



## Epidemiological Bulletin Week 33, 2023 (August 14–20 August)



#### Major epidemiological highlights in week 33 of 2023



- In week 33, 2023, the IDSR reporting timeliness and completeness were at 79% and 88% respectively, while EWARN sites were both 84%
- A total of 132 alerts were triggered in week 33, 2023, and most of the alerts were for measles 27% (36/132), malaria, 17% (21/132), and AWD 11% (15/132)
- Ongoing measles outbreak response (reactive/mop-up campaigns) in prioritized counties
- As of 22 August 2023, South Sudan received 243,940 individuals (56,669 households) who have entered South Sudan since 16 April 2023 with 39,061 total returnees in Renk.
- Malaria and acute respiratory illnesses are the top cause of morbidity in Renk County as of week 33, 2023

#### **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 33 & 32 of 2023



States Ranking	Implementing Partners	States	Total Numer of Functional Health Facilities	No. of HFs Reported on Time in WK 33	Timeliness Percentage of WK 33	No. of HFs Reported on Time in WK 32	Timeliness Percentage of WK 32
	HLSS, SSUHA, Concern WW, IHO,GOAL,TRI-						
1st	ss,spedp,ima-wh,sshco,imc,msf,care	CES	129	128	99%	125	97%
	Doctors with Africa (CUAMM),IMA-WH,YCSS,LiveWell-SS	Lakes	112		97%		
3rd	ForAfrika, Medair	GPAA	15	14	93%	13	87%
4th	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	NBGZ	89	79	89%	74	83%
5th	AMREF, World Vision, CUAMM, CDTY, OPEN, Rescue	WES	183	151	83%	174	95%
6th	Cordaid, HLSS,OPEN,AMREF-CCMF,IRW	EES	107	88	82%	82	77%
7th	IHO,IOM,CARE,IMC,IRW,MHA	WBGZ	83	66	80%	71	86%
8th	Cordaid, IMC, IRC, CASS,IOM,Samaritan's Purse,Medair,MSF-H,WR,HFO, CH,AFAA GOAL,,HFO,UNKEA,SCI,AMREF-	Unity	88	69	78%	64	73%
	CCMF,TADO,HAASS,WVI,IRW	Warrap	113	86	76%	96	85%
10th	CMA,Medair,MDM,Medicair,CRSF,CARE,LiveWell- SS,WR,HFO,AAH,IOM,MSF,SCI,CIDO,IMC,CRESA	Jonglei	112	73	65%	74	- 66%
	IMC,CRES-Aid,Concern WW,Health Link,RI,Cordaid,CASS,SPEDP,NIDO,UNKEA,GOAL,MSF- E,WVI	Upper Nile	138	78	57%	71	51%
	Care International	RAA	16	4	25%	8	50%
13th	GOAL,SMC	AAA	17	3	18%	3	18%
	VEV	South Sudan	1202	948	79%	939	78%

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

The Timeliness of IDSR Reporting (Supported by EWARS Web and Mobile) at health facility level in week 33 stands at 79% while in week 32 it was at 78% and 6 states and 1 AA are above the National target of 80%.



#### IDSR Completeness performance at State level for week 33 & 32 of 2023



States Ranking	Implementing Partners	States	Total Numer of Functional Health Facilities	No. of HFs Reported regardless of Time in WK 33	Completeness Percentage of WK 33	No. of HFs Reported regardless of Time in WK 32	Completeness Percentage of WK 32
		RAA	16	16			
	HLSS, SSUHA, Concern WW, IHO,GOAL,TRI-		10	10	10070	10	100 70
	SS,SPEDP,IMA-WH,SSHCO,IMC,MSF,CARE	CES	129	128	99%	126	98%
3rd	Cordaid, HLSS,OPEN,AMREF-CCMF,IRW	EES	107	105	98%	90	84%
4th I	Doctors with Africa (CUAMM),IMA-WH,YCSS,LiveWell-SS	Lakes	112	109	97%	111	99%
5th I	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	NBGZ	89	86	97%	85	96%
	GOAL,,HFO,UNKEA,SCI,AMREF- CCMF,TADO,HAASS,WVI,IRW	Warrap	113	109	96%	100	88%
		GPAA	15	14			
8th	AMREF, World Vision, CUAMM, CDTY, OPEN, Rescue	WES	183	163	89%	183	100%
	Cordaid, IMC, IRC, CASS,IOM,Samaritan's Purse,Medair,MSF-H,WR,HFO, CH,AFAA	Unity	88	73	83%	64	73%
10th	IHO,IOM,CARE,IMC,IRW,MHA	WBGZ	83	66	80%	72	87%
11th 9		Jonglei	112	88	79%	83	74%
I	IMC,CRES-Aid,Concern WW,Health Link,RI,Cordaid,CASS,SPEDP,NIDO,UNKEA,GOAL,MSF-		120	0.4	600/	0.5	(20)
	E,WVI GOAL,SMC	Upper Nile AAA	138 17	94	68% 18%	85	62% 24%
15111		South Sudan	1202	1054	88%	1032	86%

