## South Sudan

Integrated Disease surveillance and response (IDSR)

Epidemiological Bulletin Week 25, 2021 (June 21- June 27)





- In week 25, 2021 IDSR reporting timeliness was 90% and completeness was 93% at health facility level and 91% for EWARS partners supported sites
- Of the 62 alerts in week 25, 2021; 81% were verified 5% were risk assessed and 5% required a response. Malaria (20), AWD (14), ARI (4), measles (0) and bloody diarrhea (18) were the most frequent alerts in week 25, 2021
- Malaria remains the top cause of morbidity and accounted for 55,219 cases (52.5% of OPD cases)
- Total 10 829 confirmed cases, including 337 imported cases, and 116 deaths (case fatality rate of 1.07%)
- Other hazards include floods (unseasonal) in over 4 counties; Malaria in 1 county, HEV in Bentiu PoC.

### **SURVEILLANCE PERFORMANCE**



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



#### IDSR timeliness performance at State level for week 25 & 24 of 2021



Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported on Time in WK 25	Timeliness Percentage of WK 25	No. of HFs Reported on Time in WK 24	Timeliness Percentage of WK 24
1st	WES	213	213	100%	212	100%
2nd	Warrap	123	119	97%	112	91%
3rd	Lakes	113	109	96%	109	96%
4th	Jonglei	112	106	95%	102	91%
5th	WBGZ	78	73	94%	67	86%
6th	CES	117	106	91%	100	85%
7th	EES	142	125	88%	128	90%
8th	NBGZ	133	113	85%	107	80%
9th	Unity	94	76	81%	75	80%
10th	Upper Nile	117	79	68%	87	74%
	South Sudan	1242	1119	90%	1099	88%
	KEY				_	

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

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level in week 25 was 90% compared to 88% in week 24. 9 states were above the target of 80% except for Upper Nile **Reporting challenges**: Insecurity, internet access and new partners

