

South Sudan

Integrated Disease surveillance and response (IDSR)

Epidemiological Bulletin Week 20 of 2020 (May 11- May 17)





- In week 20, 2020 IDSR reporting both completeness and timeliness were 66% at health facility level. EWARN reporting both completeness and timeliness were 79%
- Of the 112 alerts in week 20, 2020; 17% were verified 0% were risk assessed and 0% required a response. Malaria (18), AWD (22), measles (8), ARI (30) and bloody diarrhea (25) were the most frequent alerts in week 20, 2020
- New measles cases confirmed in Wau and Bentiu PoC are being responded to through enhanced surveillance and routine immunization.
- A total of 260 COVID-19 alerts have been investigated with 245 (94%) being confirmed for COVID-19.



SURVEILLANCE PERFORMANCE



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



IDSR timeliness & completeness performance at county level for week 20 of 2020



Completeness States Ranking	States	Supporting Partners	Total No. of Functional Health Facilities in the State	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of Time	Completeness Percentage
1st	CES	HLSS, SSUHA, Healthnet TPO, IHO, GOAL, TRI-SS, THESO	117	105	90%	105	90%
2nd	Unity	Cordaid, UNIDOR, IRC, CHADO, CARE International, CRADA, CASS	91	76	84%	76	84%
3rd	Warrap	GOAL, CCM, WVI, Malaria Consortium, UNKEA, Save the Children, MSF	120	92	77%	92	77%
4th	NBGZ	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	130	92	71%	92	71%
5th	EES	Cordaid, HLSS, CCM	146	103	71%	103	71%
6th	Upper Nile	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID	115	78	68%	78	68%
7th	Jonglei	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDA, CRADA, Malaria Consortium, CMA	150	100	67%	100	67%
8th	Lakes	Doctors with Africa (CUAMM), LIVEWELL	113	73	65%	73	65%
9th	WBGZ	Cordaid, Healthnet TPO, CARE International, IOM	76	36	47%	36	47%
10th	WES	AMREF, World Vision, CUAMM, CDTY, OPEN	213	88	41%	88	41%
	South Sudan		1271	843	66%	843	66%

KEY

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

Both timeliness and completeness of IDSR reporting (supported by EWARS mobile) at health facility level were 66%. Two states were above the target of 80% with highest reporting rate in CES with completeness of 90%.

IDSR timeliness & completeness performance at county level for week 20 of 2020 (1)



STATE	COUNTY	SUPPORTING PARTNER	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Lakes	Wulu	Doctors with Africa (CUAMM)	14	14	100%	14	100%
Lakes	Awerial	Doctors with Africa (CUAMM)	7	7	100%	7	100%
CES	Terekeka	HealthNetTPO	20	20	100%	20	100%
CES	Juba	HLSS	42	40	95%	40	95%
Lakes	Cueibet	Doctors with Africa (CUAMM)	15	14	93%	14	93%
Lakes	Yirol West	Doctors with Africa (CUAMM)	12	11	92%	11	92%
Lakes	Rumbek Centre	Doctors with Africa (CUAMM)	23	21	91%	21	91%
NBGZ	Aweil South	Malaria Consortium(MC),IHO	9	8	89%	8	89%
CES	Kajo Keji	SSUHA,GOAL,TRI-SS	16	14	88%	14	88%
WBGZ	Raja	HealthNetTPO	14	12	86%	12	86%
CES	Yei	SSUHA	17	14	82%	14	82%
NBGZ	Aweil North	HealthNetTPO,IHO	33	27	82%	27	82%
CES	Lainya	SSUHA	16	13	81%	13	81%
NBGZ	Aweil Centre	Malaria Consortium(MC)	15	12	80%	12	80%
CES	Morobo	SSUHA,THESO	5	4	80%	4	80%
WBGZ	Wau	Cordaid	27	18	67%	18	67%
NBGZ	Aweil East	IRC,TADO	36	23	64%	23	64%
NBGZ	Aweil West	HealthNetTPO	37	22	59%	22	59%
Lakes	Rumbek North	Doctors with Africa (CUAMM)	7	2	29%	2	29%
Lakes	Yirol East	Doctors with Africa (CUAMM),LIVEWELL	11	3	27%	3	27%
WBGZ	Jur River	Cordaid	35	6	17%	6	17%
Lakes	Rumbek East	Doctors with Africa (CUAMM)	24	1	4%	1	4%

STATE	COUNTY	SUPPORTING PARTNER	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Unity	Abiemnhom	Cordaid	4	4	100%	4	100%
Unity	Pariang	CARE International	11	11	100%	11	100%
Unity	Mayendit	CASS	12	12	100%	12	100%
WES	Mundri West	CUAMM	21	21	100%	21	100%
WES	Mundri East	CUAMM	19	18	95%	18	95%
Unity	Panyijjar	IRC	15	14	93%	14	93%
Unity	Leer	UNIDOR	11	10	91%	10	91%
Unity	Mayom	CASS	9	8	89%	8	89%
WES	Maridi	AMREF	26	23	88%	23	88%
Unity	Koch	CRADA,IRC.	5	4	80%	4	80%
Unity	Rubkona	Cordaid,IRC,IOM,MSF	15	12	80%	12	80%
WES	Ezo	World Vision International	27	14	52%	14	52%
WES	Ibba	AMREF	11	5	45%	5	45%
WES	Mvolo	CUAMM	11	2	18%	2	18%
WES	Nzara	World Vision International	20	3	15%	3	15%
Unity	Guit	CHADO	7	1	14%	1	14%
WES	Tambura	World Vision International	26	2	8%	2	8%
WES	Nagero	World Vision International	10	0	0%	0	0%
WES	Yambio	World Vision International	42	0	0%	0	0%

IDSR timeliness & completeness performance at county level for week 20 of 2020 (2)



