

# WEEKLY BULLETIN ON OUTBREAKS AND OTHER EMERGENCIES

Week 42: 12 - 18 October 2020

Data as reported by: 17:00; 18 October 2020

**0**

New event

**118**

Ongoing events

**106**

Outbreaks

**12**

Humanitarian crises



Graded events †

**49**

Grade 3 events

**19**

Grade 2 events

**2**

Grade 1 events

**2**

Protracted 3 events

**2**

Protracted 2 events

**3**

Protracted 1 events

**40**

Ungraded events

# Overview

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This Weekly Bulletin focuses on public health emergencies occurring in the WHO African Region. The WHO Health Emergencies Programme is currently monitoring 118 events in the region. This week's main articles cover the following events:

- [Coronavirus disease 2019 \(COVID-19\) in Togo](#)
- [Measles in Chad](#)
- [Ebola virus disease \(EVD\) in Équateur Province, Democratic Republic of the Congo.](#)

For each of these events, a brief description, followed by public health measures implemented and an interpretation of the situation is provided.

A table is provided at the end of the bulletin with information on all new and ongoing public health events currently being monitored in the region, as well as recent events that have largely been controlled and thus closed.

### Major issues and challenges include:

- Togo is one of the least affected countries in the African region and is to be commended on their efficient and systematic response to the outbreak. However, the country has challenges around funding, poor access to personal protective equipment, evidenced by their relatively high numbers of health workers affected, and only centralized testing capacity. Case management is also a potential problem, with shortages of the medication and equipment required to manage severe cases of the disease. These issues need to be addressed in order to allow authorities in Togo to continue effective management of the COVID-19 response.
- The measles outbreak in Chad, ongoing since the beginning of 2020, is continuing to decline. However, a measles risk assessment shows that the country is still at very high risk of measles transmission during the remaining quarter of 2020 and the first six months of 2021, due to poor monitoring, low vaccine coverage by routine immunization programmes and the absence of a second dose of the vaccine. This is compounded by issues with response coordination and financial management and lack of current vaccine stocks.
- There have been no new confirmed cases of EVD in Équateur Province, Democratic Republic of the Congo for the past 19 days. This is a very welcome development. However, challenges remain around known confirmed cases still living in the community and contacts lost to follow-up. Lack of funding for the response continues, with inadequate human resources for risk communication and community engagement in affected health zones and hotspots. Strong and robust surveillance systems need to be sustained in order to detect, isolate, test and treat new suspected cases as early as possible.

### EVENT DESCRIPTION

Togo remains one of the least affected countries in the African region, with around half of the country's cases reported in Gulf Préfecture, (1 032; 50.4%), followed by Agoe Préfecture (242; 11.8%), both in Greater Lomé. However, all 39 préfectures have been affected. As of 16 October 2020, there has been a cumulative total of 2 049 cases reported, with 51 deaths (case fatality ratio 2.5%). Of the confirmed cases, 130 (including 11 active cases) are health workers, with 114 health professionals and 16 support staff. The total number of cases that have recovered is 1 517 (74%), which is lower than the regional average of 85%.

Contact tracing is ongoing, with a total of 17 424 contacts identified, 173 of which were new on 16 October 2020 and 17 086 have self-isolated and been followed-up during the course of the outbreak. A total of 106 500 tests have been carried out, which is 138 tests per 10 000 population.

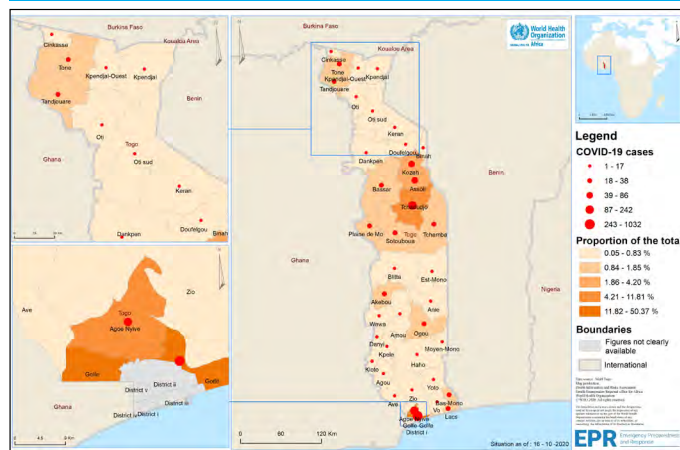
Males are more affected than females, with a sex ratio of (M/F) 1.8 (1 323/726). The median age affected is 34, with age groups 15-24, 25-34 and 35-44 most affected. Most deaths are in the age groups 45-54 (10 deaths), 55-64 (10 deaths) and 65-74 (13 deaths). Of the deaths, 36 have been in males and 15 in females. Of those who died, 22 had one comorbidity, 14 had two comorbidities, four had three comorbidities and 11 had no comorbidities. Hypertension was the most common comorbidity, followed by diabetes, obesity and tuberculosis.

### PUBLIC HEALTH ACTIONS

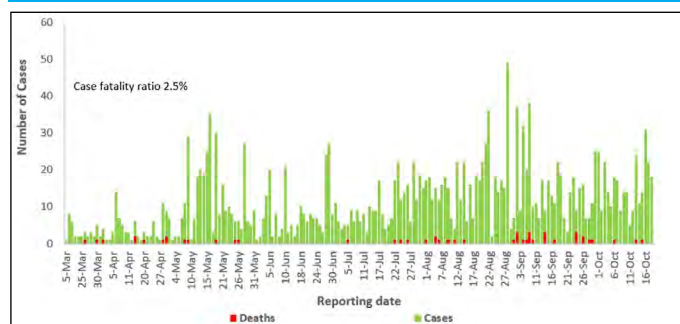
- Meetings of the Health Sectoral Response Unit for Response Management are held on Monday, Wednesday and Friday each week.
- There is ongoing data collection on monitoring of compliance with barrier measures in all health centres in the Kara region with support from partners; continuation of local awareness-raising by NGOs, préfets and local elected officials and watch committees; community outreach sessions are given by community health workers and community relays; there is dissemination of awareness-raising messages in radio and television broadcasts and constant management of rumours including in districts and regions.
- Infection prevention and control measures are being evaluated in Plateau region, along with ongoing training for workers in regional care centres on management of severe cases of COVID-19.
- Active cases are cared for in specific centres and cured cases are reintegrated into their communities.
- Points of entry are monitored by central, regional and district monitoring teams; travellers are recorded at the Sanvi Condji and Noépé points of entry and travellers entering through the main airport are screened using a COVID-19 mobile biological diagnostic laboratory, as well as those travellers who have completed 14 days of quarantine.
- Case detection continues through enhanced passive surveillance in health facilities and active search in contacts and travellers, along with contact tracing and follow-up.
- All alerts are investigated and there is isolation and sampling of suspected cases.

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Geographical distribution of cumulative number of confirmed cases of coronavirus 19 in Togo as of 16 October 2020.



The distribution of confirmed COVID-19 cases and deaths in Togo, 5 March to 16 October 2020.



- Confirmation of COVID-19 infection is by PCR at the national health laboratory at the regional office in Kara and at Dapaong and Sokodé regional health centres and the Sylvanus Olympio university hospital.
- Work on nine isolation sites in different regions is ongoing, along with equipping the seven regional centres identified for COVID-19 care.

### SITUATION INTERPRETATION

Togo is to be commended on its efficient and organized approach to managing the COVID-19 outbreak, which has affected all regions of the country, with relatively good testing levels and contact tracing and follow-up. However, challenges remain in funding, a requirement for continued case management training and improvements needed in materials and equipment availability and supply. Personal protective equipment is required, as seen by the relatively high proportion of health worker infections among the total number of cases, and there is a shortage of the medications required to treat COVID-19 cases. Testing capacity needs to be increased throughout the country, since it is currently confined to a few centres, and collaboration and exchange between districts needs to be improved. There is also a shortage of hearses to transport the bodies of those who have died of the disease. National authorities and partners need to address these challenges as a matter of urgency to ensure that the current low level of infection does not increase.

[Go to map of the outbreaks](#)

## EVENT DESCRIPTION

A measles outbreak was declared in Chad in January 2020, when 123 cases were reported in 23 districts of the country. As of 17 October 2020, there is a cumulative total of 8 584 suspected cases of measles (with 362 confirmed by IgM), with 39 deaths (case fatality ratio 0.45%) recorded in 99 out of 126 (79%) health districts. More than 70% of cases are concentrated in four main districts, Kyabe, Goundi, Beneto and Sarh. However, there has been a decline in the number of suspected cases in these four districts since week 20 (week ending 16 May 2020), with zero cases in the past two weeks, with an overall declining trend across the country in the same period. Currently only three districts are in epidemic phase, compared with four in week 41 (week ending 10 October 2020).

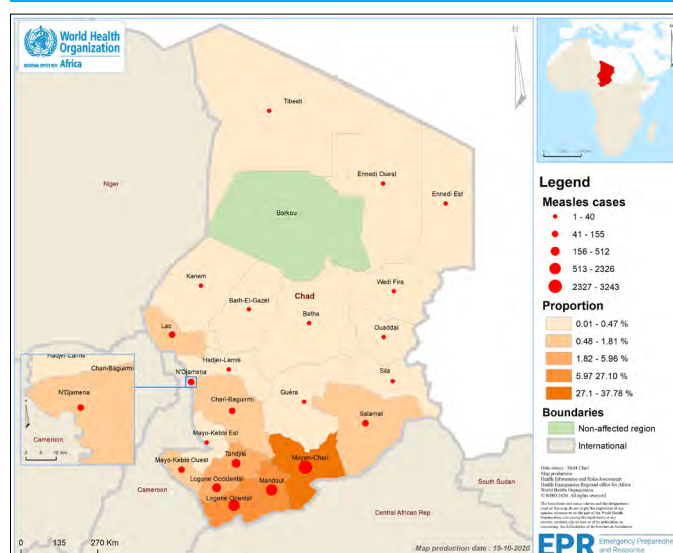
The age ranges less than one year (425 cases; 18.3%), 1-4 years (1 109 cases; 47.7%) and 5-9 years (114 cases; 4.9%) have been the most affected, with 86% of cases under the age of 10 years. The vaccination status of investigated cases shows that 88.1% are not vaccinated, with only 9.8% vaccinated and 2.1% of unknown status. Of the unvaccinated cases, most (943; 40.6%) are in the age group 1-4 years.