#### IDSR completeness performance at State level for week 25 & 24 of 2021

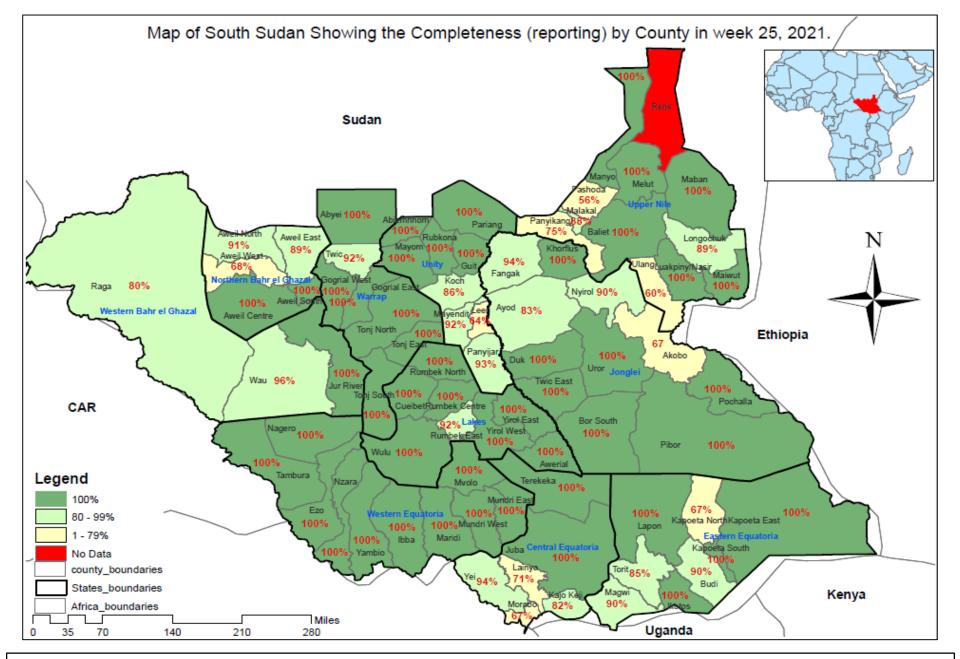
HAVI	
<b>PH</b>	

Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 25	Completeness Percentage of WK 25	No. of HFs Reported regardless of time in WK 24	Completeness Percentage of WK 24
1st	WES	213	213	100%	213	100%
2nd	Warrap	123	121	98%	112	91%
3rd	Lakes	113	110	97%	109	96%
4th	Jonglei	112	109	97%	108	96%
5th	WBGZ	78	74	95%	76	97%
6th	CES	117	108	92%	102	87%
7th	EES	142	130	92%	140	99%
8th	Unity	94	86	91%	90	96%
9th	NBGZ	133	114	86%	113	85%
10th	Upper Nile	117	85	73%	97	83%
	South Sudan	1242	1150	93%	1160	93%
	KEY					
				<60%	Poor	
				<b>61%-79%</b>	Fair	
				80%-99%	Good	

Completeness of IDSR reporting (supported by EWARS mobile) at health facility level was at 93% in week 25 compared to 93% in week 24. All states were above the target of 80%

100%

Excellent



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 Timeliness performance indicator by partner for week 25 of 2021



Partner	HFs	Reporting		Performance	
PARTER	Number of reporting sites	# of reports received on Time in Week 25	Timeliness of Week 25	# of reports received on Time in Week 24	Timeliness of Week 24
Medicair	2	2	100%	2	100%
World Relief	2	2	100%	2	100%
UNIDOR	2	2	100%	2	100%
ALIMA	3	3	100%	3	100%
CMD	1	1	100%	1	100%
IHO	2	2	100%	2	100%
HAA	6	6	100%	6	100%
IRC	1	1	100%	1	100%
SSHCO	1	1	100%	1	100%
HFO	2	2	100%	2	100%
UNH	2	2	100%	2	100%
IOM	12	12	100%	12	100%
TRI-SS	2	2	100%	2	100%
RHS	1	1	100%	1	100%
IMC	24	24	100%	24	100%
MSF-H	7	7	100%	5	71%
MSF-E	6	6	100%	4	67%
HFD	6	5	83%	5	83%
TADO	6	4	67%	4	67%
Medair	4	2	50%	2	50%
GOAL	2	0	0%	0	0%
TOTAL	94	87	93%	83	88%

Timeliness for EWARS partners supported sites was at 93% in week 25 compared to 88% in week 24, 2021

#### Surveillance: EWARS performance indicator by partner for week 25 of 2021



Partner	HFs	Reporting		Performance	
PARTER	Number of reporting sites	# of reports received regardless of Time in Week 25	Completeness of Week 25	# of reports received regardless of Time in Week 24	Completeness of Week 24
Medicair	2	2	100%	2	100%
World Relief	2	2	100%	2	100%
UNIDOR	2	2	100%	2	100%
ALIMA	3	3	100%	3	100%
CMD	1	1	100%	1	100%
IHO	2	2	100%	2	100%
HAA	6	6	100%	6	100%
IRC	1	1	100%	1	100%
SSHCO	1	1	100%	1	100%
HFO	2	2	100%	2	100%
UNH	2	2	100%	2	100%
IOM	12	12	100%	12	100%
TRI-SS	2	2	100%	2	100%
RHS	1	1	100%	1	100%
IMC	24	24	100%	24	100%
HFD	6	6	100%	5	83%
MSF-H	7	6	86%	4	57%
TADO	6	5	83%	5	83%
MSF-E	6	4	67%	4	67%
Medair	4	2	50%	2	50%
GOAL	2	0	0%	0	0%
TOTAL	94	86	91%	83	88%

Completeness for EWARS partners supported sites was at 91% in week 25 and 88% in week 24, 2021



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



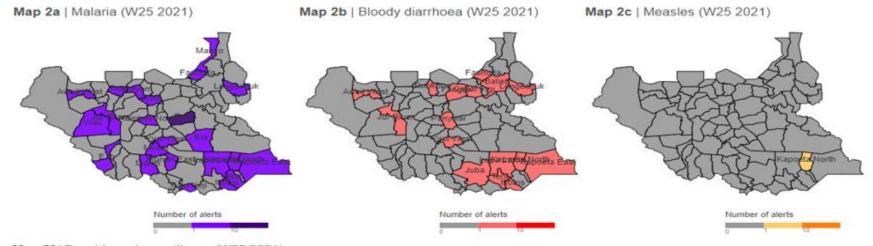
State	Acute jaundice syndrome	Acute Respiratory Infections (ARI)	Acute Watery Diarrhoea	Bloody Diarrhoea	Malaria	EBS	Covid-19	Total alerts
CES		2		1	1			4
EES			8	11	6	1		26
Lakes			1					1
Unity	2	2		2	2		2	10
Upper Nile			2	3	3			8
Warrap							1	1
WBGZ				1	4			5
WES			3		4			7
Total alerts	2	4	14	18	20	1	3	62