STATE	COUNTY	SUPPORTING PARTNER	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Jonglei	Pochalla	LIVEWELL	7	7	100%	7	100%
EES	Kapoeta South	CCM	10	10	100%	10	100%
Jonglei	Bor	MDM + JDF	35	34	97%	34	97%
EES	Magwi	HLSS	22	21	95%	21	95%
Jonglei	Ayod	CMD,EDA	15	14	93%	14	93%
Jonglei	Fangak	CMD,HFO	16	13	81%	13	81%
Jonglei	Duk	MDM + JDF	15	12	80%	12	80%
EES	Ikotos	HLSS	27	20	74%	20	74%
EES	Lopa Lafon	HLSS	18	13	72%	13	72%
Jonglei	Nyiroi	CMA,Malaria Consortium	10	7	70%	7	70%
EES	Torit	Cordaid	20	13	65%	13	65%
Jonglei	Pibor	LIVEWELL,CRAD A	5	3	60%	3	60%
EES	Budi	Cordaid	21	12	57%	12	57%
EES	Kapoeta East	CCM	12	6	50%	6	50%
EES	Kapoeta North	CCM	16	8	50%	8	50%
Jonglei	Twic East	MDM + JDF	11	5	45%	5	45%
Jonglei	Canal Pigi	IMC	11	5	45%	5	45%
Jonglei	Akobo	NILE HOPE	8	0	0%	0	0%
Jonglei	Uror	Nile Hope,Malaria Consortium	8	0	0%	0	0%

STATE	COUNTY	SUPPORTING PARTNER	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Warrap	Abyei	AAA,Save the Children,MSF	10	10	100%	10	100%
Warrap	Tonj North	CCM	14	14	100%	14	100%
Warrap	Tonj South	CCM	12	12	100%	12	100%
Upper Nile	Renk	WVI + RI	14	13	93%	13	93%
Warrap	Tonj East	CCM	12	11	92%	11	92%
Upper Nile	Longechuk	RI	9	8	89%	8	89%
Upper Nile	Melut	WVI + RI	8	7	88%	7	88%
Warrap	Gogrial West	GOAL	31	26	84%	26	84%
Upper Nile	Fashoda	CORDAID	14	11	79%	11	79%
Upper Nile	Maban	WVI + RI	16	12	75%	12	75%
Warrap	Twic	GOAL	26	19	73%	19	73%
Upper Nile	Luakpiny Nasir	UNKEA,RI	26	11	42%	11	42%
Upper Nile	Maiwut	RI	10	4	40%	4	40%
Upper Nile	Ulang	UNKEA,RI	18	7	39%	7	39%
Upper Nile	Manyo	CORDAID	8	3	38%	3	38%
Upper Nile	Akoka	IMC	5	1	20%	1	20%
Upper Nile	Makal	IMC	8	1	13%	1	13%
Warrap	Gogrial East	GOAL	15	0	0%	0	0%
Upper Nile	Baliet	IMC	5	0	0%	0	0%
Upper Nile	Panyikang	IMC	4	0	0%	0	0%



Surveillance: EWARS performance indicator by partner for week 20 of 2020

Partner	HF's	Reporting		Performance	
PARTER	# OF SITES	# of reports received on Time	No. of HF's Reported regardless of time	Timeliness	Completeness
IRC	1	1	1	100%	100%
Medair	2	2	2	100%	100%
UNIDOR	2	2	2	100%	100%
CMD	2	1	1	50%	50%
GOAL	2	1	1	50%	50%
HAA	4	4	4	100%	100%
HFO	1	1	1	100%	100%
HLSS	1	0	0	0%	0%
World Relief	2	2	2	100%	100%
SMC	6	5	5	83%	83%
MDM	10	10	10	100%	100%
IMA	9	7	7	78%	78%
UNH	2	2	2	100%	100%
IOM	12	10	10	83%	83%
MSF-E	6	4	4	67%	67%
IMC	5	3	3	60%	60%
TRI-SS	2	1	1	50%	50%
RHS	3	1	1	33%	33%
TOTAL	72	57	57	79%	79%

Both Completeness and timeliness was 88% for weekly reporting in week 20, 2020 for partner-supported clinics serving IDP sites.

EVENT-BASED SURVEILLANCE



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





State	Acute jaundice syndrome	Acute Respiratory Infections (ARI)	Acute Watery Diarrhoea	AFP	Bloody Diarrhoea	Malaria (Confirmed)	Measles	Neonatal Tetanus	Cholera	Guinea Worm	Total alerts
CES		1	2			1	1				5
EES			6	1	2	4	1		1		15
Jonglei		5	3		3	1	1				13
Lakes		3									3
NBGZ		2	4		7	1	2				16
Unity	1	3	1		3		1	1			10
Upper Nile		7	1		4	2		1		1	16
Warrap	1	2	1	1	5	1	2				13
WBGZ		3	1		1	2					7
WES	1	4	3			6					14
Total alerts	3	30	22	2	25	18	8	2	1	1	112

During this week:

3 AJS alert: All are undergoing verification

30 ARI: all are undergoing verification.

22 AWD alert: all are undergoing verification.

25 ABD: 24 undergoing verification,1 been monitored,4 in response

18 Malaria alerts: 27 undergoing verification, 1 under monitoring

8 Measles alert: 8 undergoing verification.

2 Neonatal Tetanus alerts: undergoing verification

1 Guinea Worm alert: 1 under monitoring

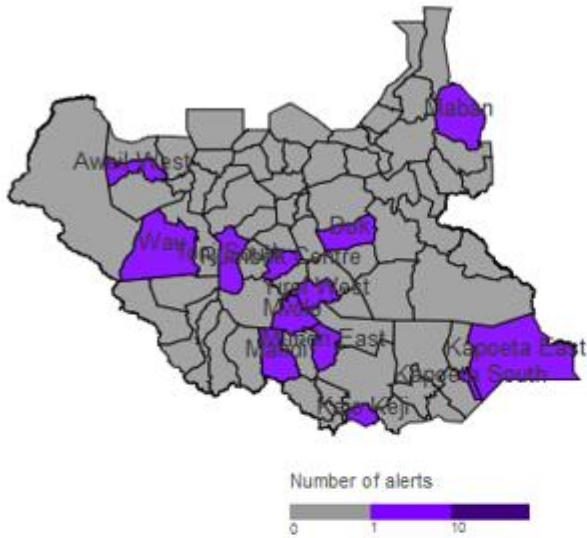
1 Cholera alert: undergoing verification

