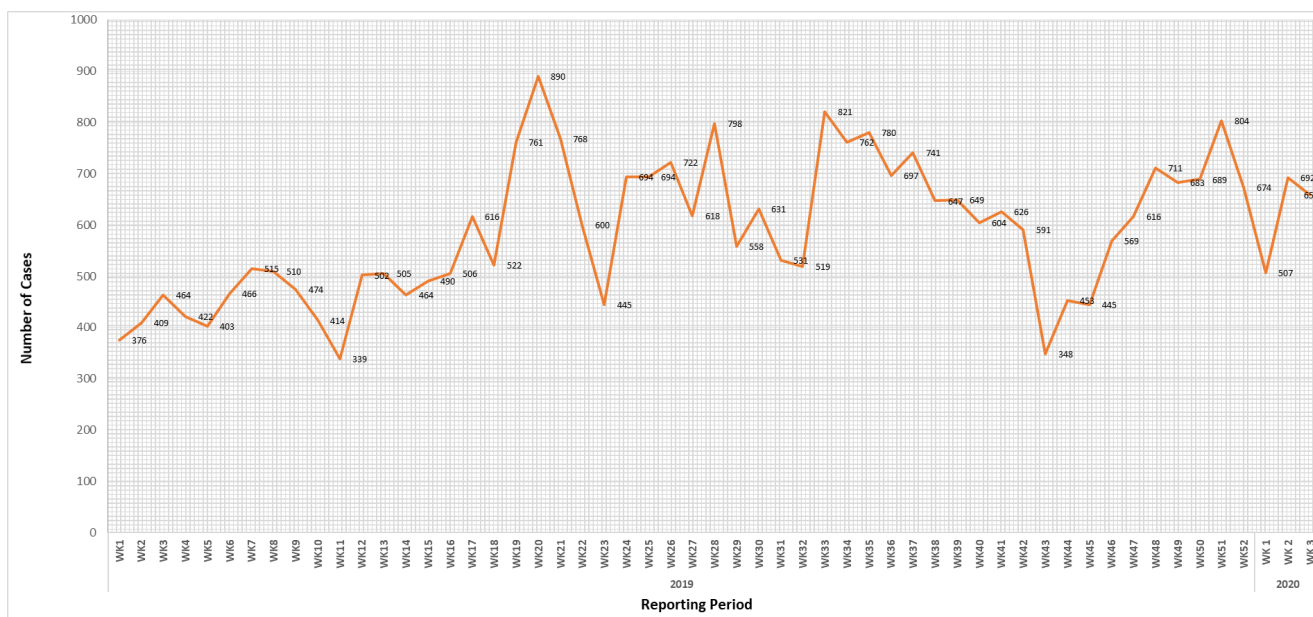
**Table 1: Summary of Priority Diseases, Conditions and Events Reported Through CBS, Week 3, 2020**

District	Bombali	Bonthe	Kailahun	Kambia	Koinadugu	Kono	Moyamba	Port Loko	Pujehun	Total
CHWs Expected to Report	839	809	890	1,105	829	974	1,000	921	1,000	8,367
CHWs Reported this week	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Completeness of CHWs Reporting (%)	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Total Alerts Reported	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Total Alerts Verified	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Total Alerts Investigated	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
AFP	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
AWD	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Cluster of Deaths	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Suspected Guinea Worm	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Maternal Death	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Suspected Measles	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Neonatal Death	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Neonatal Tetanus	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Suspected Ebola	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Suspected Yellow Fever	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
Other Unusual Event	NR	NR	NR	NR	NR	NR	NR	NR	NR	0