#### During this week:

- 4 ARI alerts: 3 from CES, Juba County, Rejaf, UN House PoC, IMC ER PoC 1, Mogiri PHCU, 3 from Unity State, Pariang, Yida Centre A PHCC, Biu PHCU,, 1 from Upper Nile, 2 from EES sample collected and tested positive for COVID-19.
- 14 AWD alerts: 1 from CES ,4 from EES, treated for diarrhea , 2 from Upper Nile State,, 2 from Unity treated for diarrhea, 1 from Warrap State , 2 from WBGZ State.
- 18 ABD alerts: 1 from CES, 5 from EES patients given treatment, 4 from Unity investigated, 2 from WES.
- 20 Malaria alerts:, 2 from EES, 5 from Unity, 5 from Upper Nile State, 1 from Warrap State, 2 from WBGZ, 8 from WES, all these are due to the high increase of malaria cases in the Country.
- 2 AJS alerts: 1 from CES and unity State has also triggered 1
- **3 COVID-19 alerts: 2** from Unity State, **1** from Warrap State Abyei, Rumamer, Juljok MSF Hospital tested positive and admitted in the isolation center
- 1 EBS alert: this is from EES, Torit county/ Nyong PHCC, the report was received from a CBS on sudden deaths
  of Pigs where there were 9 recorded deaths of the animals in one week time with unknow disease but
  investigation is ongoing.

#### Alert: Map of key disease alerts by county of week 25 of 2021





Map 2f | Event-based surveillance (W25 2021)



W25	Cumulative (2021)			
0	9	Low risk		
8	8	Medium risk		
0	51	High risk		
7	129	Very high risk		

81%	89%	% verified
0%	0%	% auto-discarded
5%	4%	% risk assessed
5%	3%	% requiring a response



# Major suspected outbreaks in South Sudan in 2020



\*

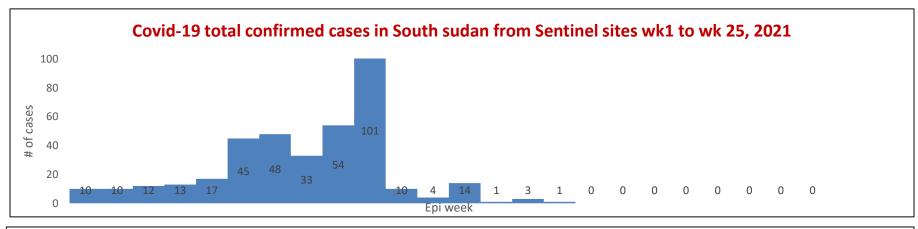
Malaria was the leading cause of morbidity and mortality, accounting for **55.2%** of all morbidities and **14.3%** of all Mortalities this week 25.

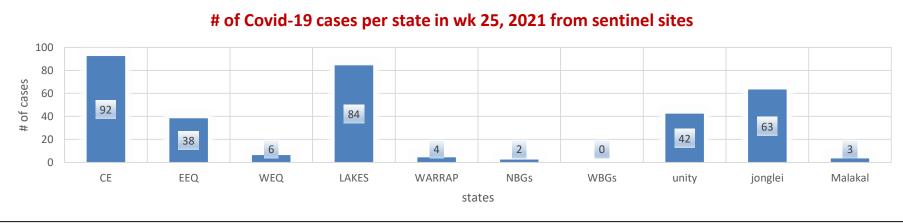
One County with malaria trends which have exceeded the threshold (third quartile of trends for the period 2013-2017)