2 AFP alert: undergoing verification

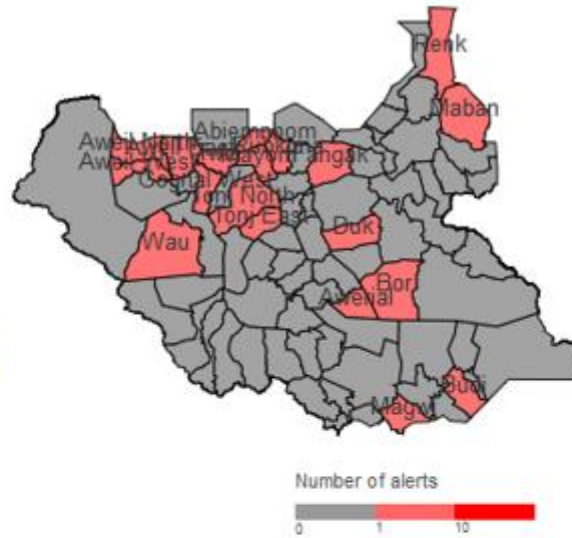
Alert: Map of key disease alerts by county of week 20 of 2020



Map 2a | Malaria (W20 2020)

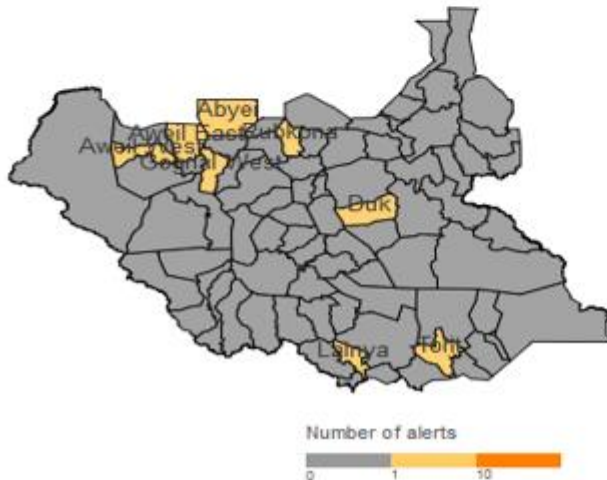


Map 2b | Bloody diarrhoea (W20 2020)



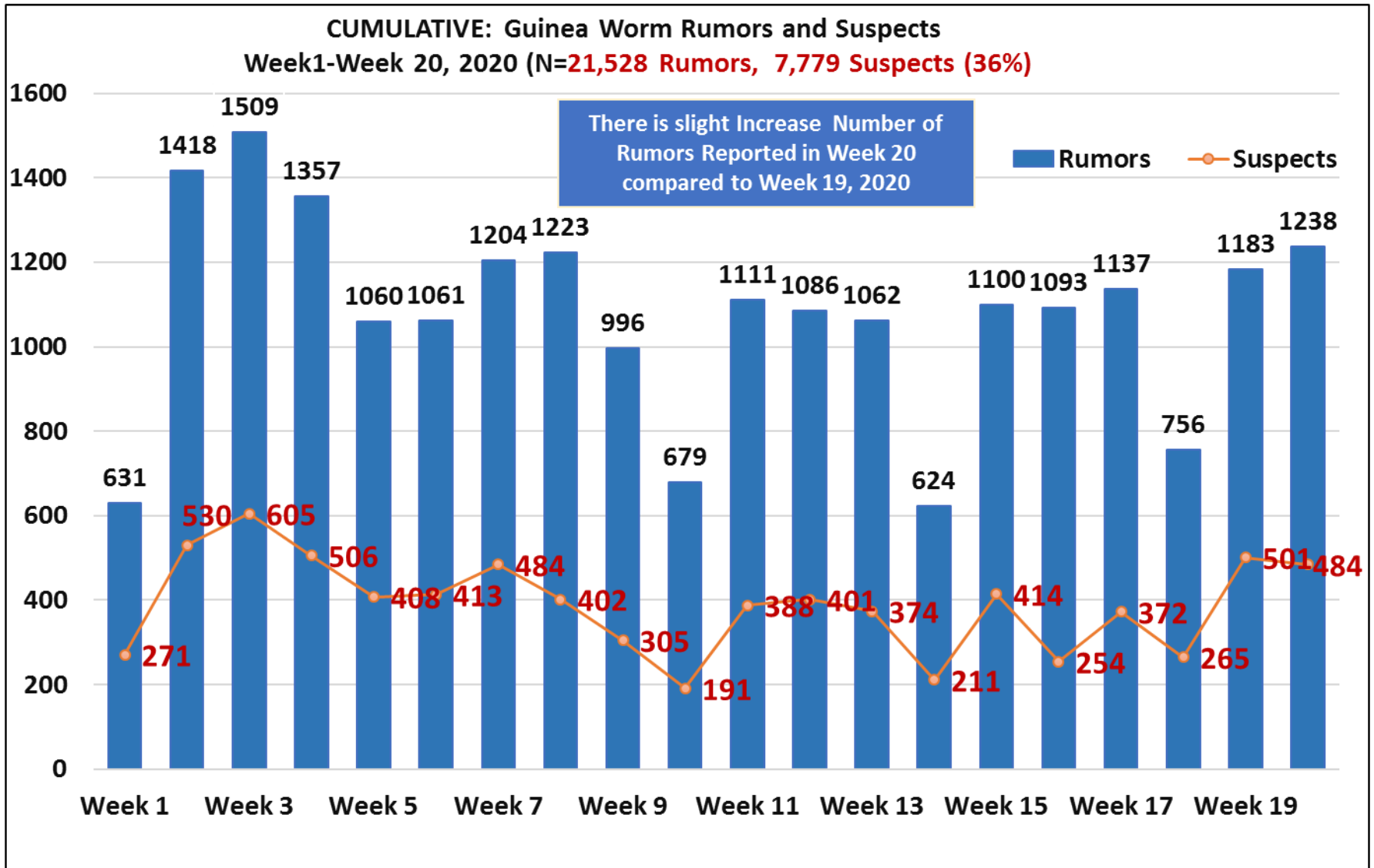
W20		Cumulative (2020)	
0	6	Low risk	
3	3	Medium risk	
0	24	High risk	
0	49	Very high risk	
17%	74%	% verified	
0%	0%	% auto-discarded	
0%	2%	% risk assessed	
0%	2%	% requiring a response	

