WEST AFRICAN HEALTH ORGANIZATION





2019 HEALTH SITUATION IN THE ECOWAS REGION

West African Health Organization

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ABBREVIATION	DEFINITION
ANC	Antenatal Consultation
ARV	Antiretroviral
ARVT	Antiretroviral Treatment
CAPS	Leadership Capacity Strengthening
ECOWAS	Economic Community of West African States
EmONC	Emergency Obstetric and New-born Care
EPD	Epidemic-Prone Disease
HIS	Health Information System
ніх	The Human Immunodeficiency Virus
IPT	Intermittent Preventive Treatment of Malaria
NCDC	Nigerian Centre for Disease Control
NHIS	National Health Information System
РМТСТ	Prevention of Mother-to-Child Transmission of HIV
RAD	Regional Action Through Data
RCDSC	Regional Centre for Surveillance and Disease Control
REDISSE	Regional Disease Surveillance and Systems Enhancement
тв	Tuberculosis
TFP	Technical and Financial Partner
WAHO	West African Health Organisation

FOREWORD



Quality health information is critical to the prioritization, monitoring and evaluation of public health actions.

Every year, WAHO produces a health situation report on the health situation in the ECOWAS region. The yearly report aims to share information coming directly from the countries for monitoring the performance of their health systems.

The report will also enable countries take ownership of the process, and thereby perpetuate the practice of preparing annual reports on the health situation of each of the ECOWAS member states.

This year, the "2019 health situation report" is being published for wide consumption as a booklet, but will also be available electronically.

Without a doubt, the production of this document greatly demonstrates an ongoing desire to share information on the region's health situation among the population.

The success and sustainability of the publication will therefore, largely depend on the extent to which it can help contribute to strengthening the health systems of member states, and on the continuous improvement of the quality of data shared by the National Health Information System (NHIS) of each country.

We believe that the efficient use of the regional health data sharing platform made available to countries since the end of 2014 will help achieve of this objective.

On behalf of the staff and management of WAHO, I thank and applaud all the various stakeholders, who contributed to the preparation of this report. We particularly thank the staff of the Ministries of Health, who assisted with the data collection.

WAHO is also grateful to USAID and the World Bank for their significant technical and financial support, through the "Regional Action through Data" (RAD) and the Regional Disease Surveillance Systems Enhancement (REDISSE) Projects respectively; both of which contribute to our health systems progress.

We are aware that this document can be improved and therefore remain open to your feedback to that effect.

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Prof Stanley OKOLO Director General

1. INTRODUCTION

The organisation, management and use of health information systems for decision making have been a great challenge for developing countries. ECOWAS countries in particular have, therefore, undertaken several initiatives to strengthen this important aspect of health systems management.

Since its establishment, the West African Health Organisation has continued to design initiatives and actions aimed at strengthening and/or maintaining strong and resilient health information systems that are capable of producing and making available quality information for timely decision-making. To that effect, a regional platform was set up, based on the DHIS2 technology. The platform helps to collect, manage and share, at the regional level, information on epidemic-prone diseases, and on many routine indicators, thereby facilitating mutual access to information among countries of the community.

Having set up the systems for collecting and managing routine information, it is important to ensure that they are enhanced. "The Health Situation in ECOWAS Countries" report is one of the 5 health information products that WAHO intends to use to disseminate health information within ECOWAS. Its main objective is to share information on the performance of healthcare systems of the 15 member countries every year. As a result, the main source of data is the national routine health information systems. This document will summarize the main indicators characterizing the availability of services and their operational capacities, the coverage of priority health interventions, the use and quality of care, and the main causes of morbidity and mortality. It will present an overview of the 15 national health systems of ECOWAS. The data presented was collected from the countries in the year 2019 and cover the services of the year 2018. Data from national routine health information systems, for the time being, could only be available in the second quarter of the following year for faster countries.

This first experience also suffered much delay due to organisational challenges. Then with the COVID-19 pandemic, the document could only be released much later. However, it still remains highly vital, given the originality of the information available at the regional level.

Results of the analysis are categorized as follows:

- Demographic Indicators
- Availability of health care services
- Use of services (prevention and care)
- Reasons for medical consultation and causes of death
- Epidemic-prone diseases.

It is WAHO's wish that countries will adopt this document and that it occupies an important place among the tools for monitoring the performance of their health systems, to allow for more informed and better guided decisions..

2. METHODOLOGY

All the production stages of this document were executed with the contribution of health information systems managers from the 15 Member States. The stages range from validating collection tools and tracking indicators, to collecting data, validating them and finally validating the results.

The data presented in this report were provided by the countries. An Excel sheet was been sent to all countries (WAHO Liaison Officers and NHIS Managers) between June and September 2019 for the collection of year 2018 service data. Data verification, correction and validation were carried out between October and December 2019. The data verification and correction process consisted of a series of exchanges between WAHO's HIS team members and national HIS managers, with the objective of improving the completeness and accuracy of the data finally presented here.

The annual meeting of National HIS Managers with technical and financial partners (PTF) held in Banjul from 27 to 30 January, 2020 (having been postponed twice between October and December 2019), was an avenue for validating results of the analysis between countries and partners. Each country's delegation had time to present their data, receive feedback from counterparts and, based on the feedback, make any final modifications required. For some, there was need to give an additional two weeks after the meeting to complete/correct their data.



At the end of the meeting, the national participants and partners validated the regional report on the 2019 health situation, while taking into account data to be completed by the countries concerned.

Some incomplete data in this final version of the document are due to the fact that such data are not collected by the routine systems of the countries concerned. However, the overall completeness rate is 68% with a variation of 53% for Senegal to 85% for Liberia (Figure 1).

Most of the missing fields are a disaggregation of certain indicators (by sex or by age bracket).

Regarding the section on epidemic-prone diseases, it was written in collaboration with the Regional Centre for Surveillance and Control Disease (RCSDC) team, which is WAHO's specialized agency in the area. In view of the importance of time frame, this section of the report represents the year 2019.

3. DEMOGRAPHIC INDICATORS



The population of ECOWAS was estimated at 385,145,845 inhabitants in 2018, of which 49% were women (Table 1). The annual growth rate was 3.07%.

Table 1: Estimate	d population	in 2018
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PAYS / Countries /	Population /	Men		Womer	1	Growth rate (%)
Paises	População	N	%	N	%	
BENIN	11,554,473	5,681,576	49.2%	5,872,897	50.8%	3.52
BURKINA FASO	20,244,079	9,777,133	48.3%	10,466,946	51.7%	3.1
CABO VERDE	544,081	273,904	50.3%	270,177	49.7%	1.19
COTE D'IVOIRE	25,195,540	13,000,898	51.6%	12,194,642	48.4%	2.6
The GAMBIA	2,196,412	1,082,372	49.3%	1,114,040	50.7%	3.1
GHANA	29,551,253	14,410,639	48.8%	15,140,614	51.2%	2.17
GUINEA	11,883,516	5,754,536	48.4%	6,128,981	51.6%	3.1
GUINEA BISSAU	1,584,763	780,057	49.2%	804,706	50.8%	2.2
LIBERIA	4,279,698	2,140,963	50.0%	2,138,735	50.0%	2.1
MALI	19,599,288	9,603,651	49.0%	9,995,637	51.0%	3.6
NIGER	21,466,864	10,709,132	49.9%	10,757,732	50.1%	3.82
NIGERIA	206,174,292	104,745,553	50.8%	101,428,739	49.2%	3.2
SENEGAL	15,726,037	7,829,997	49.8%	7,896,040	50.2%	2.7
SIERRA LEONE	7,701,185	3,790,791	49.2%	3,910,394	50.8%	2.6
TOGO	7,440,364	3,628,345	48.8%	3,812,019	51.2%	2.45
OVERALL	385,141,845	193,209,547	50.2%	191,932,299	49.8%	3.07

For the purposes of proper planning and monitoring of health interventions, it was necessary to make estimates of key target populations. These were mainly children under one-year-old, children under five, women of childbearing age, expected number of pregnancies and expected number of births. The various estimates are presented by country in Table 2.

Table 2: Estimate of priority population groups in 2018

PAYS	Population 0-11 mois	Population 1-4 ans	Femmes 15-49 ans	Grossesses attendues	Naissances attendue
BENIN	385 664	1 576 194	2 756 061	495 818	431 1 4 6
BURKINA FASO	777 145	2 822 405	4 856 340	1 118 519	897 371
CABO VERDE	10 498	41 865	143 683	10 544	10 544
COTE D'IVOIRE	885 359	3 204 409	6 086 255	1 056 888	880 740
The GAMBIA	63 696	287 730	557 889	98 839	92 249
GHANA	1 182 050	4 284 932	7 092 301	1 182 050	1 182 050
GUINEE	424 810	1 589 828	2 970 879	534 758	475 34
GUINEE BISSAU	69 401	249 468	412 654	84 407	69 401
LIBERIA	171 188	727 548	925 176	186 515	39 783
MALI	783 972	2 743 900	4 311 843	979 964	979 964
NIGER	930 966	3 431 074	4 458 729	974 236	779 389
NIGERIA	4 410 927	28 761 771	51 327 990	11 210 033	9 341 69-
SENEGAL	109 596	422 366	3 785 362	694 462	578 718
SIERRA LEONE	308 047	1 055 062	3 746 190	656 332	546 944
TOGO	230 651	855 642	1 860 091	275 293	245 532
ENSEMBLE	10 743 970	52 054 194	95 291 443	19 558 659	16 550 866

4.1. Private health facilities

Private healthcare services exist in all ECOWAS countries, but information about their contribution to provision of health care to the population remains elusive to national health information systems.

To have an idea of the difference among the countries, Table 3 presents information on the availability of private health facilities and their contribution to health information. In terms of availability, Nigeria and Senegal have the largest numbers of private health facilities listed by the HIS (10,679 and 2,754 respectively). But unfortunately, these two countries are those where information on services provided to the population is not captured by health information systems. Burkina Faso and The Gambia, on their part, receive information from all the approved private facilities. At the regional level, 15.54% of private establishments share their information on services provided with the national health information system.