1. WBGz State (Wau)

#### Proposed public health actions

- 1. Malaria taskforce of malaria technical working group meeting to ensure that operational readiness for malaria prevention, diagnosis, and treatment are optimized.
- 2. Field missions to conduct technical verification of the trends in the affected counties
- 3. Assessment of current stock levels of malaria diagnostics (RDTs), medicines (ACTs), and LLINs.
- 4. Stocking up on malaria prevention (LLINs), diagnostics (RDTs), medicines (ACTs), and enhancing behavioral change communication for malaria prevention, prompt investigation and initiation of treatment





- As of 28th April 2021, a total of 138 samples were collected from three sentinel sites in Juba with 131 samples testing negative for influenza; one (1) positive for COVID-19; and six (6) positive for influenza B (with four (4) sub-typed as Victoria while the other two (2) are pending sub-typing)
- There are currently 13 Covid-19 designated sentinel surveillance sites in Juba and States Hospitals that are collecting epidemiological data and samples from Covid-19/ILI/SARI cases. A total of 7715 samples have been collected in 2021 with 546 (7.0%) being positive for COVID-19 from sentinel sites.

# ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS



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



#### Update on floods and response

- The flooding forecast continues to be monitored. Rainfall forecast for 25 May to 1 June 2021 projects a moderate rainfall between 50 - 200 mm in western South Sudan (Western Bahr el Ghazal, Northern Bahr el Ghazal, Warrap and Western Equatorial states), parts of south-western Ethiopia and a few areas in central and western Kenya.
- Updating of flooding contingency planning and prepositioning of essential supplies including emergency health kits are underway.
- The locations affected by recent flooding include Ayod (25 000 people), Fangak (67 000 people) and Canal/Pigi (unknown).

#### \*

#### **Updates on Public Health Response**

- 1. Health partners continue to expand access to health services through the reestablishment of critical static primary health care and mobile service delivery across the six 'Priority 1'counties of Pibor, Akobo, Tonj East, Tonj South, Tonj North, and Aweil South
- 2. WHO secured 1.3 M USD from UN CERF for rapid response scale-up in Pibor and Akobo by supplementing the available funding for three responding partners. The support will go towards the provision of emergency obstetric and neonatal care, and integrated mobile outreaches in areas with critical response gaps.
- 3. Weekly trends of the top causes of morbidity and mortality are being monitored for potential upsurges and timely investigation. New reporting sites have been created for emergency partners who have begun response scale-up in Akobo, Tonj East, Tonj South and Aweil South.
- Integrated disease surveillance and response (IDSR) trainings concluded in Pibor and ongoing in Akobo Counties. Plans are underway to cascade the trainings to other four counties

- The multi-sectoral response guided by multicluster assessments continues to intensify efforts to reach the food insecure populations with life-saving food, health, nutrition and WASH assistance in the prioritized six counties.
- Health response strategies are geared towards increasing access to basic health and nutrition services, enhancing capacities of disease surveillance, prevention, detection and response to infectious disease outbreaks, and building resilience of the health system to reduce preventable mortality and morbidity.

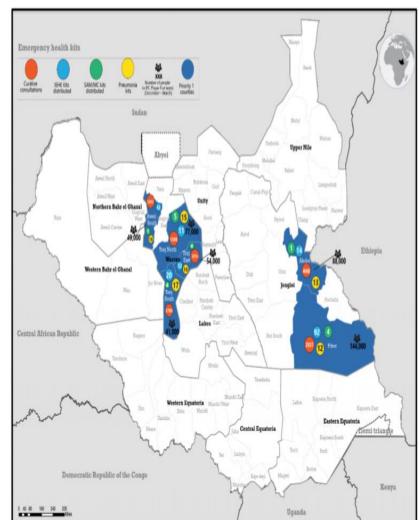


Figure 2: Emergency health kits delivered, and weekly consultations conducted in the six priority IPC 5 counties as of week 19 2021





			New	Cumulative	Interventions				
Aetiological agent	Location (county)	(county) reported since last date		cases to date (attack rate %)	Case management	Vaccination	Health promotion	WASH	
Ongoing epide	Ongoing epidemics								
Hepatitis E	Bentiu PoC	03/01/2018	14	631 (0.022)	Yes	No	Yes	Yes	
COVID-19	35 counties	05/4/2020		10,855	yes	yes	yes	yes	
cVDPV2	25 counties	11/06/2020 18/09/2020	0	54	Yes	Yes	Yes	Yes	
Rubella	Tambura	11/1/2021	0	23 (0.13)	Yes	No	Yes	Yes	
Rubella	Nagero	01/03/ 20201	0	5 (0.25)	Yes	No	Yes	N/A	





Cum.

