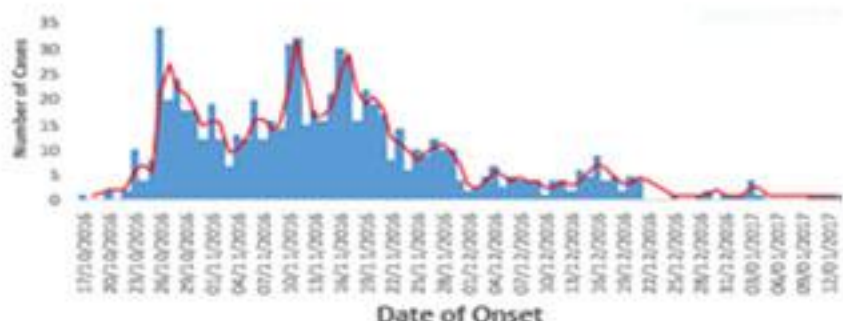




Ghana Weekly Epidemiological Report



IN THIS ISSUE

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- Ashanti Region below the Annualized Non-Polio AFP Rate
- Central and Upper West regions below the surveillance reporting target for Yellow Fever

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Summary of Weekly Epidemiological Data for Week 40, 2018

Highlights:

- Brong-Ahafo and Greater Accra regions are lead performers on reporting
- Ashanti Region below the Annualized Non-Polio AFP Rate
- Central and Upper West regions below the surveillance reporting target for Yellow Fever

SUMMARY OF PRIORITY DISEASES AND EVENTS

The total all-cause weekly notifiable disease morbidity for Week 40 was 1,627. Acute watery diarrhoea in persons aged >5 years accounted for majority (56.6%) of cases reported for the notifiable diseases during the Week (See Figure 1 and Annex 1)

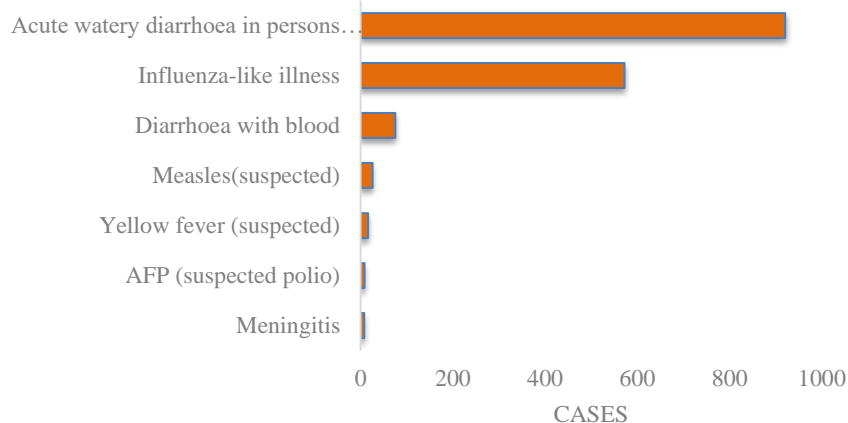


Figure 1: Reported number of cases for notifiable diseases, Ghana, Week 40, 2018

REGIONAL PERFORMANCE BASED ON REPORTING

Brong-Ahafo and Greater Accra Region with a mean score of 100% occupied the top spot as the best performing regions whilst the Upper West region had the lowest mean score of 78.0%. All regions achieved the expected target (61.5%) for percentage of districts reporting suspected Measles and Yellow Fever except Central (55.0%) and Upper West (45.5%) regions which failed to achieve the expected surveillance target for Yellow Fever.

[Table 1].

Timeliness and Completeness of reporting for all notifiable conditions for the Week were 94.5% and 97.4% respectively. Five regions namely; Brong-Ahafo, Eastern, Greater Accra, Northern, and Upper East all scored 100% for both indicators.