Reactive vaccination campaigns have been in progress since early March 2020, starting in Kyabe health district, where 59 627 children aged 6-59 months were vaccinated. At the end of the campaign on 18 March 2020, vaccination coverage with proof of vaccination was estimated at 80.1% and by verbal reports by parents, at 94.5%. On 23 March 2020 vaccination started in 13 health centres in Beboto health district, reaching 24 990 children out of a targeted 24 700 (101.7% coverage).

## PUBLIC HEALTH ACTIONS

- The vaccine response activities continue, with UNICEF financing the vaccine response in five districts of Ndjemena and further planned vaccine campaigns in epidemic districts, with 22 districts targeted.
- Technical discussions at the level of the Directorate of the Expanded Programme on the preparations for the national measles monitoring campaign have resumed, planned in two blocks, one in November 2020, with 12 provinces and the second in December 2020 with 11 provinces.
- Integrated micro-planning workshops for routine EPI were held from 30 September to 12 October in 23 provinces.
- Médicines Sans Frontières (MSF) supported the care of 1 190 sick children, of whom 82 were hospitalized. All children with mid-upper arm circumference of less than 120 mm were provided with three week's supply of plumpy nut.
- Meetings of the national technical committee involving partners (WHO, UNICEF, MSF) under the leadership of the Directorate of Immunization have resulted in sharing campaign timelines, guidelines, tools and a micro-planning framework; an orientation meeting organized for central level managers and consultants on campaign planning; management tools and training modules adapted; central level managers and

## Geographical distribution of measles cases in Chad by region by epidemiological week in 2020.



partners deployed to support planning and technical details related to release of funding finalized.

- Preparations are in place for placement of orders of vaccine doses, as well as assessing cold chain capacity and development of a logistical plan.
- Orientation and micro-planning workshops were held in all 26 provinces and districts during week 41; this showed that vaccines are yet to be received with available GAVI funds; however, there is no date for their receipt. The State counterpart has also not yet been mobilized.

## SITUATION INTERPRETATION

The continuing decline in measles cases in Chad since week 20 is to be welcomed, although case numbers are still fluctuating weekly. However, a measles risk assessment carried out by WHO found Chad as being very high risk of transmission during the next measles season, expected in the fourth quarter of 2020 to June 2021. This is as a result of a low routine immunization coverage, the absence of a second dose in the immunization schedule, the four-year delay in conducting a measles monitoring campaign and the current major epidemic. This finding, coupled with delays in receipt of vaccine stocks and issues around mobilization of GAVI funding could potentially compromise further vaccine campaigns and the measles response generally, particularly with the COVID-19 response possibly causing further delays in measles response and the fact that a plan to mitigate the risk of COVID-19 transmission during the campaign has not yet been developed. National authorities and partners need urgently to address these challenges in order to prevent a resurgence of measles cases in the final quarter of 2020.

## EVENT DESCRIPTION

There have been no new confirmed cases of Ebola virus disease in Équateur Province for the past 19 days, with the last confirmed case reported on 28 September 2020. Similarly, no new cases have been reported in treatment centres.

As of 17 October 2020, the cumulative total of EVD cases is 128 (119 confirmed and nine probable) including 53 deaths (case fatality ratio 41.4%). The case fatality ratio among confirmed cases 37.0% (44 deaths/119 confirmed cases). The number of health workers affected remains at three, making up 2.3% of all cases. One health area and one health zone have been active in the past 21 days (27 September to 17 October 2020). A total of 13/18 (72.2%) of health areas and 42/284 (14.8%) of health zones reported at least one confirmed case of EVD since the start of the outbreak. Only one confirmed case, from Lusengo health area in Makanza Health Zone, has been reported in the past 21 days.

No new contacts were listed on 17 October 2020, with only Makanza and Mbandaka reporting contacts. Out of 204 active contacts, 191 (93.6%) have been followed-up. Of the 11 contacts who were not seen, two (18.2%) have never been seen, six (54.5%) were lost to follow-up and three (27.3%) were not seen in the previous 24 hours. Two contacts have become symptomatic in Makanza. A total of 797 new alerts (including 12 deaths) were reported on 17 October 2020. Of the 929 alerts recorded to date 880 (94.7%) were investigated and 304 (34.5%) were validated.

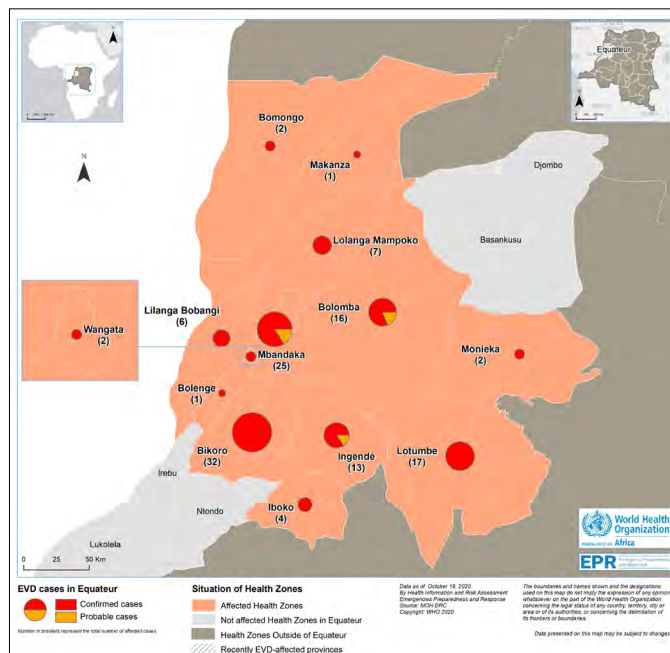
## PUBLIC HEALTH ACTIONS

- On 17 October 2020 a total of 45 459 (94.4%) travellers passed through 35/55 active Points of Control (POC) and 42 153 (92.7%) were screened. Since the start of the response activities, 2 143 015 (92.9%) screenings have been performed among the 2 306 598 travellers who have passed through the active PoCs. Out of these 246 alerts have been detected, with 116 validated.
- As of 10 October 2020, 204 samples were received in four operational laboratories. Since the start of the outbreak a total of 10 269 samples have been tested.
- A total of 320 new people were vaccinated with rVSV-ZEBOV-GP on 17 October 2020, including 127 contacts-of-contacts, and 193 probable contacts; these figures include 148 first line providers.
- Since 5 June 2020, a total of 38 053 people has been vaccinated.
- A total of 52 patients, all suspected cases, were managed in the transit centres and Ebola treatment centres in affected areas as of 10 October 2020.
- Since the start of specific EVD supportive therapy, 32 (41%) confirmed patients have been treated, out of 78 patients.
- Six confirmed cases of EVD remain in the community, including three in Lotumbe, two in Lolanga Mampoko and one in Mbandaka. The final outcome of these patients remains undetermined.
- On 17 October 2020 there were 14 community death alerts in Ingende (6), Bikoro (3), Mbandaka (3) and Wangata (2). Only five (35.7%) safe and dignified burials were performed.

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▶ [Go to map of the outbreaks](#)

## Geographical distribution of confirmed Ebola virus disease cases reported from 17 October 2020, Équateur Province, Democratic Republic of the Congo.



- On 17 October 2020, IPC training of health workers from two health facilities in Mbandaka Health Zone was completed; assessment and inventory of IPC inputs was conducted in eight health facilities in Imbonga and Nkasa in the Lotumbe Health Zone; 23 households in Lotumbe were provided with aqua-tabs and 131 people sensitized on the importance of water treatment and barrier prevention measures; schools were also provided with WASH kits.
- Risk communication, mobilization and community engagement continues, 83 school principals taking part in a community dialogue session on EVD and COVID-19; three traditional practitioners in Makanza Health Zone were briefed on EVD and their role in reporting alerts; educational talks were organized in Ingende Health Zone.

## SITUATION INTERPRETATION

The EVD outbreak in this area of Democratic Republic of the Congo is currently halted, with no new confirmed cases or deaths reported for the past 19 days. There is now room for cautious optimism, but contacts are still lost to follow up, the outcome for known confirmed cases in the community is indeterminate and safe and dignified burials continue to be a challenge. Funding remains inadequate, as well as the problem of inadequate laboratory reagents and commodities. Continued advocacy is required with donors and funding agencies to strengthen response activities. EVD awareness activities are taking place in tandem with COVID-19 response activities, which is to be commended, and which will hopefully continue, to help to break the stigma associated with both diseases.

# Summary of major issues, challenges and proposed actions

## Major issues and challenges

- Togo remains one of the least affected countries in the African region, with an exemplary response to COVID-19. However, challenges remain in funding, availability of personal protective equipment and with only centralized testing available.
- Although the measles outbreak in Chad is showing a strong declining trend, risks for resurgence remain very high in the last quarter of the year and into the first six months of 2021, as a result of poor monitoring, lack of a second dose of vaccine, delays in receipt of vaccine stocks for planned further campaigns and poor management of available funding.
- The Ebola virus disease outbreak in Équateur Province, Democratic Republic of the Congo, has slowed, with no new confirmed cases and deaths reported in the past 19 days. However, while there are still confirmed cases at large in the community and difficulties with safe and dignified burials, transmission risks remain. Challenges remain around inadequate funding and personnel for the response, particularly in hotspot areas, and problems with screening at points of control.

