



South Sudan
Ministry of Health
Integrated Disease surveillance
and response (IDSR)



**World Health
Organization**
South Sudan

Epidemiological Bulletin Week 07, 2023 **(February 13- 19February)**



Major epidemiological highlights in week 07 of 2023

- In week 07, 2023, the IDSR reporting timeliness and completeness were 90% and 92% respectively and timeliness and completeness for EWARN sites were at 93% and 96% respectively
- Of the 39 alerts reported in week 07, 2023; the majority were for, malaria (19) and measles (5),
- Measles outbreaks confirmed in 28 counties since the beginning of the year 2022 to week 07 2023. with the latest counties to confirm outbreak are Mvolo, Mundri East, Pariang, Awerial, and Rumbek Centre
- Reactive measles vaccination campaigns were conducted in 19 counties (16 counties in 2022, 3 in 2023), with 770,581 children vaccinated in 2022 and 87 693 children in 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with 3,958 cases since the beginning of 2019 and 17 cases reported in week 07 of 2023.
- Other Emergencies include Intercommunal fighting, food insecurity, and floods in some counties in Unity, Upper Nile, and Jonglei states.

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 07 & 06 of 2023



Timeliness States Ranking	States	Number of reporting sites	No. of HF's Reported on Time in WK 07	Timeliness Percentage of WK 07	No. of HF's Reported on Time in WK 06	Timeliness Percentage of WK 06
1st	WES	219	219	100%	219	100%
2nd	CES	128	128	100%	123	96%
3rd	Lakes	113	111	98%	111	98%
4th	EES	105	103	98%	86	82%
5th	NBGZ	84	82	98%	82	98%
6th	Warrap	127	120	94%	114	90%
7th	WBGZ	78	72	92%	54	69%
8th	Unity	95	86	91%	71	75%
9th	Upper Nile	101	65	64%	75	74%
10th	Jonglei	116	65	56%	70	60%
	South Sudan	1166	1051	90%	1005	86%

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 07 stands at 90% while in week 06 it was 86% and 8 states were above the target of 80% in week 07.

Reporting Challenges in the poorly performed States are; insecurity, internet inaccessible; Turnover of Partners.



IDSR Completeness performance at State level for week 07 & 06 of 2023



Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 07	Completeness Percentage of WK 07	No. of HFs Reported regardless of time in WK 06	Completeness Percentage of WK 06
1st	Lakes	113	113	100%	113	100%
2nd	WES	219	219	100%	219	100%
3rd	CES	128	128	100%	124	97%
4th	EES	105	104	99%	90	86%
5th	NBGZ	84	82	98%	83	99%
6th	Warrap	127	123	97%	122	96%
7th	WBGZ	78	73	94%	71	91%
8th	Unity	95	86	91%	81	85%
9th	Upper Nile	101	75	74%	77	76%
10th	Jonglei	116	67	58%	72	62%
	South Sudan	1166	1070	92%	1052	90%

KEY

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

The Completeness of IDSR Reporting (Supported by EWARS Web and Mobile) at health facility level in week 07 stands at 92% while in week 06 it was 90% and 8 states were above the target of 80% in week 07.

Reporting Challenges in the poorly performed States includes; insecurity; internet inaccessible; Turnover of Partners, Floods.



Surveillance: EWARS Timeliness performance indicator by partner for week 07 and 06 of 2023



Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received on Time in Week 07	Timeliness of Week 07	# of reports received on Time in Week 06	Timeliness of Week 06
IRC	1	1	100%	1	100%
HFO	8	8	100%	8	100%
CIDO	1	1	100%	1	100%
Medicair	5	5	100%	5	100%
TRI-SS	2	2	100%	2	100%
World Relief	3	3	100%	3	100%
SCI	2	2	100%	2	100%
AFAA	1	1	100%	1	100%
IMC	22	22	100%	22	100%
SMC	6	6	100%	6	100%
SSHCO	1	1	100%	1	100%
MSF-H	4	4	100%	2	50%
UNIDOR	2	2	100%	0	0%
MSF-E	6	5	83%	4	67%
IOM	10	8	80%	9	90%
Islamic Relief	5	3	60%	2	40%
ADA	1	0	0%	0	0%
TOTAL	80	74	93%	69	86%

The Timeliness of EWARS in partners' supported sites stands at 93% in week 07 while in week 06 it was at 86%.