NR = No Report

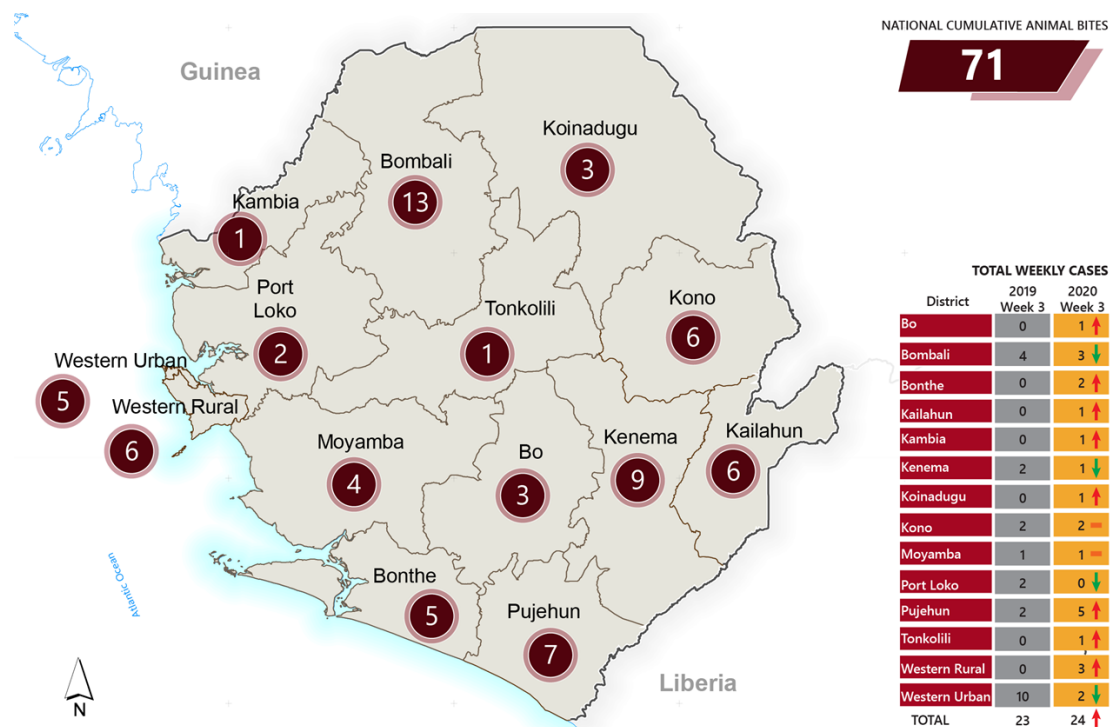
In week 3 of 2020, out of the 9 districts currently implementing Community Based Surveillance (CBS), none submitted report to the national level. No alerts were notified by Community Health Workers (CHWs) in the week. All DHMTs are urged to ensure continuity of CBS reporting because it is key in alerting the health system of what is happening at community level.