Table 3: Number of private health facilities identified for data collection

PAYS	Nombre de formations	Nombre de répondants	Taux de réponse (%)
BURKINA FASO	533	533	100,00
The GAMBIA	14	14	100,00
LIBERIA	312	301	96,47
MALI	794	651	81,99
SIERRA LEONE	92	50	54,35
GHANA	2 034	916	45,03
GUINEE BISSAU	18	8	44,44
NIGER	356	152	42,70
TOGO	242	91	37,60
BENIN	2 614	592	22,65
COTE D'IVOIRE	669	76	11,36
CABO VERDE	186	4	2,15
GUINEE	507	0	0
NIGERIA	10 679	0	0
SENEGAL	2 754	0	0
ENSEMBLE	21 804	3 388	15,54

4.2. Availability of health facilities by level of care

Availability of health facilities that ensure coverage of healthcare throughout the region has always been a great challenge in all countries of our region. Information on availability was collected by level of care; primary, secondary and tertiary level care services.

Coverage of healthcare services by country is presented in Table 4 and is summarized as follows:

a) Coverage of tertiary healthcare services:

- At the regional level, coverage is estimated at 0.07 per 100,000 inhabitants, that is roughly 1 hospital offering tertiary-level healthcare for 1.43 million people;
- Cabo Verde (with 1 hospital per 250,000 inhabitants) and The Gambia (with 1 hospital per 278,000 inhabitants) are the countries with the highest tertiary-health service coverage in the region.
- Ghana and Côte d'Ivoire have the lowest coverage (1 service per 5,000,000 inhabitants).

- b) Coverage of secondary healthcare services:
 - With regard to secondary healthcare services, the regional average is estimated at 1.52 facilities per 100,000 inhabitants, that is roughly one facility for 65,790 inhabitants.
 - The Gambia (with 1 service for 13,550 inhabitants), followed far behind by Nigeria (with 1 service for 48,309 inhabitants) are the countries with the highest coverage.
 - While Benin and Niger are the least equipped in the category.

c) Coverage of primary healthcare services (first-contact services):

- For facilities offering primary healthcare, the ratio is 16.82 per 100,000 inhabitants. This amounts to about 1 health facility for 5,945 inhabitants.
- Within the region, The Gambia is the country with the best coverage in primary level healthcare with one health facility for approximately 2,500 inhabitants;
- On the contrary, Cabo Verde, Guinea Bissau and Benin are the least served countries in this category of services.

" Availability of health facilities that ensure coverage of healthcare throughout the region has always been a great challenge in all countries of our region. "

4.2. Availability of health facilities by level of care

Table 4: Estimated coverage of health facilities per 100,000 inhabitants in 2018 by level of care

PAYS	Etablissement de santé primaire	Etablissement de santé secondaire	Etablissement de santé tertiaire
BENIN	7,86	0,04	0,05
BURKINA FASO	11,00	0,22	0,07
CABO VERDE	5,90	0,70	0,40
COTE D'IVOIRE	9,80	0,47	0,02
The GAMBIA	40,61	7,38	0,36
GHANA	28,16	1,77	0,02
GUINEE	17,10	1,80	0,19
GUINEE BISSAU	6,94	1,01	0,19
LIBERIA	20,40	0,76	0,05
MALI	NA	1,17	0,12
NIGER	16,97	0,09	0,03
NIGERIA	17,56	2,07	0,07
SENEGAL	29,06	0,28	0,07
SIERRA LEONE	17,26	0,73	0,10
TOGO	15,60	1,50	0,04
ENSEMBLE	16,82	1,52	0,07

" Information on availability was collected by level of care, including primary, secondary, and tertiary care services. "

4.3. Availability of beds, essential drugs and EmONC services

> With regard to beds and drugs in health facilities, the problem is mainly the lack of data. Only four of the 15 countries (Benin, Cote d'Ivoire, Guinea and Guinea Bissau) were able to indicate the proportion of health facilities possessing all the elements in the list of essential drugs, according to their type.

Four other countries (Benin, Guinea Bissau, Senegal and Sierra Leone) do not have data on the availability of health facilities offering emergency obstetric and new-born care (EmONC) services.

The available information has been presented in Table 5.

Table 5: Availability of hospital beds, essential drugs and EmONC services in 2018

PAYS	Lits d'hospitalisation (pour 10 000 hbts)	Disponibilité des médicaments essentiels (%)	Disponibilité des SONU (pour 500 000 hbts)	Disponibilité des SONU de base (pour 500 000 hbts)	Disponibilité des SONU Complets (pour 500 000 hbts)
COTE D'IVOIRE	0,67	92,44	0,18	0,36	0,22
BENIN	4,70	35,00	NA	NA	NA
GUINEE	1,00	21,50	2,48	1,05	1,43
GUINEE BISSAU	NA	13,00	NA	NA	NA
BURKINA FASO	3,10		0,90	0,90	0,70
CAP VERT	20,35	NA	6,00	NA	NA
The GAMBIA	10,40		60,00	46,00	14,00
GHANA	10,24	NĂ	495,83	416,40	79,44
LIBERIA	694,00		86,00	83,30	4,10
MALI	2,91	NA	14,00	12,00	2,00
NIGER	2,50		29,00	28,00	1,00
NIGERIA	NA	NA	1,20	NA	NA
SENEGAL	0,72				
SIERRA LEONE	2,05	NA	NA	<mark>4,8</mark> 0	1,60
TOGO	7,00	NA	4,50	2,89	1,61
VALEURS REFERENCE	NA	100	5 ,00	4,00	1,00

4.4. Availability of essential health personnel in public health facilities

The availability of the health personnel needed to ensure quality care in the various health facilities is one of the vital indicators for classifying the operational capacity of health services.

For this report, only two essential categories of healthcare professionals (doctors and nurses) are under consideration.





The horizontal lines drawn are benchmarks from the World Health Organisation, which believes that in order to attainment the SDGs, countries should have at least 9 doctors per 10,000 inhabitants[1] and 35.5 nurses and midwives for the same population[2].

The estimated regional ratio is 2.6 doctors to 10,000 inhabitants and 11.5 nurses to 10,000 inhabitants. The highest coverage for doctors is 6.3 in Cabo Verde compared to 0.2 in Niger.

[1] https://unstats.un.org/sdgs/metadata/files/Metadata-03-08-01.pdf [2]https://apps.who.int/iris/bitstream/handle/10665/250368/9789241511131eng.pdf;jsessionid=C657F5061686017A190382FD75EB4552?sequence=1

5.1. Immunization services

The immunization coverage reported by countries for 2018 is presented in Figure 3 for three main vaccines (BCG, DTP3/Penta3 and Measles) and for the percentage of children fully vaccinated. Two things can be observed from the figure:

- The first is that countries still have difficulty estimating the target population for vaccination. Benin, Burkina Faso, Mali, Niger and Nigeria reported coverage rates of over one hundred per cent nationally. This is usually because the denominators used to calculate these indicators are estimated from different sources and may lead to different assumptions;
- Secondly, the coverage of fully vaccinated children is sometimes higher than that of a specific vaccine, as in Nigeria and Senegal. On the other hand, Côte d'Ivoire, Ghana and Niger, with a relatively high coverage (over 90%) of 3 vaccines separately, have a very low coverage of completely vaccinated children (less than 40%). This demonstrates, in our view, the problem of quality of data recorded on vaccination.



Figure 3: Reported immunisation coverage in public health facilities in 2018 (%)

There is need to continue extensive discussion on the two challenges at national and regional levels in order to find a consensual and harmonized methodology for estimating and recording vaccination data in all countries. Generally, vaccine coverage is relatively high n almost all countries, mainly in Cabo Verde. The regional coverage is 91.89% for BCG, 90.23% for Penta3, and 85.74% for measles, with 71.12% of children fully vaccinated.

5.2. Obstetrical services 5.2.1. Antenatal care

Information on antenatal care visits is presented in Table 6. The regional average for attendance to the first antenatal consultation (ANC1) is 64.5%. This means that two out of three pregnant women had at least one visit for pregnancy monitoring. But at the national level, the data is worrisome. In Benin, the proportion of pregnant women who have had ANC1 exceeds 100%, whereas in Nigeria, it is 52.1% and in Senegal, 53%.

The percentage of women having made at least four antenatal visits (ANC4) at the regional level is barely 30.3%, which is less than one-third, with the highest value of 84.6% in Cabo Verde and the lowest, 17% in Liberia.

Finally, the table below presents the proportion of pregnant women who received two doses of malaria prophylactic treatment (IPT2) at their second visit. At the regional level, the indicator is 43.2%.

PAYS	Au moins 1 CPN (%)	Au moins 4 CPN (%)	A reçu un TPI2 à la CPN
BENIN	109,20	26,50	NA
CABO VERDE	91,00	84,60	29,80
GUINEE	90,80	54,50	75,30
COTE D'IVOIRE	86,76	30,34	63,11
NIGER	84,79	35,36	62,90
SIERRA LEONE	82,40	53,51	76,86
The GAMBIA	80,63	45,81	76,08
GHANA	79,50	74,70	59,70
BURKINA FASO	79,04	39,26	71,46
MALI	77,70	23,88	43,00
TOGO	77,70	34,70	68,40
LIBERIA	76,00	17,00	13,00
GUINEE BISSAU	73,00	28,00	64,49
SENEGAL	53,00	48,00	58,51
NIGERIA	52,10	21,40	32,00
ENSEMBLE	64,48	30,33	43,21

Table 6: Coverage of antenatal consultations (ANC) and prevention of malaria in pregnant women in 2018

5.2. Obstetrical services

5.2.2. Assisted delivery and Cesarean sections

Table 7 describes the characteristics of child deliveries and births. A total of 6,081,624 deliveries were performed with the assistance of qualified personnel. This represents 39.49% of expected deliveries. Assisted deliveries are higher in Cabo Verde (92.94%), followed by Burkina Faso (86.30%).

The table also presents the rate of Caesarean sections.

Table 7: Births recorded in health facilities in 2018

PAYS	Assistés par un personnel qualifié (nb)	Assistés par un personnel qualifié (%)	Taux de césarienne (%)
BENIN	271 922	63,07	10,00
BURKINA FASO	774 414	86,30	2,51
CAP VERT	9 800	92,94	34,90
COTE D'IVOIRE	608 212	69,06	3,70
The GAMBIA	53 200	57,67	3,89
GHANA	709 499	60,02	18,00
GUINEE	262 981	55,32	3,70
GUINEE BISSAU	30 197	43,51	6,60
LIBERIA	106 096	68,26	7,20
MALI	546 911	55,81	3,00
NIGER	375 463	38,54	NA
NIGERIA	1 432 323	21,85	1,30
SENEGAL	386 827	66,84	5,00
SIERRA LEONE	346 616	63,37	5,00
TOGO	167 163	68,08	7,10
ENSEMBLE	6 081 624	39,49	4,08

5.2. Obstetrical services

5.2.2. Assisted delivery and Cesarean sections

Cabo Verde (34.90%) and Ghana (18.00%) have very high levels of cesarean sections performed (exceeding the 15% maximum expected level). But in contrast, the Cesarean section rate in Nigeria (1.30%), Burkina Faso (2.51%), Mali (3.00%), Côte d'Ivoire (3.70%) and The Gambia (3.89%) are lower than the minimum expected level of 5% (Figure 4).



