

South Sudan

Integrated Disease Surveillance and Response (IDSR)

Epidemiological Bulletin Week 05, 2020 (January 27 – February 02)



Major Epidemiological Highlights in week 05 of 2020

- In week 05, 2020 IDSR reporting completeness was 87% and timeliness was 83% at health facility level. EWARN reporting both completeness and timeliness were 73%.
- Of the 88 alerts in week 05, 2020; 76% were verified 0% were risk assessed and 0% required a response. Malaria (20), AWD (26), measles (16) and bloody diarrhea (07) were the top common alerts generated through the EWARS in week 05, 2020.
- Covid-2019 alert was reported on 4th Feb, 2020 in Juba. RRT were deployed, sample was collected and tested (UVRI) negative for Covid-19.
- New confirmed outbreak of measles in Bor county after 7 out of 8 samples tested measles IgM positive. Mass campaign ongoing in Bor county.
- Since week 7 of 2019, a total of 268 ILI/SARI samples have been collected and tested in UVRI 228 being negative; 6 (3%) positive for Influenza B (Victoria); 13(7%) positive for Influenza A (H3); and 12(6%) positive for Influenza A (H1)pdm09 and zero(9) samples are pending test results .

SURVEILLANCE PERFORMANCE

For the Integrated Disease Surveillance (IDSR) network and Early warning alert and response network (EWARN)

IDSR Timeliness and Completeness Performance at Facility Level for week 05, 2020

Completeness Hub/Former States Ranking	Hub/Former States	Supporting Partners	Total No. of Health Facilities in the State	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of Time	Completeness Percentage
1st	Yambio	AMREF, World Vision, CUAMM, CDTY, OPEN	213	210	99%	210	99%
2nd	Kwajok	GOAL, CCM, WVI, Malaria Consortium, UNKEA, Save the Children, MSF	126	118	94%	120	95%
3th	Rumbek	Doctors with Africa (CUAMM), LIVEWELL	116	104	90%	108	93%
4th	Bentiu	Cordaid, UNIDOR, IRC, CHADO, CARE International, CRADA, CASS	91	60	66%	81	89%
5th	Torit	Cordaid, HLSS, CCM	145	114	79%	127	88%
6th	Wau	Cordaid, Healthnet TPO, CARE International	77	64	83%	65	84%
7th	Malakal	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID	115	93	81%	96	83%
8th	Bor	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDA, CRADA, Malaria Consortium, CMA	137	111	81%	113	82%
9th	Aweil	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	146	103	71%	112	77%
10th	Juba	HLSS, SSUHA, Healthnet TPO, IHO, GOAL, TRI-SS	121	86	71%	88	73%
	South Sudan		1287	1063	83%	1120	87%

Key

	<60%	Poor
	61%-79%	Fair
	80%-99%	Good
	100%	Excellent

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level was 83% and completeness was 87%. Total of 8 hubs are above the target of 80% with highest reporting performance in Yambio with completeness of 99%, while only hubs are below the target of 80%.

IDSR Timeliness and Completeness Performance at County Level for week 05, 2020 (1)

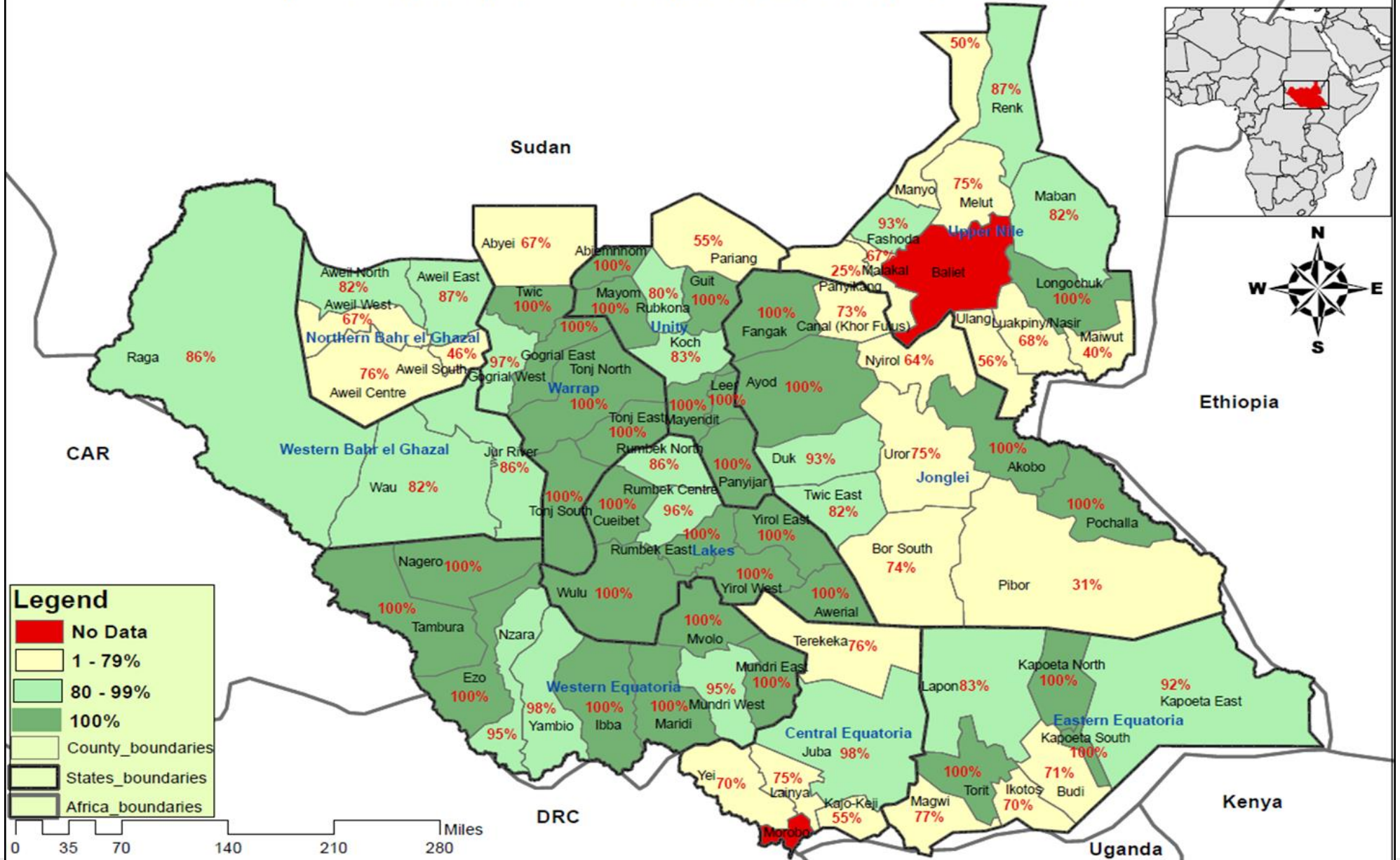
Counties	Supporting Partners	Total No. of Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage	Counties	Supporting Partners	Total No. of Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Rumbek Centre	Doctors with Africa (CUAMM)	23	14	61%	16	70%	Gogrial West	GOAL	32	31	97%	31	97%
Rumbek East	Doctors with Africa (CUAMM)	24	24	100%	24	100%	Gogrial East	GOAL	15	13	87%	15	100%
Rumbek North	Doctors with Africa (CUAMM)	7	6	86%	6	86%	Abyei	AAA ,Save the Children, MSF	15	10	67%	10	67%
Wulu	Doctors with Africa (CUAMM)	14	14	100%	14	100%	Tonj East	CCM	12	12	100%	12	100%
Cueibet	Doctors with Africa (CUAMM)	15	15	100%	15	100%	Tonj South	CCM	12	12	100%	12	100%
Yirol East	Doctors with Africa (CUAMM),LIVEWELL	14	12	86%	14	100%	Tonj North	CCM	14	14	100%	14	100%
Yirol West	Doctors with Africa (CUAMM)	12	12	100%	12	100%	Twic Mayardit	GOAL	26	26	100%	26	100%
Awerial	Doctors with Africa (CUAMM)	7	7	100%	7	100%	Bor	MDM + JDF	35	25	71%	25	71%
Yambio	World Vision International	42	41	98%	41	98%	Duk	MDM + JDF	14	12	86%	12	86%
Ibba	AMREF	11	11	100%	11	100%	Pibor	LIVEWELL,CRADA	16	5	31%	5	31%
Maridi	AMREF	26	26	100%	26	100%	Akobo	NILE HOPE	8	8	100%	8	100%
Mundri West	CUAMM	21	20	95%	20	95%	Fangak	CMD,HFO	16	16	100%	16	100%
Mundri East	CUAMM	19	19	100%	19	100%	Uror	Nile Hope,Malaria Consortium	8	6	75%	6	75%
Tambura	World Vision International	26	26	100%	26	100%	Nyirol	CMA,Malaria Consortium	11	4	36%	5	45%
Mvolo	CUAMM	11	11	100%	11	100%	Twic East	MDM + JDF,SMC	11	9	82%	9	82%
Nzara	World Vision International	20	19	95%	19	95%	Ayod	CMD,EDA	15	15	100%	15	100%
Nagero	World Vision International	10	10	100%	10	100%	Pochalla	LIVEWELL	9	9	100%	9	100%
Ezo	World Vision International	27	27	100%	27	100%	Pigi Canal	IMC	6	2	33%	3	50%
Abiemnhom	Cordaid	4	4	100%	4	100%	Mayendit	CASS	13	0	0%	13	100%
Koch	UNIDOR,CRADA,CARE International,JRC.	6	4	67%	5	83%	Guit	Cordaid	7	7	100%	7	100%