KEY

 <60%</th>
 Poor

 61%-79%
 Fair

 80%-99%
 Good

 100%
 Excellent



#### Surveillance: EWARS Timeliness performance indicator by partner for week 33 and 32 of 2023



Partner	HFs	Reporting	Performance				
PARTER	Total Number of Mobile Sites	# of reports received on Time in Week 33	Percentage of Timeliness in WK 33	# of reports received on Time in Week 32	Percentage of Completeness in WK 32		
SP	4	4	100%	4	100%		
IMC	4	4	100%	4	100%		
TRI-SS	2	2	100%	2	100%		
SSHCO	1	1	100%	1	100%		
SMC	1	1	100%	1	100%		
UNH	2	2	100%	0	0%		
SCI	2	2	100%	0	0%		
IOM	1	1	100%	0	0%		
HFO	5	3	60%	3	60%		
WVI	2	1	50%	1	50%		
CIDO	1	0	0%	1	100%		
TOTAL	25	21	84%	17	68%		



#### Surveillance: EWARS completeness performance indicator by partner for week 33 and 32 of 2023



Partner	HFs	Reporting	Performance				
PARTER	Total Number of Mobile Sites	# of reports received on Time in Week 33	Percentage of Timeliness in WK 33	# of reports received on Time in Week 32	Percentage of Completeness in WK 32		
SP	4	4	100%	4	100%		
IMC	4	4	100%	4	100%		
TRI-SS	2	2	100%	2	100%		
SSHCO	1	1	100%	1	100%		
SMC	1	1	100%	1	100%		
SCI	2	2	100%	2	100%		
IOM	1	1	100%	1	100%		
UNH	2	2	100%	0	0%		
HFO	5	3	60%	3	60%		
WVI	2	1	50%	1	50%		
CIDO	1	0	0%	1	100%		
TOTAL	25	21	84%	20	80%		

#### INDICATOR AND EVENT-BASED SURVEILLANCE



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



#### Alert by Status and States in week 33 of 2023 [ a total of events-specific alerts generated by state



			ı							
	Acute jaundice	Acute Respiratory	Acute Watery	Bloody	Malaria		Guinea			Total
C			Í	1					EDC	
State	syndrome	Infections (ARI)	Diarrhoea	Diarrhoea	(Confirmed)	Measles	Worm	Meningitis	EBS	alerts
WES		4	4	4	5	1				18
WBGZ			4	1	4		1			10
Warrap		1	1	2	1	4				9
Upper Nile		2		2	3	6				13
Unity	3	1		4	1	15		1		25
RAA		1				1			3	5
NBGZ		2		1	1					4
Lakes					1		13			14
Jonglei	1	2	2	3	1	4				13
EES		1	4	5	2					12
CES		1		1	2	5				9
Total alerts	4	15	15	23	21	36	14	1	3	132
Le	gend		Measles alerts a	re the highest a	lerts for the wee	k with mojo	rity been fro	om Unity state a	nd Upper Ni	le
		0 to 3 alerts	Lake State has re				-	-		
		4 to 6 alerts	3 EBS were trigge							
		7 to 15 alerts				_			_	-

#### Event-based Surveillance; Animal deaths in Cueibet county

- On 24 August, a community report of a dead animal in Tiap-tiap Payam of Cueibet County of Lakes State.
- According to the local report, around 52 vultures and other birds believed to have eaten the carcasses of dead animals were found dead around it.
- There was no human health problem related to the contact with a dead animal.

#### Public health Actions taken include:

- 1. Advised community-based surveillance team to continue monitoring the situation closely and report any similar situation to the County Health Department team in Cueibet
- 2. Informed DG for the SMOH to engage Wildlife and Ministry of Animal resources and fishery to increase surveillance in Animals/Cattle
- 3. Informed FAO to engage Animal Health Workers in Cueibet to monitor animal health in Tiaptiap Payam.
- 4. Continue to sensitize the communities on the risk of contract to any Carcasses of dead animal in the bush and to report any unusual events in the community to nearest HF, BHWs or WHO Field Assistant in the area.
- 5. Monitoring the situation closely





#### Suspect Rabies outbreak in Aweil town, Northern Bahr el Ghazal state



- On 8th June 2023, the WHO field office notified the Ministry of Health through the one health secretariate
  of the increase in mortality in Aweil due to dog bites (suspected rabies)
- The one health secretariat convened an Adhoc meeting and formed a team to be deployed for investigation
- A multisectoral team comprising of eight officers was deployed to Aweil to investigate the alert
- Upon arrival the team found that a total of 725 cases of dog bites were registered in private clinics from January -14th Jul 2023 (Source: Wol Modern Pharmacy, Green World, Abu Temaan and Mathar)
- Huge number of stray dog populations in Aweil town and the surroundings were observed.
- There is inadequate Anti- rabies virus for both human and animal vaccines in the State.
- Increase dog bites in Aweil town and the surroundings, causing communal fight within the communities e.g.,
   Aweil East County
- The One Health secretariate still working with partners such as FAO and WHO to intervene as well as the state authority