Figure 4: Cesarean section rate in ECOWAS countries

"Cabo Verde (34.90%) and Ghana (18.00%) have very high levels of cesarean sections performed."

5.2. Obstetrical services

5.2.3. Prevention of Mother-to-Child Transmission (PMTCT) of HIV

Table 8 shows that 89.71% of pregnant women were tested for HIV in 2018 during ANC, and only Côte d'Ivoire succeeded in testing all pregnant women. Guinea and Niger, on the other hand, did not attain 50% of the tests. The percentage of pregnant women who tested positive in the region is around 1.40%, ranging from 0.02% in Ghana to more than 3% in Guinea Bissau. In all, an average of 78.9% of HIV-positive women was put on ARV treatment in the region, ranging from 64% in Senegal to 86% in Benin and Togo.

Table 8: Prevention of mother-to-child transmission of HIV during antenatal consultations in 2018

PAYS	Femmes enceintes ayant fait le test VIH lors des CPN (%)	Femmes séropositives au VIH parmi les femmes testées (%)	Femmes recevant un traitement parmi les femmes séropositives au VIH (%)
COTE D'IVOIRE	100.00	0.83	95.00
NIGERIA	96.30	1.90	82.50
BURKINA FASO	92.21	0.63	96.33
GHANA	92.20	0.02	83.00
CABO VERDE	91.10	NA	NA
SIERRA LEONE	89.80	1.30	90.10
LIBERIA	88.00	2.40	98.00
BENIN	86.86	0.71	95.26
TOGO	85.00	2.20	98.00
The GAMBIA	82.40	1.80	70.99
MALI	81.92	0.50	94.00
SENEGAL	76.00	0.19	64.00
GUINEE BISSAU	58.84	3.05	NA
NIGER	46.62	0.05	81.33
GUINEE	42.96	2.19	65.00
ENSEMBLE	89.71	1.40	78.90

"The percentage of pregnant women who tested positive in the region is around 1.40%."

5.3. Treatment of HIV & AIDS and Tuberculosis 5.3.1. HIV

The information provided by countries for 2018 indicates that 2,369,840 PLHIV are on antiretroviral treatment in the whole of ECOWAS. Nigeria accounts for over 44% of the total persons on antiretroviral therapy.

Table 9 describes the distribution of persons on ARVs by country. Women constitute more than double the number of men on antiretroviral treatment, while children under the age of 15 represent only 5.3% of persons on antiretroviral treatment.

It should be noted that the proportion of PLHIV on antiretroviral treatment compared to the number eligible for antiretroviral treatment (coverage in antiretroviral treatment) varies between 99% in Côte d'Ivoire and Senegal (the highest) and 31% in Guinea Bissau (lowest). Only 3 countries (Côte d'Ivoire, Senegal and Togo) have reached the 90% coverage target in antiretroviral treatment.

Where information is available, the values in parentheses in the sex and age columns represent the proportion of these persons on antiretroviral therapy compared to the category's treatment need (coverage).

Apart from Burkina Faso, the proportion of women is still 2.5% higher than that of men among people living with HIV and on antiretroviral treatment.

In Senegal, 100% of children needing treatment received it.

Patients PAYS recevant		Patients sous TARV parmi les patients qui	Distribution de patients sous ARV par sexe (% des besoins couverts)		Patients sous ARV par tranche d'Age (% des besoins couverts)	
	des ARV devaient (%) recevoir ARV, %		masculin	féminin	Enfants < 15 ans	Adultes 15+ans
BENIN	38 360	NA	11 497 (NA)	26 863 (NA)	1 785 (NA)	36 575 (NA)
BURKINA FASO	<mark>66 983</mark>	87	19 373 (90)	47 610 (86)	2 684 (56)	64 299 <mark>(</mark> 87)
CABO VERDE	2 200	76	929 (NA)	1 271 (NA)	85 (NA)	2 115 (NA)
COTE D'IVOIRE	252 125	99	69 962 (NA)	182 163 (NA)	12 347 (NA)	239 778 (NA)
The GAMBIA	7 550	36	1 600 (17)	5 400 (37)	550 (30)	7 000 (29)
GHANA	59 041	NA	14 268 (NA)	44 773 (NA)	2 616 (NA)	56 425 (NA)
GUINEE	48 519	35	14 761 (NA)	33 758 (NA)	2 157 (NA)	46 362 (NA)
GUINEE BISSAU	14 121	31	2 515 (16)	11 606 (49)	347 (06)	13 77 <mark>4 (</mark> 37)
LIBERIA	13 890	NA	3 731 (NA)	10 159 (NA)	681 (NA)	13 209 (NA)
MALI	7 955	NA	2 839 (NA)	5 116 (NA)	615 (74)	7 340 (79)
NIGER	19 793	54	7 168 (39)	12 625 (69)	1 330 (53)	18 463 (54)
NIGERIA	1 04 9 019	55	325 956 (NA)	723 063 (NA)	51 127 (36)	997 <mark>8</mark> 92 (67)
SENEGAL	26 464	99	7 833 (90)	18 631 (96)	1 376 (100)	25 088 (93)
SIERRA LEONE	28 450	39	7 621 (18)	20 829 (65)	1 123 (24)	27 327 (40)
TOGO	735 370	90	NA (NA)	NA (NA)	47 657 (90)	687 713 (90)
ENSEMBLE	2 369 840	NA	490 053 (NA)	1 143 867 (NA)	126 480 (NA)	2 243 360 (NA)

Table 9: Antiretroviral therapy in ECOWAS States in 2018 (percentages of needs covered are shown by category in parentheses)

5.3. Treatment of HIV & AIDS and Tuberculosis

5.3.2. Tuberculosis

Information on treatment for tuberculosis is presented in Table 10. A total of 208,574 new cases were registered in 2018.

The most populous countries generally reported the highest numbers. About 216,187 persons were on treatment for TB in 2018, with a reported treatment success rate of 85.37%. Only two countries (Benin and Sierra Leone) reported a success rate of over 90%, the lowest values available being in Guinea Bissau and Liberia.

Generally, HIV tests were conducted on TB patients. But only Mali and Nigeria reported testing less than 80% of their TB patients (Figure 5).

Among the patients tested, 35% were positive in Guinea Bissau and 27% in Côte d'Ivoire, and these are the highest values in the region. The lowest levels of comorbidity were found in Senegal and Niger (3%).

Table 10: Number of incident cases (new and relapses), number of cases under treatment, and treatment success rate in public health facilities in 2018

PAYS	Taux de succès du traitement (%)	Cas incidents (nouveau cas)	Cas sous traitement
BENIN	97,00	3 291	4 096
SIERRA LEONE	90,80	17 143	17 169
GUINEE	88,00	8 906	14 332
SENEGAL	87,10	10 257	13 663
The GAMBIA	86,00	2 394	2 394
NIGERIA	86,00	103 630	106 533
COTE D'IVOIRE	85,00	21 031	21 053
NIGER	82,63	10 634	10 839
TOGO	80,69	2 501	2 144
MALI	79,00	6 889	7 084
BURKINA FASO	78,95	4 126	7 110
GUINEE BISSAU	76,00	1 594	2 031
LIBERIA	76,00	7 653	7 739
CABO VERDE	NA	153	NA
GHANA	NA	8 372	NA
ENSEMBLE	85,37	208 574	216 187

5.3. Treatment of HIV & AIDS and Tuberculosis

5.3.2. Tuberculosis



Figure 5: Proportion of tuberculosis patients screened for HIV and proportion of HIV-positive cases in public health facilities in 2018 (%)

"Generally, HIV tests were conducted on TB patients."

6.1. Main reasons for consultation 6.1.1. For the general population

In 2018, a total of 158,851,479 outpatient consultations were observed in health facilities of all ECOWAS countries. This number shows that each inhabitant had consulted with a probability of 41.2% during the year (more than 4 out of 10 people used the medical service for reasons other than vaccination or prenatal consultation).

(causes) why people went for consultations is very limited. Nevertheless, 98,051,623 consultations (62% of the declared total) could be classified by reason (causes of consultations). The first five reasons for consultation are presented in Figure 6. Malaria takes the lead (38.45%), followed by respiratory infections (17.02%). diarrhea (8.33%), non-communicable diseases (3.35%) and anaemia (2.65%) complete the list.

Detailed information on the reasons



Figure 6: Distribution of reasons for consultation in public health facilities in 2018

6.1. Main reasons for consultation 6.1.2. For children UNDER 5 years old

Among the outpatient consultations observed, 39,911,429 (25%) were for children under 5 years of age. This left the estimated probability of seeing a doctor at 58.77% for each child under 5 in 2018 (about 6 out of 10 children). The data that helped to classify the reasons were from 39,675,877 consultations, i.e. 99.4% of the total number of consultations reported for children under 5 years old.



Figure 7: Distribution of reasons for consultation among children under 5 years old in 2018

"The five major reasons for consultation are presented in Figure 7. They are malaria (41.72%), acute respiratory infections (24.99%), diarrhea (8.58%), anemia (3.12%) and skin diseases (2.80%)."

6.1. Major reasons for consultation 6.1.3. For adults 25 years and above (men and women)

Adult consultations reported in health facilities in 2018 were 41,851,740. These data come from only 9 countries (Benin, Burkina Faso, Cabo Verde, Nigeria and Senegal could not provide any data). More so, only 8 out of 15 countries were able to classify adult consultations per cause, and this classification covers 37,027,041 consultations. Figure 8 presents the distribution per cause of consultation.

Again, malaria was the key reason for consultation (27.01%), followed by respiratory infections (11.21%), non-communicable diseases (8.17%), Diarrheal diseases (7.00%) and anemia (2.61%).



Figure 8: Distribution of reasons for consultation among adults of 25 and above in 2018

6.2. Maternal mortality in health facilities

6.2.1. In-hospital maternal mortality

The number of maternal deaths in health facilities reported by countries in the region was 18,373 in 2018.

When this figure is compared with the number of pregnancies expected at the start of the year, it is observed that one in 1,000 pregnant women dies giving birth (0.94%) in a health facility.