%2

27%

42%

77%

100%

**CFR** 

0%

0%

1%

1%

0.01

Grand

**Total** 

185

102

237

160

684

Percenta

ge

27%

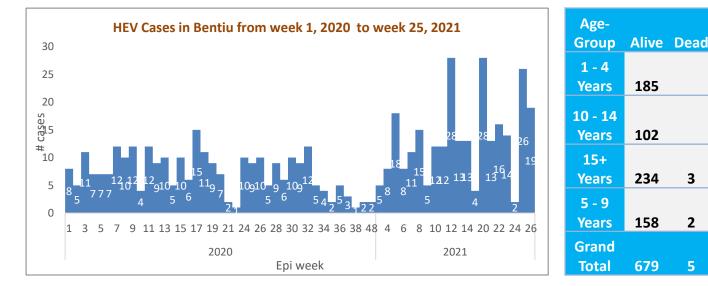
15%

35%

23%

100%

#### Hepatitis E, Bentiu IDP camp (1)



#### **Descriptive epidemiology**

- The persistent transmission of HEV in Bentiu IDP camp continues with 684 cases since beginning of 2019
- There were (19) new cases reported in week 25, 2021
- All the cases were managed as outpatient cases except for seven cases who were admitted
- 5 deaths reported in 2019 and 2020
- 48% are female and 52% are male.
- Age group less than 15 years had the most cases with (67%) cases.
- There is risk of adverse outcomes women are infected in their last trimester
- Use of unsafe drinking water is likely to be source of infection
- Up to week 23, 2021; a cumulative of 631 cases of HEV in Bentiu IDP camp including 5 deaths (CFR 0.79%)
- There is an upsurge of HEV cases since the beginning of 2021. The upsurge is attributed to declining WASH in the IDP camp as the daily workers and hygiene promoters have not been working for months now amidst reduced funding for WASH activities in IDP camp.

#### Public health response

- Given the current HEV upsurge in Bentiu IDP camp, the WASH cluster in Juba working with the local WASH implementing partners – Concern Worldwide; Mercy Corps; and IOM have agreed to undertake the following interventions:
  - Intensify Hygiene promotion messaging prioritizing the most affected sectors. Many of the daily workers stopped working for quite some time including Hygiene Promoters hence orientation of HPs will be intensified
  - Provide WASH NFIs (soap, buckets for water storage and handling)
  - Intensify water quality monitoring at source and point of use and adjust chlorine dosage accordingly to maintain FRC levels at 0.5-1mg/L as the point of collection
- Partners, WHO and MSF in support of the MoH are exploring the feasibility of deploying HEV vaccines as an additional outbreak response tool to interrupt transmission

			N		Interventions			
Aetiological agent	Location (county)	atch of season since last cases to date		Case management	Vaccination	Health promotion	WASH	
Controlled epide	mics							
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
Measles	Aweil East	29/12/2019	NR	664 (0.127)	Yes	Ν	0	Yes
Measles	Pibor	27/1/2020	NR	355 (0.0028)	Yes	Ye	S	Yes
Measles	Wau	5/1/2020	NR	39 (0.051)	Yes	Ye	S	Yes
Measles	Ibba	25/1/2020	0	55 (0.36)	Yes	Ye	S	Yes



# **COVID-19 Updates**



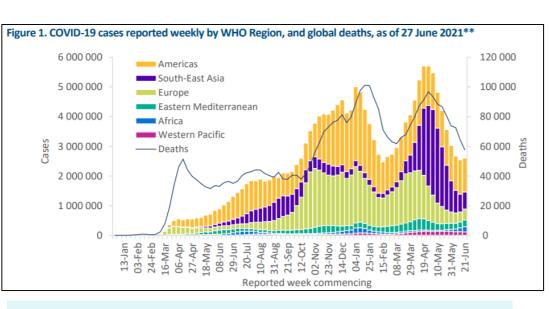


### **COVID-19 Virus Situation Summary**



#### Situation update as of 29 June 2021

- Globally, 29 June 2021, there have
  - been 180 492 131 confirmed
  - cases of COVID-19, including 3 916
  - 771 deaths, reported to WHO. As
  - of 25 July 2021, a total
  - of 3,646,968,156 vaccine doses have
  - been administered.
- In Africa, as of 29 June 2021, there
  - have been 3 968 421 confirmed
  - cases of COVID-19, including 94 323
  - deaths reported to WHO