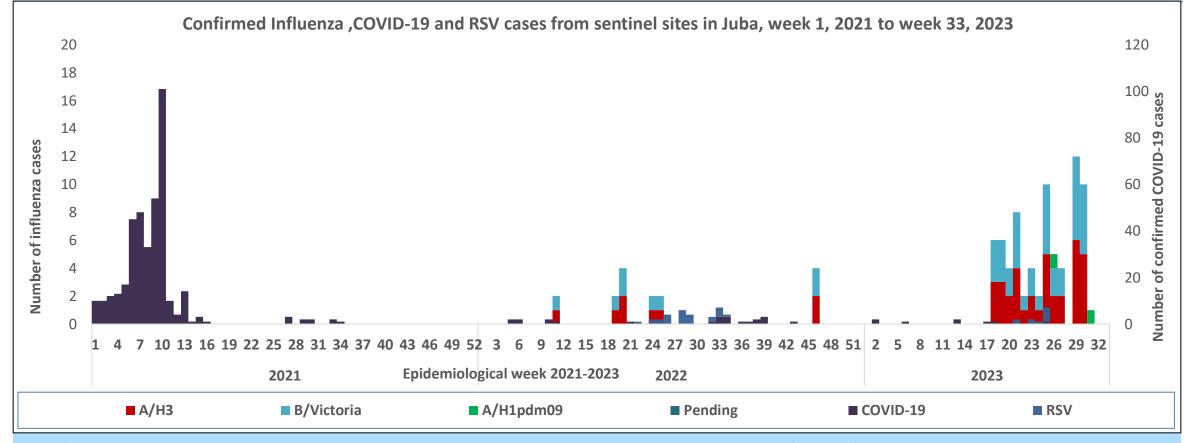
#### Influenza sentinel Surveillance updates







#### **Routine Sentinel Surveillance | Human Influenza & other Respiratory Pathogens**



- There are currently Four designated Influenza sentinel surveillance sites in Juba (Juba Teaching Hospital and Al Sabah Children's Hospital Rumbek State Hospital & Juba Military Hospital) that are collecting epidemiological data and samples from ILI/SARI cases.
- By the end of week 52,2022; a total of 594 ILI/SARI samples were collected,529 samples tested negative, and Cumulatively, 21 tested positive for covid-19,8 positive for Influenza B (Victoria), and 6 were positive for influenza A(H3).26 RSV was confirmed in Week 52
- From weeks 1-33 2023, a total of 512 ILI/SARI were collected all 455 tested negative, 7 positives for Covid-19,
   (33)Influenza types A (H3), (2) B (Victoria), 2 for A/H1pdm09 and 13 for RSV in weeks 33,2023

## ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

MEASLES ' UPDATES



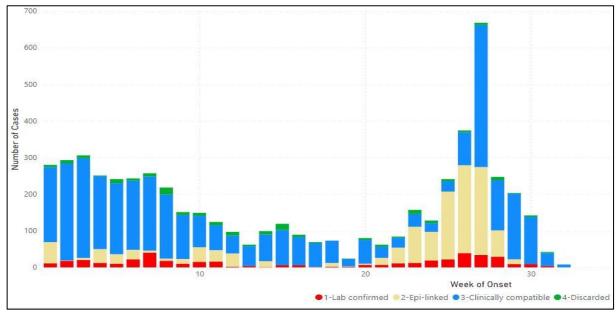
#### Measles update

#### World Health Organization South Sudan

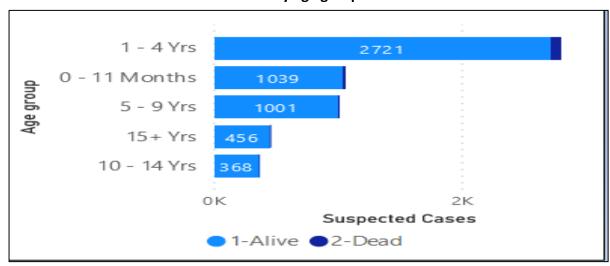
#### **Epi Summary**

- In 2023, A total of 5,725 with 140 related deaths have been reported with a CFR of 2.4%
- Nine (9) newly suspected cases were reported this week from Renk (1) and Ayod (8), while 135 retrospective cases were received for weeks 28-32. No laboratory-confirmed case has been reported since week 31 (4 cases)
- Out of the 5,725 suspected measles cases, 424(7.4%) are lab-confirmed, 1,306(22.8%) epi-linked, 3,773(65.9%) clinically compatible, and 222(3.9%) discarded cases have been reported from epidemiological week 1 to week 33, 2023. A total of 25 rubella-positive cases from the discarded (negative measles cases
- The majority more than 65% were reported among children less than 5 years of age with more than 80% having zero/unknown vaccination status in the same age group
- One new death in the reporting week from Ayod. However, data on 11 deaths were received from Juba and Ayod covering weeks 29-32.
- A total of 140 measles-related deaths were reported since January 2023. 72%(101) were among clinically compatible cases whereas 28%(39) occurred among the epilinked cases
- Renk, Ulang, Kajo-Keji, Yei, Koch, Rubkona, Juba, Leer, and Aweil South counties still reporting suspected cases and are advised to collect samples confirmation to guide the response
- This crisis contributed to another round of outbreaks and from EPI week 25 ( 4 weeks after the last Measles campaign) a total of 1,925 cases have been reported with 25% being returnees.
- The Measles campaign was concluded in May 2023, EPI week 20, with a decline in cases, after which the movement of people due to the Sudan crisis started.