In Guinea Bissau, maternal mortality is very high (2.62 per 1,000).

The gaping inequality among countries is illustrated in Figure 9.



Figure 9: Maternal mortality rate (per 1,000 pregnant women)

"It is observed that one in 1,000 pregnant women dies giving birth (0.94%) in a health facility."

6.2. Maternal mortality in health facilities

6.2.1. In-hospital maternal mortality

Some countries provided information on the distribution of maternal deaths by age bracket. Table 11 shows us that among the reported maternal deaths; more than a third were in young women under 25 years old. This proportion is very high in Liberia (43.0%) and Niger (42.2%).

Table 11: Number of maternal deaths in ECOWAS countries in 2018 and distribution by age bracke	?t.
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Pays	Nombre de décès maternels	Moins de 25 ans (%)	De 25 - 34 ans (%)	35 ans et plus (%)
BENIN	670	NA	NA	NA
BURKINA FASO	890	NA	NA	NA
CAP VERT	4	-	50,00	50,00
COTE D'IVOIRE	753	37,84	34,00	28,15
The GAMBIA	55	NA	NA	NA
GHANA	876	19,30	53,20	27,50
GUINEE	929	NA	NA	NA
GUINEE BISSAU	221	NA	NA	NA
LIBERIA	329	43,00	32,00	25,00
MALI	511	NA	NA	NA
NIGER	1,283	42,24	53,00	4,75
NIGERIA	10,805	NA	NA	NA
SENEGAL	124	37,90	62,10	-
SIERRA LEONE	599	NA	NA	NA
TOGO	324	NA	NA	NA
Total	18,373	34,16	48,15	17,69

"Of the reported maternal deaths, more than one-third occurred among young women under the age of 25. "

6.2. Maternal mortality in health facilities 6.2.2. In-hospital maternal mortality ratio

Based on the information provided by the countries, the number of maternal deaths in health facilities is estimated at 211.43 women per 100,000 live births in the

ECOWAS region.

The distribution among countries of the region is presented in Figure 10.



- - ECOWAS Average

Figure 10: In-hospital maternal mortality ratio (per 100,000 live births)

"The number of maternal deaths in health facilities is estimated at 211.43 women per 100,000 live births in the ECOWAS region"

6.2. Maternal mortality in health facilities 6.2.3. Five (5) major causes of maternal death

Among the 18,373 recorded maternal deaths, 14,178 (77.2%) could be classified per cause.

deaths per cause. The five most common causes are hemorrhage (24.60%), eclampsia (17.52%), abortion complications (10.41%), infections (8.20%) and anaemia (1.17%).

Figure 11 presents the distribution of



Figure 11: Distribution of maternal death causes in health facilities in 2018

"The five most common causes are hemorrhage (24.60%), eclampsia (17.52%), abortion complications (10.41%), infections (8.20%) and anaemia (1.17%)."

6.3. Overall stillbirths in health facilities

All 15 ECOWAS countries reported a total of 110,611 stillbirths in 2018. They were equally divided between fresh stillbirths and macerated stillbirths (Table 12). However, Cabo Verde classified all of its stillbirths as fresh. Cote d'Ivoire also had over 60% of fresh stillbirths. Nigeria, on the hand, reported very few stillbirths compared to other countries.

This data was obtained from their maternal and perinatal death monitoring platforms.

Table 12: Number and nature of stillbirths reported by countries in 2018

PAYS	Nombres de mort nés	Mort-nés frais (%)	Mort-nés macérés (%)
BENIN	7,181		
BURKINA FASO	15,330	39.92	60.08
CABO VERDE	135	100.00	0.00
COTE D'IVOIRE	23,519	61.01	38.99
The GAMBIA	2,369	50.40	49.60
GHANA	9,645	40.40	59.60
GUINEE	6,930	47.60	52.40
GUINEE BISSAU	1,842	NA	NA
LIBERIA	91		
MALI	11,961	52.00	48.00
NIGER	11,187	57.11	42.89
NIGERIA	8,133	46.70	53.30
SENEGAL	172	45.35	54.65
SIERRA LEONE	8,517	34.34	65.66
TOGO	3,599	44.15	55.85
ENSEMBLE	110,611	49.25	50.75

6.4. Low birth weight in health facilities

Figure 12 shows the average levels of low birth weight in the region. The regional average is 9.49%, with Liberia (3.20%) and Niger (4.60%) standing out as the better-off countries with less than 5% of cases. The highest levels are found in Guinea Bissau and The Gambia.



Figure 12: Low birth weight in public health facilities in 2018 (%)

"The regional average is 9.49%, with Liberia (3.20%) and Niger (4.60%) standing out as the better-off countries with less than 5% of cases. The highest levels are found in Guinea Bissau and The Gambia."

6.5. Malnutrition in children under 5

Data on malnutrition could not be collected for Cabo Verde and Nigeria.

Aside from these countries, the 13 others reported 1,805,715 cases of malnutrition treated in health facilities in the region in 2018 (Table 13). Of these cases, 879,120, i.e. 48.69% were cases of severe acute malnutrition. Togo reported only severe malnutrition and, in addition to this country, the countries with the highest proportions of severe malnutrition were Benin (82.01%), Niger (60.01%) and The Gambia (57.07%).

Table 13: Number of malnutrition cases in ECOWAS health facilities in 2018

COUNTRY	Mainutrition	Malnutrition Aigüe Modérée (%)	Malnutrition Aigüe Sévère (%)
BENIN	24 607	4 426 (17.99)	20 181 (82.01)
BURKINA FASO	219 760	127 681 (58.10)	92 079 (41.90)
CAP VERT	NA	NA	NA
COTE D'IVOIRE	42 284	25 210 (59.62)	17 074 (40.38)
The GAMBIA	1 216	567 (46.63)	694 (57.07)
GHANA	70 500	66 222 (93.93)	4 278 (06.07)
GUINEE	37 605	28 797 (76.58)	8 808 (23.42)
GUINEE BISSAU	4 073	3124 (76.7)	949 (23.30)
LIBERIA	20 789	18 499 (88.98)	2 290 (11.02)
MALI	310 667	151 909 (48.9)	158 758 (51.10)
NIGER	866 561	346 540 (39.99)	520 021 (60.01)
NIGERIA	NA	NA	NA
SENEGAL	65 467	62 479 (95.44)	2 988 (04.56)
SIERRA LEONE	134 966	91 186 (67.56)	43 780 (32.44)
TOGO	7 220	NA(NA)	7 220 (100.0)
ENSEMBLE	1 805 715	926 640 (51.32)	879 120 (48.69)

6.6. Neonatal mortality in health facilities 6.6.1. Total number

Three countries (Burkina Faso, Guinea Bissau and Mali) were unable to provide data on neonatal mortality in 2018. As a result, it was impossible to estimate the total number of neonatal deaths in the region.

However, in view of the number of expected births per country, the variations are significant (Table 14). Thus, Togo, The Gambia and Liberia have more than one neonatal death for every 50 live births.

Table 14: Number of neonatal deaths and mortality in ECOWAS health facilities in 2018

COUNTRY	Décès néonataux	Mortalité néonatale (Pour 1 000 naissances attentues)
BENIN	1 296	3,01
BURKINA FASO	NA	NA
CAP VERT	90	8,54
COTE D'IVOIRE	2 242	2,55
The GAMBIA	382	4,14
GHANA	5 834	4,94
GUINEE	5 315	11,18
GUINEE BISSAU	NA	NA
LIBERIA	847	21,29
MALI	NA	NA
NIGER	1 395	1,79
NIGERIA	7 438	0,80
SENEGAL	696	1,20
SIERRA LEONE	671	1,23
TOGO	10 567	43,04
ENSEMBLE	36 773	2,22

6.6. Neonatal mortality in health facilities 6.6.2. Five (5) LEADING causes of neonatal death

Of the 36,773 neonatal deaths, 10,441 could be classified per cause.

Figure 14 presents the distribution of deaths per cause, with the five most common causes being prematurity (28.83%), asphyxia (20.16%), neonatal infections (10.41%), congenital anomalies (7.56%) and neonatal tetanus (7.23%).



Figure 13: Distribution of neonatal death causes in 2018

"Of the 36,773 neonatal deaths, 10,441 could be classified per cause."

6.7. Mortality among children under five in health facilities

6.7.1. Total number

In 2018, a total of 72,448 cases of death among children under five (5) years old were reported in health facilities in the region. The estimated mortality was 1.15 cases per 1,000 children.

Table 15 presents the different death rates by country. Guinea Bissau has the highest mortality rate with 6.41 cases per 1,000 children, followed by Sierra Leone with 3.72 cases per 1,000 children.

Table 15: Number of deaths among children under 5 and infant mortality in health facilities in 2018

COUNTRY	Nombre de décès d'enfants de moins de 5 ans	Mortalité infantile (pour 1 000 enfants)
BENIN	4 832	2.46
BURKINA FASO	10 058	2.79
CAP VERT	154	2.94
COTE D'IVOIRE	3 771	0.92
The GAMBIA	466	1.33
GHANA	6 724	1.23
GUINEE	2 317	1.15
GUINEE BISSAU	2 044	6.41
LIBERIA	2 024	2.25
MALI	1 336	0.38
NIGER	4 684	1.07
NIGERIA	26 018	0.78
SENEGAL	630	1.18
SIERRA LEONE	5 072	3.72
TOGO	2 318	2.13
ENSEMBLEE	72 448	1.15

"In 2018, a total of 72,448 cases of death among children under five (5) years old were reported in health facilities in the region."

6.7. Mortality among children under five in health facilities 6.7.2. Five (5) main causes of death in children under five

A total of 60,644 deaths of children below 5, representing 83.7% of the total deaths reported in health facilities for the year 2018, could be classified per cause (60,644/72,448).

Figure 15 presents the distribution of deaths per cause. The five most common causes are malaria (23.35%), HIV/AIDS (9.00%), pneumonia (post neonatal) (8.96%), neonatal deaths (8.30%) and diarrhea (6.75%).



Figure 14: Distribution of death causes among children under 5 in 2018

"The five most common causes are malaria (23.35%), HIV/AIDS (9.00%), pneumonia (post neonatal) (8.96%), neonatal deaths (8.30%) and diarrhea (6.75%)."
7.1. Epidemic-prone diseases in 2019

The year 2019 was marked by successive epidemic outbreaks. A total of 32 new epidemic outbreaks affected 11 of 15 countries (Table 16).