IDSR Timeliness and Completeness Performance at County Level for week 05, 2020 (2)

Counties	Supporting Partners	Total No. of Health Facilities in the County	No. of HF's Reported on Time	Timeliness Percentage	No. of HF's Reported regardless of time	Completeness Percentage
Malakal	IMC	9	6	67%	6	67%
Akoka	IMC	5	3	60%	4	80%
Baliet	IMC	5	0	0%	0	0%
Renk	WVI + RI	13	13	100%	13	100%
Melut	WVI + RI	8	6	75%	6	75%
Manyo	CORDAID	6	4	67%	4	67%
Maiwut	RI	4	4	100%	4	100%
Fashoda	CORDAID	13	13	100%	13	100%
Ulang	UNKEA	10	9	90%	10	100%
Maban	WVI + RI	17	13	76%	13	76%
Luakping Nasir	UNKEA	19	13	68%	13	68%
Longechuk	RI	9	9	100%	9	100%
Panyikang	IMC	4	0	0%	1	25%
Aweil West	HealthNetTPO	39	17	44%	26	67%
Aweil East	IRC	44	40	91%	40	91%
Aweil Center	Malaria Consortium(MC)	17	13	76%	13	76%
Aweil South	Malaria Consortium(MC),IHO	11	6	55%	6	55%
Aweil North	HealthNetTPO,IHO	33	27	82%	27	82%
Pariang	Cordaid	11	3	27%	6	55%
Panyijjar	IRC	15	12	80%	15	100%

Counties	Supporting Partners	Total No. of Health Facilities in the County	No. of HF's Reported on Time	Timeliness Percentage	No. of HF's Reported regardless of time	Completeness Percentage
Juba	HLSS	44	40	91%	41	93%
Kajo-Keji	SSUHA,GOAL,TRI-SS	11	6	55%	6	55%
Yei	SSUHA	20	13	65%	14	70%
Lainya	SSUHA	16	12	75%	12	75%
Morobo	SSUHA	4	0	0%	0	0%
Terekeka	HealthNetTPO	25	15	60%	15	60%
Torit	Cordaid	20	14	70%	15	75%
Lopa Lafon	HLSS	18	13	72%	15	83%
Ikotos	HLSS	27	19	70%	27	100%
Magwi	HLSS	22	15	68%	17	77%
Budi	Cordaid	21	15	71%	15	71%
Kapoeta South	CCM	10	10	100%	10	100%
Kapoeta East	CCM	12	11	92%	11	92%
Kapoeta North	CCM	15	15	100%	15	100%
Wau	Cordaid	28	23	82%	23	82%
Raja	HealthNetTPO	14	12	86%	12	86%
Jur River	Cordaid	35	29	83%	30	86%
Rubkona	Cordaid	15	11	73%	12	80%
Mayom	CASS	9	9	100%	9	100%
Leer	UNIDOR	10	10	100%	10	100%

Map showing completeness of reporting by county in week 5, 2020.



Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Surveillance | EWARS surveillance performance indicators by partner week 05, 2020

Partner	Performance		Reporting	
	# of sites	# of reports received	Completeness	Timeliness
CMD	1	1	100%	100%
GOAL	2	2	100%	100%
HAA	3	3	100%	100%
HLSS	1	0	0%	0%
HFO	3	3	100%	100%
IHO	2	2	100%	100%
IMA	8	8	100%	100%
IMC	8	4	50%	50%
IOM	13	13	100%	100%
MDM	10	0	0%	0%
IRC	1	0	0%	0%
LIVEWELL	4	4	100%	100%
MEDAIR	2	2	100%	100%
MEDICAIR	9	9	100%	100%
MSF-E	2	2	100%	100%
SMC	4	0	0%	0%
MSF-H	2	0	0%	0%
RHS	3	3	100%	100%
TADO	4	3	75%	75%
TRI-SS	2	2	100%	100%
UNH	2	2	100%	100%
UNIDO	1	1	100%	100%
WORLD RELIEF	1	0	0%	0%
TOTAL	88	64	73%	73%

- Both completeness and timeliness were 73% for weekly reporting in week 05, 2020 for partner-supported clinics serving IDP sites. The cumulative completeness and timeliness were 46% and 45% respectively for 2020.

EVENT-BASED SURVEILLANCE

Alert management including detection;
reporting; verification; risk assessment; & risk
characterization

Alert by disease and Hubs in Week 05, 2020 [A total of 88 event specific alerts generated by Hubs]

Hub/Former States	AJS	ARI	Acute Watery Diarrhoea	Bloody Diarrhoea	Malaria	Measles	Total Alerts
Bor	1					1	2
Kuajok			4			5	9
Torit	1		8	1	3	3	16
Bentiu	2	8	5	2	5	5	27
Yambio		2	1		12		15
Juba			1	1		1	3
Aweil		1		1		1	3
Rumbek		1					1
Wau			2	1			3
Malakal		3	5	1			9
Total Grand	4	15	26	7	20	16	88

Table 8 Summary of key alert indicators

W5	Cumulative (2020)	
180	1179	Total alerts raised
76%	63%	% verified
0%	0%	% auto-discarded
0%	0%	% risk assessed
0%	0%	% requiring a response

During this week:

- **4 AJS alert: 3 pending verification and 1 been monitored**
- **15 ARI: 8 are pending verification, 7 been monitored**
- **26 AWD alert: 13 pending, 12 been monitored.**
- **7 ABD: 3 pending verification, 4 been monitored**
- **20 Malaria alerts: 8 pending verification, 12 been monitored**
- **16 Measles alert: 8 Pending verification, 12 been monitoring**

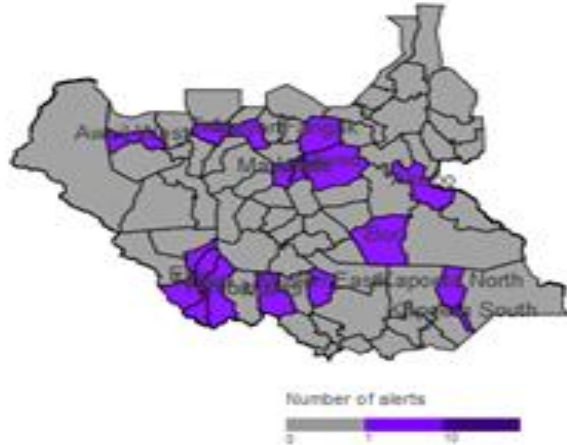
Table 10 | Event risk assessment

W5	Cumulative (2020)	
0	0	Low risk
0	0	Medium risk
0	2	High risk
0	1	Very high risk

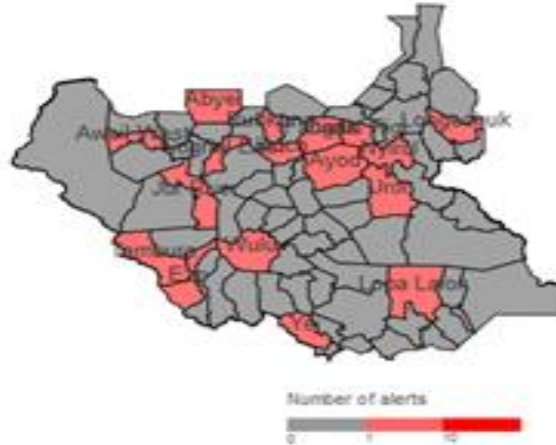
Alert | Map of key disease alerts by county week 05, 2020