## Proposed actions

- Togo needs to address the challenges around provision of personal protective equipment and medication and equipment for case management, while testing capacity needs to be expanded throughout the country. In addition, collaboration and exchange between districts need to be improved. These issues need urgent attention to ensure that Togo does not see a rise in COVID-19 infections, particularly with the return of international travel within the region as more countries open up.
- Authorities and partners in Chad need urgently to address the problem of poor measles monitoring, the delays in receipt of vaccine stocks for future vaccine campaigns and poor management of funding. The very real risk for resurgence of the disease later in 2020 and into 2021 needs urgently to be addressed by attending to these issues.
- Even though the Ebola virus disease outbreak appears to be slowing, robust response activities are still required, particularly around positive cases at large in the community and challenges around safe and dignified burials. The response to EVD should continue to be linked to existing COVID-19 activities in order to use resources efficiently. These efforts should be encouraged and supported nationally and by partners.

# All events currently being monitored by WHO AFRO

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
<b>Ongoing Events</b>									
Algeria	COVID-19	Grade 3	25-Feb-20	25-Feb-20	18-Oct-20	54 402	54 402	1 856	3.40%
From 25 February to 18 October 2020, a total of 54 402 confirmed cases of COVID-19 with 1 856 deaths (CFR 3.4%) have been reported from Algeria. A total of 38 088 cases have recovered. The majority of the cases have been reported from the Wilaya of Blida.									
Angola	COVID-19	Grade 3	21-Mar-20	21-Mar-20	18-Oct-20	7 622	7 622	247	3.20%
The first COVID-19 confirmed case was reported in Angola on 21 March 2020. As of 18 October 2020, a total of 7 622 confirmed COVID-19 cases have been reported in the country with 247 deaths and 3 030 recoveries.									
Angola	Measles	Ungraded	4-May-19	12-Dec-19	14-Oct-20	1 312	1 027	5	0.40%
From 1 January 2020 to 14 October 2020, Angola reported a total of 1 312 suspected cases that have been notified and investigated of which 1 027 have been confirmed (329 by laboratory and 698 by epidemiological linkage). There was a total of 5 deaths reported from 1 January to 1 July 2020 in 14 provinces across Angola; there is no further information regarding deaths for this current period. 80% of the confirmed cases are <5 years of age; 14% are aged 5-9 years; 3% are 10-14 years of age. 15 out of 18 provinces are affected. The most affected provinces are Cabinda, Malanje, Bie, Luanda, Huambo and Uige.									
Angola	Poliomyelitis (cVDPV2)	Grade 2	8-May-19	1-Jan-19	14-Oct-20	133	133	0	0.00%
No case of circulating vaccine-derived poliovirus type 2 (cVDPV2) was reported this week. There have been three cases reported in 2020 so far. The total number of cases reported in 2019 remain 130. These cases are from several outbreaks which occurred in 2019.									
Benin	Cholera	Ungraded		17-Aug-20	27-Sep-20	198	1	5	2.50%
As of Week 39, Benin reported a total of 198 suspected cases of cholera. There is only 1 culture confirmed case and 5 deaths reported for 2020.									
Benin	COVID-19	Grade 3	17-Mar-20	16-Mar-20	13-Oct-20	2 496	2 496	41	1.60%
The Ministry of Health in Benin announced the first confirmed case of COVID-19 on 16 March 2020. As of 13 October 2020, a total of 2 496 cases have been reported in the country with 41 deaths and 2 330 recoveries.									
Benin	Poliomyelitis (cVDPV2)	Grade 2	8-Aug-19	8-Aug-19	14-Oct-20	10	10	0	0.00%
No case of circulating vaccine-derived poliovirus type 2 (cVDPV2) was reported this week. Two cases have been reported in 2020, with 8 cases reported in 2019. These cases are all linked to the Jigawa outbreak in Nigeria.									
Botswana	COVID-19	Grade 3	30-Mar-20	28-Mar-20	15-Oct-20	5 242	5 242	20	0.40%
On 30 March 2020, the Minister of Health and Wellness in Botswana reported three confirmed cases of COVID-19. As of 15 October 2020, a total of 5 242 confirmed COVID-19 cases were reported in the country including 20 deaths and 905 recovered cases.									
Burkina Faso	Humanitarian crisis	Grade 2	1-Jan-19	1-Jan-19	30-Sep-20	-	-	-	-
Since 2015, the security situation in the Sahel and the East of Burkina Faso has gradually deteriorated as a result of attacks by armed groups. This has resulted in mass displacement leading to a total of 1 034 609 internally displaced persons registered as of 30 September 2020 in all 13 regions in the country. The presence of jihadist groups and self-defence units have created an increasingly volatile security situation. A cumulative number of 216 security incidents were reported from January to September 2020. The health system remains strongly impacted by the security situation in Burkina Faso. Attacks on the health system, intimidation and kidnapping of health workers, theft of medicines, were reported during the month of August 2020. As of 30 September 2020, according to the report from the Ministry of Health, 95 health facilities were closed, which is 7.5% of the health facilities in six regions affected by insecurity, and 199 other health facilities are working partially. Since 5 September 2020, heavy rain continues to affect central Burkina Faso (particularly the Centre Region, including the area of the capital Ouagadougou, and the Centre-Nord Region), triggering floods that have resulted in casualties and damage. As of 9 September 2020, the government declared a state of national disaster. Media report, as of 10 September 2020, at least 13 fatalities, 19 injured people, and a number of displaced people across the aforementioned regions.									
Burkina Faso	Acute Jaundice Syndrome	Ungraded	7-Sep-20	17-Sep-20	12-Oct-20	119	8	15	12.60%
As of 12 October 2020, there have been 119 suspected cases of febrile and non-febrile jaundice detected in IDPs in Barsalogo health district, North Central Region of Burkina Faso. This includes 15 deaths of which 11 were among pregnant or postpartum women. Of the 119 cases notified, 88 samples were taken. Eight out of nine samples were IgM positive for hepatitis E at a hospital laboratory in Montpellier, France on 25 September and 3 samples tested IgM positive for yellow fever and 1 sample was undetermined at the Laboratoire National de Référence des Fièvres Hémorragiques Virales (LNR-FHV) in Centre Muraz; confirmation from IP Dakar is pending.									
Burkina Faso	COVID-19	Grade 3	10-Mar-20	9-Mar-20	17-Oct-20	2 381	2 381	65	-
Between 9 March and 17 October 2020, a total of 2 381 confirmed cases of COVID-19 with 65 deaths and 1 774 recoveries have been reported from Burkina Faso.									
Burkina Faso	Poliomyelitis (cVDPV2)	Grade 2		1-Jan-19	14-Oct-20	10	10	0	0.00%
No case of circulating vaccine-derived poliovirus type 2 (cVDPV2) was reported this week. A total of 10 cases of circulating vaccine-derived poliovirus have been reported from Benin since 2019 with no new cases reported in 2020. The last case had onset of paralysis on 10 May 2020. All cases were linked to the Jigawa outbreak in Nigeria.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Burkina Faso	Yellow fever	Ungraded	25-Jul-20	25-Jul-20	14-Oct-20	1	1	0	0.00%
A 2 year-old child previously vaccinated for yellow fever was confirmed by PRNT at the IP Dakar lab. She was suspected to have YF on the 21 March 2020 after she presented with symptoms of fever and jaundice on the 14 and 17 March 2020, respectively.									
Burundi	COVID-19	Grade 3	31-Mar-20	18-Mar-20	18-Oct-20	549	549	1	0.20%
On 31 March 2020, the Minister of Health in Burundi reported the first two confirmed cases of COVID-19. As of 18 October 2020, the total confirmed COVID-19 cases is 549, including one death and 505 recovered.									
Burundi	Measles	Ungraded	23-Mar-20	4-Nov-19	9-Aug-20	989	989	0	0.00%
Burundi has been experiencing measles outbreaks since November 2019 in camps hosting Congolese refugees and the disease has recently been spreading in the host community in the district of Citiboke. As of 9 August 2020, Burundi has reported a total of 989 confirmed measles cases of which 154 are lab-confirmed and the rest were clinically compatible cases and epidemically linked. The current outbreak is affecting the following districts: Bukinyana (Cibitoke province), Ngozi (Ngozi province), Bujumbura Nord (Bujumbura province). There have been no deaths reported.									
Cameroon	Humanitarian crisis (Far North, North, Adamawa & East)	Protracted 2	31-Dec-13	27-Jun-17	18-Aug-20	-	-	-	-
Cameroon continues to face a humanitarian crisis in the Far North Region linked to the terrorist attacks by the Boko Haram group resulting in significant population displacement. More than 6 000 internally displaced people, refugees and host communities reportedly left their homes in and around Kordo and Gadero in Cameroon's Far-North to seek protection and refuge in the Kolofata district last week. It is alleged that this pre-emptive displacement of people followed the dismantling and subsequent relocation of military outposts from Kordo and Gadero to Grea last week. Since the beginning of the humanitarian crisis in 2014, more than 500 000 people were displaced in Cameroon's Far-North according to latest figures available from OCHA (July 2020). The Minawao Refugee Camp in the Mokolo Health District continues to host Nigerian refugees, with spontaneous refugee arrivals being recorded.									
Cameroon	Humanitarian crisis (NW & SW)	Protracted 2	1-Oct-16	27-Jun-18	11-Aug-20	-	-	-	-
The measles outbreak is improving in Cameroon. Since 1 January 2020 to date, a total of 1 868 confirmed cases and 13 deaths have been reported in the country. A total of 13 deaths were reported to date in six districts, namely Kribi (4 cases), Gashiga (2 cases), Betaré Oya (1 case), Kolofata (2 cases), Awae (1 case), Ngaoundal (1 case), Ngong (1 case), Guidiguis (1 case). Fifty percent of cases are aged between 9 to 59 months.									
Cameroon	Cholera	Ungraded	1-Mar-19	1-Jan-20	30-Sep-20	1 848	63	79	4.30%
The cholera outbreak, which was notified on 1 April 2020, is ongoing, with fluctuating numbers of cases reported from Central, Littoral, South and South West regions. From week 17 (week ending 25 April 2020), South and Littoral regions were the most affected, with cases reported in Central from week 28 (week ending 11 July 2020). In week 38 (week ending 19 September 2020), South West started to report cases again for the first time since week 16 (week ending 18 April 2020). As of 30 September 2020, the cumulative number of cases is 1 848, with 79 deaths (case fatality ratio 4.3%). A total of 63 cases have been confirmed by culture. Littoral remains the most affected region, with 939 (50.8%) cases and 53 (67%) deaths, followed by South, with 767 (41.5%) cases and 24 (30.4%) deaths. Central region has not notified any new cases for 21 days (as of 30 September 2020). Currently, there are three active regions, with five health active health districts, out of 18 originally affected.									
Cameroon	COVID-19	Grade 3	6-Mar-20	6-Mar-20	19-Oct-20	21 570	21 570	425	2.00%
The Cameroon Ministry of Health announced the confirmation of the first COVID-19 case on 6 March 2020. As of 19 October 2020, a total of 21 570 cases have been reported, including 425 deaths and 20 427 recoveries.									
Cameroon	Measles	Ungraded	2-Apr-19	1-Jan-20	25-Aug-20	1 868	634	13	0%
The measles outbreak is improving in Cameroon. Since 1 January 2020 to date, a total of 1 423 confirmed cases and 13 deaths have been reported in the country. Twenty-nine out of 79 health districts that were affected have not reported cases in the last four epidemiological weeks. A total of 13 deaths were reported to date in six districts, namely Kribi (4 cases), Gashiga (2 cases), Betaré Oya (1 case), Kolofata (2 cases), Awae (1 case), Ngaoundal (1 case), Ngong (1 case), Guidiguis (1 case). Fifty percent of cases are aged between 9 to 59 months.									
Cameroon	Poliomyelitis (cVDPV2)	Grade 2	1-Jan-20	1-Jan-20	23-Sep-20	4	4	0	0.00%
One cVDPV2 positive environmental sample was reported in Sud province. Four cVDPV2 cases have been reported from the country so far in 2020.									
Cape Verde	COVID-19	Grade 3	19-Mar-20	18-Mar-20	18-Oct-20	7 752	7 752	86	1.10%
The first COVID-19 confirmed case was reported in Cape Verde on 19 March 2020. As of 18 October 2020, a total of 7 752 confirmed COVID-19 cases including 86 deaths and 6 526 recoveries were reported in the country.									
Central African Republic	Humanitarian crisis	Protracted 2	11-Dec-13	11-Dec-13	4-Aug-20	-	-	-	-
Civil unrest and food insecurity in most parts of the country, including major cities, continue to cause a complex humanitarian situation. The security situation remains tense with the persistence of inter-ethnic tensions within rival armed groups in the Northeast of the country, mainly in Ndele, Birao, Batangafo and Bria. In the first half of 2020, 192 incidents affecting humanitarian workers were recorded, including 2 deaths and 17 injured. Around 659 000 people are internally displaced in Central Africa.									
Central African Republic	COVID-19	Grade 3	14-Mar-20	14-Mar-20	12-Oct-20	4 856	4 856	62	1.30%
The Ministry of Health and population announced the confirmation of the first COVID-19 case in the Central African Republic on 14 March 2020. As of 12 October 2020, a total of 4 856 confirmed cases and 62 deaths were reported.									



Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Central African Republic	Measles	Grade 2	15-Mar-19	1-Jan-19	14-Oct-20	28 676	443	137	-
As of 14 October 2020, a total of 28 676 suspected cases have been notified and 137 deaths within 22 affected districts. A total of 32 new cases and 0 deaths were reported as of epi week 40. The majority of cases are under five years of age, followed by the 5 to under 15 year old age group. Response activities are ongoing in the affected health districts.									
Central African Republic	Poliomyelitis (cVDPV2)	Grade 2	24-May-19	24-May-19	14-Oct-20	23	23	0	0.00%
No case of cVDPV2 case was reported this week. There have been 2 cases reported in 2020 so far and 21 cases in 2019 from several outbreaks giving a total of 23 cases.									
Chad	Chikungunya	Grade 1	27-Aug-20	28-Aug-20	5-Oct-20	35 109	22	1	0.00%
From 14 August to 5 October 2020, there have been 35 109 cases of Chikungunya recorded and 1 death. The age range most affected is 15 years of age and older, and females are more affected than males. Cases have been confirmed in health districts of Abéché (Ouaddai Province), Biltine (Wadi Fira Province), and d'Abdi, Gozbeida (Sila Province). More than three quarters of patients develop severe fevers, headaches, excruciating and disabling joint pain; a third of these patients developed pruritic maculopapular rashes.									
Chad	COVID-19	Grade 3	19-Mar-20	19-Mar-20	18-Oct-20	1 379	1 379	93	6.70%
The first COVID-19 confirmed case was reported in Chad on 19 March 2020. As of 18 October 2020, a total of 1 379 confirmed COVID-19 cases were reported in the country including 93 deaths and 1 181 cases who have recovered.									
Chad	Measles	Ungraded	24-May-18	1-Jan-19	16-Aug-20	8 494	357	39	0.50%
Detailed update given above.									
Chad	Poliomyelitis (cVDPV2)	Grade 2	18-Oct-19	9-Sep-19	14-Oct-20	80	80	0	0.00%
Three cVDPV2 cases were reported; two in Logone Occidental and one in Logone Oriental. There are 69 cases from two different outbreaks in the country, one being the Jigawa outbreak. There were 11 cases reported in 2019.									
Comoros	COVID-19	Grade 3	30-Apr-20	30-Apr-20	15-Oct-20	502	502	7	1.40%
The first case of confirmed COVID-19 was notified on 30 April 2020 in Comoros. As of 15 October 2020, a total of 502 confirmed COVID-19 cases, including 7 deaths and 485 recoveries were reported in the country.									
Congo	Chikungunya	Grade 1	22-Jan-19	1-Jan-20	2-Aug-20	71	0	0	0.00%
No suspected case of chikungunya was reported in week 31 (week ending 2 August 2020). From week 1 to week 31, 71 cases with no deaths were reported in six departments: Kouilou (31 cases), Bouenza (8 cases), Brazzaville (9 cases), Lekoumou (1 case), Plateau (13 cases) and Pool (9 cases). From weeks 1 to 52 of 2019, a total of 11 600 cases have been reported in 44 out of the 52 health districts in 10 out of 12 departments. The departments of Bouenza (3 102 cases), Kouilou (2 844 cases) and Niari (2 589) were the most affected by the outbreak accounting for 74% of cases reported since the beginning of the outbreak.									
Congo	COVID-19	Grade 3	14-Mar-20	14-Mar-20	10-Oct-20	5 156	5 156	92	1.80%
The Government of Congo announced the confirmation of the first case of COVID-19 in Congo on 14 March 2020. As of 10 October 2020, a total of 5 156 cases including 92 deaths and 4 400 recovered cases have been reported in the country.									
Côte d'Ivoire	COVID-19	Grade 3	11-Mar-20	11-Mar-20	17-Oct-20	20 301	20 301	121	0.60%
Since 11 March 2020, as of 17 October 2020, 20 301 confirmed cases of COVID-19 have been reported from Côte d'Ivoire including 121 deaths, and a total of 19 983 patients have recovered.									
Côte d'Ivoire	Poliomyelitis (cVDPV2)	Grade 2	29-Oct-19	29-Oct-19	14-Oct-20	33	33	0	0.00%
Four cases of circulating vaccine-derived poliovirus type 2 (cVDPV2) were reported; one each in Gbokle-Nawa-San-Pedro, Loh-Djiboua, Poro-Tchologo-Bagoue and Tonkpi provinces. The total number of cVDPV2 cases reported in 2020 is 33.									
Democratic Republic of the Congo	Humanitarian crisis	Grade 3	20-Dec-16	17-Apr-17	20-Sep-20	-	-	-	-
The Democratic Republic of the Congo continues to experience a complex humanitarian crisis involving armed conflicts and inter-community tension resulting in large numbers of people in need of humanitarian assistance. Population movement due to armed clashes and inter-community fighting continues to be reported in North-Kivu, Tanganyika, Ituri, Kasai Central and South-Kivu provinces. In Ituri, According to an alert from UNICEF Rapid Response (UniRR) on 18 September 2020, approximately 9 000 people including 1 500 South Sudanese refugees were forced to move from several villages (Kindio, Ukaraba, Liga, Ulembere, etc.) to the health (AS) of Iri and Rikazu (ZS of Adi, Aru Territory). In North Kivu province, a resurgence of violence between two factions of Nduma Defense of Congo rénové de Guidon (NDF-R), was reported to Pinga in the Walikale territory since 14 September 2020. Clashes forced the population of the Nkasa and Katanga districts, estimated at 24 542 inhabitants, to move, some of whom took refuge in the forest surrounding the city of Pinga and others in the general hospital. In Kasai Central, heavy torrential rain was observed in the health zones of Dibaya, Tshikula and Bunkonde. This caused the destruction of roofs, houses, churches and schools in Dibaya. In addition, more than 300 homeless families in the villages of Tshikuma and Kapena (ZS Bukonde), with the collapse of 289 houses causing 10 wounded were registered. The displaced persons are in need of basic humanitarian assistance, including access to food, clean water, non-food items, shelters and health care assistance.									
Democratic Republic of the Congo	Cholera	Grade 3	16-Jan-15	1-Jan-20	4-Oct-20	16 043	-	253	1.60%
The cholera outbreak in the Democratic Republic of Congo is improving. During week 40 (week ending 9 August 2020), a total of 368 cases of cholera and 9 deaths were notified in 39 health zones (9 provinces) in the country. Since the beginning of this outbreak in January 2020 to date, a total of 16 043 suspected cases and 253 deaths (CFR; 1.6%) was reported. Between week 1 and week 52 of 2019, a total of 30 304 cases including 514 deaths (CFR 1.7%) were notified from 23 out of 26 provinces.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Democratic Republic of the Congo	COVID-19	Grade 3	10-Mar-20	10-Mar-20	16-Oct-20	11 051	11 051	303	2.70%
Since the start of the COVID-19 outbreak, declared on 10 March 2020, there have been 11 051 confirmed cases and one probable case, with 303 deaths reported. A total of 10 357 people have recovered.									
Democratic Republic of the Congo	Ebola virus disease	Grade 2	31-May-20	17-May-20	17-Oct-20	128	119	53	41.40%
Detailed update given above.									
Democratic Republic of the Congo	Measles	Grade 2	10-Jan-17	1-Jan-20	6-Sep-20	70 899	1 317	1 026	1.40%
The ongoing measles outbreak in Democratic Republic of the Congo is showing a sustained decline in new cases and deaths, which started in week 49 of 2019 (week ending 4 December 2019), continued to week 6 of 2020 (week ending 8 February 2020), followed by a slight increase from weeks 11-13 (week ending 28 March 2020) with a declining trend thereafter. From 1 January 2020 to 6 September 2020, 70 899 suspected cases have been reported, including 1 026 deaths (case fatality ratio 1.4%). This is a decrease compared to the same period in 2019, when there were 184 289 suspected cases and 3 650 deaths reported.									
Democratic Republic of the Congo	Monkeypox	Ungraded	n/a	1-Jan-20	13-Sep-20	4 594	39	171	3.70%
During week 40 (week ending 4 October 2020), a total of 73 suspected cases of monkeypox with two deaths were reported across the country compared to 187 cases the preceding week. Between week 1 and week 40, a total of 6 231 suspected cases including 203 deaths (CFR 3.2%) were reported in 127 health zones from 17 out of 26 provinces in the country. During the same period in 2019, 4 311 suspected cases and 87 deaths (CFR 2.0%) were reported in 120 health zones from 16 provinces. One major challenge to the current emergency includes acquiring the required funding to respond to all the multiple ongoing outbreaks in the country.									
Democratic Republic of the Congo	Plague	Ungraded	12-Mar-19	1-Jan-20	4-Oct-20	124	-	17	13.70%
Ituri province has notified an upsurge of plague cases in the health zone of Rethy. From 11 June to 9 August 2020, a total of 73 cases with 10 deaths (CFR 13.6%) were notified in 5 out of 22 health areas of Rethy health zone. Plague is endemic in Ituri province. Since the beginning of 2020 to date, Ituri Province has reported a total of 124 cases and 17 deaths (CFR 18.7%) in 5 health zones, namely Aungba, Linga, Rethy, Aru, Logo and Kambala. In 2019, from week 1 to 52, a total of 48 cases of bubonic plague including eight deaths have been reported in the country.									
Democratic Republic of the Congo	Poliomyelitis (cVDPV2)	Grade 2	15-Feb-18	1-Jan-18	7-Oct-20	159	159	0	0.00%
No cVDPV2 cases were reported this week. The total number of cases reported in 2020 is 50, while the 2019 case count remains 88. There were 20 cases reported in 2018. The country continues to be affected by several other genetically-distinct cVDPV2s (notably in Kasai, Kwilu, Kwango and Sankuru provinces).									
Equatorial Guinea	COVID-19	Grade 3	14-Mar-20	14-Mar-20	15-Oct-20	5 070	5 070	83	1.60%
The Ministry of Health and Welfare announced the first confirmed COVID-19 case on 14 March 2020. As of 15 October 2020, a total of 5 070 cases have been reported in the country with 83 deaths and 4 954 recoveries.									