Surveillance: EWARS completeness performance indicator by partner for week 07 and 06 of 2023



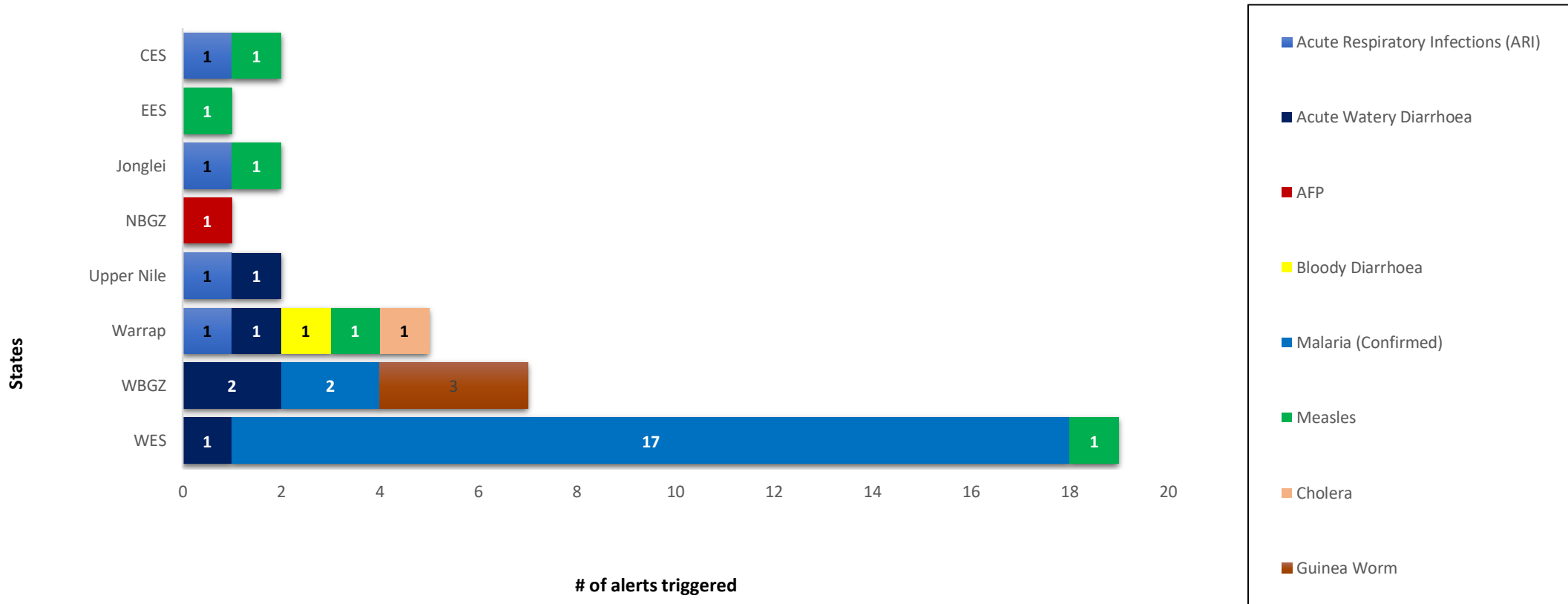
Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received regardless of Time in Week 07	Completeness of Week 07	# of reports received regardless of Time in Week 06	Completeness of Week 06
IRC	1	1	100%	1	100%
SMC	6	6	100%	6	100%
Islamic Relief	5	5	100%	5	100%
HFO	8	8	100%	8	100%
MC	2	2	100%	2	100%
CIDO	1	1	100%	1	100%
Medicair	5	5	100%	5	100%
TRI-SS	2	2	100%	2	100%
World Relief	3	3	100%	3	100%
AFA	1	1	100%	1	100%
SCI	2	2	100%	2	100%
UNIDOR	2	2	100%	2	100%
IMC	22	22	100%	22	100%
MSF-H	4	4	100%	4	100%
SSHCO	1	1	100%	1	100%
IOM	10	8	80%	9	90%
MSF-E	6	6	100%	5	83%
ADA	1	0	0%	0	0%
TOTAL	82	79	96%	79	96%