Alert | Maps of key disease alerts by county

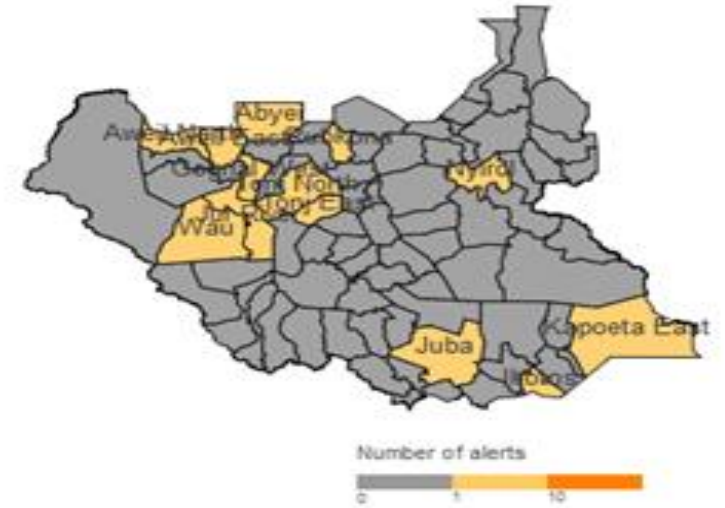
Map 2a | Malaria (W5 2020)



Map 2b | Bloody diarrhoea (W5 2020)



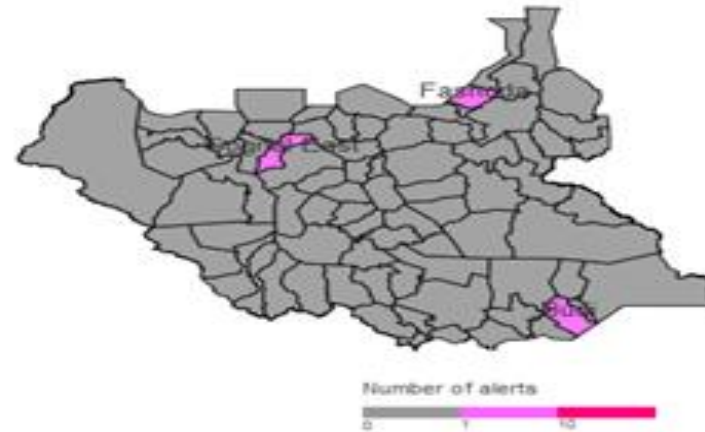
Map 2c | Measles (W5 2020)



Map 2d | Cholera (W5 2020)



Map 2e | Guinea Worm (W5 2020)



SUSPECTED OUTBREAKS IN 2019

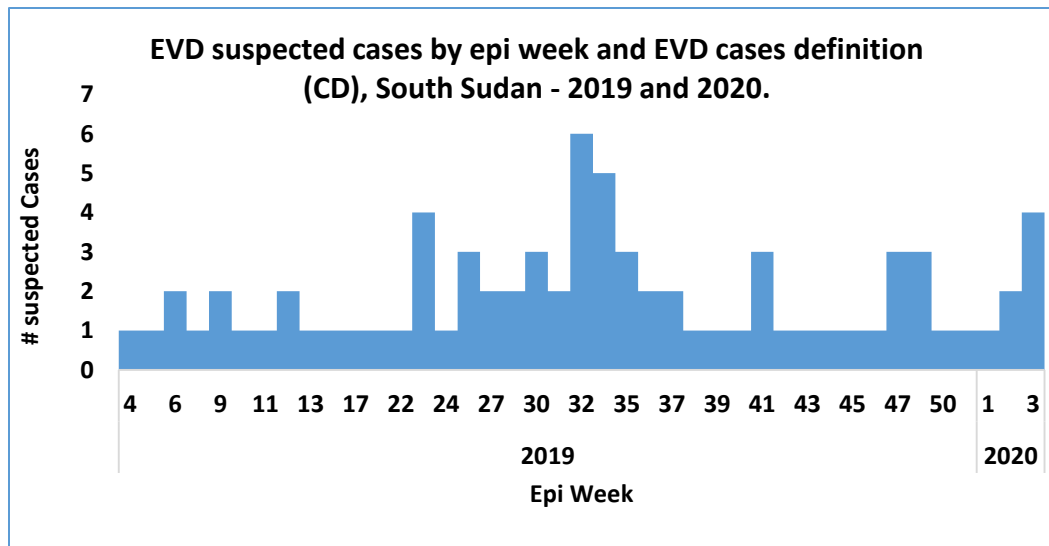
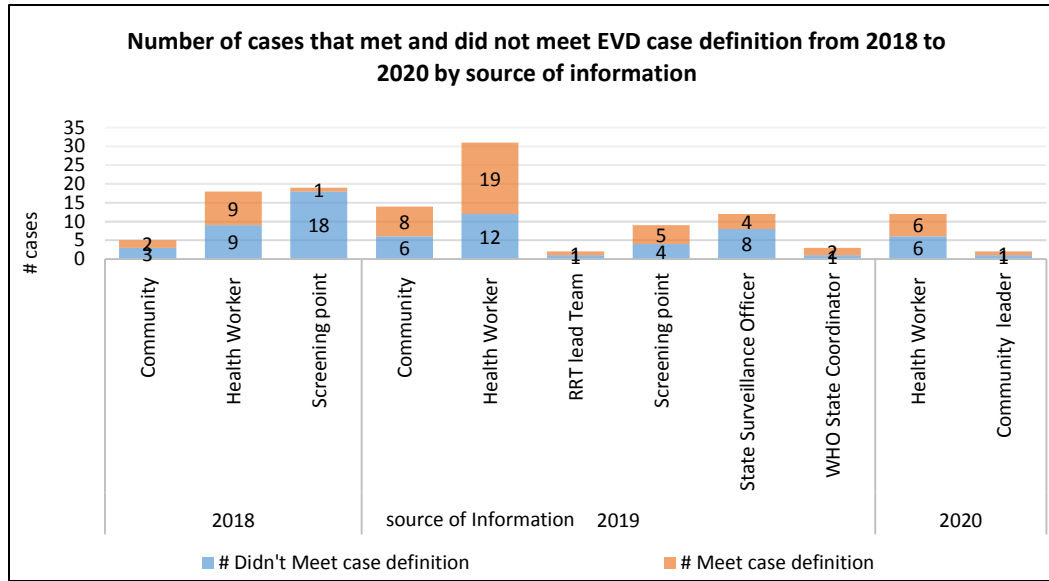
Major suspected outbreaks in South Sudan in
2019

EVD Suspect cases in South Sudan 2018 and 2019 as of week 03, 2020

Met EVD cases definition			
2018	30	12	42
Community	3	2	5
Health Worker	9	9	18
Screening point	18	1	19
2019	32	39	70
Community	6	8	14
Health Worker	12	19	30
RRT lead Team	1	1	2
Screening point	4	5	9
State Surveillance Officer	8	4	12
WHO State Coordinator	1	2	3
2020	7	7	7
Health Worker	6	6	6
Community leader	1	1	1
Grand Total	69	58	119

- Since August 2018, at least 119 suspect EVD cases have been reported, of which:
- Most 70 (58.8%) have been reported in 2019
- Most of the suspect EVD cases have been reported by health workers at health facility level