Table 1: Ranking of Regional Performance based on selected Surveillance reporting indicators, Ghana, Week 40, 2018

Region	Timeli- ness (%) Week 40 A	Complete- ness (%) Week 40 B	Cum. AFP Cases Week 40	Annualized Non-Polio AFP Rate	AFP Score (%) C	Measles % District reporting D	YF % District reporting E	Average Score % (A+B+C+ D+E)/5	Position
Brong-Ahafo	100	100	58	6.3	100	100.0	100.0	100.0	1st
Greater Accra	100	100	71	3.9	100	100.0	100.0	100.0	1st
Volta	99.8	99.8	49	5.2	100	100.0	100.0	99.9	3rd
Eastern	100	100	40	3.5	100	100.0	92.3	98.5	4th
Upper East	100	100	17	3.4	100	92.3	100.0	98.5	4th
Western	92.6	92.6	58	5.9	100	100.0	100.0	97.0	6th
Northern	100	100	53	5.2	100	84.6	96.2	96.2	7th
Ashanti	89.1	93.3	40	1.9	94	93.3	83.3	90.6	8th
Central	80.1	89.3	29	3.1	100	85.0	55.0	81.9	9th
Upper West	72.3	99.7	15	5.6	100	72.7	45.5	78.0	10th
Ghana	94.5	97.4	430	4.08	100	94.0	89.4	95.0	

CHOLERA

In Week 40, no cholera case was reported

MATERNAL DEATHS

No maternal death was reported in Week 40

INFLUENZA-LIKE ILLNESS (IDSR Weekly Report)

A total of 572 cases of Influenza-like Illnesses were recorded nationwide [Table 2].

Table 2: Reported Influenza-Like Illness cases by Region and District, Ghana, Week 40, 2018

Region	Districts	Cases	Deaths
Ashanti	Adansi South	20	0
	Asante-Akim South	33	0
	Ejisu-Juaben	146	0
Brong-Ahafo	Sunyani	6	0
Eastern	Denkyembaour	134	0
Upper East	Bolgatanga	5	0
Volta	Ketu South	7	0
Greater-Accra	Accra	29	0
	Adentan	15	0
	Ga Central	3	0
	Ga East	23	0
	Ga West	28	0
	La-Dade-Kotopon	3	0
	Ledzokuku-Krowor	16	0
	Shai-Osudoku	36	0
	Tema	68	0
Total		572	0

Sentinel Reporting

A total of 115 samples were taken from 18 Sentinel Sites which included 101 samples from Influenza Like –Illnesses (ILI) and 14 from Severe Acute Respiratory Infection (SARI) patients [Table 3]. Thirty-four were confirmed (ILI - 31 and SARI – 3)

Tamale recorded the highest number of confirmed cases and 6 were Flu B Victoria [Table 4]. The highest number of confirmed cases in the year was recorded in Week 40. The cumulative distribution of Influenza virus subtypes for both ILI and SARI for the year were A (H1N1) – 293 (53.5%) followed by Flu B YAM – 192 (35%) and Flu B VIC – 47 (8.6%) and A (H3N2) – 10 (1.8%) [Figure 2].

Table 3: Reported ILI and SARI cases by Region, Ghana, Week 40, 2018

Region	Number of Sentinel Sites	Number of Samples			
		ILI	Confirmed	SARI	Confirmed
Ashanti	1	5	0	0	0
Brong-Ahafo	1	4	2	1	1
Central	1	0	0	0	0
Eastern	2	16	4	2	0
Greater Accra	5	31	8	2	0
Northern	2	15	9	2	2
Upper East	2	13	5	0	0
East	2	7	2	0	0
Volta	2	10	1	7	0
Western	2				
Ghana	18	101	31	14	3

Table 4: Confirmed cases of ILI & SARI by Location, Ghana, Week 40, 2018

Region	Town	Number of Cases	RT-PCR Results
Brong-Ahafo	Sunyani	2	H1N1 & Flu B Yam
Greater Accra	Accra	7	4 - H3N2 & 3 - Flu B Vic
Eastern	Osudoku	4	3 - Flu B Yam, Flu B Vic
Northern	Tamale	8	H1N1, H3N2 & 6- Flu B Vic
Upper East	Bolgatanga	5	3 - H1N1 & 2 - Flu B Vic
Volta	Ho	2	H3N2 & Flu B Vic
Western	Sekondi-Takoradi	1	Flu B Vic