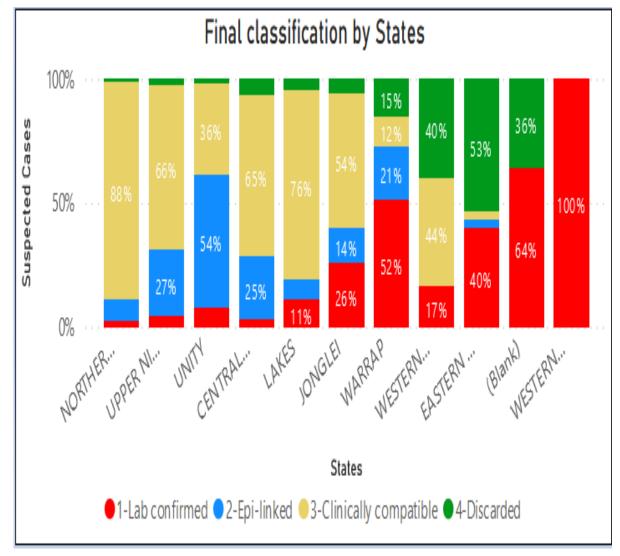
#### Epi curve of measles cases from week 1 to 32, 2023, South Sudan



#### Distribution of cases by age group and outcome











#### Measles Updates:



#### Vaccination Updates

- A total of 15 counties were targeted for a reactive campaign, and 14 counties were targeted for POE/Transit post-vaccination
- National EPI TWG endorsed the above plan (4 counties (Juba, Ayod, Longechuk, and Rubkona, with secured funding from WHO, UNICEF, and MEDAIR).
- Approaching partners to support/implement the campaign in the remaining counties, information shared at the HCC and other forums
- Preparation for the implementation in 3 counties is ongoing, with MEDAIR already implementing in Ayod

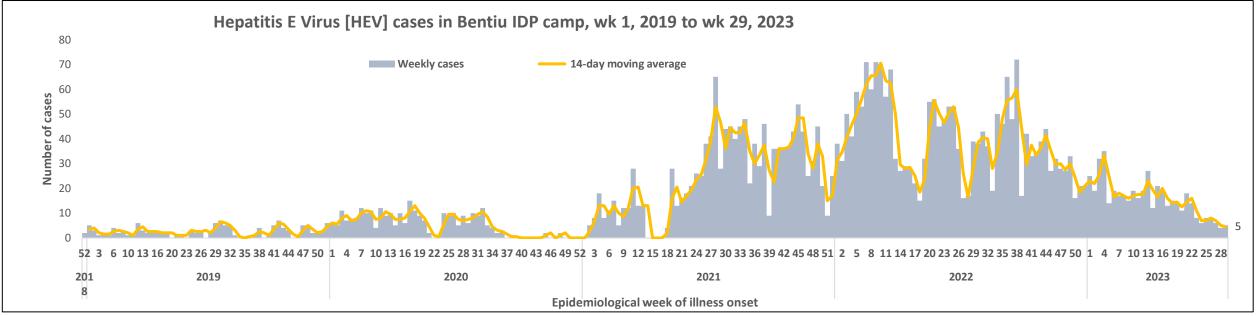
#### Way forward

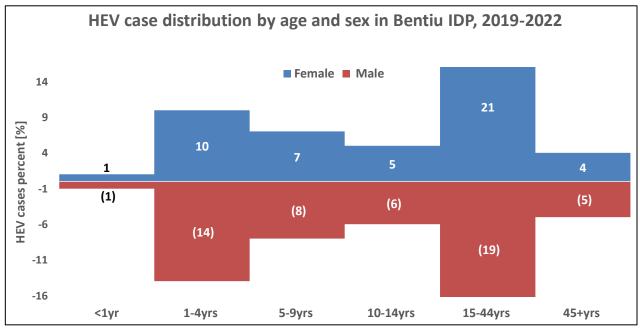
- MOH and partners to support the planned mop-up campaign and other measles activities
- State and County MOH to continue weekly reporting of measles cases (including zero reporting where applicable)
- Prompt detection and management of measles cases
- Blood samples to be collected from suspected cases, in counties that continue to report, and the lab confirmation is beyond 4 weeks to monitor the epidemiology
- Collection of nasopharyngeal swaps from new cases
- Strengthen routine immunization at POEs, and within the community
- Prioritize case management to reduce morbidity and mortality.
- Enhance risk communication and community engagement in health and help-seeking behavior.

## ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

HEPATITIS E ' UPDATES

#### Hepatitis E Virus/AJS updates Bentiu.





- Total of 4, 253 cases and 27 deaths have been reported since the onset of the outbreak.
- Five AJS cases were reported in week 30
- People in the age range of 15 44 years are the most affected age group.