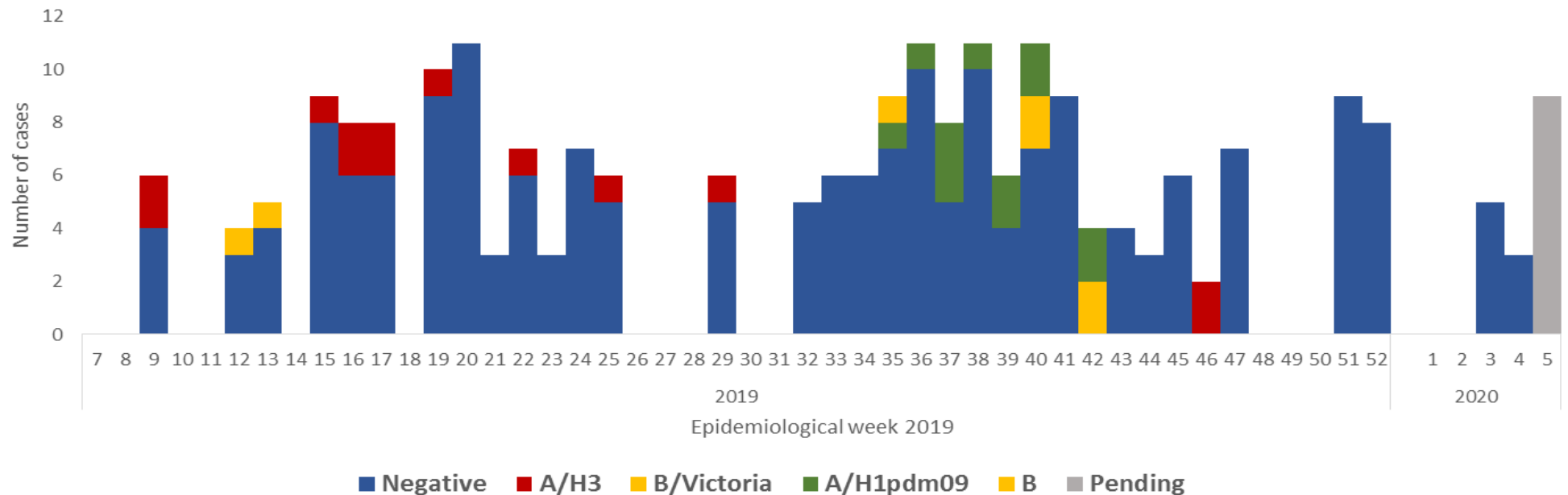
EVD Suspect cases in South Sudan 2018 and 2019 as of week 03, 2020



- Most of the suspect EVD cases have been reported in adults 18 years and above (72%)
- Similarly, most suspect EVD cases have been reported in males (56%)
- The distribution suspect EVD cases in both children <18years and adults ≥18yrs is skewed towards the males
- The number of suspect EVD cases reported per in week 03, 2020 were 4 cases

Routine Sentinel Surveillance | Human Influenza

Influenza isolates from sentinel sites in Juba, wk 7, 2019 to wk 5, 2020.



- In week 7, 2019, South Sudan started case-based surveillance for Influenza Like Illness (ILI) and Severe Acute Respiratory Infection (SARI) cases through systematic collection of epidemiological and virological information
- There are currently two designated Influenza sentinel surveillance sites in Juba (Juba Teaching Hospital and Al Sabah Children’s Hospital) that are collecting epidemiological data and samples from ILI/SARI cases
- Since week 7 of 2019, a total of 268 ILI/SARI samples have been collected and tested in UVRI 228 being negative; 6 (3%) positive for Influenza B (Victoria); 13(7%) positive for Influenza A (H3); and 12(6%) positive for Influenza A (H1)pdm09 and zero(9) samples are pending test results .
- Since the beginning of 2019; Influenza A (H3) has been the predominant isolate. However, Influenza A (H1)pdm09 emerged from week 35 as a new circulating strain.

Novel Coronavirus

Covid-19 Virus Situation Summary

Situation update as of 16th Feb, 2020 Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 16 February 2020

SITUATION IN NUMBERS total and new cases in last 24 hours

Globally

51 857 laboratory-confirmed
(1278 new)

China

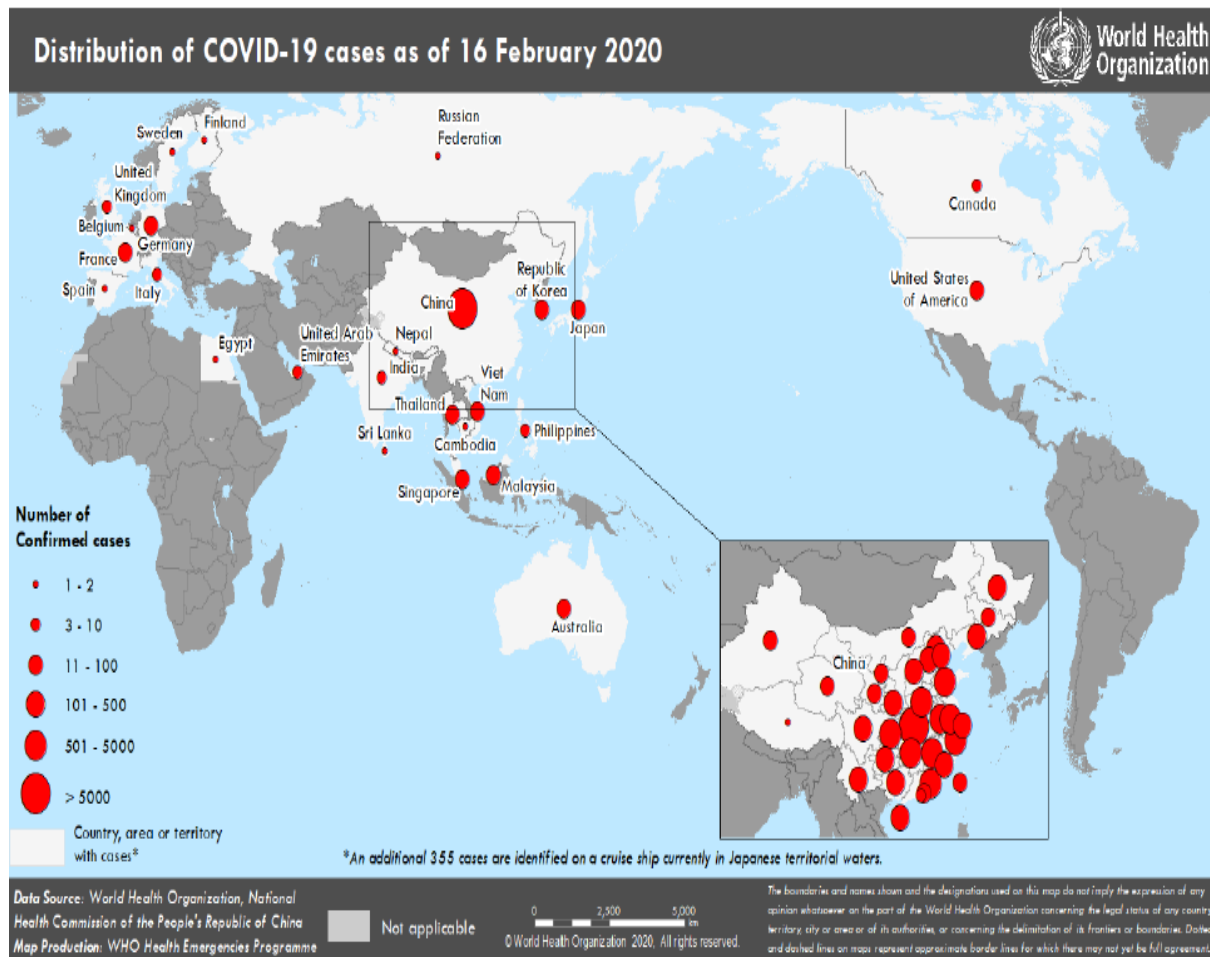
51 174 laboratory-confirmed
(1121 new)
1666 deaths (142 new) †

Outside of China

683 laboratory-confirmed
(157 new)
25 countries
3 deaths (1 new)