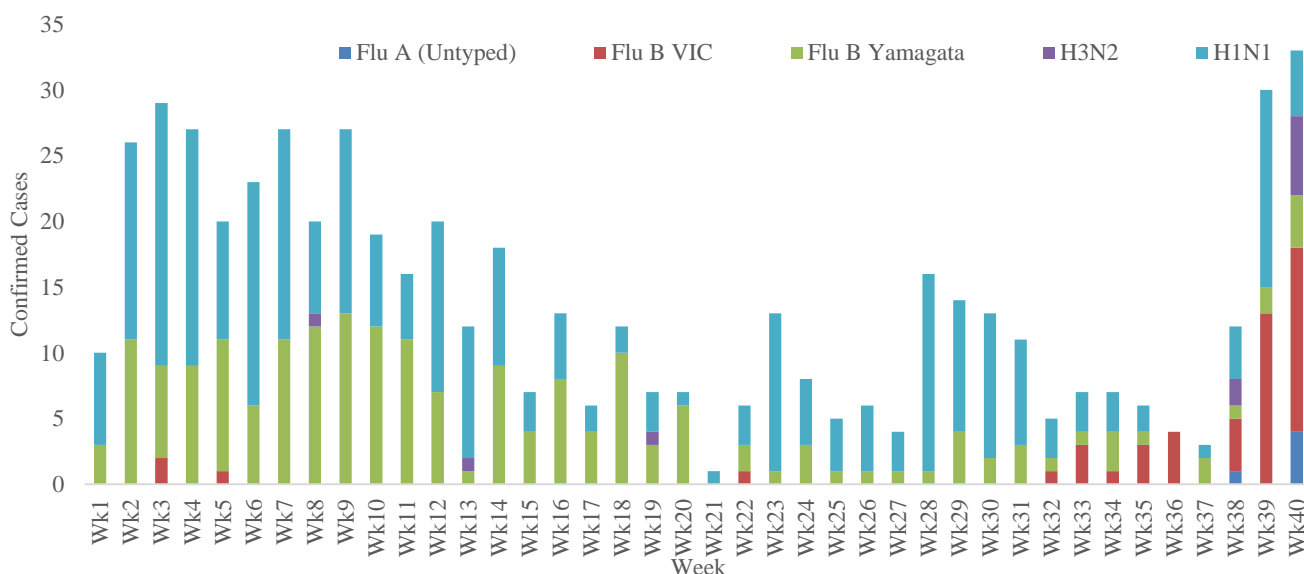


Figure 2: Number of positive Influenza by Subtyping, Ghana, Week 1 – 40, 2018

MEASLES

Twenty-six suspected cases of Measles were reported during the Week [Table 3]. Samples were taken and sent to the National Public Health Reference Laboratory [NPHRL] for investigations and awaiting results. As at the end of Week 40, a total of 31 and 19 suspected cases have been confirmed with Brong-Ahafo region recording 16 and 8 cases of Measles and 8 Rubella respectively. [Figure 3].

Table 3: Suspected Measles cases by Region and District, Ghana, Week 40, 2018

Region	Districts	Cases	Deaths
Ashanti	Kwabre	1	0
	Dormaa East	2	0
	Jaman South	1	0
	Nkoranza North	2	0
	Pru	1	0
	Sunyani West	2	0
	Tain	1	0
Brong-Ahafo	Wenchi	2	0
	Asuogyaman	1	0
	Birim North	1	0
Eastern	Yilo-Krobo	1	0
	Adentan	2	0
	Ga West	2	0
Greater Accra	Kpone-Katamanso	1	0
	Shai-Osudoku	1	0
Upper East	Bawku	1	0
	Builsa South	1	0
Volta	Ho	1	0
	Keta	1	0
	Ketu South	1	0
Total		26	0

MENINGITIS

Eight cases of meningitis were recorded across the country during the week [Table 4]. No district was in either alert or epidemic threshold.

Table 4: Meningitis Cases and Deaths, Ghana, Week 40, 2018

Region	Districts	Cases	Deaths
Brong-Ahafo	Dormaa East	1	0
	New Juaben	1	0
Eastern	West Akim	1	0
	Nanumba North	1	0
Northern	Nanumba South	1	0
	Nandom	1	0
Upper West	Wa	1	0
	Wa West	1	0
Total		8	0

YELLOW FEVER

Sixteen suspected cases of Yellow Fever were reported in Week 40. All cases tested negative at the National Public Health Reference Laboratory [Table 5].