Map 2c | Measles (W20 2020)



Map 2e | Guinea Worm (W20 2020)



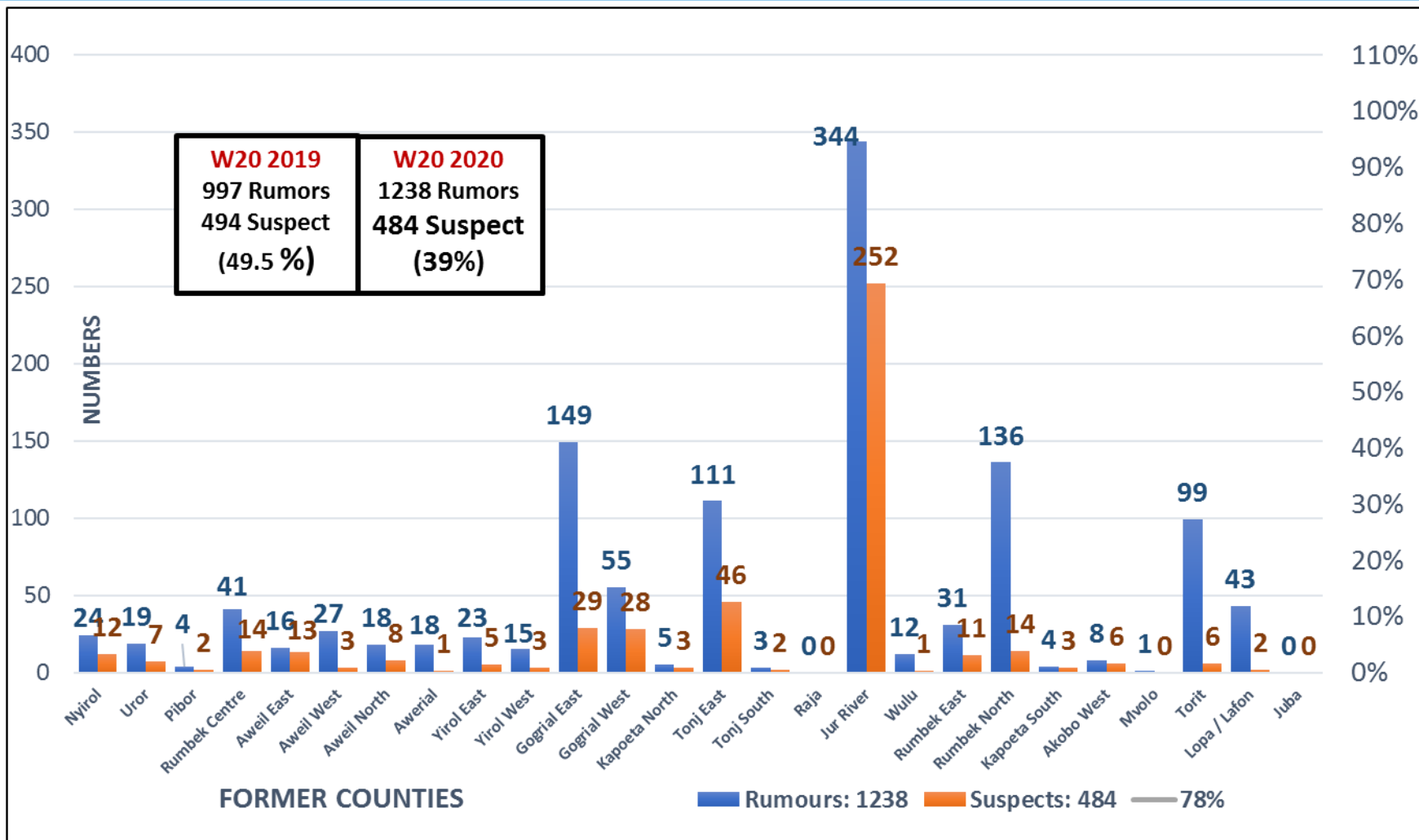


There is slight Increase in the Number of Rumors reported in Week 20 Compared to Week 19.





Former Counties that reported Rumors, and Suspects during 10th -16th May 2020 (20th Week) (n=32)



The Reporting Rate for Week 20 Stands at 78%



ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS



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





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	303 (0.013)	Yes	No	Yes	Yes
Measles	Bentiu PoC	24/04/2019	4	455 (0.008)	Yes	Yes	Yes	N/A
Measles	Aweil East	29/12/2019	17	664 (0.127)	Yes	No	Yes	N/A





● Measles outbreaks confirmed in 2020

- 5 counties – Tonj East, Magwi, Bor, Kapoeta East and Tonj South
- Locations with ongoing measles transmission
 - Aweil East
 - Bentiu PoC
- New confirmed outbreak
 - Confirmed measles cases in Wau
 - Bentiu PoC