WHO RISK ASSESSMENT

China	Very High
Regional Level	High
Global Level	High



WHO: <https://www.who.int/health-topics/coronavirus>

Proposed preparedness for the risk of Covid-19 in South Sudan

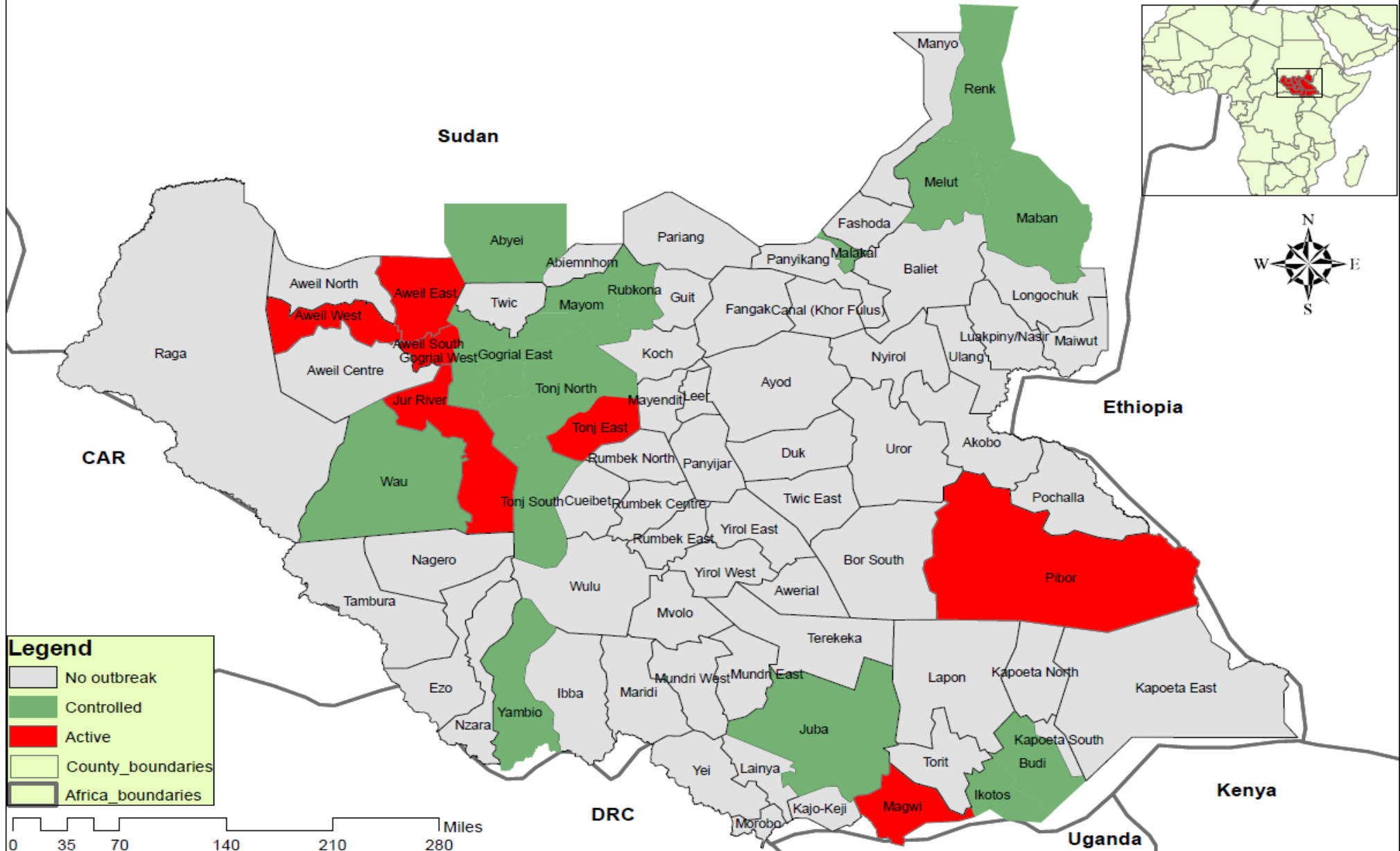
- The SSD Government is closely monitoring the 2019-nCoV situation working with WHO, CDC, and partners
- Two media briefings held to alert the general public about the 2019-nCoV and the measures instituted by Government and partners to mitigate the risk
- Health alert notice issued to inform state Ministries of Health, County Health Departments, and health facility workers about the 2019-nCoV outbreak
- Travel health notice issued to provide information to people traveling from China
- Entry screening initiated to identify passengers who that travelled from China in the last 14 days for follow up by contact tracing teams
- Established a 2019-nCoV Incident Management Structure in the PHEOC guide the implementation of preparedness activities and prepare for the activation of the Emergency Response System should the need arise in addition to:
 - Assessing the national capacities for detecting and responding to 2019-nCoV to identify main gaps; perform risk assessments; and
 - Develop, implement and monitor time-limited national preparedness plans to enhance capacities for 2019-nCoV response
 - Develop the requisite guidelines to support the implementation of the 2019-nCoV preparedness plans

An Alert was reported on 4th Feb, 2020. RRT were deployed, sample was collected and tested (UVRI) negative for Covid-19.

ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

Brief epidemiological description and public health response for active outbreaks and public health events

Map showing counties with confirmed measles outbreak (controlled and Active) in South Sudan, 2019 and 2020.



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Response | Summary of major ongoing outbreaks in 2019 and 2020

Aetiological agent	Location (county)	Date first reported	New cases since last bulletin	Cumulative cases to date (attack rate %)	Interventions			
					Case management	Vaccination	Health promotion	WASH
Ongoing epidemics								
Hepatitis E	Bentiu PoC	03/01/2018	4	169 (0.024)	Yes	No	Yes	Yes
Measles	Bentiu PoC	24/04/2019	10	364(0.027)	Yes	Yes	Yes	N/A
Measles	Juba	21/11/2019	NR	6(0.1667)	Yes	No	Yes	N/A
Measles	Maban	1/11/2019	7	131(0.053)	yes	No	Yes	N/A
Rubella	Rumbek East	17/9/2019	NR	23(0.35)	yes	No	Yes	N/A
Measles	Tonj East	12/12/2019	6	61(0.98)	yes	Yes	Yes	N/A
Measles	Jebel Boma	10/12/2019	6	96(0.063)	yes	No	Yes	N/A
Measles	Bor	17/01/2020	4	11(0.363)	yes	No	yes	N/A

- **Measles outbreaks confirmed in 2020**
 - 3 counties – **Tonj East, Magwi and Bor**
 - **New confirmed measles outbreaks and response dates:**
 - Bor: **Mass campaign ongoing**
 - Magwi: **Mass campaign ongoing**
 - Tonj East: **Mass campaign ongoing**

Measles Outbreak situation & response by county as of week 05, 2020

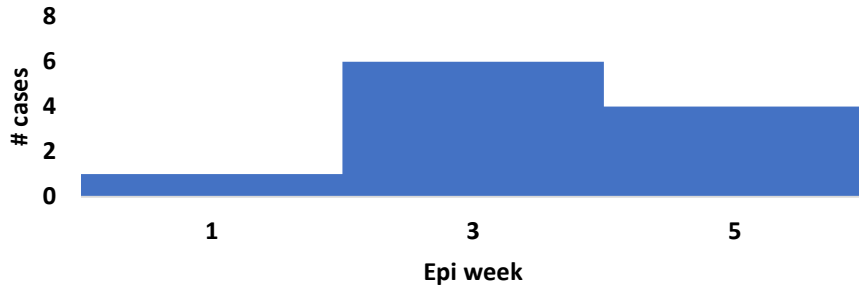
No	County	Population	Confirmed cases	Probable cases	Total cases	Cases per 100,000	Total deaths	CFR %	Date first reported	Emergency Campaign	Admin Coverage	Status	Comments
1	Tonj East	180,809	13	48	61	33.73725865	0	0	12-Dec-19	Mass Campaign	Pending result	active	Mass Campaign Ongoing
2	Magwi	4699302	5	5	10	0.21279756	0	0		Mass Campaign	Pending result	active	Mass Campaign Ongoing
3	Bor	320,956	7	4	11	3.427261058	0	0	17-Jan-19	Mass Campaign	Pending result	active	Mass Campaign Ongoing
Total		5,201,067	25	57	82	37.37731727	0	0					

Suspected Measles Investigation in Gumbo

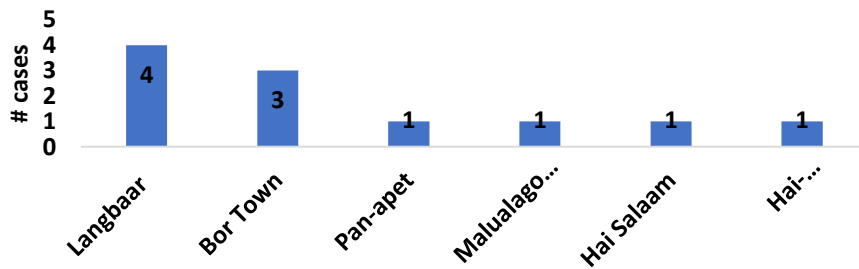
- On 1st February County Surveillance Officer for Juba was notified of suspected measles in Gumbo
- On 4th February National RRT members together with CSO investigated measles in Gumbo Juba 2 cattle camp
- A total of 15 suspected cases recorded in the health facility
- All cases were coming from Juba 2 cattle camp
- Additional 5 cases line listed from community with one death
- Two samples were collected and all negative for both Measles and Rubella IgM
- The team conducted health education to the cattle community in Juba 2
- The payam was part of phase 1 measles follow up campaign which was launched on 4th February 2020

Confirmed Measles Outbreak in Bor County

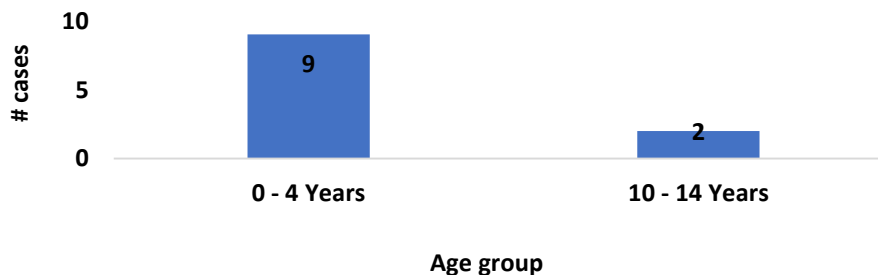
Measles cases in Bor from week 1 to week 5, 2020.