Eritrea	COVID-19	Grade 3	21-Mar-20	21-Mar-20	17-Oct-20	425	425	0	0.00%
The first COVID-19 confirmed case was reported in Eritrea on 21 March 2020. As of 17 October 2020, a total of 425 confirmed COVID-19 cases with no deaths were reported in the country. A total of 388 patients have recovered from the disease.									
Eswatini	COVID-19	Grade 3	13-Mar-20	13-Mar-20	18-Oct-20	5 780	5 780	116	2.00%
The first case of COVID-19 was confirmed in the kingdom of Eswatini on 13 March 2020. As of 18 October 2020, a total of 5 780 cases have been reported in the country including 5 415 recoveries. A total of 116 associated deaths have been reported.									
Ethiopia	Cholera	Ungraded	14-May-19	12-May-19	6-Sep-20	14 728		257	1.70%
In week 36 (week ending 6 September 2020), 171 new suspected cases with one associated death were reported. Since the beginning of the year, a total of 14 728 cases with 257 associated deaths have been reported from 12 woredas in Sidama, SNNP and Oromia regions.									
Ethiopia	COVID-19	Grade 3	13-Mar-20	13-Mar-20	18-Oct-20	89 137	89 137	1 352	1.50%
Since the confirmation of the first case on 13 March 2020, Ethiopia has confirmed a total of 89 137 cases of COVID-19 as of 18 October 2020, 1 352 deaths and 42 649 recoveries have been reported.									
Ethiopia	Measles	Ungraded	14-Jan-17	1-Jan-19	26-Apr-20	1 873		-	-
In week 17 (week ending 26 April 2020), the measles outbreak is still ongoing in Oromia, Amhara and Tigray regions. A total of 575 suspected cases and 7 deaths were reported during the week with the majority of suspected cases being reported from Oromia region.									
Ethiopia	Poliomyelitis (cVDPV2)	Grade 2	24-Jun-19	20-May-19	14-Oct-20	29	29	0	0.00%
No cVDPV2 cases were reported this week. So far, there have been 29 cases reported in Ethiopia.									
Gabon	COVID-19	Grade 3	12-Mar-20	12-Mar-20	16-Oct-20	8 881	8 881	54	0.60%
On 12 March 2020, the Ministry of Health announced the confirmation of the first COVID-19 case in the country. As of 16 October 2020, a total of 8 881 cases including 54 deaths and 8 430 recovered have been reported in the country.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Gambia	COVID-19	Grade 3	17-Mar-20	17-Mar-20	14-Oct-20	3 649	3 649	118	3.20%
The first COVID-19 confirmed case was reported in the Gambia on 17 March 2020. As of 15 October 2020, a total of 3 649 confirmed COVID-19 cases including 118 deaths and 2 649 recoveries have been reported in the country.									
Ghana	COVID-19	Grade 3	12-Mar-20	12-Mar-20	14-Oct-20	47 232	47 232	310	0.70%
On 12 March 2020, the Ministry of Health announced two confirmed COVID-19 cases in the country. As of 14 October 2020, a total of 47 232 cases including 310 deaths and 46 578 recoveries have been reported in the country.									
Ghana	Poliomyelitis (cVDPV2)	Grade 2	9-Jul-19	8-Jul-19	14-Oct-20	29	29	0	0.00%
No cVDPV2 cases were reported this week. So far, there have been 11 cases reported in 2020, while the total number of 2019 cases remains 18.									
Guinea	COVID-19	Grade 3	13-Mar-20	13-Mar-20	18-Oct-20	11 518	11 518	70	0.60%
The Ministry of Health in Guinea announced the first confirmed case of COVID-19 on 13 March 2020. As of 18 October 2020, a total of 11 518 cases including 10 427 recovered cases and 70 deaths have been reported in the country.									
Guinea	Lassa Fever	Ungraded	11-Jul-20	11-Jul-20	4-Aug-20	1	1	1	100.00%
A case of Lassa fever was confirmed on 11 July 2020 by the Haemorrhagic Fever laboratory in Guéckédou. The case patient is a 28-year-old, female, 22 weeks of pregnancy, living in the village of Kondian, in the rural district of Koundou Lengo Bengou. She fell ill on 07 June 2020 with chest pain and no history of travel or being in contact with a foreigner a month before her illness. She consulted at Koundou health centre on 10 July 2020, with fever, cough, myalgia, diarrhoea, vomiting, sore throat, and chest pain. The malaria RDT performed was positive. She was treated for malaria and transferred to Guéckédou hospital the same day, where the diagnosis of haemorrhagic fever was made. A diagnostic test for haemorrhagic fever performed at the Haemorrhagic Fever laboratory in Guéckédou was positive for lassa fever. The patient died the next day. A dignified and secure burial was carried out by the Red Cross on 12 July 2020.									
Guinea	Measles	Ungraded	9-May-18	1-Jan-19	19-Oct-20	6 038	366	14	0.30%
During week 39 (week ending in 26 September) there has been a total of 6 038 cases with 366 confirmed and 14 deaths in 2020. During week 44 (week ending 3 November 2019), 127 suspected cases of measles were reported. From week 1 to 44 (1 January - 3 November 2019), a total of 4 690 suspected cases including 18 deaths (CFR 0.4%) have been reported. Of the 4 690 suspected cases, 1 773 were sampled, of which 1 091 tested positive for measles by serology. Three localities in three health districts are in the epidemic phase, namely, Wanindara in Ratoma health district, Dounet in Mamou health district and Soumpoura in Tougue health district.									
Guinea	Poliomyelitis (cVDPV2)	Grade 2	22-Jul-20	22-Jul-20	23-Sep-20	11	11	0	0.00%
Three cVDPV2 cases were reported; two in Kankan and one in N'zerekore. There are now 11 cVDPV2 cases in the country. Previously, 8 cVDPV2 cases were reported in Kankan province making them the first in the country. On 22 July 2020, WHO was notified by the Global Polio Laboratory Network of cases of circulating vaccine-derived poliovirus type 2 (cVDPV2) from Guinea. These viruses were isolated from five acute flaccid paralysis (AFP) cases with onsets of paralysis between 22 March and 28 May 2020, from two separate districts in Kankan province (Kankan district, Mandiana district).									
Guinea-Bissau	COVID-19	Grade 3	25-Mar-20	25-Mar-20	12-Oct-20	2 389	2 389	41	1.70%
On 25 March 2020, the Ministry of Health of Guinea Bissau reported the first COVID-19 confirmed case in the country. As of 12 October 2020, the country has reported 2 389 confirmed cases of COVID-19 with 1 782 recoveries and 41 deaths.									
Kenya	Cholera	Ungraded	21-Jan-19	1-Jan-20	28-Aug-20	711	27	13	1.80%
The outbreak is currently active in Garissa and Turkana counties. A cholera outbreak has been reported in five counties; Garissa, Wajir, Turkana, Murang'a and Marsabit since the beginning of 2020. Cumulative cases are 711 with 13 deaths (CFR 1.9%). The Wajir, Murang'a, Marsabit and Garissa outbreaks are now controlled. The outbreak is active in Turkana County. Turkana County is reporting the fourth wave of the outbreak this year, with 42 cases, so far and a total of 279 cases with 1 death (CFR 0.4%).									
Kenya	COVID-19	Grade 3	13-Mar-20	13-Mar-20	18-Oct-20	44 881	44 881	832	1.90%
On 12 March 2020, the Ministry of Health announced the confirmation of one new COVID-19 cases in the country. As of 18 October 2020, 44 881 confirmed COVID-19 cases including 832 deaths and 31 857 recoveries have been reported in the country.									
Kenya	Leishmaniasis	Ungraded	31-Mar-19	3-Jan-20	15-Sep-20	293	272	7	2.40%
Since 1 January 2020, a total of 293 (suspected and confirmed) visceral leishmaniasis cases have been reported in Marsabit, Garissa, Kitui and Baringo Counties. No new cases were reported in the past week in any affected counties.									
Kenya	Measles	Ungraded	6-May-19	20-Oct-19	15-Sep-20	529	49	2	0.40%
As of 15 September 2020, a total of 529 measles cases including 49 confirmed cases and 2 deaths have been reported in Pokot North sub county, West Pokot county since 20 October 2019. The outbreak is active in five counties; West Pokot, Garissa, Wajir, Tana River and Kilifi.									
Lesotho	COVID-19	Grade 3	13-May-20	13-May-20	14-Oct-20	1 833	1 833	42	2.30%
On 13 May 2020, WHO was notified of the first confirmed COVID-19 case in Lesotho. As of 14 October 2020, 1 833 cases of COVID-19 have been reported, including 961 recoveries and 42 deaths.									
Liberia	COVID-19	Grade 3	16-Mar-20	16-Mar-20	17-Oct-20	1 380	1 380	82	5.90%
From 16 March to 17 October 2020, a total of 1 380 cases including 82 deaths and 1 268 recoveries have been reported from all 15 counties of Liberia. Montserrado County, which hosts the country's capital city, remains at the epicenter of the outbreak.									
Liberia	Lassa fever	Ungraded	23-Jan-19	1-Jan-20	4-Oct-20	48	48	21	43.80%
No new confirmed case was reported during week 40 (week ending 4 October 2020). Of 153 suspected cases reported across the country from 1 January to 4 October 2020, 48 were confirmed. A total of 21 deaths (CFR 43.8%) have been reported among the confirmed cases.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Liberia	Measles	Ungraded	24-Sep-17	1-Jan-19	30-Aug-20	805	93	3	0.40%
In week 35 (week ending 30 August 2020), 11 suspected cases were reported from Nimba (3), Grand Gedeh (1), Cape Mount (2), Lofa (1), Margibi (1), Rivercess (1), Bong (1) and Sinoe (1) counties. Since the beginning of 2020, 805 cases with 3 associated deaths have been reported across the country, of which 93 are laboratory-confirmed, 312 are epi-linked, and 312 are clinically confirmed.									
Madagascar	COVID-19	Grade 3	20-Mar-20	20-Mar-20	16-Oct-20	16 810	16 810	238	1.40%
Madagascar Ministry of Health announced the confirmation of the first COVID-19 case on 14 March 2020. As of 16 October 2020, a total of 16 810 cases have been reported in the country, out of which 16 215 have recovered and 238 deaths reported.									
Malawi	COVID-19	Grade 3	2-Apr-20	2-Apr-20	18-Oct-20	5 857	5 857	181	3.10%