The Completeness of EWARS in partners' supported sites stands at 96% in week 07 as well in week 06 .

INDICATOR-BASED SURVEILLANCE



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

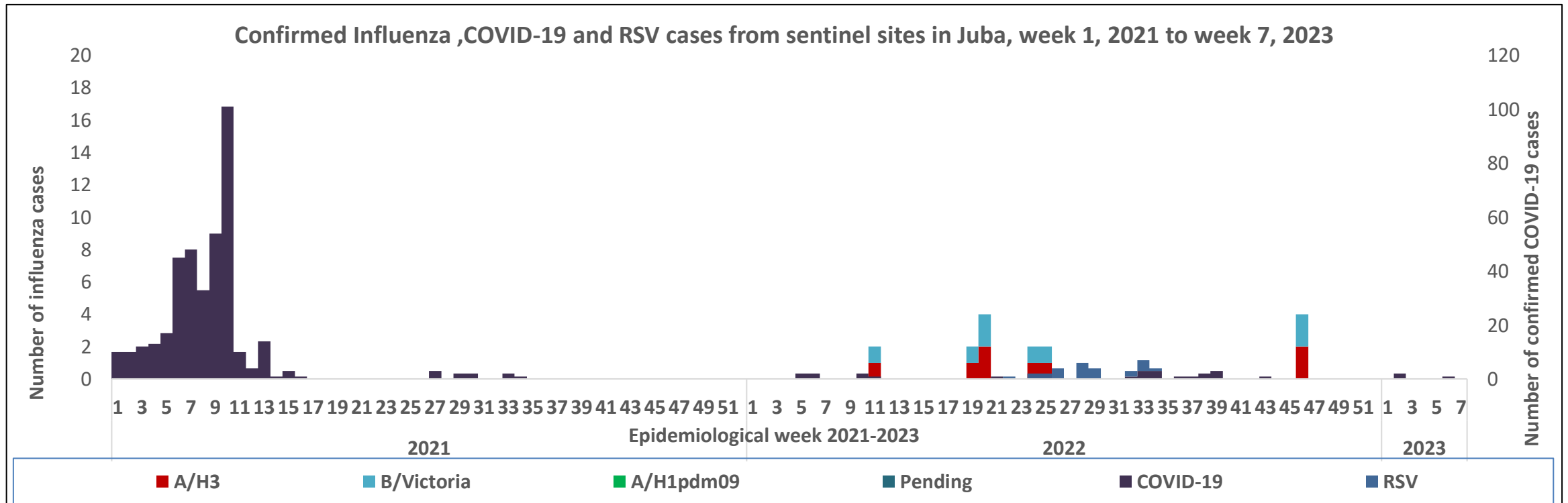


This week a total of 39 Alerts were triggered of which 12 are from outbreak prone diseases as Per the broken-down below

- 5 AWD alerts: these alerts were triggered from the following Counties, Mundri PHCC, Rumamer PHCC, Alel Chok PHCU, Maboir Abun PHCU, Pinythor Phcu.
- 5 Measles alert: these were triggered from; Aru PHCU, Mundri PHCC, Abyei PHCC, MSF-H Lankien PHCC and Torit State Hospital
- 1 AFP alert: this was from Chelkou PHCC in Aweil West County and under monitoring
- 1 Cholera alert: This was from Ajogo PHCU in Gogrial east