Measles cases in Bor by village of residence from week 1 to week 5, 2020.



Measles cases in Bor by Age category week 1 to week 5, 2020.



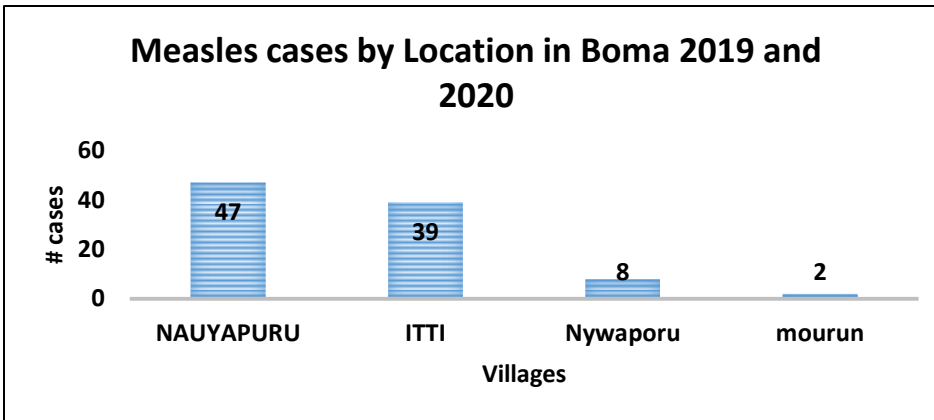
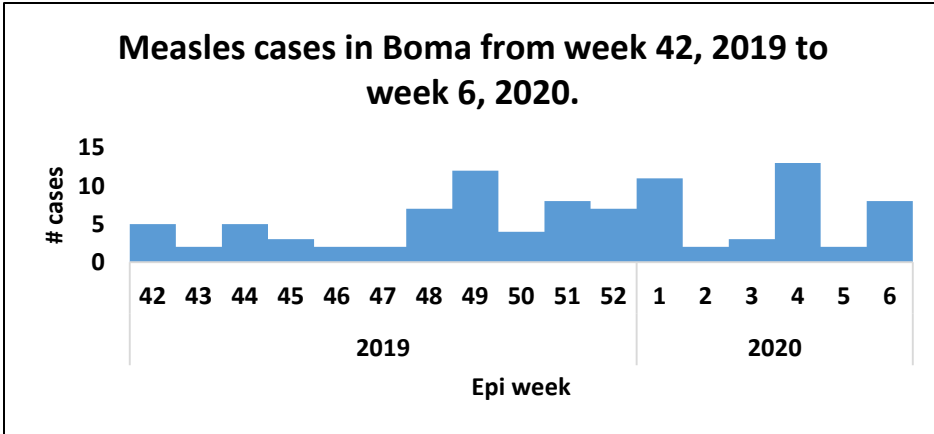
Descriptive Epidemiology:

- Initial cases were reported on 17th January 2020
- A total of 11 Suspected Measles case have been line listed in Bor county
- 4 new cases were reported in week 05, 2020
- 8 samples were collected of which 07 samples tested IgM positive for measles.
- The most affected payams are: Langbaar and Bor Town
- (9) 81,8% of the cases are less than 5 years of age
- Female were 55% and male were 45%

Response and Recommendations

- Mass campaign started on 6th February 2020 , coverage will be shared
- Enhancing surveillance and active case search especially in areas where cases have been reported from (esp. Langbaar and Bor Town).
- Case management underway

Confirmed Measles Outbreak in Jebel Boma County



Age-group	Cases	Percentage	% Cum.
0 - 4 Years	82	85%	85%
5 - 9 Years	11	11%	97%
10 - 14 Years	2	2%	99%
15+ Years	1	1%	100%
Grand Total	96	100%	

Descriptive Epidemiology:

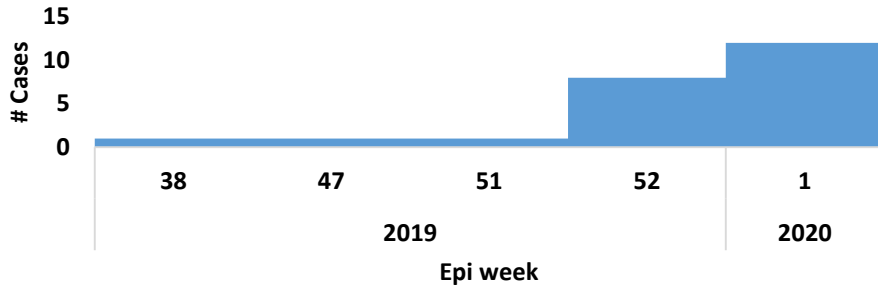
- Initial cases were reported on 14th October 2019
- A total of 96 Suspected Measles case have been line listed in Jebel Boma county
- 6 new cases were reported in week 04, 2020
- 11 samples were collected of which, 08 samples tested IgM positive for measles.
- The most affected payams are: Nauyapuru and Ititi
- (85) 82% of the cases are less than 5 years of age
- Female were 51% and male were 49%
- 11 community deaths were reported in Jebel Boma county

Response and Recommendations

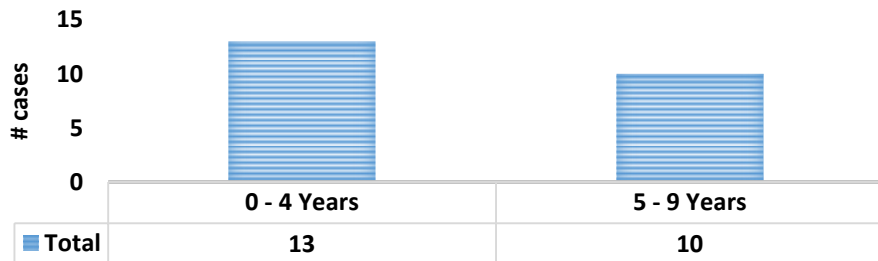
- Reactive campaign micro plan was developed, targeting 6 payams in Boma County. SMOH, Care International and partners are to conduct a reactive campaign.
- Surveillance and line-listing are ongoing
- Case management underway

Confirmed Rubella Outbreak in Rumbek East County

Measles cases in Rumbek East from week 38, 2019 to week 1, 2020.



Measles cases in Rumbek East by Age group.



Descriptive Epidemiology:

- Initial cases were reported in week 38, 2019
- A total of 23 suspected measles cases have been line listed in Rumbek East county
- Total of 08 samples were sent to NPHL, 05 turned out Rubella IgM positive and 03 were both Measles and Rubella IgM negative
- 10 new cases were reported in week 01, 2020
- (13) 57% of the cases are less than 5 years of age
- Male were 65% of cases and female were 35%

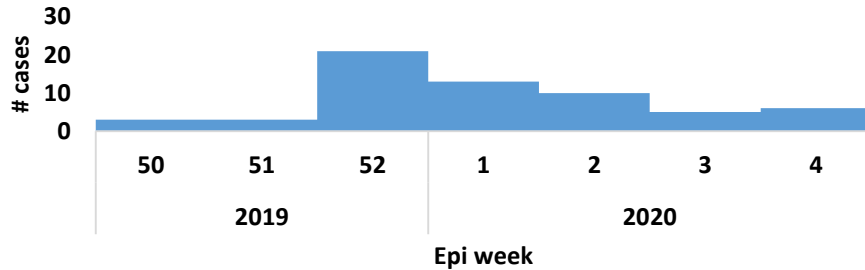
Response and Recommendations

- Mass campaign was finalized in Greater Rumbek on 16th February 2020
- Surveillance and line-listing are ongoing
- Case management underway

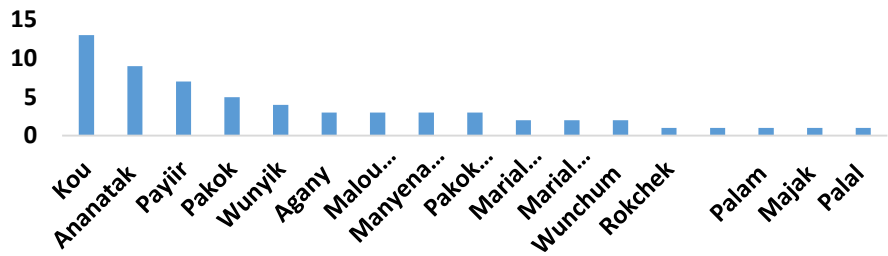
Age_Group	Cases	Percentage	% Cum.
0 - 4 Years	13	57%	57%
5 - 9 Years	10	43%	100%
Grand Total	23	100%	

Confirmed Measles Outbreak in Tonj East County

Measles cases from Tonj East, from week 50, 2019 to week 4, 2020.