Only 4 countries in the region did not record a single epidemic episode (Burkina Faso, Cabo Verde, The Gambia and Guinea Bissau). In contrast, Nigeria, Benin, Senegal and Sierra Leone are the countries that most repeatedly experienced epidemic outbreaks during the year, Nigeria with 6 new outbreaks, Benin with 5, Senegal and Sierra Leone with 4 each.

One of the most striking facts is the resurgence of vaccine-derived poliovirus affecting 4 countries. Despite being a vaccinederived virus, the emergence and circulation of the disease in 4 countries of the region has generated major concerns.

Maladies / Diseases	Bénin	Burkina Faso	Cabo Verde	Côte d'Ivoire	Gambie	Ghana	Guinée	Guiné Bissau	Liberia	Mali	Niger	Nigeria	Sénégal	Sierra Leone	Togo	d'événements
Fiévre de Lassa Lassa Fever			С. 14		18											7
Cholera / Choléra																5
Rougeole Measles		53- 55-			0											4
Poliomyélite Poliomyelitis																4
Méningite Meningitis																3
Fiévre de la Dengue Dengue Fever			11													3
Fiévre Jaune Yellow Fever																3
Anthrax / Anthrax																1
Fièv. Hémor. de Crimé-Congo / Crimean-Congo Hem. Fever																1
Num. Epidemic events	4	0	0	2	0	2	З	0	2	1	1	6	3	4	3	31

Table 16: Summary table of epidemic outbreaks in the ECOWAS in 2019 (number of epidemic outbreaks per disease and per country)

7.2. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.1. Lassa Fever

In 2019, the number of Lassa fever cases in the ECOWAS region rose to 895 confirmed cases and 195 deaths among the confirmed cases, i.e. a fatality rate of 21.8%. On the whole, 6 countries in the region had confirmed cases: they are Nigeria with 833 cases and 174 deaths (21% fatality), Liberia with 45 and 15 deaths (33% fatality), Benin with 10 cases and 1 death (10% fatality), and Sierra Leone with 5 cases and 3 deaths, and Togo and Guinea with 1 case each, which also led to deaths.

Between 2016 and 2019, the number of Lassa fever cases recorded in the ECOWAS region continued to increase, spiking from 129 cases in 2016 to 895 cases in 2019 (Figure 16). The fatality rate also more than doubled, from 10% to 21.8%.



Figure 15: Lassa fever in ECOWAS countries from 2016-2019 (Number of confirmed cases and deaths per year)

It is worth noting the gradual increase in the number of countries affected by the disease over the years. Between 2010 and 2015, the disease was systematically reported by three countries (Liberia, Nigeria and Sierra Leone). Benin started since 2016 to record cases yearly, taking the tally of countries from 3 to 4. For 2019, there were a total of 6 countries affected by the disease.

From an epidemiological standpoint, Lassa fever remains a concern in the ECOWAS

region due to the existence of several factors that help make the disease more endemic. These include, inter alia, climatic conditions conducive for the survival of the virus outside its host; the increase and spread of rodents (vectors); poverty; the low level of environmental sanitation in high population density communities; insufficient application of infection prevention and control measures in health facilities, and poor technical conditions required for proper surveillance and rapid diagnosis of suspected cases in health facilities.

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.2. Cholera

In 2019, 2 countries (Benin and Nigeria) officially reported cholera epidemics, with a total of 614 confirmed cases (595 in Nigeria and 19 in Benin) by epidemiological, biological or clinical link, and with all 15 deaths from Nigeria among the confirmed cases. The Vibrio cholerae responsible for the cases is serotype 1.



Figure 16: Weekly reported cases of cholera in Nigeria and ECOWAS in 2019 (Source - WAHO regional sharing platform)

In all, the surveillance systems of ECOWAS countries reported 3,651 suspected cases of cholera, with 3,463 in Nigeria. The other countries that reported the cases are Benin, Liberia and Sierra Leone. Figure 17 shows the weekly evolution of suspected cholera cases in Nigeria.

In 2018, Nigeria had a large cholera epidemic, accounting for 93% of the region's total 54,581 cases. In general, 2019 was the year with fewest reported cases of the disease within the last 3 years (Figure 18).



Figure 17: Comparative evolution of number of cases (suspected and/or confirmed) within the ECOWAS region between 2015 and 2019

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.3. Measles

In 2019, a total of 37,171 confirmed measles cases and 256 deaths were reported in 14 ECOWAS countries (all except Guinea-Bissau which remained silent). The countries with the most confirmed cases were Nigeria (75.3%), Niger (7%), Ghana (3.5%), Liberia (3%) and Guinea (3%).

During the same 2018 period, 17,308 confirmed cases and 188 deaths were reported (representing an increase of 209% in 2019). The most affected countries at that time were Nigeria (39.6%), Liberia (19%), Burkina Faso (9.4%), Niger (8.35%) and Ghana (6.2%).



Figure 18: Evolution du nombre de cas (suspects et confirmés) de rougeole dans l'espace CEDEAO entre 2015 et 2019

A sharp increase in cases of the disease can be observed in 2019 compared to previous years (Figure 19 and this increase in cases occurred in all countries.

Even Cabo Verde, which for the past 4 years no longer reported cases of measles, had it in 2019. Nevertheless, no increase in fatality from the disease is observed.

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.4. Poliomyelitis

The spread of circulating vaccine-derived polio virus (cVDPV) cases in the region requires the special attention of health authorities at all levels. It is imperative to undertake proactive and containment measures in all ECOWAS Member States.

In 2016, only one case of cVDPV was identified in Nigeria.

In 2018, an epidemic (with its epicentre in Jigawa, Nigeria) led to 44 cases of cVDPV 2 in 2 Member States (34 cases in Nigeria and 10 in Niger), while in 2019, our region recorded 40 cases of circulating vaccinederived poliovirus - type 2 (cVDPV 2) in 5 Member States (18 cases in Nigeria, 11 in Ghana, 6 in Benin, 4 in Togo and 1 in Niger).



PVDVc 2 Présence/absence de cas 0 >= 1

In the fight against polio, the global goals are the eradication of wild polioviruses and the interruption of circulating polioviruses derived from vaccine strains. Two of the three strains of wild polio are now eradicated: type 2 (September 20, 2015, last cases were in 1999 in India) and type 3 (October 17, 2019, last case was in 2012 in Nigeria). Nonetheless, over 90% of cVDPV cases are due to the type2 component present in Trivalent Oral Polio Vaccine (tOPV). Consequently, WHO in 2016 recommended replacing tOPV in routine immunisation programmes and supplementary immunisation activities (SIAs) with bivalent OPV containing only types 1 (the most common strain) and 3.

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.5. Meningitis

In 2019, a total of 9,097 cases of meningitis and 453 deaths (5% fatality) were reported in the ECOWAS region compared to 11,259 suspected cases and 794 deaths (7% fatality) in 2018.

All Member States reported cases, but the most affected were Nigeria (n = 2,102, 23.1%), Burkina-Faso (n = 1,841, 20.2%), Niger (n = 1,172, 13%), Ghana (n = 953, 10.5%) and Mali (n = 654, 7.2%). These 5 countries account for 74% of the cases identified in 2019 within ECOWAS.

However, the highest fatality rates were reported in Sierra Leone, 17.5% (7 deaths in 40 cases), Liberia, 10% (6 deaths in 60 cases) and Benin, 7.5% (30 deaths in 401 cases). During the meningitis epidemic season (January-June), Ghana, Nigeria and Togo had districts that had exceeded the epidemic threshold, while the alert threshold was exceeded in districts of 9 Member States (Benin, Burkina-Faso, Gambia, Ghana, Guinea, Niger, Nigeria, Senegal and Togo).



Figure 20: Meningitis situation

It should be noted that year 2019 saw the lowest number of suspected and/or confirmed cases of meningitis compared to the previous 5 years (Figure 21)

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.5. Meningitis

51% of the pathogens identified in 2019 were made up of serogroups of the Nm species; 37% by Streptococcus pneumoniae (Spn); 7% by Haemophilus influenzae type B, and 6% by other germs. In the Nm species, serogroup C was predominant (74%), followed by serogroup X (21%) and serogroup W135 (5%).

Unlike other regions of the world where meningitis occurs mostly sporadically in small clusters of cases, sub-Saharan Africa has suffered from explosive and repeated meningitis epidemics for several decades. Between 1998 and 2009, more than one million cases were identified in the African meningitis belt, first described as such in 1963. The largest meningitis outbreak in history took place in 1996-1997, with more than 250,000 cases and 25,000 deaths reported on the African continent.

Since the 1940s, epidemic waves have occurred every 8 to 12 years, but two

disturbing phenomena have been observed since the early 1980s: the intervals between epidemics have become shorter and more irregular, and the meningitis belt appears to extend southwards to affect regions which had so far been spared.



Figure 21: Evolution of number of meningitis cases (suspected and confirmed) in the ECOWAS region between 2014 and 2018

"Unlike other regions of the world where meningitis occurs mostly sporadically in small clusters of cases, sub-Saharan Africa has suffered from explosive and repeated meningitis epidemics for several decades."

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.6. Dengue fever

In 2019, the number of confirmed cases of dengue reported in the ECOWAS region was 372, including a haemorrhagic type (347 in Côte d'Ivoire, 14 in Benin, 9 in Mali and 2 in Senegal), with 4 deaths among the confirmed cases, including the haemorrhagic case (2 in Benin and 2 in Côte d'Ivoire), i.e. a fatality of 1.1%.

Against the backdrop of a global spread of dengue, the West African region has been experiencing increasing epidemic outbreaks with new areas affected, and an increase in the number of reported cases. The ECOWAS region recorded dengue epidemics in 2009 in Cabo Verde (1st epidemic in the country), in 2016 in Burkina Faso (273 confirmed cases), in 2017 in Côte d'Ivoire (282 confirmed cases) and in 2018 in Senegal (338 confirmed cases).

The clinical manifestations of the aforementioned epidemics remained predominantly those of the "classic dengue" (with little or no hemorrhagic cases), and this has created the perception among people (even some health professionals) that dengue is a mild illness. However, this notion was disproved when 1 fatal hemorrhagic case was recorded in Benin and the 4 serotypes of the virus were found. This has been shown to increase the risk of having hemorrhagic forms through the "immunological facilitation" phenomenon.

Indeed, the first infection, benign (CD), constituted a risk factor by conferring an immunological status facilitating the development, during a heterologous secondary infection, of a very strong vireamia, significant hemoconcentration, and oftentimes haemorrhages.