Measles Outbreak situation & response by county as of week 20, 2020

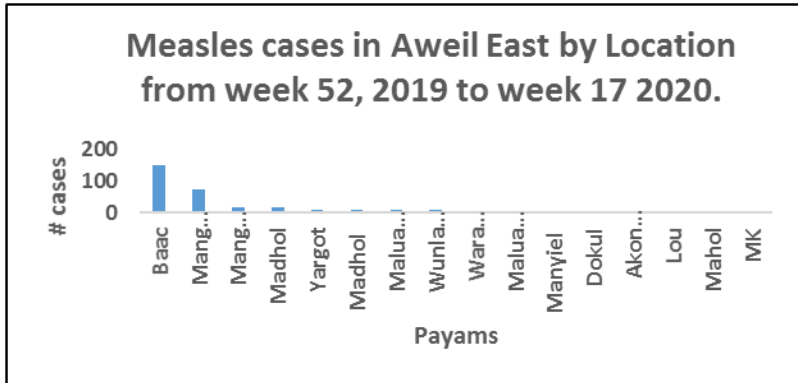
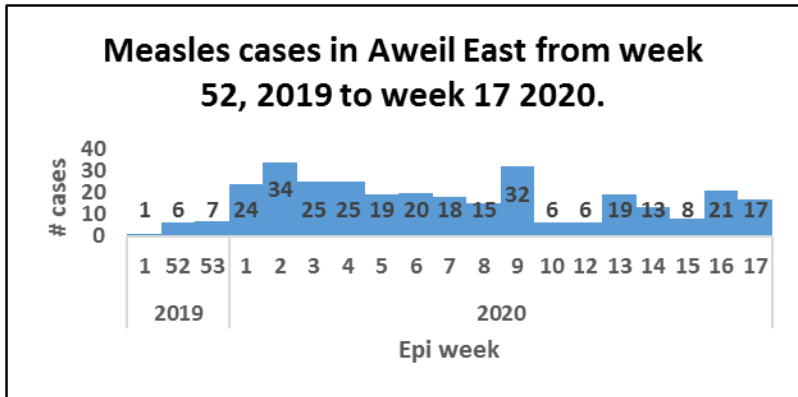


S/N	County	Population	Confirmed cases	Probable cases	Total cases	Cases per 100,000	Total deaths	CFR %	Date first reported	Emergency Campaign	Admin Coverage	Implementing Partner	Status	Comments
1	Tonj East	183,233	13	48	61	33.3	0	0	12-Dec-19	Mass Campaign	Pending result	Mass Campaign	controlled	Mass Campaign Completed
2	Magwi	272,880	5	5	10	3.7	0	0	19-Sep-19	Mass Campaign	Pending result	Mass Campaign	controlled	Mass Campaign Completed
3	Bor	320,956	7	7	14	4.36	0	0	17-Jan-19	Mass Campaign	115.60%	Mass Campaign	controlled	Mass Campaign Completed
4	Kapoeta East	262,720	6	10	16	6.1	0	0	18-Jan-20	Reactive Campaign (Jebel Boma)	Reactive Campaign to start on 26 Feb 2020	IRC	active	Reactive Campaign completed in March 2020
5	Aweil East	519,537	16	195	303	39.4	0	0	2-Jan-20				active	Reactive campaign started on 22 June 2020
6	Bentiu POC	115,479			455	83	2	2	1-Jan-19	Reactive campaign	126%	IOM	Active	Reactive campaign 20 Jan 2020
7	Wau	271,975	3	0	22	8.1	0	0	14-Jan-20	Enhanced routine immunization	N/A		Active	Enhanced surveillance
Total		1,427,243	50	265	881	61.6	2	0.23						





Confirmed Measles Outbreak in Aweil East County



Age group	Cases	% Cases	Cum. %
0 - 4 Years	160	51%	51%
15+ Years	66	21%	72%
5 - 9 Years	49	16%	87%
10 - 14 Years	41	13%	100%
Grand Total	316	100%	

Descriptive Epidemiology:

- Initial cases were reported on 2nd Jan 2020
- A total of 316 suspected measles cases have been line listed in Aweil East county
- Majority of the cases were from Baac and Mangartong payams
- 17 new cases were reported in week 17, 2020
- (160) 51% of the cases are less than 5 years of age
- Male were 56% of cases and female were 44%

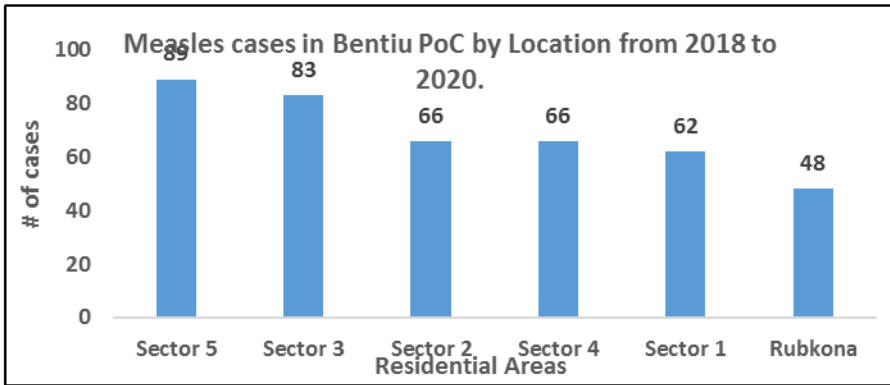
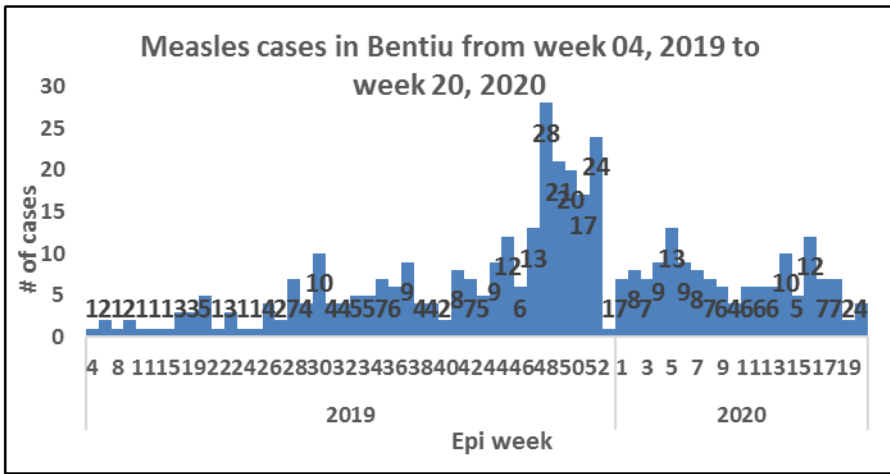
Response Recommendation:

- Reactive campaign was finalized in Aweil East on 24th January 2020 by SMOH and IOM, coverage was 119% and PCE coverage was 91.5%.
- Plans is ongoing for second reactive campaign to target children under five years of age since they are more vulnerable to death from measles.