Measles cases by place of residence 2019 to 2020.



Descriptive Epidemiology:

- Initial cases were reported on 12th December 2019
- A total of 61 Suspected Measles case have been line listed in Tonj East county
- 06 new cases were reported in week 04, 2020
- 15 samples were collected of which, 13 samples tested positive for measles, (1) positive for Rubella IgM and (1) negative for both measles and rubella
- The most affected payams are Kou and Ananatak (32) 52% of the cases are less than 5 years of age
- 61% of cases are females while 39% are male
- No deaths reported

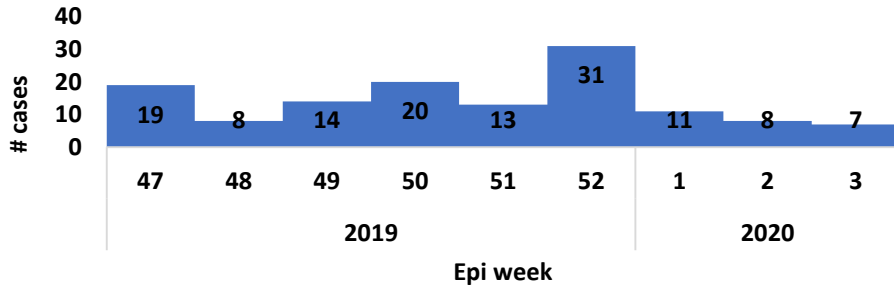
Response and Recommendations

- Rapid response team deployed to support the response
- Mass campaign ongoing
- Surveillance and line-listing are ongoing
- Case management ongoing

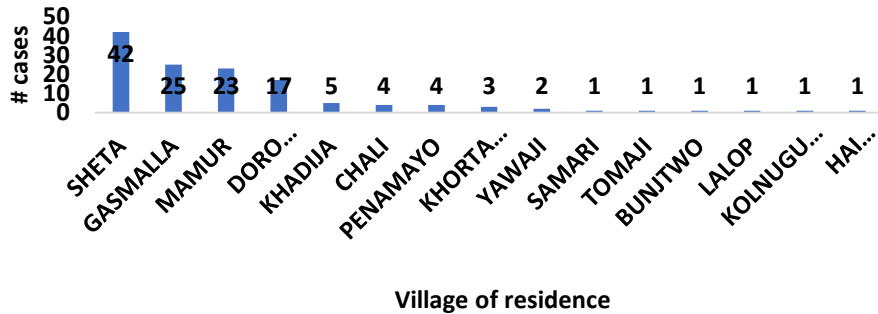
Age Group	Cases	Percentage	CUM.%
0 - 4 Years	32	52%	52%
15+ Years	14	23%	75%
5 - 9 Years	11	18%	93%
10 - 14 Years	4	7%	100%
Grand Total	61	100%	

Confirmed Measles Outbreak in Maban County

Epi curve for measles cases in maban county as of week 47, 2019 - 03, 2020.



Measles cases in maban county by village of residence as of week 47, 2019 - 03, 2020.



Descriptive Epidemiology:

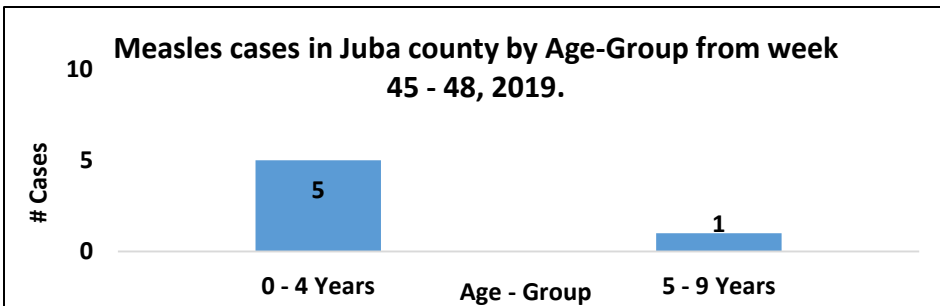
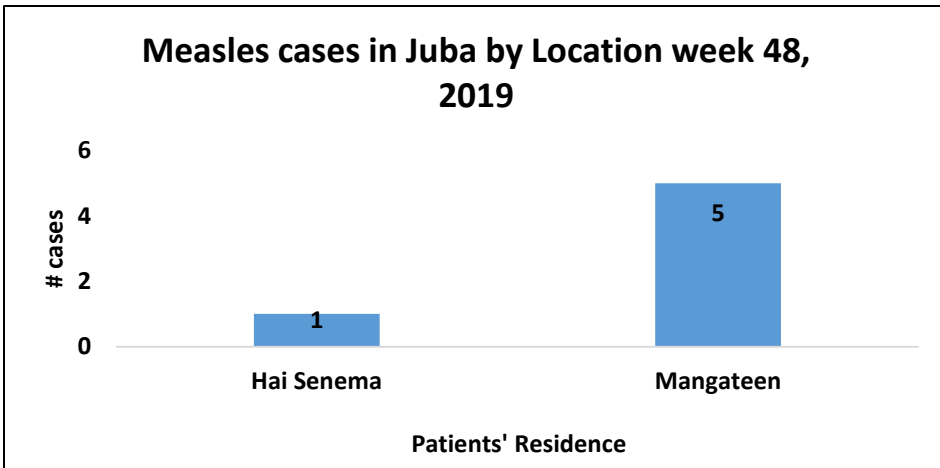
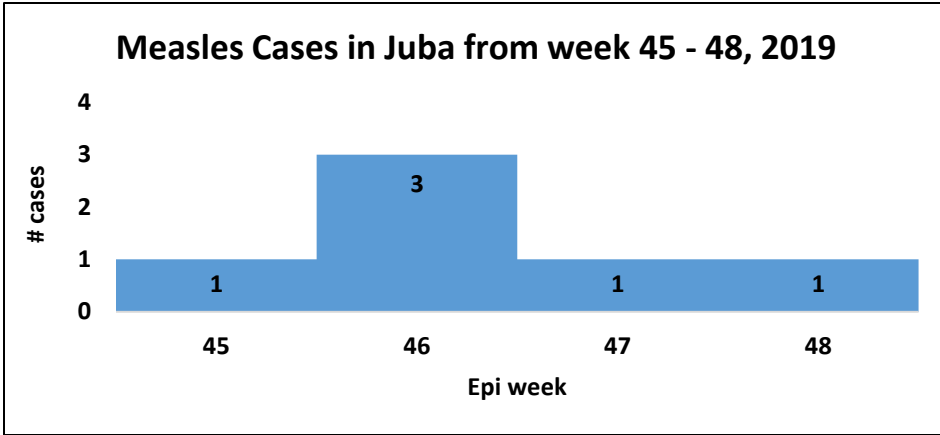
- Initial cases were reported on 1th November 2019
- A total of 131 Suspected Measles case have been line listed in Maban county
- 07 new cases were reported in week 03, 2020
- 12 samples were collected of which, 11 samples tested positive for measles and (1) positive for Rubella IgM
- The most affected payams are: Sheeta and Gasmalla
- 76% of the cases are less than 5 years of age
- 45% of cases are females while 55% are male
- No deaths reported

Response and Recommendations:

- Rapid response team deployed to support the response
- Reactive campaign micro plan has been developed pending phase 2 mass campaign
- Surveillance and line-listing are ongoing
- Case management underway
- SMoH, MSF-B are conducting a reactive campaign from 4th Dec, targeting 7394 children age 6 months to 15 years in the affected areas in Maban.