"The most effective and accessible method of preventing or controlling the transmission of the dengue virus in the region is through vector control interventions, using the integrated vector management approach recommended by WHO."



Figure 22: Dengue situation

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.7. Yellow fever

In 2019, the region experienced outbreaks of yellow fever in Nigeria and Mali. A total of 200 confirmed cases (197 in Nigeria and 3 in Mali) and 26 deaths among them (24 in Nigeria and 2 in Mali), representing a fatality rate of 13%. However, investigations revealed many likely cases (deaths in symptomatic people who were

not tested).

Figure 24 shows the weekly evolution of the number of suspected cases of yellow fever (febrile jaundice) reported by epidemiological surveillance systems in all ECOWAS countries, compared to suspected cases reported in Nigeria and Mali.



Figure 23: Weekly evolution of the number of yellow fever cases (suspected and confirmed) in the ECOWAS region in 2019

All ECOWAS Member States are among the countries in Africa where the risk is high and the disease endemic. Peri-urban epidemics, occurring in towns of small to medium population density, were largely recorded in the countries. Between 2012 (last epidemic in Ghana) and September 2017 (resurgence of the outbreak in Nigeria), no other epidemic was reported

in the ECOWAS region.

And since then, Nigeria has responded successively to outbreaks of yellow fever. In 2018, the Nigerian Centre for Disease Control (NCDC) reported 139 confirmed cases (Dakar Institut Pasteur), including 29 deaths, in 17 states of the country.

7.1. Diseases that were declared a public health concern in 2019 within the ECOWAS region

7.2.7. Yellow fever

Recently, the determinants of yellow fever epidemics in the ECOWAS region have evolved significantly: urbanisation and wild peri-urbanization; the ease and speed of human movements; West African cities linked to peri-urban areas with a high prevalence of vectors having a resurgence of the Aedes aegypti mosquitoes (main vectors of urban outbreaks in Africa); and climate change with increased exposure of people to infected mosquitoes. And all these, combined with the persistent detection of yellow fever cases in the region, increase the risk of urban outbreaks in major cities of the ECOWAS region.

Prevention remains the best option and is essentially based on routine vaccination (of infants and travellers going to endemic areas, catch-up campaigns), laboratory surveillance and confirmation of cases, communication, vector surveillance and control.

7.2.8. Anthrax

In 2019, five human cases of anthrax (skin manifestation), including one death (20% fatality rate), were reported in Guinea. Niger also reported 3 outbreaks of anthrax in animals (37 sheep and 114 cattle all dead) between September 23 and October 11, 2019. Anthrax is endemic, particularly in the tropical forests of sub-Saharan Africa where it is widespread. Anthrax outbreaks are common in animals in West Africa where soils are alkaline, rich in calcium and other minerals, with the risk of transmission to humans higher.

7.2.9. Crimean-Congo Hemorrhagic Fever

In 2019, the ECOWAS region identified 2 confirmed cases of Crimean-Congo Hemorrhagic Fever (CCHF) in Senegal. The last cases recorded in the region date back to July 2017 with 3 cases, still in Senegal (2 cases imported from Mauritania and 1 indigenous case). Mauritania, a country in West Africa and neighbor to Senegal, reports cases of CCHF each year and is a source of the disease's spread in West Africa.

10 LEADING CAUSES OF
CONSULTATION BY COUNTRY

Table 17: 5 leading causes of consultation among children under 5 in healthfacilities in 2018

country	Cause 1		Cause 2		Cause 3		Cause 4		Cause 5	
	Name	u (%)	Name	u (%)	Name	u (%)	Name	(%) u	Name	(%) u
Benin	MALARIA	2048584 (45.80)	ACUTE RESPIRATORY INFECTIONS	567221 (12.68)	DIARRHEA	251703 (5.63)	TRAUMA	176240 (3.94)	ANEMIA	107762 (2.41)
Burkina Faso	MALARIA	10897201 (44.29)	ACUTE RESPIRATORY INFECTIONS	7018769 (28.52)	DIARRHEA	1588640 (6.46)	DIARREA	608406 (2.47)	SKIN DISEASES	555529 (2.26)
Cote d'Ivoire	MALARIA	5297926 (40.62)	ACUTE RESPIRATORY INFECTIONS	1323895 (10.15)	ANEMIA	924576 (7.09)	DIARREA	572123 (4.39)	STIS/HIV/AIDS	378713 (2.90)
The Gambia	ACUTE RESPIRATORY INFECTIONS	134152 (8.29)	SKIN DISEASES	101457 (6.27)	NON-COMMUNICABLE DISEASES	98454 (6.09)	MALARIA	88568 (5.47)	NON- COMMUNICABLE DISEASES	75095 (4.64)
Ghana	MALARIA	6513251 (21.11)	ACUTE RESPIRATORY INFECTIONS	3824065 (12.39)	NON-COMMUNICABLE DISEASES	1730414 (5.61)	DIARRHEA	1466956 (4.75)	ANEMIA	1149829 (3.73)
Guinea- Bissau	MALARIA	171075 (24.34)	DIARRHEA	37537 (5.34)	ACUTE RESPIRATORY INFECTIONS	19737 (2.81)	ACUTE RESPIRATORY INFECTIONS	11249 (1.60)	STIS/HIV/AIDS	6555 (0.93)
Guinea	MALARIA	1215066 (30.67)	ACUTE RESPIRATORY INFECTIONS	339743 (8.56)	DIARHEA	244868 (6.18)	DIARRHEA	161351 (4.07)	STIS/HIV/AIDS	132686 (3.35)
Liberia	MALARIA	1763049.2 (41.00)	UNCLASSIFIED	645018 (15.00)	ACUTE RESPIRATORY INFECTIONS	339709.48 (7.90)	DIARREA	124703.48 (2.90)	STIS/HIV/AIDS	111803.12 (2.60)
Mali	MALARIA	3390981 (40.12)	ACUTE RESPIRATORY INFECTIONS	1032872 (12.22)	DIARRHEA	304116 (3.60)	NON-COMMUNICABLE DISEASES	244316 (2.89)	DIARHEA	203511 (2.41)
Niger	MALARIA	2048584 (45.80)	ACUTE RESPIRATORY INFECTIONS	567221 (12.68)	DIARHEA	251703 (5.63)	TRAUMA	176240 (3.94)	ANEMIA	107762 (2.41)
Sierra Leone	MALARIA	2896181 (66.76)	ACUTE RESPIRATORY INFECTIONS	1093966 (25.22)	DIARRHEA	259148 (5.97)	STIS/HIV/AIDS	176759 (4.07)	SKIN DISEASES	171730 (3.96)
Togo	MALARIA	1374028 (36.00)	ACUTE RESPIRATORY INFECTIONS	342751 (8.98)	TRAUMA	207479 (5.44)	ANEMIA	93472 (2.45)	DIARHEA	91192 (2.39)

10 LEADING CAUSES OF CONSULTATION BY COUNTRY

Table 18: 6th to 10th leading causes of consultation among children under 5 inhealth facilities in 2018

Country	Cause 6		Cause 7		Cause 8		Cause 9		Cause 10		Others
	Name	u (%)	Name	(%) u	Name	u (%)	Name	u (%)	Name	(%) u	n (96)
Benin	DIARHEA	100844 (2.25)	SKIN DISEASES	66360 (1.48)	UNCLASSIFIED	61118 (1.37)	NON- COMMUNICABLE DISEASES	60592 (1.35)	NON- COMMUNICABLE DISEASES	36287 (0.81)	996162 (22.27)
Burkina Faso	TRAUMA	531959 (2.16)	DIARHEA	484409 (1.97)	STOMACH ULCER	318216 (1.29)	EVE DISEASES	305397 (1.24)	STIS/HIV/AIDS	258847 (1.05)	2039056
Cote d'Ivoire	skin diseases	351061 (2.69)	NON- COMMUNICABLE DISEASES	151928 (1.16)	DIARHEA	142464 (1.09)	UNCLASSIFIED	759720 (5.83)	UNCLASSIFIED	725086 (5.56)	2413839 (18.51)
The Gambia	ORAL AND DENTAL DISEASES	38369 (2.37)	EYE DISEASES	30161 (1.86)	ANEMIA	27969 (1.73)	TRAUMA	21356 (1.32)	UNCLASSIFIED	19878 (1.23)	(00:0)
Ghana	skin diseases	963629 (3.12)	DIARRHEA	859258 (2.79)	URINARY INFECTION	818973 (2.65)	NON- COMMUNICABLE DISEASES	617569 (2.00)	EVE DISEASES	490429 (1.59)	12418203 (40.25)
Guinea- Bissau	ACUTE RESPIRATORY INFECTIONS	2680 (0.38)	EVE DISEASES	2556 (0.36)	TUBERCULOSIS	2031 (0.29)	UNCLASSIFIED	0 (00:00)	UNCLASSIFIED	0 (00.00)	(00.0)
Guinea	NEGLECTED TROPICAL DISEASES	59896 (1.51)	NON- COMMUNICABLE DISEASES	54633 (1.38)	MALNUTRITION	47477 (1.20)	TRAUMA	13666 (0.34)	UNCLASSIFIED	3622 (0.09)	304781 (7.69)
Liberia	ACUTE RESPIRATORY INFECTIONS	73102.04 (1.70)	DIARHEA	60201.68 (1.40)	NON- COMMUNICABLE DISEASES	60201.68 (1.40)	ANEMIA	60201.68 (1.40)	TUBERCULOSIS	8600.24 (0.20)	1027728.68 (23.90)
Mali	UNCLASSIFIED	136134 (1.61)	TRAUMA	132617 (1.57)	TRAUMA	110118 (1.30)	STIS/HIV/AIDS	109807 (1.30)	ORAL AND DENTAL DISEASES	102130 (1.21)	86357 (1.02)
Niger	DIARHEA	100844 (2.25)	SKIN DISEASES	66360 (1.48)	UNCLASSIFIED	61118 (1.37)	NON- COMMUNICABLE DISEASES	60592 (1.35)	NON- COMMUNICABLE DISEASES	36287 (0.81)	996162 (22.27)
Sierra Leone	DIARHEA	167790 (3.87)	ANEMIA	129791 (2.99)	MALNUTRITION	103868 (2.39)	TRAUMA	51126 (1.18)	MALNUTRITION	45971 (1.06)	00.0) 0
Togo	DIARHEA	90060 (2.36)	STIS/HIV/AIDS	81600 (2.14)	TRAUMA	64139 (1.68)	NON- COMMUNICABLE DISEASES	58293 (1.53)	EYE DISEASES	27950 (0.73)	1386089 (36.31)