Confirmed Measles Outbreak in Bentiu PoC



Age Group	Cases	Percentage	Cum. %
0 - 4 Years	431	95%	95%
5 - 9 Years	14	3%	98%
10 - 14 Years	7	2%	99%
15+ Years	3	1%	100%
Grand Total	455	100%	

Epidemiological description

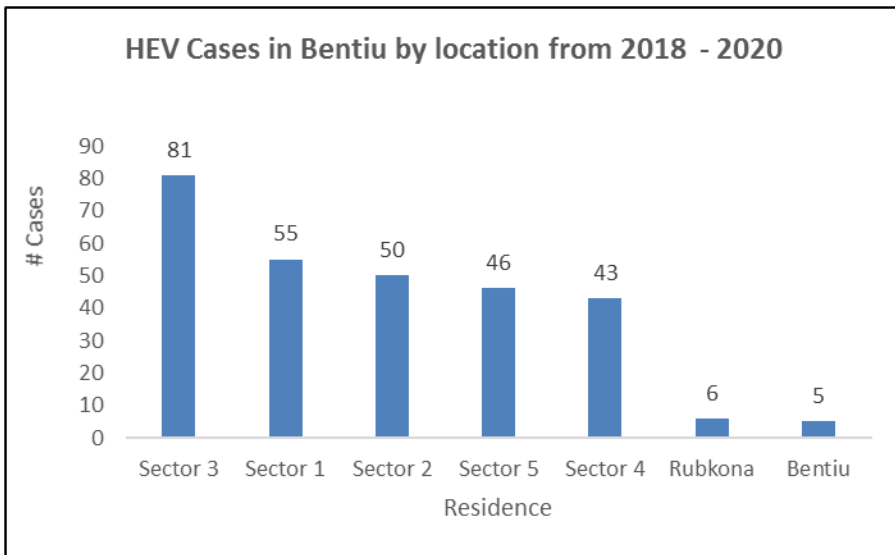
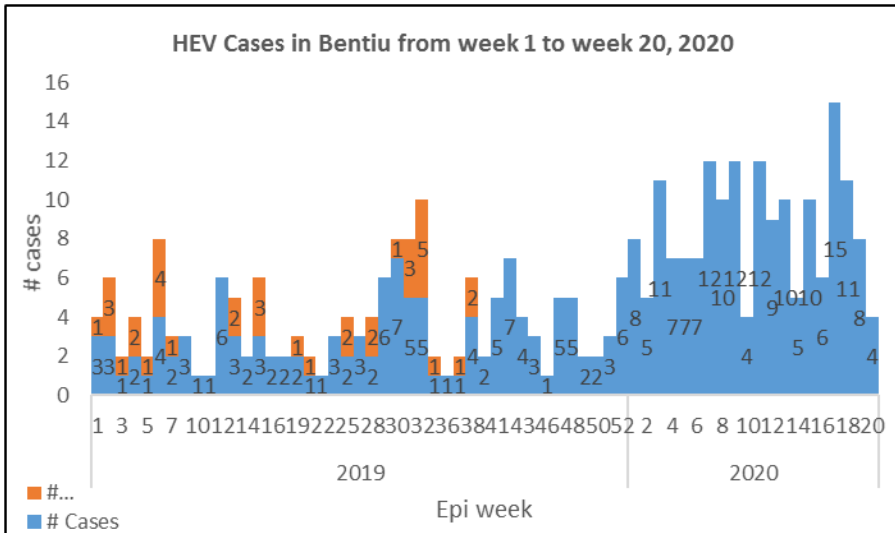
- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019.
- 4 new cases reported in week 20, 2020
- At least 455 measles cases including 1 death (CFR 0.23%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive.
- 47% of cases are female and 53% 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).

Response actions

- Several rounds of reactive campaigns were conducted in Bentiu by IOM:
 - First reactive campaign was on 31 May 2019, with 21,285 children 6-59 months and coverage of 126% receiving measles vaccination. PCE was done by MoH & WHO, coverage was 74.6%.
 - Second campaign was conducted by SMOH, IOM and partners which was completed during the week of 20th January 2020 with coverage of 126%.
 - Partners advised to strengthen routine immunization and case management



Hepatitis E, Bentiu PoC (1)



Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 303 cases since beginning of 2019
- There were (4) new cases reported in week 20, 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
- 50% are female and 50% are male.
- Age group less than 15 years had the most cases with (76%) 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 19, 2020; there were 297 cases of HEV in Bentiu PoC including 2 deaths (CFR 0.72%)

Age-Group	Alive	Dead	Grand Total	Percentage	CFR	Cum. %2
1 - 4 Years	103	0	103	34%	0%	34%
10 - 14 Years	49	0	49	16%	0%	50%
15+ Years	73	2	75	25%	3%	75%
5 - 9 Years	75	1	76	25%	1%	100%
Grand Total	300	3	303	100%	0.01	



Recommendations

- Supportive case management guided by the HEV protocol is ongoing
- KEV messages on HEV prevention should continue within the community through HPs, CHWs and Kondial Radio
- With current COVID -19 Pandemic Outbreak, WASH partners to increase the coverage of hand washing facilities within the PoCs community.
- Other Wash intervention like increasing the access for clean water and improving the water storage in the affected individuals should be made urgently by distributing the water storage containers that will be the only way to mitigate this problem and stop the HEV outbreak.
- The WASH Cluster/HEV task force should engage in group discussion with Community leaders and woman group at water distribution points to understand their opinions on issue of Collapsing Jerrycans distribution.
- Monitoring the FRC levels at the taps stands in the different sectors, and the concentration of chlorination should maintain at 0.5-1mg/L as the point of collection





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
Controlled epidemics								
Measles	Juba	21/11/2019	NR	6(0.1667)	Yes	No	Yes	N/A
Measles	Tonj East	12/12/2019	NR	61(0.98)	yes	Yes	Yes	N/A
Measles	Bor	17/01/2020	NR	14(0.214)	yes	No	yes	N/A
Measles	Jebel Boma	10/12/2019	NR	96(0.063)	yes	No	Yes	N/A
Measles	Kapoeta East	18/01/2020	NR	16(0.625)	yes	No	Yes	N/A