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

#### COVID-19 Response in South Sudan as of 27 June , 2021

- \*
- Forty new cases were identified in Week 25, bringing the cumulative number of confirmed cases to 10829 1, including 363 imported cases mainly from South Sudanese returnees (192), Uganda (52), and Kenya (19). There were 13 new imported cases in Week 25
- At the end of Week 25, 35 (43.8%) of the 80 counties in the country have a confirmed case.
- Average positivity yields have been declining in recent epi weeks (after peaking at 22.4% in Week 07), reaching a low of 0.4% in Week 19 before increasing to 1.4% in Weeks 24 and 25.
- Two SARS-CoV-2 lineages were detected in South Sudan. The first variant of interest (VOI) detected in the South Sudan samples is the A.23.1 lineage and the second one is the B.1.525 lineage
- Eight alerts tested positive for COVID-19 this week. Cumulatively, 28292 alerts have been reported, of which 2702 (95.5%) have been verified, and 2622 (97.0%) of the verified alerts were sampled.
- Cumulatively, 16,779 contacts have been listed and followed up since the first confirmed case was reported in April 2020, of which 14889 (88.7%) have completed follow-up.
- As of the end of Week 25, South Sudan has vaccinated 45579 people, of whom 2769 are fully vaccinated and 42810 have had one dose. So far, 7322 healthcare workers have been vaccinated [Figure 13]. Vaccination is currently ongoing in 78 health facilities across all 10 states. Challenges to the vaccination campaign include:
  - Low uptake by healthcare workers
  - Low uptake among women (only 26% nationally)

# Overall Conclusions and Recommendations



#### Conclusion

- The overall performance of IDSR and EWARN reporting sites in week 25, 2021 is above the target of 80% in both Timeliness and Completeness
- 10 829 confirmed COVID-19 cases, including 337 imported cases, and 116 (case fatality rate of 1.07%) deaths Total 16,779 contacts identified, quarantined, & undergoing follow up as of week 25, 2021
- Given the COVID-19 pandemic, and the third pandemic wave that is currently underway in Africa, resurgence monitoring and response readiness is being enhanced for all the pillars including surveillance, laboratory, case management, infection prevention and control, border health, and community engagement to emphasize adherence to public health social measures including vaccination of health workers, high risk groups, and the general population

- All partners should support CHDs & State Ministries of Health to undertake IDSR/EWARN reporting
- All health facilities should report, and conduct casebased investigation of suspect measles cases and routine measles immunization should be strengthened in all counties
- Strengthen capacities for COVID-19 resurgence monitoring and response readiness through identifying and testing suspect cases (including genomic sequencing), isolating and effective management of confirmed cases, contact tracing, community engagement, COVID-19 vaccination, and strengthening adherence to PHSMs.

### 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-weeklydisease-surveillance-bulletin-2020



#### **States Partners**



States	Number of reporting sites	Supporting Partners
WES	213	AMREF, World Vision, CUAMM, CDTY, OPEN
CES	117	HLSS, SSUHA, Healthnet TPO, IHO,GOAL,TRI-SS,THESO,IMA,SSHCO
NBGZ	133	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO
WBGZ	78	Cordaid, Healthnet TPO, CARE International, IOM, ALIMA
Jonglei	108	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDA, CRADA, Malaria Consortium, CMA, ACSO, MEDAIR, CARE, World Relief, UNH
EES	142	Cordaid, HLSS, CCM
Unity	94	Cordaid, UNIDOR, IRC, CHADO, CARE International, CRADA, CASS, IOM, Samaritan's Purse
Warrap	123	GOAL, CCM, WVI, Malaria Consortium, UNKEA, Save the Children, MSF
Upper Nile	117	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID,CORDAID ,IOM,HFD,TADO
Lakes	113	Doctors with Africa (CUAMM)

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#### **Notes**

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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