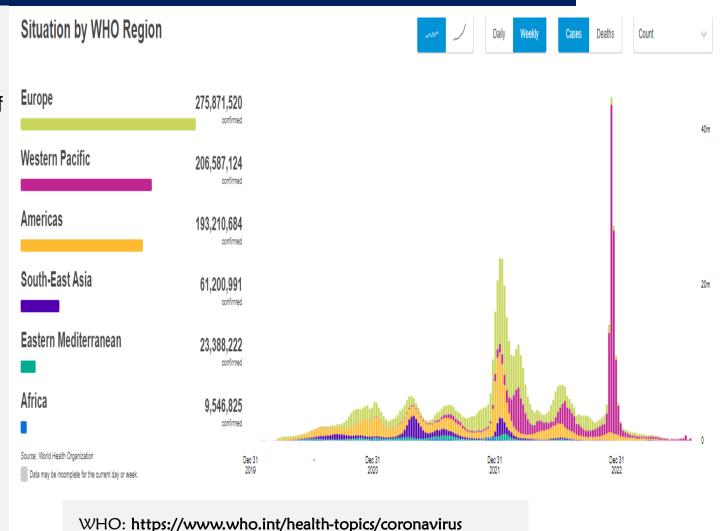
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#### COVID-19 Virus Situation Summary



#### Situation update as of 16 August 2023

- Globally, as of 16 August 2023, there have been 769,806,130 confirmed cases of COVID-19, including 6,955,497 deaths, reported to WHO. As of 20 August 2023, a total of 13,499,865,692 vaccine doses have been administered.
- In Africa, as of 31 May 2023 there have been 9,546,825 confirmed cases of COVID-19, including 175,421 deaths reported to the WHO
- In South Sudan, from 3 January 2020 to 16 August 2023, there have been 18,368 confirmed cases of COVID-19 with 138 deaths, reported to WHO. As of 7 May 2023, a total of 4,312,900 vaccine doses have been administered.





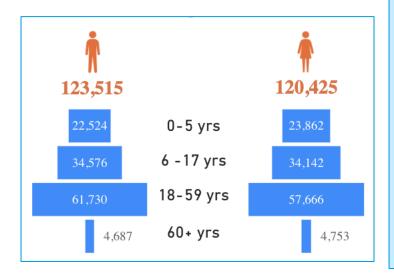
### HUMANITARIAN RESPONSE

**SUDAN CRISIS** 

#### Sudan Crisis; Key Figures as of 22 August 2023



Sex and Age Breakdown



Population status
# of people tracked at the PoE
231,196
People moved
126,394

Total people tracked at the Wunthow (Juda PoE)

194,480

Total Returnees in Renk Town
39,061

#### **Points of Entries**

- Movement for 231 196 individuals has been tracked from various PoEs, 194 480 in Joda alone.
- 126 394 people have been moved.
- The government has assisted the movement of 24% of individuals, humanitarian agencies assisted 46% move, 18% self-organised their movements, and 11% were moved by assistance through third-country nationalities.
- 82% of the onward movement was from Wunthou/Joda in Renk, Upper Nile State, 15% moved from Panakuch in Unity State, and 1.6% moved from Kiirr Adem in Unity State
- 39,061 individuals (5,874 households) currenly are in collective centres and host communities in Renk Town.

#### **Emergency Kits Distribution and Prepositioning**

State	No.	Benef	iciaries	County	County Recipient/ destination		%
	Kits	#	%			(USD)	
				Rank	IMC, Mubadirum Coordination Renk Committee, RI, & Goal		57%
Upper Nile State	440	106,005	49%	Panikang	IRC	227761.83 11941.59	3%
Otato		100,000		Malakal Hub	Malakal Hub	22474.04	6%
				State total UNL		\$262,177.46	65%
WBG	30	11,325	5%	Raja	WHO Wau Hub	\$13,734.52	3%
NBG	6	32,135	10%	Aweil	WHO Aweil Hub	\$33,189.22	8%
			/	Rubkona	World Relief & Concern World wide	16749.5	4%
<b>Unity State</b>	91	56,435	26%	Bentiu Hub office	Hub office	\$54,137.90	13%
		·		state total Unity	WHO Bentiu Hub	\$70,887.40	18%
Warrap	62	22,050	10%	Kuajok Hub Office	WHO Kuajok Hub office	\$21,615.98	5%
Grand Total	686	227,950	100%			\$401,604.58	100%

- As of today, WHO managed to distribute or preposition a total of 686 health emergency health kits to six locations that can benefit around 227,950 at the cost of \$\$409,492.58
- Kits issued were mainly; IEHK, Pneumonia, Cholera Investigation & treatment Kits, SAM/MC kits, and field sample collection kits and NCD kits. Other supplies include; Snake Venom antisera & SARS COV-2 Ag RDTs.
- To support WASH activities in health facilities, WHO distributed six handwashing stations and 18 segregation waste bins to Renk.