EBOLA VIRUS DISEASE[EVD] PREPAREDNESS IN SOUTH SUDAN



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





Current situation

- Currently as of 25th May 2020
- 3463 Cases [3317 confirmed & 146 probable]
- 2280 Deaths [2186 confirmed & 94 probable]

Response update

- From 11 to 17 May 2020, there have been no new confirmed cases of Ebola virus disease (EVD) reported in Democratic Republic of the Congo



Novel Coronavirus





Situation update as of 18th May, 2020

Situation in numbers (by WHO Region)

Total (new cases in last 24 hours)

Globally	4 618 821 cases (93 324)	311 847 deaths (4 452)
Africa	61 163 cases (2 500)	1 748 deaths (38)
Americas	2 017 811 cases (50 879)	121 609 deaths (2 810)
Eastern Mediterranean	338 560 cases (11 992)	9 979 deaths (138)
Europe	1 890 467 cases (19 922)	167 173 deaths (1 222)
South-East Asia	141 593 cases (7 062)	4 582 deaths (231)
Western Pacific	168 515 cases (969)	6 743 deaths (13)

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



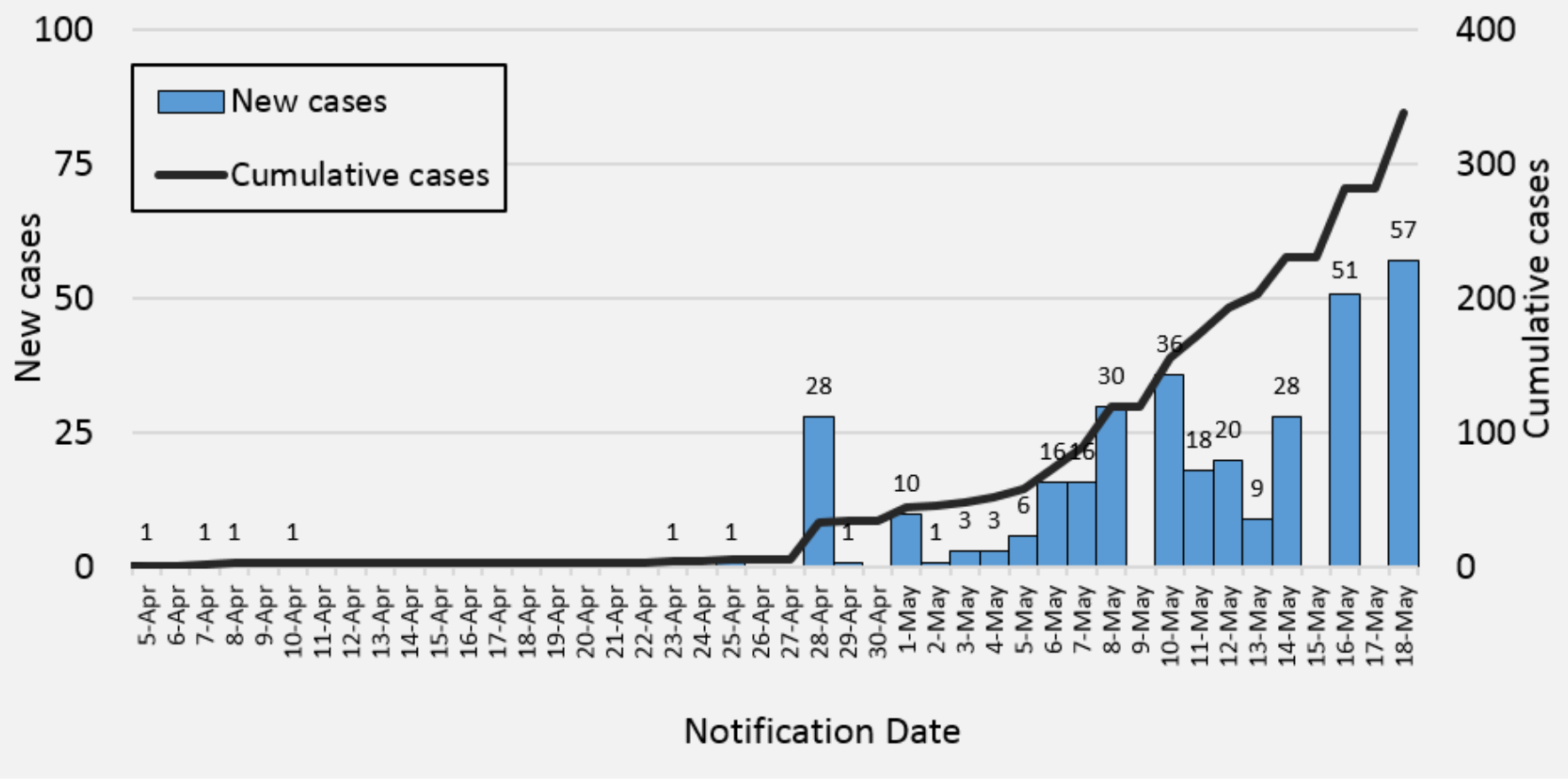
COVID-19 Response in South Sudan

- 339 confirmed COVID-19 cases in South Sudan; with 1,234 contacts identified, quarantined, & undergoing follow up
- Active surveillance is ongoing to determine if there is active transmission in Juba and surrounding areas.
- The ILI/SARI sentinel sites have been expanded from 10 to 45 in Juba
- Implementation of priorities; risk communication; active case search and testing; quarantine for contacts; infection prevention and control; and management of cases are currently underway
- The overall response currently led by the COVID-19 high level taskforce and the COVID-19 steering committee