Table 5: Suspected Yellow Fever cases by Region, Ghana, Week 40, 2018

Region	Districts	Cases	Deaths
Ashanti	Amansie West	1	0
	Offinso North	1	0
	Sekyer South	1	0
Brong-Ahafo	Asutifi North	1	0
	Dormaa East	2	0
	Jaman South	1	0
	Pru	1	0
	Upper Denkyira East	2	0
Greater-Accra	Accra	1	0
Northern	Karaga	1	0
Upper East	Kassena Nankana West	1	0
	Talensi	1	0
Volta	Ketu South	1	0
Western	Tarkwa-Nsuaem	1	0
Total		16	0

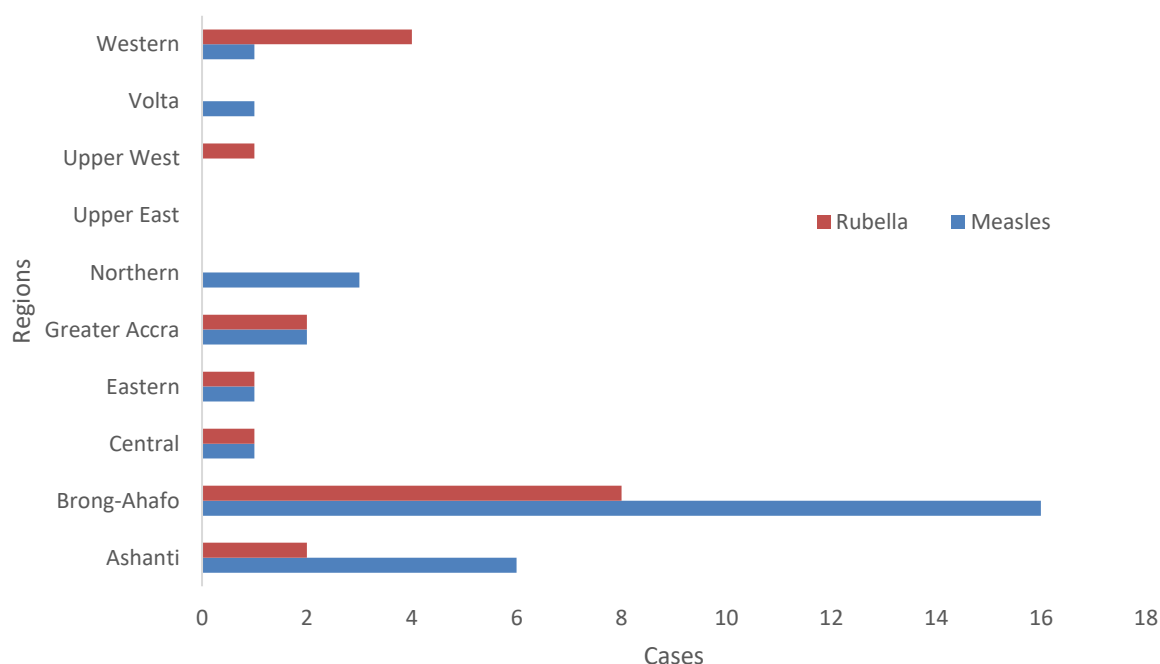


Figure 3: Distribution of cumulative Confirmed Measles and Rubella cases by Region, Ghana, Week 40, 2018

.HUMAN RABIES

No case of Human Rabies was reported during the Week.

**ACUTE FLACCID PARALYSIS
(SUSPECTED POLIOMYELITIS)**

Nine cases of suspected Polio were recorded in Week 40 [Table 6]. Stool specimens obtained for respective cases tested negative for wild polio virus at the Noguchi Memorial Institute for Medical Research Polio Laboratory.