On 2 April 2020, the president of Malawi announced the first confirmed cases of COVID-19 in the country. As of 18 October 2020, the country has a total of 5 857 confirmed cases with 181 deaths and 4 742 recoveries.									
Mali	Humanitarian crisis	Protracted 1	n/a	n/a	13-Aug-20	-	-	-	-
The security situation continues to worsen as violence spreads from the north to the more populated central regions of the country. The presence and activities of armed groups not included in the 2015 agreement continues to influence the security situation, raising challenges for humanitarian access and safety. The country continues to record incidents targeting aid workers. Certain humanitarian operations in Timbuktu and Menaka regions were suspended as a result of violent security incidents. The country has had heavy rains since the end of June 2020, which have caused flooding in Mopti, Gao, Segou and Sikasso regions affecting over 13 200 people, including 5 400 IDPs.									
Mali	COVID-19	Grade 3	25-Mar-20	25-Mar-20	18-Oct-20	3 388	3 388	132	3.90%
On 25 March 2020, the Ministry of Health of Mali reported the first COVID-19 confirmed cases in the country. As of 18 October 2020, a total of 3 388 confirmed COVID-19 cases have been reported in the country including 132 deaths and 2 586 recoveries.									
Mali	Measles	Ungraded	20-Feb-18	1-Jan-19	27-Sep-20	733	382	2	0.30%
During week 32 (week ending 9 August 2020), two suspected cases of measles were reported from three regions in the country. Since 1 January 2020, 682 suspected cases, 353 of which were confirmed have been reported. No associated deaths have been reported so far.									
Mali	Yellow fever	Ungraded	3-Dec-19	1-Jan-20	4-Oct-20	134	4	1	0.70%
As of 4 October 2020, a total of 134 suspected cases have been reported including 4 confirmed cases and 1 death. The cumulative epidemiological situation in 2019 included 78 suspected cases including four 4 confirmed cases and three deaths (CFR 75%). Confirmed cases of yellow fever were reported from the Sikasso and Koulikoro regions.									
Mauritania	COVID-19	Grade 3	13-Mar-20	13-Mar-20	18-Oct-20	7 608	7 608	163	2.10%
The government of Mauritania announced its first confirmed COVID-19 case on 13 March 2020. As of 18 October 2020, a total of 7 608 cases including 163 deaths and 7 347 recovered cases have been reported in the country.									
Mauritania	Crimean-Congo haemorrhagic fever (CCHF)	Ungraded	11-May-20	2-May-20	11-May-20	1	1	0	0.00%
On 11 May 2020, one confirmed case of Crimean-Congo haemorrhagic fever was reported from the Moughataa of Mederdra in the district of Tiguint in the wilaya of Trarza. The case is a 60-year-old butcher from Tiguent who presented with symptoms of fever, fatigue, headaches and epistaxis, with onset on 2 May 2020. He had a history of handling meat carcasses but no recent travel history. He presented at a health facility of 7 May 2020 and a sample was collected for testing following the suspicion of a viral haemorrhagic fever disease. The case-patient was evacuated the same day in the Emergency Department in Nouakchott for further care. On 8 May 2020, the case was confirmed with CCHF by RT-PCR from the INRSP and transferred to the infectious diseases department where he was isolated and treated.									
Mauritania	Dengue	Ungraded	11-May-20	3-May-20	11-May-20	7	7	0	0.00%
On 3 May 2020, two suspected cases of dengue fever were admitted to hospital in Mauritania. On May 4 2020, it was found that the majority of consultations at the hospital had a history of unexplained fever. Thus, samples from the two suspected cases were collected and sent to the National Institute of Research in Public Health (INRSP). On 5 May 2020 the 2 cases were confirmed by RT-PCR positive for Dengue virus with DENV-1 serotype. The cases were discharged from hospital and declared cured after symptomatic treatment. A rapid investigation was carried out at city level and a further 5 additional cases (4 women and 1 man) distributed in 4 districts of Atar (Atar, Tineri, Aghnemrite and Edebaye) were detected.									
Mauritania	Rift Valley Fever	Ungraded	9-Oct-20	4-Sep-20	28-Sep-20	36	36	13	36.10%
The Ministry of Health notified the WHO of 8 cases, including 7 deaths of Rift Valley Fever (RVF) (PCR positive) in breeders, which occurred between 13 September 2020 and 1 October 2020, in several localities in the departments of Tidjikja and Moudjéria (Tagant region), Guerou department (Assaba region) and Chinguetty department (Adrar region). The 7 deaths occurred in the Tagant region (5) and in the Assaba region (2). All these deaths occurred among hospitalized cases with fever and haemorrhagic syndrome (petechiae, gingivorrhagia) and vomiting, in the 3 departments of the region. As of 5 October 2020, a total of 88 samples of suspected cases have been sent to the National Institute for Public Health Research (INRSP): 36 were positive (by PCR and Elisa), 46 were negative. Six samples are still pending for results. Confirmed cases have been reported in 9 regions (Adrar, Assaba, Brakna, Hodh Elchargui, Hodh El Gharby, Tagant, Trarza, Gorgol et Noukchott Sud). The continuous surveillance of RVF at the animal level has confirmed the outbreaks in the Assaba, Tagant, Brakna, Trarza and Hodh Elgharbi regions. The results of 165 samples taken in the period from September 16 to 23, 2020, show that 33 camelids, 4 small ruminants and 6 cattle were positive.									
Mauritius	COVID-19	Grade 3	18-Mar-20	18-Mar-20	13-Oct-20	407	407	10	2.50%
The Republic of Mauritius announced the first three positive cases of COVID-19 on 18 March 2020. As of 13 October 2020, a total of 407 confirmed COVID-19 cases including 10 deaths and 371 recovered cases have been reported in the country.									
Mozambique	Cholera	Ungraded	20-Feb-20	31-Jan-20	20-Sep-20	1 638	38	27	1.60%
A cholera outbreak is ongoing in Mozambique. From 11 January till 20 September 2020, a total of 1 638 cases including 27 deaths (CFR 1.6 %) were reported in Cabo Delgado province. Five districts, namely Mocimboa de Praia, macomia, Ibo, Pemba city and Metuge are affected.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Mozambique	COVID-19	Grade 3	22-Mar-20	22-Mar-20	18-Oct-20	10 866	10 866	75	0.70%
The first COVID-19 confirmed case was reported in Mozambique on 22 March 2020. As of 18 October 2020, a total of 10 866 confirmed COVID-19 cases were reported in the country including 75 deaths and 8 513 recoveries.									
Mozambique	Measles	Ungraded	25-Jun-20	1-Jan-20	22-Jul-20	862	140	0	0.00%
There are measles outbreaks in six districts of Zambezia. The outbreak was declared in March 2020 at the Naula Administrative Post, Alto Molócuè district. As of week 21, there were 862 suspected cases reported, 711 suspected cases tested, 140 IgM+ for measles, no epi-linked cases reported, and no deaths. So far there are 67 cases from Nampula, 18 from Cabo Delgado, 17 from Zambezia and 13 from Niassa provinces. 42% are <5 years old; 48% are aged 5-14 years.									
Namibia	COVID-19	Grade 3	14-Mar-20	14-Mar-20	17-Oct-20	12 293	12 293	131	1.10%
Two cases of COVID-19 were confirmed in Namibia on 14 March 2020. As of 17 October 2020, a total of 12 293 cases have been reported in the country including 10 422 cases who recovered with 131 deaths.									
Namibia	Hepatitis E	Protracted 1	18-Dec-17	8-Sep-17	6-Sep-20	10 072	2 066	65	0.60%
In weeks 35 and 36 (24 August - 06 September 2020), a total of 19 HEV cases were reported country-wide. Since the beginning of the outbreak in December 2017, a cumulative total of 10 072 cases (2 066 laboratory-confirmed, 4 520 epidemiologically linked, and 1 368 suspected cases) including 65 deaths (CFR 0.7%) have been reported countrywide. Khomas Region remains the most affected region, accounting for 5 071 (50%) of reported cases, followed by Erongo 1 864 (19%) since the outbreak began.									
Niger	Floods	Ungraded	9-Sep-20	9-Sep-20	1-Aug-20			3	-
In August 2020, widespread flooding caused by heavy rain and by overflow of the Niger river has affected several regions of Nigeria (Maradi most affected, Agadez, Niamei and Tahoua regions), leading to fatalities, people displaced and severe damage. Floods are reaching record breaking levels of 700 cubic centimetres - the highest was in 2019 with 639 cubic centimetres. As of 9 September 2020, around 39 655 households have been affected, with 342 263 victims. The WHO is supporting the country office in assessing the public health impact of flooding including access to essential lifesaving health services, surveillance of possible disease outbreaks and participating in joint needs assessments.									
Niger	Humanitarian crisis	Protracted 1	1-Feb-15	1-Feb-15	3-Sep-20	-	-	-	-
The security situation continues to worsen in border areas of Burkina Faso, Mali and Nigeria following armed groups' attacks in the region. This security situation is hampering humanitarian access and affecting access to basic health and social services. Members of an unidentified armed group attacked seven humanitarians working for ACTED and their guide on 9 August 2020, killing all eight people. They were visiting a wildlife reserve near Kouré, in Tillabéri region. In August 2020, widespread flooding caused by heavy rain and by overflow of the Niger river has affected several regions of Nigeria (Maradi most affected, Agadez, Niamei and Tahoua regions), leading to fatalities, people displaced and severe damage. As of 9 September 2020, around 39 655 households have been affected, with 342 263 victims. According to OCHA statistics, 2.9 million people are in need of humanitarian assistance, 190 248 people are internally displaced, and 217 858 are refugees in the country. Food security remains a key challenge in Niger, particularly for displaced populations and host communities in Diffa, Tahoua, and Tillabéri regions.									