10 LEADING CAUSES OF CONSULTATION BY COUNTRY

Table 19: 5 leading causes of consultation among children under 5 in healthfacilities in 2018

Country	Cause 1		Cause 2		Cause 3		Cause 4		Cause 5	
	Name	u (%)	Name	u (%)	Name	(%) u	Name	u (%)	Name	(%) u
Benin	MALARIA	766330 (17.13)	ACUTE RESPIRATORY INFECTIONS	276858 (6.19)	DIARHEA	85587 (1.91)	TRAUMA	75512 (1.69)	ANEMIA	63317 (1.42)
Burkina Faso	MALARIA	5400070 (21.95)	ACUTE RESPIRATORY INFECTIONS	4280732 (17.40)	DIARHEA	840877 (3.42)	SKIN DISEASES	310228 (1.26)	DIARHEA	251203 (1.02)
Cote d'Ivoire	MALARIA	2270328 (17.41)	ACUTE RESPIRATORY INFECTIONS	672850 (5.16)	ANEMIA	597003 (4.58)	DIARREA	266702 (2.05)	SKIN DISEASES	128189 (0.98)
The Gambia	ACUTE RESPIRATORY INFECTIONS	134152 (8.29)	DIARRHEA	45490 (2.81)	ACUTE RESPIRATORY INFECTIONS	11530 (17.0)	ANEMIA	9406 (0.58)	MALARIA	8086 (0.50)
Ghana	MALARIA	1984086 (6.43)	ACUTE RESPIRATORY INFECTIONS	1419015 (4.60)	DIARHEA	623401 (2.02)	SKIN DIŚEASES	333423 (1.08)	ANEMIA	303632
Guinea- Bissau	MALARIA	28581 (4.07)	DIARRHEA	29442 (4.19)	ACUTE RESPIRATORY INFECTIONS	15227 (2.17)	ACUTE RESPIRATORY INFECTIONS	40421 (5.75)	ACUTE RESPIRATORY INFECTIONS	8941 (1.27)
Guinea	MALARIA	436809 (11.03)	ACUTE RESPIRATORY INFECTIONS	184598 (4.66)	DIARHEA	83754 (2.11)	DIARRHEA	61544 (1.55)	SEXUALLY TRANSMITTED INFECTIONS	491 (0.01)
Liberia	MALARIA	2092655	ACUTE RESPIRATORY INFECTIONS	561978 (13.07)	UNCLASSIFIED	553553 (12.87)	ACUTE RESPIRATORY INFECTIONS	192775 (4.48)	ANEMIA	107617 (2.50)
Mali	MALARIA	1126042 (13.32)	ACUTE RESPIRATORY INFECTIONS	861128 (10.19)	DIARHEA	189633 (2.24)	SKIN DISEASES	41392 (0.49)	MALNUTRITION	28733
Niger	MALARIA	766330 (17.13)	ACUTE RESPIRATORY INFECTIONS	276858 (6.19)	DIARHEA	85587 (1.91)	TRAUMA	75512 (1.69)	ANEMIA	63317 (1.42)
Sierra Leone	MALARIA	1660545 (38.28)	ACUTE RESPIRATORY INFECTIONS	801377 (18.47)	DIARHEA	190938 (4.40)	SKIN DISEASES	126978 (2.93)	MALNUTRITION	91186 (2.10)
Togo	MALARIA	13917 (0.36)	ACUTE RESPIRATORY INFECTIONS	2193 (0.06)	DIARHEA	704 (0.02)	ANEMIA	390 (10.01)	TRAUMA	356 (0.01)

10 LEADING CAUSES OF CONSULTATION BY COUNTRY

Table 20: 6th to 10th leading causes of consultation among children under5in health facilities in 2018

Country	Cause 6	e 6	Cause 7		Cause 8		Cause 9		Cause 10		others
	Name	u (%)	Name	u (%)	Name	(%) u	Name	u (%)	Name	(%) U	u (%)
Benin	DIARHEA	21567 (0.48)	SKIN DISEASES	20417 (0.46)	UNCLASSIFIED	15620 (0.35)	NON-COMMUNICABLE DISEASES	14106 (0.32)	NON-COMMUNICABLE DISEASES	4920	198842 (4.45)
Burkina Faso	DIARHEA	216927 (0.88)	EVE DISEASES	189535 (0.77)	TRAUMA	118197 (0.48)	SKIN DISEASES	117360 (0.48)	MALNUTRITION	73591 (0E:0)	388908 (1.58)
Cote d'Ivoire	MALNUTRI TION	47169 (0.36)	UNCLASSIFIED	201237 (1.54)	UNCLASSIFIED	95791 (0.73)	UNCLASSIFIED	(00.0)	UNCLASSIFIED	(00.0)	(00.0)
The Gambia	EVE DISEASES	7502 (0.46)	EVE DISEASES	5463 (0.34)	DIARHEA	1466 (0.09)	EAR INFECTIONS	1315 (0.08)	MALNUTRITION	567 (8.0.04)	545 (0.03)
Ghana	DIARRHEA	150182 (0.49)	ACUTE RESPIRATORY INFECTIONS	113798 (0.37)	UNCLASSIFIED	98573 (0.32)	EVE DISEASES	81493 (0.26)	URINARY INFECTION	62153 (0.20)	2504597 (8.12)
Guinea- Bissau	EYE DISEASES	2678 (0.38)	TUBERCULOSIS	62 (0.01)	STIS/HIV/AIDS	(00.00)	UNCLASSIFIED	(00.0)	UNCLASSIFIED	(00:0)	(00.0)
Guinea	UNCLASSIFI	1825 (0.05)	NEGLECTED TROPICAL DISEASES	85 (0.00)	MALNUTRITION	37905 (0.96)	NON-COMMUNICABLE DISEASES	321 (0.01)	TRAUMA	1012 (0.03)	62436 (1.58)
Liberia	MALNUTRI TION	84911 (1.97)	DIARRHEA	71963 (1.67)	ORAL AND DENTAL DISEASES	71550 (1.66)	DIARHEA	65960 (1.53)	ACUTE RESPIRATORY INFECTIONS	60952 (1.42)	434312 (10.10)
Mali	TRAUMA	247226 (2.93)	EVE DISEASES	20410 (0.24)	ANEMIA	15427 (0.18)	DIARREA	13323 (0.16)	SKIN DISEASES	12429 (0.15)	(00.0)
Niger	DIARRHEA	21567 (0.48)	SKIN DISEASES	20417 (0.46)	UNCLASSIFIED	15620 (0.35)	NON-COMMUNICABLE DISEASES	1410B (0.32)	NON-COMMUNICABLE DISEASES	4920 (11.0)	198842 (4.45)
Sierra Leone	DIARRHEA	85879 (1.98)	ANEMIA	75796 (1.75)	MALNUTRITION	43780 (1.01)	EVE DISEASES	22834 (0.53)	TRAUMA	8376 (0.19)	1230439 (28.36)
Togo	DIARHEA	345 (0.01)	EVE DISEASES	(00.0) 76	EAR INFECTIONS	64 (0.00)	EAR INFECTIONS	61 (0.00)	TRAUMA	(00.0) 05	16541 (0.43)

10 LEADING CAUSES OF CONSULTATION BY COUNTRY

Table 21: 5 leading causes of consultation among adults over 25 in 2018

Country	Cause 1		Cause 2		Cause 3		Cause 4		Cause 5	
	Name	(%) U	Name	(%) u	Name	(%) u	Name	(%) u	Name	(%) u
The Gambia	ACUTE RESPIRATORY INFECTION	134184 (18.84)	SKIN DISEASES	101517 (14.25)	NON-COMMUNICABLE DISEASES	98454 (13.82)	NON-COMMUNICABLE DISEASES	75234 (10.56)	ORAL AND DENTAL DISEASES	38367 (5.39)
Ghana	MALARIA	4529165 (19.54)	NON-COMMUNICABLE DISEASES	1710019 (7.38)	ACUTE RESPIRATORY INFECTION	2405050 (10.38)	NON-COMMUNICABLE DISEASES	616718 (2.66)	URINARY INFECTION	756820 (3.27)
Guinea- Bissau	MALARIA	138176 (37.76)	DIARHEA	8095 (2.21)	ACUTE RESPIRATORY INFECTION	4510 (1.23)	ACUTE RESPIRATORY INFECTION	21803 (5.96)	ACUTE RESPIRATORY INFECTION	4729 (1.29)
Guinea	MALARIA	772326 (45.40)	ACUTE RESPIRATORY INFECTION	155145 (9.12)	DIARRHEA	183324 (10.78)	STIS/HIV/AIDS	132195 (7.77)	DIARRHEA	77597 (4.56)
Liberia	MALARIA	983443 (34.66)	UNCLASSIFIED	481286 (16.96)	ACUTE RESPIRATORY INFECTION	166576 (5.87)	MALARIA	132123 (4.66)	DIARRHEA	118274 (4.17)
Mali	MALARIA	1479732 (51.04)	ACUTE RESPIRATORY INFECTION	337515 (11.64)	NON-COMMUNICABLE DISEASES	242839 (8.38)	ACUTE RESPIRATORY INFECTION	217201 (7.49)	DIARRHEA	156072 (5.38)
Niger	MALARIA	406358 (24.71)	ACUTE RESPIRATORY INFECTION	254710 (15.49)	MALARIA	181923 (11.06)	DIARREA	123982 (7.54)	ACUTE RESPIRATORY INFECTION	107877 (6.56)
Sierra Leone	MALARIA	17689 (20.23)	EVE DISEASES	11237 (12.71)	NON-COMMUNICABLE DISEASES	6164 (6.97)	URINARY INFECTIONS	4798 (5.42)	TUBERCULOSIS	2890 (3.27)
Togo	MALARIA	1360111 (35.96)	ACUTE RESPIRATORY INFECTION	340558 (9.00)	NON-COMMUNICABLE DISEASES	217153 (5.74)	TRAUMA	207123 (5.48)	ANEMIA	93082 (2.46)