Table 6: Suspected Poliomyelitis cases and deaths by Region and District, Ghana, Week 40, 2018

Region	Districts	Cases	Deaths
Brong-Ahafo	Dormaa East	1	0
	Nkoranza South	1	0
Central	Abura-Asebu-Kwamankese	1	0
Eastern	Asuogyaman	1	0
Upper East	Builsa	2	0
	Talensi	1	0
Volta	Keta	1	0
Western	Sefwi-Wiaaso	1	0
Total		9	0

Summary on Acute Flaccid Paralysis (AFP) Indicators, Week 1 – 40

All regions achieved the annualised Non-Polio AFP rate of 2.0 per 100,000 population less than 15 years except Ashanti region which is still below the Non Polio-AFP rate of 2.0 as at the end of Week 40. A total of 430 cases have been recorded with Greater Accra region recording the highest number of cases (71). Eight compatibles have been reported with the following regional distribution; Greater Accra – 3, Western – 3, Brong-Ahafo – 1 and Volta - 1[Table 7].

Table 7: Summary on Acute Flaccid Paralysis Surveillance, Ghana, Week 1 - 40, 2018

Region	Population Under 15 years	Expected Non-Polio AFP for the year	Reported AFP	Compatible	Discarded	Annualized Non-Polio AFP Rate	% Timely Stools	% Adequate Stools
Ashanti	2,484,707	50	40	0	36	1.9	95.0	85.0
Brong-Ahafo	1,164,263	23	58	1	56	6.3	91.4	86.2
Central	1,180,617	24	29	0	29	3.1	89.7	89.7
Eastern	1,305,965	26	40	0	35	3.5	90.0	90.0
Greater Accra	2,085,500	42	71	3	63	3.9	84.5	83.1
Northern	1,308,970	26	53	0	52	5.2	98.1	94.3
Upper East	483,561	10	17	0	13	3.4	82.4	76.5
Upper West	342,806	7	15	0	15	5.6	100.0	100.0
Volta	1,083,971	22	49	1	44	5.2	87.8	85.7
Western	1,169,233	23	58	3	52	5.9	91.4	75.9
Ghana	12,609,592	252	430	8	395	4.1	90.7	85.8

ANNEX 1: SUMMARY OF REPORTED CASES/ EVENTS: WEEK 40 (WEEK ENDING 07 OCTOBER, 2018)

Disease/Health Event (suspected/confirmed)	Week 39			Week 40			Cumulative to Week 40		
	Cases (susp)	Deaths	CFR (%)	Cases (susp)	Deaths	CFR (%)	Cases (susp)	Deaths	CFR (%)
AFP (suspected polio)	11	0	0.0	9	0	0.0	437	0	0.0
Acute haemorrhagic fever syndrome	0	0	-	0	0	-	39	0	0.0
Adverse events following immunization	0	0	-	0	0	-	1	0	-
Anthrax	0	0	-	0	0	-	2	0	-
Acute watery diarrhoea in persons aged >5+ years	649	0	0.0	921	0	0.0	43,386	0	0.0
Cholera	0	0	-	0	0	-	0	0	-
Dengue fever	0	0	-	0	0	-	0	0	-
Diarrhoea with blood	28	0	0.0	75	0	0.0	3,162	0	0.0
Dracunculiasis (Guinea worm)	0	0	-	0	0	-	0	0	0.0
Influenza-like illness	375	0	0.0	572	0	0.0	23,106	0	0.0
Maternal deaths	-	2	-	-	0	-	-	73	-
Measles(suspected)	31	0	0.0	26	0	0.0	1,654	0	0.0
Meningitis	5	0	0.0	8	0	0.0	897	61	6.8
Neonatal tetanus	0	0	-	0	0	-	11	2	18.2
Plague	0	0	-	0	0	-	0	0	-
Public health event of international concern (PHEIC)	0	0	-	0	0	-	0	0	-
Human rabies	0	0	-	0	0	-	23	23	100.0
SARS	0	0	-	0	0	-	0	0	-
Smallpox	0	0	-	0	0	-	0	0	-
Yellow fever (suspected)	14	0	0.0	16	0	0.0	715	0	0.0
NATIONAL TOTAL	1,113	2	0.0	1,627	0	0.0	73,433	159	0.1

*CFR does not include maternal deaths

*This report and subsequent ones should be shared with regional and district heads as well as heads of other agencies.
A feedback addressed to the Editor-In-Chief is welcome*

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