Niger	COVID-19	Grade 3	19-Mar-20	19-Mar-20	18-Oct-20	1 210	1 210	69	5.70%
From 19 March to 18 October 2020, a total of 1 210 cases with 69 deaths have been reported across the country. A total of 1 126 recoveries have been reported from the country.									
Niger	Measles	Ungraded	10-May-19	1-Jan-20	31-May-20	2 079	241	4	0.20%
From week 1 to 22 of 2020, Niger reported a total measles suspected case count of 2 079 of which there were 241 lab confirmed (IgM positive) and 4 deaths in 8 regions: Agadez (50 cases, 0 deaths), Diffa (4 cases, 0 deaths), Dosso (27 cases, 0 deaths), Maradi (101 cases, 2 deaths), Niamey (23 cases, 0 deaths), Tahoua (62 cases, 1 death), Tillabéri (67 cases, 0 deaths) and Zinder (167 cases, 1 death). In 2019 a total of 10 207 suspected measles cases were reported from eight regions in the country. So far, 24 districts have been affected by outbreaks in 2020.									
Nigeria	Humanitarian crisis	Protracted 3	10-Oct-16	n/a	31-Aug-20	-	-	-	-
The humanitarian crisis in the North-eastern part of Nigeria persists, with continued population displacement from security compromised areas characterized by overcrowding in many camps in the region. Health Sector partners are supporting the government led COVID-19 response across the three states, including support through joint resource mobilization activities, overall coordination and monitoring of the response in the northeast.									
Nigeria	COVID-19	Grade 3	27-Feb-20	27-Feb-20	18-Oct-20	61 440	61 440	1 125	1.80%
The Federal Ministry of Health of Nigeria announced the first confirmed case of COVID-19 in Lagos, Nigeria on 27 February 2020. As of 18 October 2020, a total of 61 440 confirmed cases including 1 125 deaths and 56 611 recovered cases have been reported in the country.									
Nigeria	Lassa fever	Ungraded	24-Mar-15	1-Jan-20	11-Oct-20	1 117	1 103	242	21.70%
A total of five new confirmed cases with one death were reported from three states - Ondo (three cases with one death), Edo (one case), and Ebonyi (one case) in week 41 (week ending 11 October 2020). From 1 January to 11 October 2020, a total of 1 117 cases (1 103 confirmed and 14 probable) with 242 deaths (CFR 21.7%) have been reported from 129 Local Government Areas across 27 states in Nigeria. A total of 12 contacts are currently being followed.									
Nigeria	Measles	Ungraded	25-Sep-17	1-Jan-20	7-Jun-20	420		14	3.30%
Between epi weeks 1 - 23 (week ending 7 June 2020), a total of 420 suspected cases of measles were reported from 88 LGAs in 20 states and FCT. None was laboratory confirmed and 14 deaths were recorded.									
Nigeria	Poliomyelitis (cVDPV2)	Grade 2	1-Jun-18	1-Jan-18	14-Oct-20	55	55	0	0.00%
No cVDPV2 cases was reported this week. There are 3 cVDPV2 cases in 2020 including one environmental case, and 18 cVDPV2 cases were reported in 2019. There have been 3 cVDPV2 cases in 2020, and there were 18 cVDPV2 cases reported in 2019 and 34 in 2018.									
Nigeria	Yellow fever	Ungraded	14-Sep-17	1-Jan-20	2-Oct-20	1 843	5	0	0.00%
In week 25, there were 18 suspected cases reported from 16 LGA in 12 states. Between week 1 and 40 in 2020, a total of 1 843 suspected cases including 12 presumptive positive cases and 5 confirmed cases were reported. No associated death was reported. In 2019, a total of 4 288 suspected cases were reported in 618 (83.1%) LGAs from all states in the country. Four states: Katsina, Kebbi, Bauchi and Benue had the highest attack rates. A total of 227 cases were confirmed in Nigeria and from IP Dakar and 231 deaths were reported.									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Rwanda	COVID-19	Grade 3	14-Mar-20	14-Mar-20	18-Oct-20	4 974	4 974	34	0.70%
The Rwanda Ministry of Health announced the confirmation of the first COVID-19 case on 14 March 2020. As of 18 October 2020, a total of 4 974 cases with 34 deaths and 4 783 recovered cases have been reported in the country.									
Sao Tome and Principe	COVID-19	Grade 3	6-Apr-20	6-Apr-20	18-Oct-20	933	933	15	1.60%
On 6 April 2020, the Ministry of Health of Sao Tome and Principe reported the country's first case of COVID-19. As of 18 October 2020, a total of 933 confirmed cases of COVID-19 have been reported, including 15 deaths. A total of 898 cases have been reported as recoveries.									
Senegal	COVID-19	Grade 3	2-Mar-20	2-Mar-20	18-Oct-20	15 418	15 418	317	2.10%
Between 2 March 2020 and 18 October 2020, a total of 15 418 confirmed cases of COVID-19 including 317 deaths have been reported from Senegal. A total of 13 814 cases have recovered.									
Senegal	Crimean-Congo haemorrhagic fever (CCHF)	Ungraded	10-Aug-20	10-Aug-20	12-Aug-20	1	0	0	0.00%
A case of Crimean Congo haemorrhagic fever was notified in Senegal on 12 August 2020, as part of the epidemiological surveillance system in the country, in a 27-year-old woman, an artist, living in the Pikine district in Dakar. At the time of diagnosis, she presented with a fever with haemorrhagic signs (gingivorrhagia, metrorrhagia). The preliminary information shows that she visited 3 public structures, including two private structures and one private dispensary since the beginning of the disease. This was in the context of post-tabaski where she handled raw meat. Investigations by a multidisciplinary team is ongoing to document this outbreak.									
Senegal	Dengue	Ungraded	1-Sep-20	7-Sep-20	7-Sep-20	1	1	0	0.00%
A 36-year-old male tested positive for dengue serotype 2 (IgM) on 14 August 2020 by IP Dakar. Onset of symptoms began 10 July 2020 including fever, headaches, and arthralgia. Initial case investigations from the 1 June 2020 onward had found 6 suspect cases who then tested negative for dengue. No other cases have been reported as of 21 September 2020. Response actions include vector control entomological investigation and ongoing case identification.									
Senegal	Yellow Fever	Ungraded	30-Jul-20	30-Jul-20	30-Jul-20	1	1	0	0.00%
A 5-year-old girl presented with fever and abdominal pain a few days prior to consultation on 1 July 2020. She had no history of YF vaccination. A sample was sent to IP Dakar and the patient tested positive for YF via seroneutralization technique.									
Seychelles	COVID-19	Grade 3	14-Mar-20	14-Mar-20	18-Oct-20	148	148	0	0.00%
The first COVID-19 confirmed cases were reported in Seychelles 14 March 2020. After 78 days of reporting no confirmed cases, a fishing vessel replacement crew arrived by air in Seychelles on 23 June 2020, a group of them having tested positive for COVID-19 at the point of entry. As of 18 October 2020, 148 cases have been confirmed for COVID-19 in total, including 147 recoveries and no deaths.									
Sierra Leone	COVID-19	Grade 3	31-Mar-20	27-Mar-20	18-Oct-20	2 330	2 330	73	3.10%
On 31 March 2020, the President of Sierra Leone reported the first confirmed COVID-19 case in the country. As of 18 October 2020, a total of 2 330 confirmed COVID-19 cases were reported in the country including 73 deaths and 1 760 recovered cases.									
South Africa	COVID-19	Grade 3	5-Mar-20	3-Mar-20	18-Oct-20	703 793	703 793	18 471	2.50%
The first case of COVID-19 was reported in South Africa on 5 March 2020. As of 18 October 2020, there has been a cumulative total of 703 793 cases, with 18 471 deaths and 634 543 recoveries.									
South Sudan	Floods	Grade 1	1-May-20	1-May-20	1-Sep-20				-
From early May 2020, several counties reported above-average rainfall and rising water levels in the River Nile, which has resulted in massive flooding affecting an estimated 500 000 individuals in 22 affected counties. Furthermore, most of the flood-affected counties are already experiencing multiple shocks such as large-scale displacement, intercommunal violence, and disease outbreaks including Covid-19.									
South Sudan	Humanitarian crisis	Protracted 3	15-Aug-16	n/a	31-Aug-20	-	-	-	-
The humanitarian situation has escalated in recent weeks with inter-communal fighting in several parts of the country. On 22 June 2020 fighting in Pibor town caused displacement toward Verteth and Labarab. A presidential committee has been set up in response to the recent escalation. Floods in Bor South and Panyijar counties also continue to cause displacement of over 13 000 persons.									
South Sudan	COVID-19	Grade 3	5-Apr-20	2-Apr-20	18-Oct-20	2 847	2 847	55	1.90%
On 5 April 2020, the Ministry of Health of South Sudan reported the country's first case of COVID-19. As of 18 October 2020, a total of 2 847 confirmed COVID-19 cases were reported in the country including 55 deaths and 2 655 recovered cases.									
South Sudan	Hepatitis E	Ungraded	-	3-Jan-19	21-Jun-20	337	41	2	0.60%
The current outbreak in Bentiu UN Protection of Civilians (POC), which started at the beginning of 2019, has continued since the beginning of 2019 with five new cases reported in week 25 (week ending 21 June 2020). As of the reporting date, a total of 337 cases of hepatitis E including two deaths have been reported from South Sudan, mostly from Bentiu POC (325 total cases), and a total of 12 suspected cases including 4 confirmed cases in Lankein. The last case in Lankein was reported in week 25 (week ending on 23 June 2019).									
South Sudan	Measles	Ungraded	24-Nov-18	19-Sep-19	21-Jun-20	916	50	2	0.20%
Between week 38 of 2019 to week 25 of 2020, a total of 916 suspected cases of measles of which 50 were laboratory-confirmed and 2 deaths (CFR 0.6%) have been reported. The outbreak has affected 6 counties (Tonj East, Magwi, Bor, Kapoeta East, Aweil East and Wau) and Bentiu Protection of Civilians Sites (POC).									