Influenza sentinel Surveillance updates

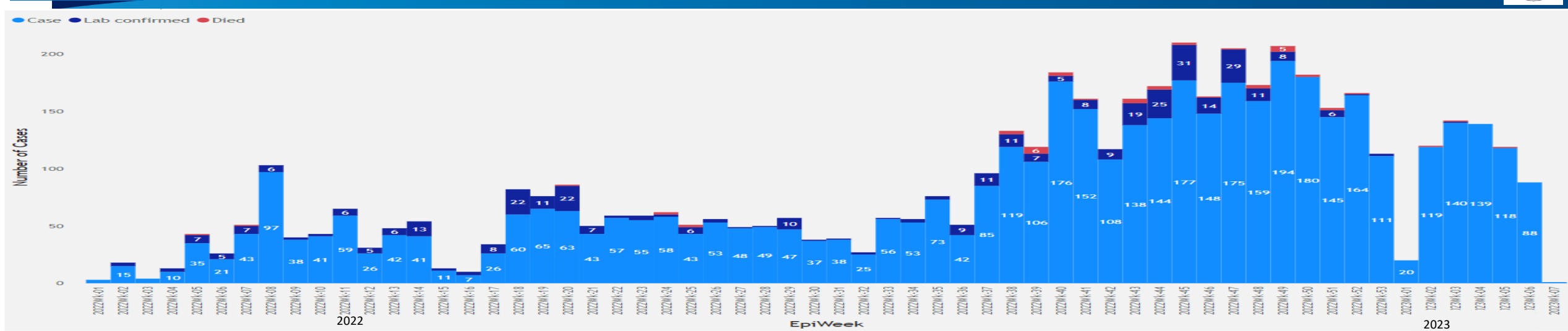




- There are currently Four designated Influenza sentinel surveillance sites in Juba (Juba Teaching Hospital and Al Sabah Children’s Hospital Rumbek State Hospital & Juba Military Hospital) that are collecting epidemiological data and samples from ILI/SARI cases.
- By the end of week **52,2022**; a total 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** positive for influenza A(H3).**26** RSV was confirmed in Week 52
- From weeks 1-7 2023, a total of 83 ILI/SARI were collected all 80 tested negative,**3** positives for Covid-19, (**0**)Influenza types A (H3), B (Victoria), and 0 for RSV in weeks 7,2023

ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

Measles Updates



Main highlights

- Out of the 5,145 suspected measles cases, 2,881(55.9%) are epi-linked, 428(8.3%) lab-confirmed, 1,289(25.0%) clinically compatible, and 541(10.6) discarded cases have been reported from epidemiological week 1, 2022, to week 7, 2023. (see the breakdown in table 1 below)
- Fourteen (14) suspected cases have been reported during the reporting week
- A total of 53 measles-related deaths were reported since January 2022, with only 3 deaths among the lab-confirmed measles cases. The case fatality rate (CFR) is 1.0%.
- No new measles-related death reported in week 07
- Twenty eight (28) counties have confirmed Measles outbreaks (23 counties in 2022 and 5 in 2023)
- No newly confirmed outbreak this week
- Reactive vaccination campaigns were conducted in 19 counties (16 counties in 2022, 3 counties in 2023), with 858,274 children vaccinated
- Five counties namely Mvolo, Mundri East, Pariang, Awerial, and Rumbek Centre have active transmission and require reactive vaccinations campaigns to interrupt the transmission
- Measles campaign in Nyirol county targeting 30,675 children aged 6 months to 9 years
- The Ministry of Health, WHO, and partners plan to conduct reactive measles vaccination campaigns in Tonj North and Bor South in epidemiological week 8