#### Summary of Morbidity & Mortality (Renk)

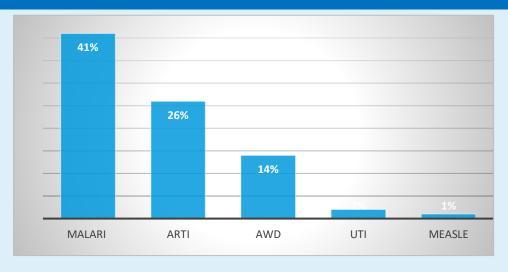
- During the week, a total of 6,430 consultations were conducted; cumulatively, 73,758 individuals were reached with curative interventions.
- Malaria was the leading cause of morbidity in week 33, with 41% (1870) of all consultations, followed by ARTI at 29% (1174) Diarrhea at 14% (630), and 53 measles cases.
- Children below the age of 5 years account for 27% (1723) of the total consultations.
- Females account for 73% (4684) of the total number of cases

Description	IMC	IOM Ayabuk	IOM Reception	RI	MSF	WVI	Total
Total consultation	12,540	22,237	20,925	16,887		1169	73,758
Weekly new consultation(week 33)	1,302	1,479	1870	1,236		543	6,430

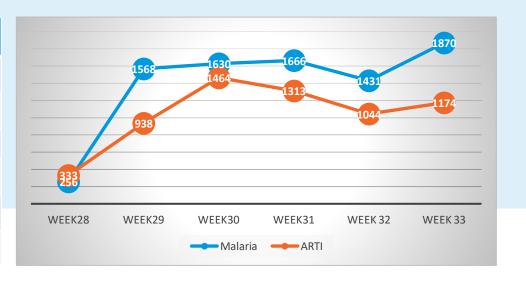


#### Health Status-Top 6 causes of morbidity

Disease	Consultation	Percentage
Malaria	1870	41%
ARTI	1174	26%
AWD	630	14%
UTI	99	2%
Measles	53	1%



Indicators	Malaria	ARTI
Week28	256	333
Week29	1568	938
Week30	1630	1464
Week31	1666	1313
Week 32	1431	1044
Week 33	1870	1174

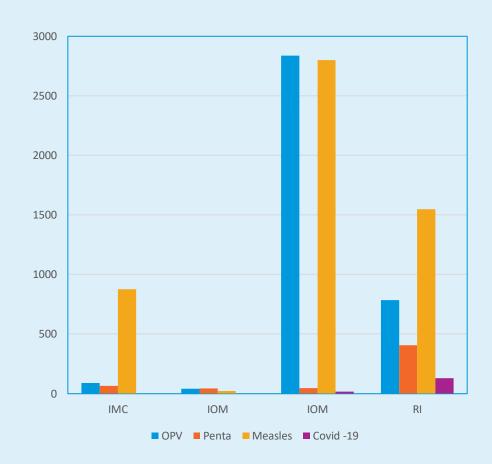




#### Vaccination Uptake in Renk

	IMC	IOM IOM Ayabuk Reception		RI
OPV	90	40	2,838	785
Penta	64	42	47	406
Measles	876	22	2,800	1,548
Covid -19	0		17	128

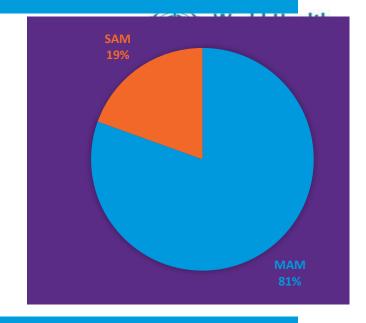
At PoEs, IOM had reported positive vaccination figures of over 3,000 a week when they extended vaccinations to occur 24/7. At night, they have been averaging over 200 vaccinations every night. However, these efforts are now being affected by an inadequate number of doses. The same has also been reported by. Relief International and World Vision at the Transit Centres requests for additional doses have been placed.





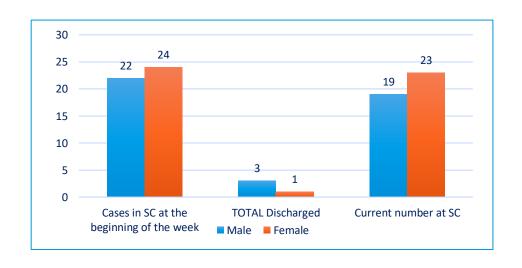
#### **Nutrition Update (Renk)**

	TOTAL	RI	GOAL	WVI
Total MUAC screening	7803	883	1185	981
Weekly MUAC screening	541	0	0	120
MAM(cumulative)	2147	181	254	12
SAM(cumulative)	520	0	108	13
Malnutrition with medical complication(Cumulative)	68	0	38	3



#### • Children admitted at the Stabilization Center from 18-23August 2023

Indicators	Male	Female
Cases in SC at the beginning of the week	22	24
Discharge	3	1
Current number at SC	18	23
Death	2	0



#### Mortality Update in Renk as of 11th August 2023

site	AWD	malaria	measle	chronic liver	advanced CA prostrate	pneumonia	тв/ні∨	kidney failure	TB	SAM	anemia	trouma	stroke	un-known
military hospital			1											
renk hospital	8	6	21	1		4	1		4	3	2	1	1	1
river side (port)			2											
transit center		2	18	1	1	6		1						
wanthou phcu		1	3											
proportion of mortality	9%	10%	51%	2%	1%	11%	1%	1%	4%	3%	2%	1%	1%	1%

- Measles account for 51% of the total deaths (n=89)
- Followed by pneumonia (11%), malaria (10%), AWD (9%)