**Figure 6: Trend of Reported Severe Malnutrition Cases in Children Under Five, Week 1, 2019 to Week 3, 2020**



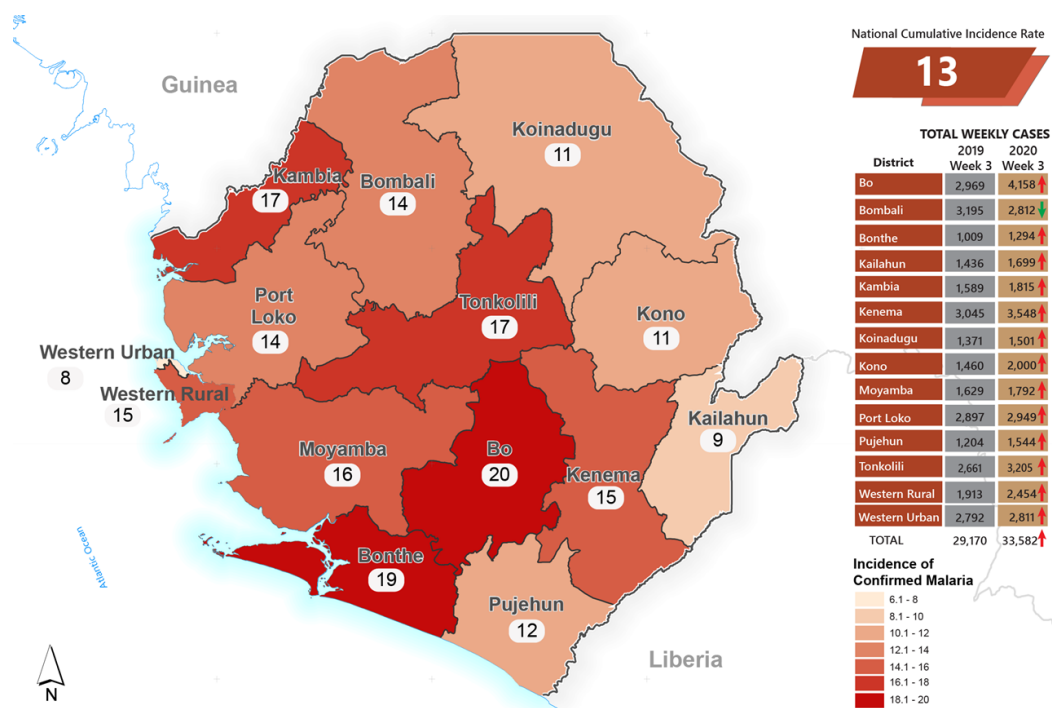
Severe malnutrition cases in children under five years of age for week 3 of 2020 amounted to 658 with 11 deaths. The highest numbers of cases in the week were reported from Kenema (79), Pujehun (77), Kambia (64) Moyamba (64) and Kailahun (62) districts. DHMTs are urged to sensitize health facility staff and facilitate community interventions that will contribute to the prevention, detection, reporting and management of severe malnutrition cases in children under five years of age.

**Figure 7: Cumulative Reported Animal Bite Cases by district, Week 1—3, 2020**



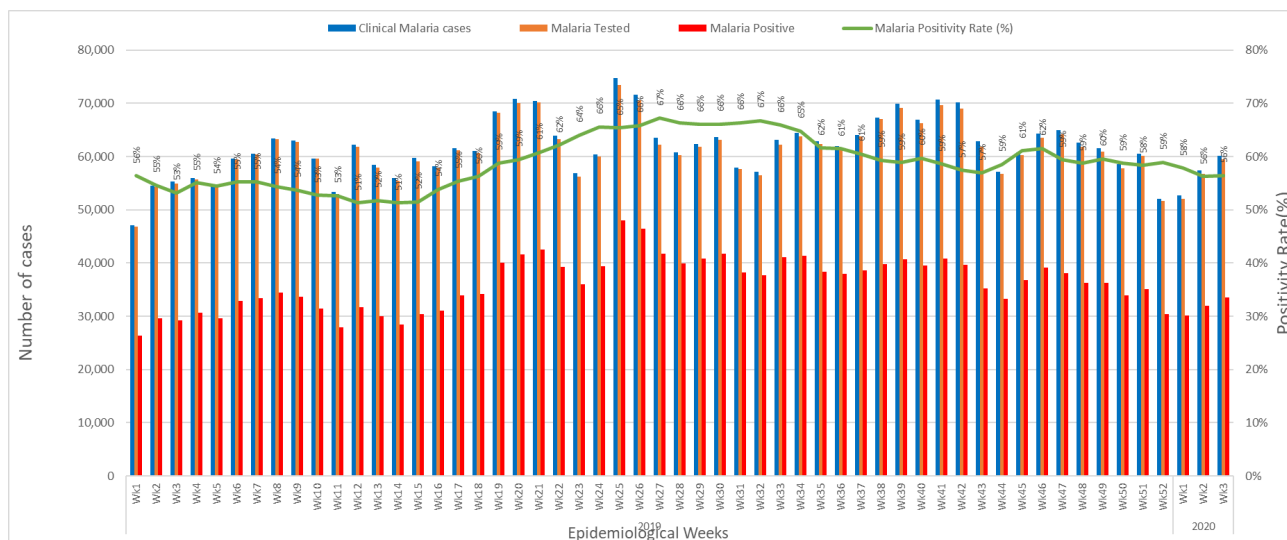
A total of 24 animal (dog and cat) bite cases were reported in week 3 of 2020, an increase from 23 cases reported in the previous week. Pujehun (5), Bombali and Western Area Rural (3) and Bonthe, Kono and Western Area Urban (2) each, reported the highest numbers of animal bite cases in the week. Since the beginning of the year, a total of 71 animal bite cases have been reported nationwide.