Source: measles weekly situation updates

Measles Cases in South Sudan, 2022 to Week 07, 2023



State	County with confirmed outbreak	Cases	Lab-confirmed cases	Deaths	CFR %	Attack rate/1000pop	Date of onset _1st Case	Date of onset _Latest Case	Date of response/Campaign	Campaign coverage (%)	Outbreak Status
CES	Juba	976	14	18	1.8	1.5	16/01/2022	05/02/2023	29 Aug-29 Oct	69-98%	Active with response
	Terekeka	65	17	0	0.0	0.3	09/05/2022	19/01/2023	2-9 Nov	106%	Active with response
JONGLEI	Nyirrol	64	10	0	0.0	0.4	02/11/2022	06/02/2023	Planned		Active with ongoing response
	Bor South	24	12	0	0.0	0.1	23/03/2022	05/02/2023			Active without response
LAKES	Cueibet	185	19	9	4.9	0.8	24/01/2022	09/02/2023	18-24 Jan	88%	Reactive Campaign done awaiting 30 days before new samples collected to determine impact of intervention
	Yirol East	108	4	2	1.9	0.9	12/04/2022	05/02/2023	18-24 Jan	141%	Reactive Campaign done awaiting 30 days before new samples collected to determine impact of intervention
	Yirol West	445	24	5	1.1	2.3	20/05/2022	08/02/2023	18-24 Jan	129%	Reactive Campaign done awaiting 30 days before new samples collected to determine impact of intervention
	Rumbek Centre	18	6	0	0.0	0.1	01/01/2023	07/02/2023			Active without response
	Awerial	15	6	0	0.0	0.2	14/10/2022	09/01/2023			Active without response
NBeG	Aweil Center	242	53	0	0.0	3.4	21/03/2022	27/01/2023	14-22 Jun	155%	Active with response
	Aweil East	355	23	4	1.1	0.7	10/03/2022	02/02/2023	13-26 Aug	91%	Active with response
	Aweil North	52	8	0	0.0	0.2	03/03/2022	02/02/2023	14-21 Jul	97%	Active with response
	Aweil South	152	14	3	2.0	1.2	20/04/2022	17/01/2023	13-26 Aug	97%	Active with response
	Aweil West	587	24	3	0.5	2.1	06/01/2022	05/02/2023	14-22 Jun	94%	Active with response
UNITY	Panyijiar	170	1	0	0.6	1.8	09/02/2022	08/02/2023	Confirmation pending		Active without response
	Rubkona (Bentiu IDP)	430	19	4	0.9	2.3	23/09/2022	13/01/2023	22-29 Nov	77.2	Active with response
	Pariang	18	9	0	0.0	0.1	17/12/2022	17/01/2023			Active without response
UPPER NILE	Malakal	130	11	0	0.0	0.6	08/07/2022	01/02/2023		73%	Active with response
	Melut	131	11	0	0.0	1.5	18/10/2022	31/01/2023	16-24 Dec	114%	Reactive Campaign done awaiting 30 days before new samples collected to determine impact of intervention
WARRAP	Tonj North	52	0	0	0.0	0.2	10/03/2022	21/01/2023			Active without response
WBeG	Raja	50	16	0	0.0	0.4	08/01/2022	21/11/2022	2 May-5 Jul	70%	Controlled with response
WES	Mvolo	26	0	1	3.8	0.2	26/05/2022	22/01/2023			Active without response
	Mundri East	20	2	0	0.0	0.1	18/04/2022	31/01/2022			Active without response



Map showing states/counties affected by measles and the outbreak status in 2022 and 2023