## OVERALL CONCLUSIONS AND RECOMMENDATIONS



#### Conclusions



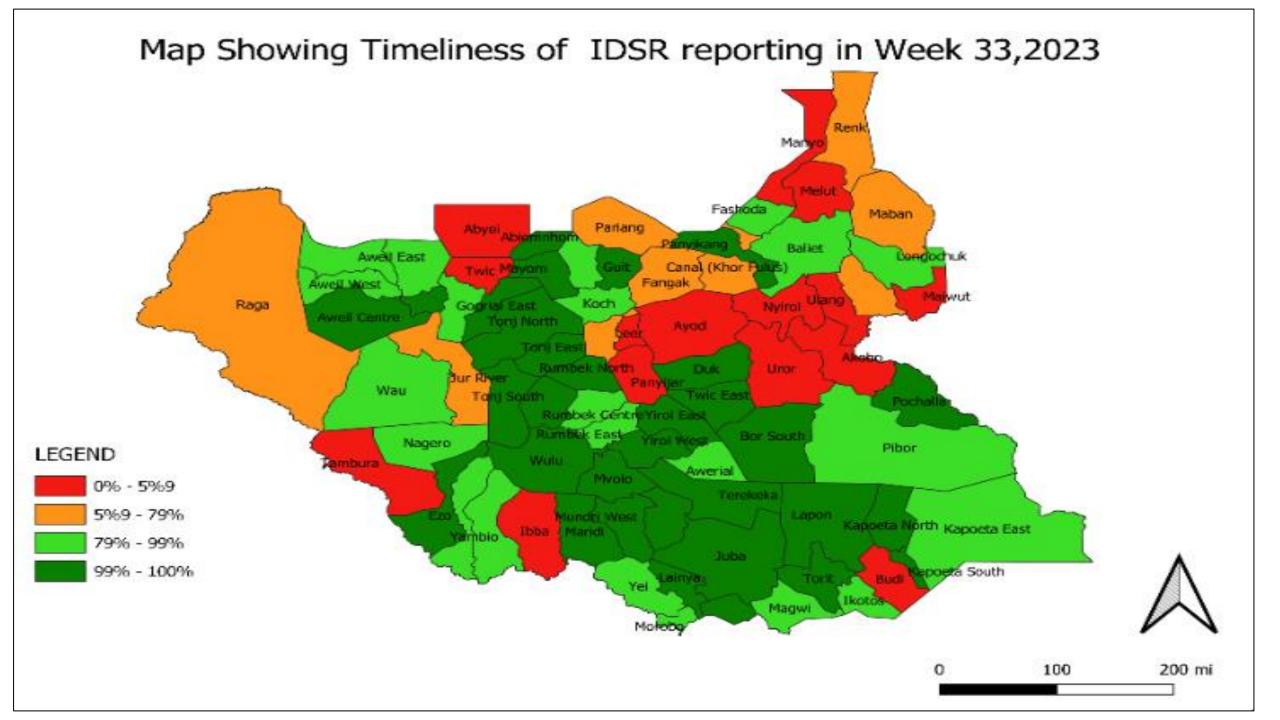
- In week 33, 2023, the IDSR reporting timeliness and completeness were at 79% and 88% respectively, while EWARN sites were both 84%
- A total of 132 alerts were triggered in week 33, 2023, and most of the alerts were for measles 27% (36/132), malaria, 17% (21/132), and AWD 11% (15/132)
- Ongoing measles outbreak response (reactive/mop-up campaigns) in prioritized counties
- As of 22 August 2023, South Sudan received 243,940 individuals (56,669 households)
  who have entered South Sudan since 16 April 2023 with 39,061 total returnees in
  Renk.
- Malaria and acute respiratory illnesses are the top cause of morbidity in Renk County as of week 33, 2023