**Figure 8: Incidence of Confirmed Malaria Cases (per 1000 pop.) by district - Week 1 - 3, 2020**



The national cumulative incidence rate of confirmed Malaria cases recorded from week 1 to 3 of 2020 is 13 per 1,000 population. Bo (20 per 1,000), Bonthe (19 per 1,000), Tonkolili (17 per 1,000) and Moyamb (16 per 1,000) districts have so far recorded the highest cumulative incidence of confirmed malaria cases in the year 2020. For week 3, the district with leading incidence rates of confirmed Malaria cases per 1000 population is Bo (20),

**Figure 9: National Trend of Reported Malaria Cases, Week 01 of 2019 to Week 3 of 2020**



The Malaria positivity rate for week 3 of 2020 is 56.4%, Moyamba district recorded the highest positivity rate of 67.8% in the week and Bo (52.4%) districts recorded the lowest positivity rates in the week. DHMTs are encouraged to emphasize community engagement for Malaria prevention, including but not limited to use of bed nets and environmental sanitation, as well as to sensitize health workers on Malaria case management

**Table 2: Reported Priority Diseases, Conditions and Events by District, Week 3, 2020**

Diseases	Bo	Bombali	Bonthe	Kailahun	Kambia	Kenema	Koinadugu	Kono	Moyamba	Port Loko	Pujehun	Tonkolili	Western Rural	Western Urban	TOTAL Cases	Deaths	CFR(%)
Acute Flaccid Paralysis	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0.0
Acute Viral Haemorrhagic Fever	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.0
Acute jaundice syndrome	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0.0
Adverse events following immunization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Animal bite case (dog/cat)	1	3	2	1	1	1	1	2	1	0	5	1	3	2	24	0	0.0
Suspected Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Buruli ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Chikungunya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Cholera	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8	0	NA
Suspected Dengue Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Diarrhea with severe dehydration < 5s	4	2	7	3	2	21	2	5	4	4	25	8	3	13	103	1	1.0
Dracunculiasis (Guinea worm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dysentery (Bloody diarrhea)	2	3	0	1	2	6	10	17	1	0	5	8	0	2	57	0	0.0
Suspected Influenza due to new sub-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Malaria cases	7950	4768	2083	3564	3179	6242	2179	4844	2642	4684	3337	5746	3712	5205	60135		
Suspected Malaria cases tested	7927	4758	2083	3130	3179	6242	2179	4841	2642	4663	3281	5654	3712	5205	59496		
Malaria positive Cases	4158	2812	1294	1699	1815	3548	1501	2000	1792	2949	1544	3205	2454	2811	33582	89	0.3
Severe Malnutrition	47	30	40	62	65	79	14	37	64	52	77	43	17	31	658	11	1.7
Maternal death	1	0	0	0	1	2	0	0	0	1	0	0	0	3		8	NA
Suspected Measles (All ages)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Suspected Meningococcal Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Monkey pox	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Neonatal Tetanus	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	100.0
Suspected Plague	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Severe Pneumonia	31	28	0	16	11	56	15	35	18	133	67	55	0	24	489	11	2.2
Suspected Small pox	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Suspected Typhoid fever	100	318	77	43	35	97	21	792	6	214	85	59	253	767	2867	0	0.0
Suspected Yellow fever	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	100.0

Source: Sierra Leone IDSR Disease Database

AFP=Acute Flaccid Paralysis, AEFI=Adverse Effects Following Immunization, AVHF=Acute Viral Hemorrhagic Fever, NNT=Neonatal Tetanus