10 LEADING CAUSES OF CONSULTATION BY COUNTRY

APPENDIX

Country	Cause 6		Cause 7	e7	Cause 8		Cause 9		Cause 10		Others
	Name	(%) u	Name	u (%)	Name	(%) u	Name	(%) u	Name	(%) u	u (%)
The Gambia	EYE DISEASES	30165 (4.23)	ANEMIA	28027 (3.93)	TRAUMA	21358 (3.00)	UNCLASSIFIED	19885 (2.79)	SEXUALLY TRANSMITTED INFECTIONS	17297 (2.43)	147821 (20.75)
Ghana	STIS/HIV/AIDS	575660 (2.48)	ANEMIA	846197 (3.65)	DIARREA	843555 (3.64)	DIARHEA	709076 (3.06)	SKIN DISEASES	630206 (2.72)	9555755 (41.23)
Guinea- Bissau	EVE DISEASES	3642 (1.00)	TUBERCUL OSIS	1969 (0.54)	STIS/HIV/AIDS	(00.0)	UNCLASSIFIED	(0.00)	UNCLASSIFIED	(00.0)	(00.0)
Guinea	NEGLECTED TROPICAL DISEASES	59811 (3.52)	STIS/HIV/A IDS	54312 (3.19)	UNCLASSIFIED	1797 (11.0)	MALNUTRITIO	9572 (0.56)	TRAUMA	12654 (0.74)	242345 (14.25)
Liberia	SEXUALLY TRANSMITTED INFECTIONS	104431 (3.68)	STIS/HIV/A IDS	61649 (2.17)	DIARHEA	55831 (1.97)	URINARY INFECTIONS	52376 (1.85)	URINARY INFECTIONS	37917 (1.34)	644103 (22.70)
Mali	UNCLASSIFIED	117201 (4.04)	DIARRHEA	80441 (2.77)	ORAL AND DENTAL DISEASES	76052 (2.62)	TRAUMA	148830 (5.13)	EVE DISEASES	43353 (1.50)	(00.0)
Niger	UNCLASSIFIED	63370 (3.85)	DIARRHEA	54209 (3.30)	SKIN DISEASES	41849 (2.54)	MALNUTRITIO	33398 (2.03)	MALNUTRITION	30899 (1.88)	345909 (21.03)
Sierra Leone	STIS/HIV/AIDS	2581 (2.92)	TRAUMA	2135 (2.41)	ACUTE RESPIRATORY INFECTION	1972 (2223)	DIARHEA	1861 (2.10)	TRAUMA	1558 (1.76)	35360 (39.98)
Togo	DIARRHEA	90488 (2.39)	DIARRHEA	89715 (2.37)	STIS/HIV/AIDS	81599 (2.16)	TRAUMA	64089 (1.69)	NON-COMMUNICABLE DISEASES	58293 (1.54)	1180124 (31.20)

Table 22: 6th to 10th leading causes of consultationamong adults over 25 in 2018

Country	Cause	1	Cause 2	2	Cause 3		Cause 4		Cause 5		Others
	Name	u (%)	Name	u (%)	Name	u (%)	Name	(%) u	Name	u (%)	n (%)
Burkina	HAEMORRH	252	INFECTIONS	96	ECLAMPSIA	74 (8.31)	UTERINE RUPTURE	37	ABORTION	34 (3.82)	397
Faso	AGE	(28.31)		(10.79)				(4.16)	COMPLICATIONS		(44.61)
Cabo	UNCLASSIFIE	1 (25.00)	ECLAMPSIA	1 (25.00)	UNCLASSIFIED	1 (25.00)	UNCLASSIFIED	1	UNCLASSIFIED	0 (00.00)	0 (0.00)
Verde	D							(25.00)			
Cote	ANEMIA	166	HAEMORRH	105	EP (Ectopic	83	UNCLASSIFIED	60	ECLAMPSIA	53 (7.04)	286
d'Ivoire		(22.05)	AGE	(13.94)	Pregnancy)	(11.02)		(7.9.7)		8	(37.98)
Guinea	HAEMORRH	230	ECLAMPSIA	202	INFECTIONS	101	UTERINE RUPTURE	97	97 UNCLASSIFIED	113	186
	AGE	(24.76)		(21.74)		(10.87)		(10.44)		(12.16)	(20.02)
Mali	HAEMORRH	235	ECLAMPSIA	123	INFECTIONS	31 (6.07)	ABORTION	15	UNCLASSIFIED	10 (1.96)	26
	AGE	(45.99)		(24.07)			COMPLICATIONS	(2.94)		1 conception of	(18.98)
Nigeria	HAEMORRH	2377	ECLAMPSIA	1945	ABORTION	1405	INFECTIONS	864	OTHERS	432	3674
	AGE	(22.00)		(18.00)	COMPLICATIONS	(13.00)		(8.00)		(4.00)	(34.00)
Sierra	HAEMORRH	294	ECLAMPSIA	90	INFECTIONS	72	ABORTION	24	OTHERS	48 (8.01)	72
Leone	AGF	149 081		115,031		12 021	COMPLICATIONS	[4 01]			100 011

5 LEADING CAUSES

OF DEATH BY COUNTRY

Table 24: 5 leading causes of neonatal death in the region in 2018

Country	Cause 1		Cause 2		Cause 3		Cause 4		Cause 5		Others
	Name	u (%)	Name	u (%)	Name	(%) u	Name	u (%)	Name	(%) u	u (%)
Cabo	NEONATAL	68	CONGENITAL	8 (8.89)	DIARRHEA	3 (3.33)	ASPHYXIA	2 (2.22)	UNCLASSIFIED	1 (1.11)	8 (8.89)
Verde	INFECTION	(75.56)	ANOMALY								
Cote	NEONATAL	740	PREMATURITY	381	ASPHYXIA	359	CONGENITAL	112	OBSTETRIC	67	583
d'Ivoire	INFECTION	(33.01)		(16.99)		(16:01)	ANOMALY	(2:00)	TRAUMA	(2.99)	(26.00)
Nigeria	PREMATURITY	2603	ASPHYXIA	1111	NEONATAL	67	NEONATAL	744	CONGENITAL	699	744
		(35.00)		(23.00)	INFECTION	(13.00)	TETANUS	(10.00)	ANOMALY	(8.99)	(10.00)
Sierra	ASPHYXIA	33 (4.92)	PREMATURITY	26 (3.87)	NEONATAL	11 (1.64)	NEONATAL	10 (1.49)	NEONATAL	7 (1.04)	584
Leone		2			TETANUS		INFECTION	- N	INFECTION		(87.03)

5 LEADING CAUSES OF DEATH BY COUNTRY

Table 25: 5 leading causes of infant deaths in the region in 2018

Country	Cause 1		Cause 2		Cause 3		Cause 4		Cause 5		Others
	Name	u (%)	Name	۳ (<u>%</u>	u (%)						
Benin	MALARIA	1773 (36.69)	MALNUTRITION	905 (65.3)	ANEMIA	188 (3.89)	DIARRHEA	121 (2.50)	PNEUMONIA (POST NEONATAL)	101 (2.09)	2340 (48.43)
Burkina Faso	MALARIA	2789 (27.73)	NEONATAL DEATH	1465 (14.57)	NEONATAL DEATH	1314 (13.06)	MALNUTRITION	898 (8.93)	NEONATAL DEATH	820 (8.15)	2772 (27.56)
Cabo Verde	NEONATAL DEATH	84 (54.55)	PNEUMONIA (POST NEONATAL)	22 (14.29)	UNCLASSIFIED	14 (9.09)	NEONATAL DEATH	11 (7.14)	ACCIDENTS (POST NEONATAL)	6 (3.90)	17 (11.04)
Cote d'Ivoire	MALARIA	2339 (62.03)	MALARIA	855 (22.67)	UNCLASSIFIED	288 (7.64)	MALNUTRITION	75 (199)	PNEUMONIA (POST NEONATAL)	75 (1.99)	139 (3.69)
The Gambia	PNEUMONIA (POST NEONATAL)	288 (61.80)	MALNUTRITION	59 (12.66)	ANEMIA	42 (9.01)	ANEMIA	35 (7.51)	MALNUTRITION	30 (6.44)	12 (2.58)
Ghana	NEONATAL DEATH	458 (6.81)	PNEUMONIA (POST NEONATAL)	316 (4.70)	PNEUMONIA (POST NEONATAL)	257 (3.82)	NEONATAL DEATH	241 (3.58)	NEONATAL DEATH	221 (3.29)	5231 (77.80)
Guinea- Bissau	MALARIA	80 (3.91)	DIARHEA	2 (0.10)	MEASLES	(00.0)	PNEUMONIA (POST NEONATAL)	138 (6.75)	HIV/AIDS	660 (32.29)	1164 (56.95)
Guinea	MALARIA	1043 (45.02)	UNCLASSIFIED	579 (24.99)	UNCLASSIFIED	278 (12.00)	UNCLASSIFIED	278 (12.00)	NON- COMMUNICABLE DISEASES	70 (3.02)	69 (2.98)
Liberia	OTHERS	931 (46.00)	MALNUTRITION	546 (26.98)	ANEMIA	364 (17.98)	PNEUMONIA (POST NEONATAL)	47 (2.32)	NEONATAL DEATH	40 (1.98)	96 (4.74)
Mali	MALARIA	735 (10.22)	MALARIA	120 (8.98)	MALNUTRITION	(00.0)	DIARRHEA	(00.0)	UNCLASSIFIED	(00.0)	481 (36.00)
Niger	MALARIA	1719 (36.70)	MALNUTRITION	300 (6.40)	ANEMIA	183 (3.91)	DIARRHEA	117 (2.50)	PNEUMONIA (POST NEONATAL)	98 (2.09)	2267 (48.40)
Nigeria	UNCLASSIFIED	10667 (41.00)	HIV/AIDS	4163 (16.00)	PNEUMONIA (POST NEONATAL)	3643 (14.00)	DIARHEA	3643 (14.00)	MALARIA	2081 (8.00)	1821 (7.00)
Senegal	MALNUTRITION	248 (39.37)	PNEUMONIA (POST NEONATAL)	234 (37.14)	DIARRHEA	16 (2.54)	UNCLASSIFIED	(00.0)	UNCLASSIFIED	(00.0)	132 (20.95)
Sierra Leone	MALARIA	558 (11.00)	ANEMIA	224 (4.42)	PNEUMONIA (POST NEONATAL)	189 (3.73)	DIARRHEA	176 (3.47)	MALNUTRITION	79 (1.56)	3846 (75.83)
Togo	HIV/AIDS	607 (26.19)	MENINGITIS	423 (18.25)	ACCIDENTS (POST NEONATAL)	386 (16.65)	NEONATAL DEATH	355 (15.31)	NON- COMMUNICABLE DISEASES	343 (14.80)	204 (8.80)



HEALTH SITUATION IN THE ECOWAS REGION

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