Age group	Cases	Percentage	Cum. %
0 - 4 Years	100	76%	76%
10 - 14 Years	9	7%	83%
5 - 9 Years	14	11%	94%
15+ Year	8	6%	100%
Grand Total	131	100%	

Confirmed Measles Outbreak in Juba County / Mangateen IDP Camp



Descriptive Epidemiology:

- Initial cases were reported on 11th November 2019
- A total of 06 suspected measles case have been in Juba county since week 45 of 2019.
- 01 new cases were reported in week 48, 2019
- 04 samples were collected and all tested positive for measles IgM
- The most affected payam is Mangateen
- 83% of the cases are less than 5 years of age
- 17% of cases are females while 83% are male
- No deaths were reported

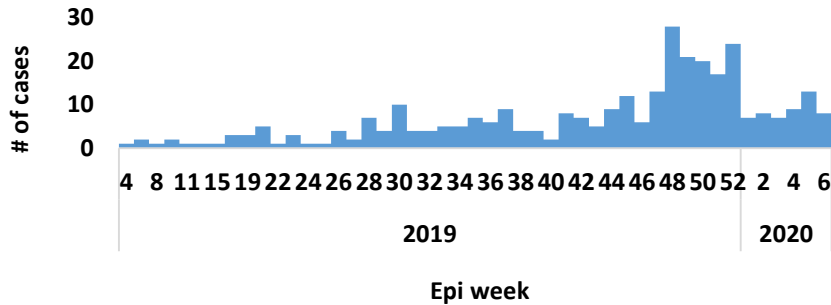
Response and Recommendations:

- Rapid response team deployed to support the response
- Micro plan has been developed, campaign will wait for the mass measles campaign in February.
- Surveillance and line-listing are ongoing
- Case management underway

Age-Group	Cases	Percentage	Cum. %
0 - 4 Years	5	83%	83%
5 - 9 Years	1	17%	100%
Grand Total	6	100%	

Confirmed Measles and Rubella outbreak in Bentiu PoC

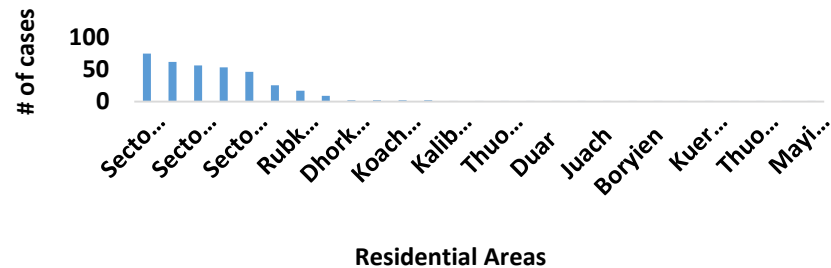
Measles cases in Bentiu from week 4, 2019 to week 6, 2020



Epidemiological description

- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019.
- 10 new cases reported in week 06, 2020
- At least 364 measles cases including 1 death (CFR 0.3%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive.
- 46% of cases are female and 54% are male
- 95% are under 5 yrs old, 5% are 5 yrs old and above
- Cases have been reported from inside and outside the PoC with most of the cases originating from the PoC (most cases from sector 5 but generally all the sectors are affected).

Measles cases in Bentiu by Location from 2018 to 2020.

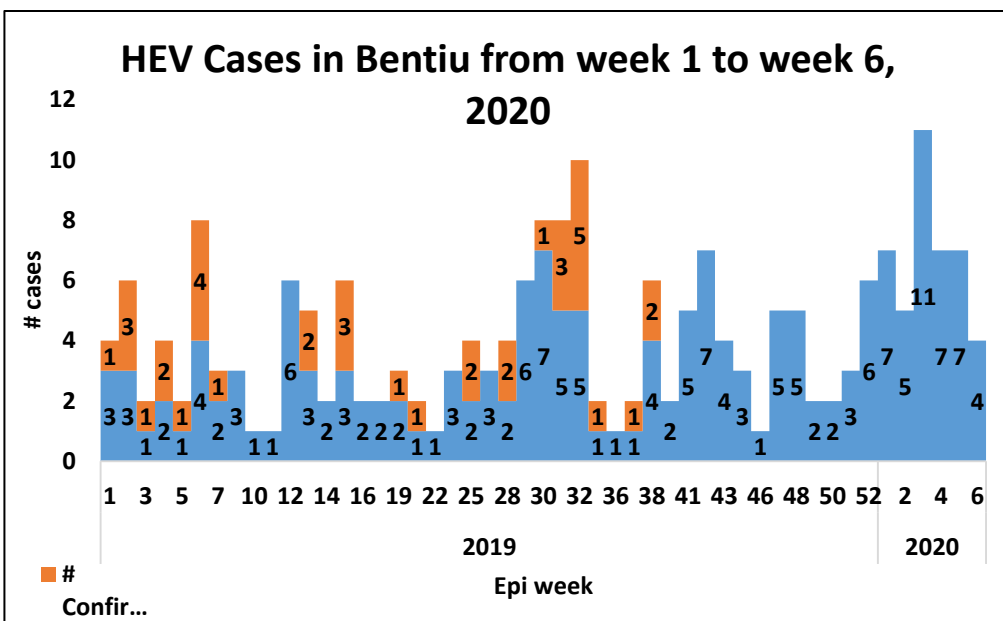


Response actions

- IOM completed a reactive campaign in Bentiu POC on 31 May 2019. with 21,285 children 6-59 months (126%) receiving measles vaccination. PCE was done by MoH & WHO, coverage was 74.6%.
- Another campaign was conducted by SMOH, IOM and partners which was completed during the week of 20th January 2020, coverage of 126%.

Age Group	Cases	Percentage	Cum. %
0 - 4 Years	346	95%	95%
5 - 9 Years	11	3%	98%
10 - 14 Years	5	1%	99%
15+ Years	2	1%	100%
Grand Total	364	100%	

Hepatitis E, Bentiu PoC



Recommended actions

- Supportive case management guided by the HEV protocol is ongoing
- Social mobilization to raise awareness on modes of transmission, symptoms and where to seek for care
- Case identification and follow up in the communities is ongoing
- The other WASH interventions entail provision of safe water and water quality surveillance along the water chain

Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 171 cases since beginning of 2019
- There were (07) cases reported in week 05 & (04) case in week 06, 2020.
- All the cases were managed as outpatient cases except for seven cases who were admitted
- Two deaths one on 12th, April 2019 and the second on 11th July 2019
- 49% out of the cases are male.
- Age group less than 15 years had the most cases with (73%) cases.
- At risk of adverse outcomes when infected in the 3rd trimester of pregnancy
- Use of unsafe drinking water likely to be source of infection
- Up to week 6, 2020; there were 169 cases of HEV in Bentiu PoC including 2 deaths (CFR 0.13%)

Age-Group	Alive	Dead	Grand Total	Percentage	CFR	Cum. %2
1 - 4 Years	56	0	56	33%	0%	33%
10 - 14 Years	28	0	28	16%	0%	49%
15+ Years	45	1	46	27%	2%	76%
5 - 9 Years	40	1	41	24%	2%	100%
Grand Total	169	2	171	100%	0.01	

EBOLA VIRUS DISEASE[EVD] PREPAREDNESS IN SOUTH SUDAN

Brief on the Ebola situation in DR Congo and updates on EVD preparedness in South Sudan

Ebola update DRC 11 February 2020

Current situation

- Currently as of **09 February 2020**
- **3431** Cases [3308 confirmed & 123 probable]
- **2253** Deaths [2159 confirmed & 94 probable]

Response update

- 1 August 2019 marked one year since the Government of the Democratic Republic of the Congo declared the Ebola outbreak

Affected health zones

- In the past 21 days (20 January to 9 February 2020), 13 new confirmed cases were reported from four of the 30 health areas in two active health zones in North Kivu Province: Beni (92%; n=12) and Mabalako (8%; n=1) Health Zones

Ebola preparedness in South Sudan

EVD preparedness activities undertaken in South Sudan

- South Sudan, as a priority one (1) country for Ebola virus disease outbreak (EVD) preparedness continues to make progress to enhance capacities for EVD case detection, investigation, response, and prevention.
- The national Ebola taskforce continues to meet twice weekly and is coordinating the implementation of the EVD contingency plan. The Ebola taskforce working groups have finalized the EVD contingency plan for the next six months of EVD preparedness and readiness in the country.
- Detailed preparedness update can be accessed <https://www.afro.who.int/publications/weekly-update-ebola-virus-disease-evd-preparedness-south-sudan>

This bulletin is produced by the Ministry of Health with Technical support from WHO

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Notes

WHO and the Ministry of Health gratefully acknowledge the surveillance officers [at state, county, and health facility levels], health cluster and health pooled fund (HPF) partners who have reported the data used in this bulletin. We would also like to thank ECHO and USAID for providing financial support.

The data has been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at <http://ewars-project.org>