Trends of COVID-19 cases in South Sudan

Figure 1. New and cumulative confirmed COVID-19 cases by notification date



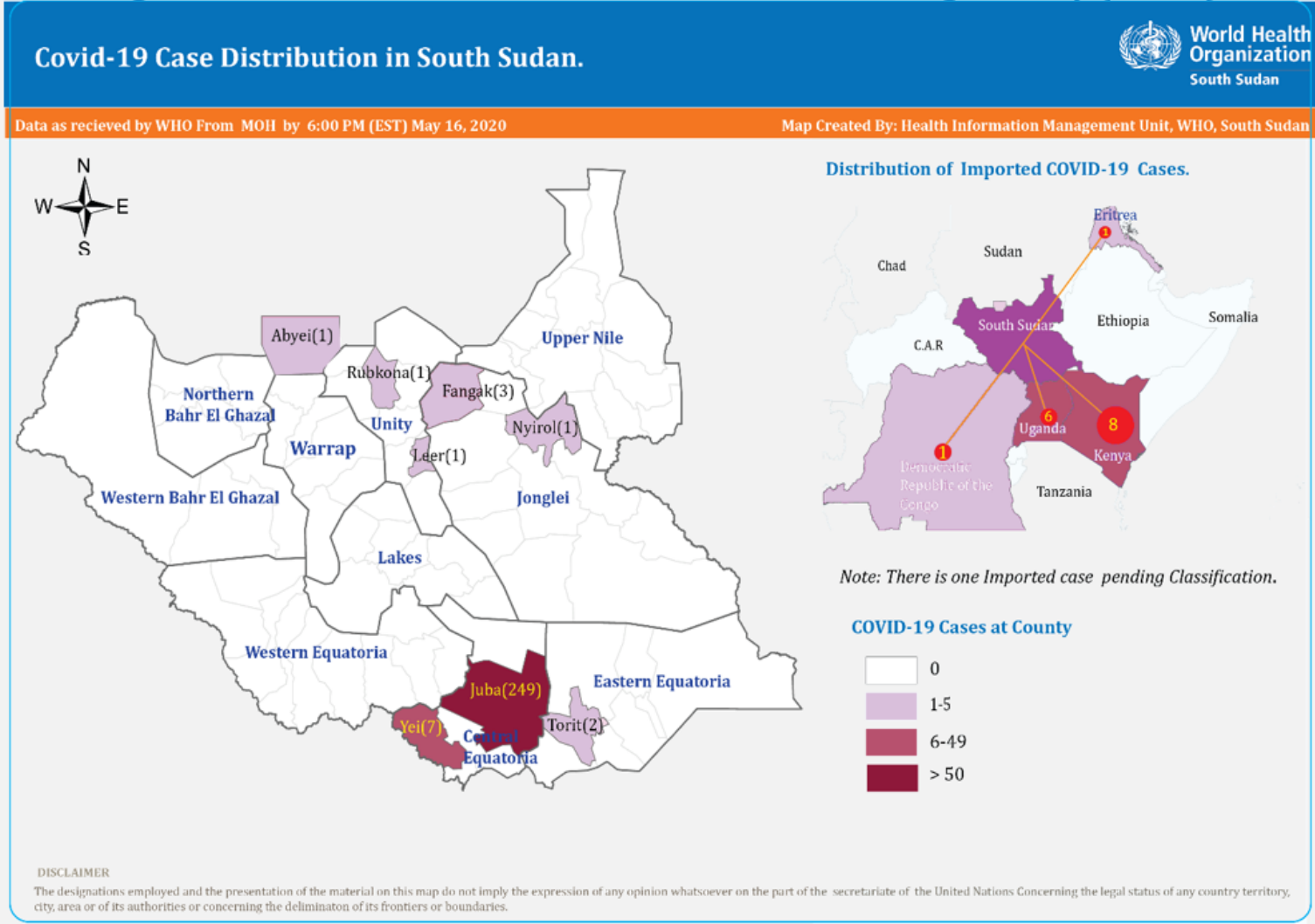
● COVID-19 cases increasing exponentially in the past 20 days



Distribution of COVID-19 cases in South Sudan



Figure 2. Distribution of confirmed COVID-19 cases through 17 May (n=282)



The majority of the cases have been reported in Juba

Overall Conclusions and Recommendations



Conclusion

- The overall IDSR and EWARN reporting performance in week 20, is below the target of 80%. Only 2 states were above 80%
- 231 COVID-19 cases confirmed and isolated. A total of 898 contacts identified, quarantined and under follow up.
- Cumulative total of alerts is 260, of these, 245 (94%) have been verified and samples were collected
- With five outbreaks confirmed in 2020; measles remains the most frequent vaccine preventable disease
- There are ongoing measles outbreaks in Wau; Bentiu PoC and Aweil East.
- Given the COVID-19 pandemic, it is critical that measures are stepped up to contain its spread.



Recommendations

- All partners should support CHDs & HF in Upper Nile and other states to improve IDSR/EWARN reporting
- Measles SIAs, routine immunization, surveillance & case management recommended in response to cases in Wau; Aweil East; & Bentiu PoC.
- Strengthen capacities for COVID-19 containment through identifying and testing suspect cases, isolating confirmed cases, and quarantining contacts



Thanks to the State Surveillance Officers, County Surveillance Officers and Health Facility in-charges for sharing the weekly IDSR data

Thanks to all partners for supporting IDSR weekly reporting and sharing the line lists

To access the IDSR bulletins for 2020 use the link below:

<https://www.afro.who.int/publications/south-sudan-weekly-disease-surveillance-bulletin-2020>



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For more help and support, please contact:

Dr. Pinyi Nyimol Mawien
Director General Preventive Health Services
Ministry of Health
Republic of South Sudan
Telephone: +211916285676

Mr. Mathew Tut M. Kol
Director, Emergency Preparedness and Response
Ministry of Health, RSS
Tell: +211916010382, +211922202028
Emails: tut1988@yahoo.com, greensouth2020@gmail.com
Skype: mathew19885

IDSr Bulletin Editorial Team

1. Mr. Ajak Ater, MoH - Email: ajakater014@gmail.com
2. Ms. Sheila Baya, WHO - Email: bayas@who.int
3. Mr. Robert Lasu Martin, WHO - Email: lasur@who.int
4. Mrs. Rose Dagama, WHO - Email: dagamaa@who.int
5. Dr. Abraham Adut, WHO - Email: abenegoa@who.int
6. Dr. Alice Igale Lado, WHO - Email: ladua@who.int
7. Dr. Joseph Wamala, WHO - Email: wamalaj@who.int
8. Dr. Argata Guracha Guyo, WHO - Email: guyo@who.int

Notes

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