Country	Event	Grade	Date notified to WCO	Start of reporting period	End of reporting period	Total cases	Cases Confirmed	Deaths	CFR
Tanzania, United Republic of	COVID-19	Grade 3	16-Mar-20	16-Mar-20	18-Oct-20	509	509	21	4.10%
The Ministry of Health, Community Health Community Development, Gender, Elderly and Children in Tanzania reported the country's first case of COVID-19 on 16 March 2020. As of 20 September 2020, a total of 509 cases have been reported in the country including 21 deaths. The last information on confirmed COVID-19 cases was shared by Tanzania mainland on 29 April 2020 and Zanzibar last shared information on on-going COVID-19 outbreak on 7 May 2020.									
Togo	COVID-19	Grade 3	6-Mar-20	1-Mar-20	18-Oct-20	2 057	2 057	51	2.50%
Detailed update given above.									
Togo	Poliomyelitis (cVDPV2)	Grade 2	18-Oct-19	13-Sep-19	14-Oct-20	17	17	0	0.00%
No new case of cVDPV2 was reported during the past week. There have been nine cases so far in 2020 while the total number of cVDPV2 cases reported in 2019 remains eight.									
Togo	Yellow Fever	Ungraded	4-Feb-20	3-Feb-20	24-Aug-20	3	1	1	33.30%
On 28 April 2020, WHO received information regarding a confirmed yellow fever case in Mango village, Oti district, Savanes region in the northern part of Togo. The results were confirmed at the yellow fever reference laboratory, Institut Pasteur in Dakar, Senegal by seroneutralisation. The case is a 55-year-old female with no travel or vaccination history for yellow fever. On 3 February 2020, she presented to a health facility with symptoms of fever with aches. The following day she developed jaundice and a blood sample was taken and transported to the national laboratory as yellow fever was suspected. The case-patient died three days later while receiving treatment. On 17 March 2020, the sample tested IgM positive for yellow fever. On 22 March 2020, an in-depth multi-disciplinary investigation was conducted, and no additional case was detected.									
Uganda	Humanitarian crisis - refugee	Ungraded	20-Jul-17	n/a	15-Sep-20	-	-	-	-
Between 1 and 31 July 2020, a total of 3 056 new refugee arrivals crossed into Uganda from the Democratic Republic of the Congo (3 056), South Sudan and Burundi. Uganda hosted 1 425 040 asylum seekers as of 30 June 2020, with 94% living in settlements in 11 of Uganda's 128 districts and in Kampala. Most are women within the age group 18 - 59 years.									
Uganda	Cholera	Ungraded	11-May-20	29-Apr-20	7-Sep-20	1 488	17	6	0.40%
As of 7 September 2020, we have 1 488 cases, 483 in Moroto, 543 in Nabilatuk, 72 in Napak, 390 in Kotido. On 11 May 2020, a cholera outbreak was confirmed in Moroto district. The index case was a 17-year-old male patient from Natapar Kocuc Village, Loputuk parish, Nadunget Subcounty who was seen on 29 April 2020 with acute watery diarrhoea and severe dehydration. On 4 May 2020 more cases with similar symptoms from the same location with the index case were seen and cholera was suspected. On 11 May 2020, CPHL confirming <i>Vibrio cholerae</i> serotype 01 Inaba detected in 7 out of 8 stool samples that were collected. As of 12 June 2020, the cumulative number of cases is 682 including 6 deaths.									
Uganda	COVID-19	Grade 3	21-Mar-20	21-Mar-20	17-Oct-20	10 590	10 590	97	0.90%
The first COVID-19 confirmed case was reported in Uganda on 21 March 2020. As of 17 October 2020, a total of 10 590 confirmed COVID-19 cases, 6 992 recoveries with 97 deaths.									
Zambia	COVID-19	Grade 3	18-Mar-20	18-Mar-20	18-Oct-20	15 853	15 853	346	2.20%
The first COVID-19 confirmed case was reported in Zambia on 18 March 2020. As of 18 October 2020, a total of 15 853 confirmed COVID-19 cases were reported in the country including 346 deaths and 15 005 recovered cases.									
Zambia	Poliomyelitis (cVDPV2)	Grade 2	17-Oct-19	16-Jul-19	14-Oct-20	2	2	0	0.00%
No new case of circulating vaccine-derived poliovirus type 2 (cVDPV2) has been reported since the beginning of 2020. There were two cVDPV2 cases reported in 2019.									
Zimbabwe	Anthrax	Ungraded	6-May-19	6-May-19	4-Aug-20	406		1	0.20%
The anthrax outbreak is ongoing in Zimbabwe. This outbreak started in week 36, 2019, affecting mainly Buhera and Gokwe North and South districts but a surge in cases started appearing in week 38 when cases were reported in some other areas. Ten new anthrax cases and no deaths were reported in epidemiological week 40 (week ending on 4 October 2020). The reported cases are from Gokwe North District (9), Gokwe South District (1) in Midlands Province. Since 1 January to 4 October 2020, a total of 406 cases were reported.									
Zimbabwe	COVID-19	Grade 3	20-Mar-20	20-Mar-20	18-Oct-20	8 147	8 147	231	2.80%
The first COVID-19 confirmed case was reported in Zimbabwe on 20 March 2020. As of 18 October 2020, a total of 8 147 confirmed COVID-19 cases were reported in the country including 231 deaths and 7 678 cases that recovered.									

†Grading is an internal WHO process, based on the Emergency Response Framework. For further information, please see the Emergency Response Framework: <http://www.who.int/hac/about/erf/en/>.

Data are taken from the most recently available situation reports sent to WHO AFRO. Numbers are subject to change as the situations are dynamic.

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