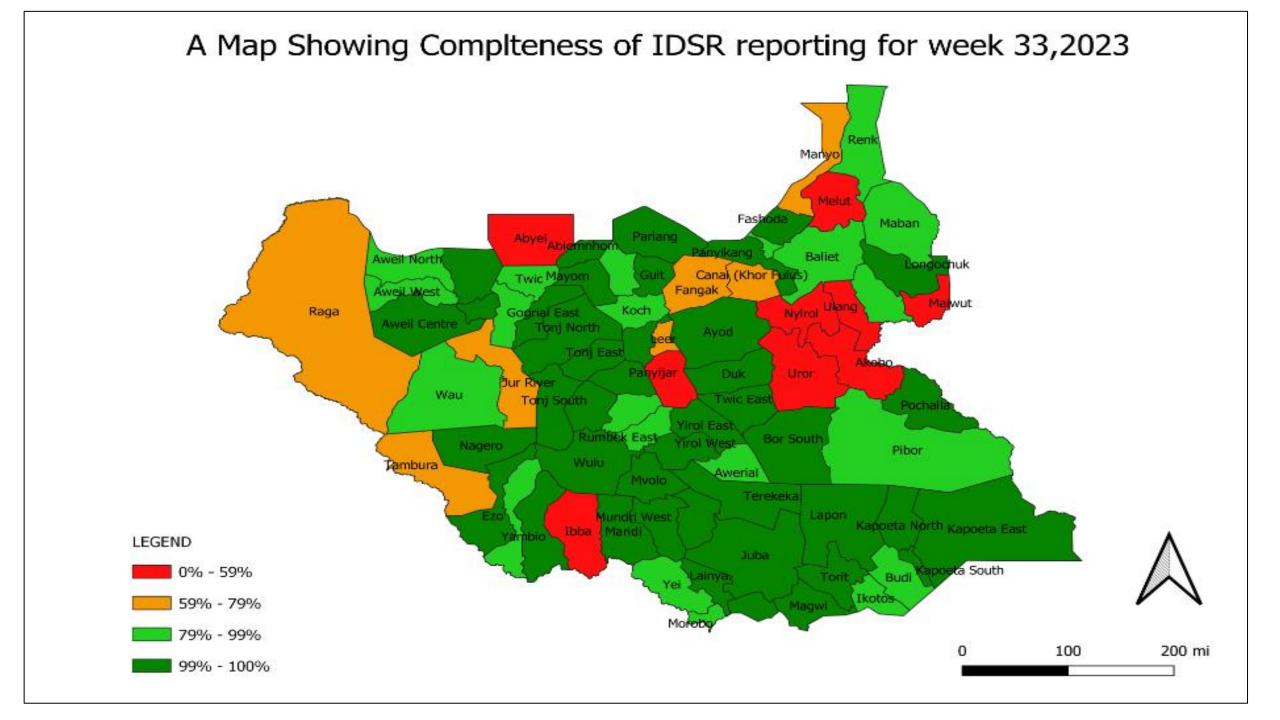


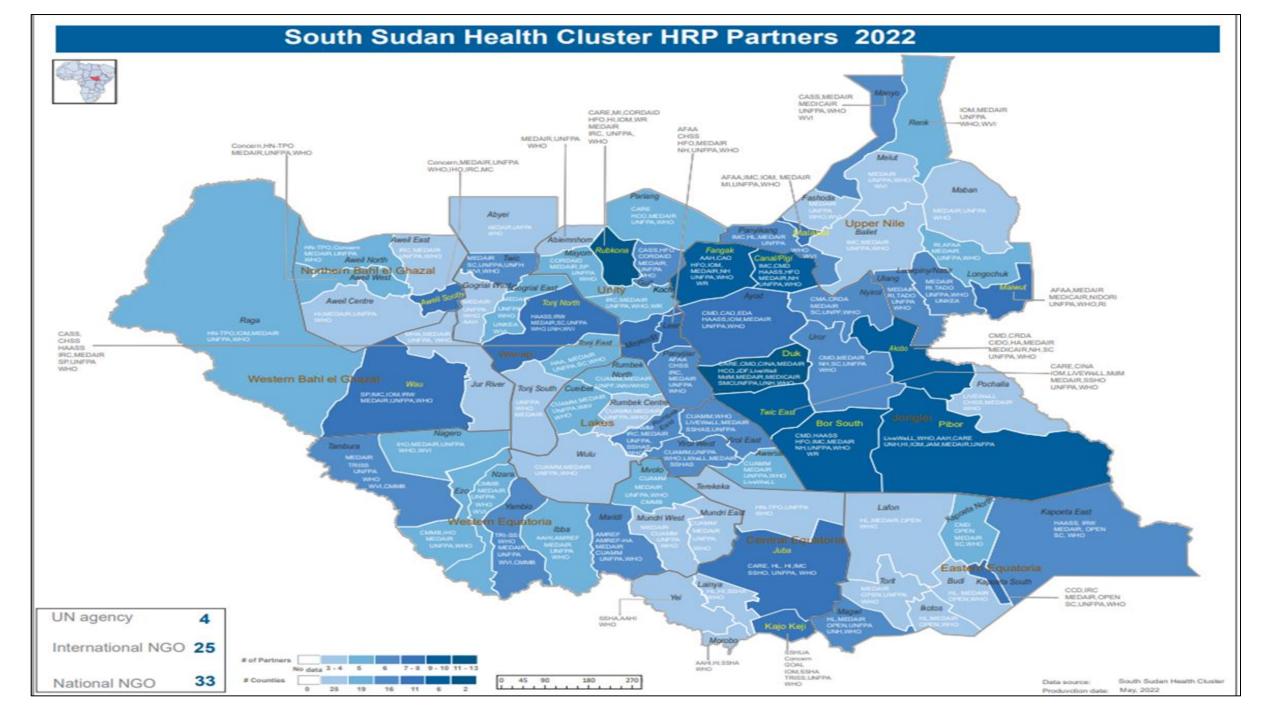
#### Recommendations



- Partners to continue supporting County Health Departments (CHD) & State Ministries of Health on timely IDSR/EWARN reporting and involve the boma health workers to support community-based surveillance
- Health facilities to conduct an initial investigation on suspected cases of epidemic-prone diseases and collect samples
- Continue with preparedness activities to strengthen surveillance at all levels including conducting afteraction reviews and simulation exercises.
- Continue to support the multicluster response strategy in the reception sites for returnees/refugees' influx due to the Sudan crisis







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 2022 use the link below:

https://www.afro.who.int/publications/south-sudan-weekly-disease-surveillance-bulletin-2023

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

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