## WEEKLY EPIDEMIOLOGICAL BULLETIN

**Table 3: Comparison of Priority Diseases, Conditions and Events reported in 2019 and 2020**

Year	2020						2019					
	Week : 3, 2020			Week 1– 3, 2020			Week : 3, 2019			Week 1– 3, 2019		
Completeness of HF Reporting (%)	96.5%			97.8%			96.1%			96.4%		
Disease	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)
Acute Flaccid Paralysis	1	0	0.0	1	0	0	4	0	0.0	5	0	0.0
Acute Viral Haemorrhagic Fever	1	0	0.0	27	0	0	2	0	0.0	2	0	0.0
Acute jaundice syndrome	1	0	0.0	1	0	0	0	0	NA	3	0	0.0
Adverse events following immunization	0	0	NA	1	0	0	2	0	0.0	19	0	0.0
Animal bite case (dog/cat)	24	0	0.0	71	0	0	24	0	0.0	62	0	0.0
Suspected Anthrax	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Suspected Buruli ulcer	0	0	NA	0	0	NA	0	0	NA	8	0	0.0
Suspected Chikungunya	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Suspected Cholera	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Suspected Dengue Fever	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Diarrhea with severe dehydration < 5s	103	1	1.0	261	2	0.8	148	1	0.7	351	1	0.3
Dracunculiasis (Guinea worm)				0	0	NA	2	0	0.0	2	0	0.0
Dysentery (Bloody diarrhea)	57	0	0.0	137	0	0	45	1	2.2	119	1	0.8
Suspected Influenza due to new subtype	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Suspected Malaria cases	60,135			162907			55,016			157,152		
Suspected Malaria cases tested	59,496			161704			54,756			156,273		
Malaria positive Cases	33,582	89	0.3	91772	161	0.2	29,069	44	0.2	85,411	147	0.2
Severe Malnutrition	658	11	1.7	1817	19	1.0	464	15	3.2	1,249	24	1.9
Maternal death		8	NA		22			11			22	NA
Suspected Measles (All ages)	1	0	0.0	7	0	0	14	0	0.0	42	0	0.0
Suspected Meningococcal Meningitis	0	0	NA	0	0	NA	1	0	0.0	1	0	0.0
Suspected Monkey pox	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Neonatal Tetanus	1	1	100.0	1	1	100	0	0	NA	2	0	0.0
Suspected Plague	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Severe Pneumonia	489	11	2.2	1327	30	2.3	479	11	2.3	1,292	27	2.1
Suspected Small pox	0	0	NA	0	0	NA	0	0	NA	0	0	NA
Suspected Typhoid fever	2,867	0	0.0	7335	0	0	1,437	2	0.1	4,028	3	0.1
Suspected Yellow fever	1	1	100.0	1	1	100	2	0	0.0	2	0	0.0

**Table 4: Timeliness and completeness of weekly reports for Week 3, 2020**

Districts	No. of Health Facilities in each district	No. of Health Facilities that reported to the district	% of Health Facilities that reported to the district	Timeliness of districts reports to the national level
Bo	132	131	99.2	T
Bombali	121	86	71.1	T
Bonthe	65	64	98.5	T
Kailahun	87	87	100.0	T
Kambia	71	71	100.0	T
Kenema	127	122	96.1	T
Koinadugu	74	74	100.0	T
Kono	91	91	100.0	T
Moyamba	103	103	100.0	T
Port Loko	112	111	99.1	T
Pujehun	82	82	100.0	T
Tonkolili	107	105	98.1	T
Western Area Rural	62	62	100.0	T
Western Area Urban	71	70	98.6	T
<b>Total</b>	<b>1,305</b>	<b>1,259</b>	<b>96.5</b>	

<b>Completeness</b>	<50%	>50% TO <90%	≥90%	<b>Timeliness</b>	Late report	Timely	No Report
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In week 3 of 2020, all the 14 districts submitted timely reports to the national level and all with the exception of Bombali (71.1%), achieved the national target for completeness of health facility reporting (≥90%). Of the 1,305 health facilities that are expected to report, a total of 1,274 (97.6%) submitted their reports to the district level.

*For more information or to report any unusual public health event, please contact Dr. James Squire, Surveillance Programme Manager, Directorate of Health Security and Emergencies, Ministry of Health and Sanitation. Mobile: +23279614005, email: jmsquire@yahoo.com*