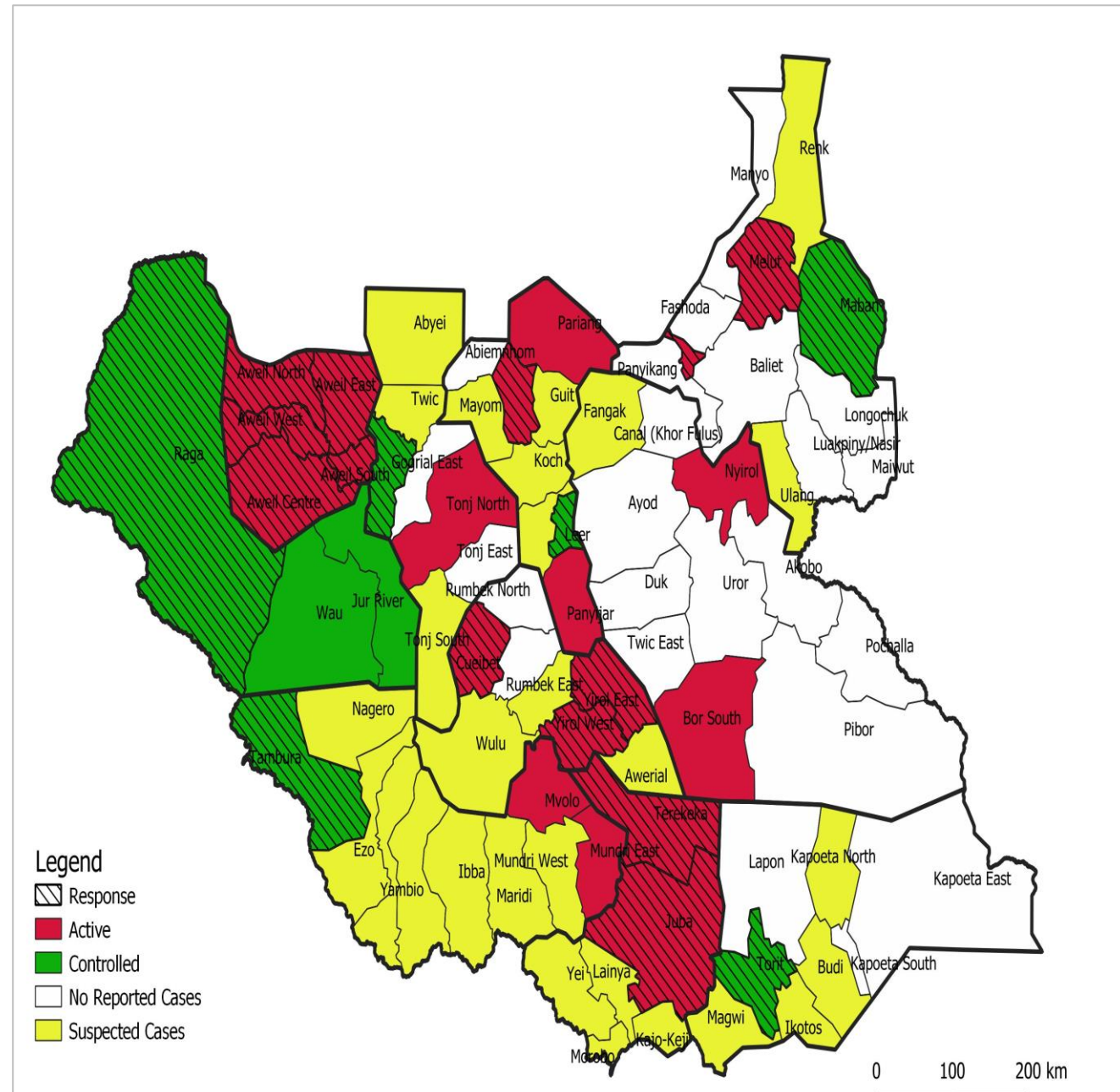


Distribution of measles cases and deaths by age groups in South Sudan, 2022-2023

Age Groups	Cases	Deaths	Proportion, %	CFR, %
0-11 months	1,339	10	26.0	0.7
1-4 years	2,452	32	47.7	1.3
5-9 years	758	6	14.7	0.8
10-14 years	346	3	6.7	0.8
15+ years	250	2	4.9	1.0
Total	5,145	53	100	1.0

Distribution of cases by year of onset

FINAL CLASSIFICATION	2022		2023		TOTAL
	NO. OF CASES	%	NO. OF CASES	%	
Lab confirmed	392	9.5	36	3.6	428
Epi-linked	2825	68.3	56	5.6	2881
Clinically Compatible	391	9.5	898	89.1	1289
Total	3608	87.2	990	98.2	4598
Discarded (-ve)	529	12.8	18	1.8	547
Grand Total	4137	100.0	1008	100.0	5145



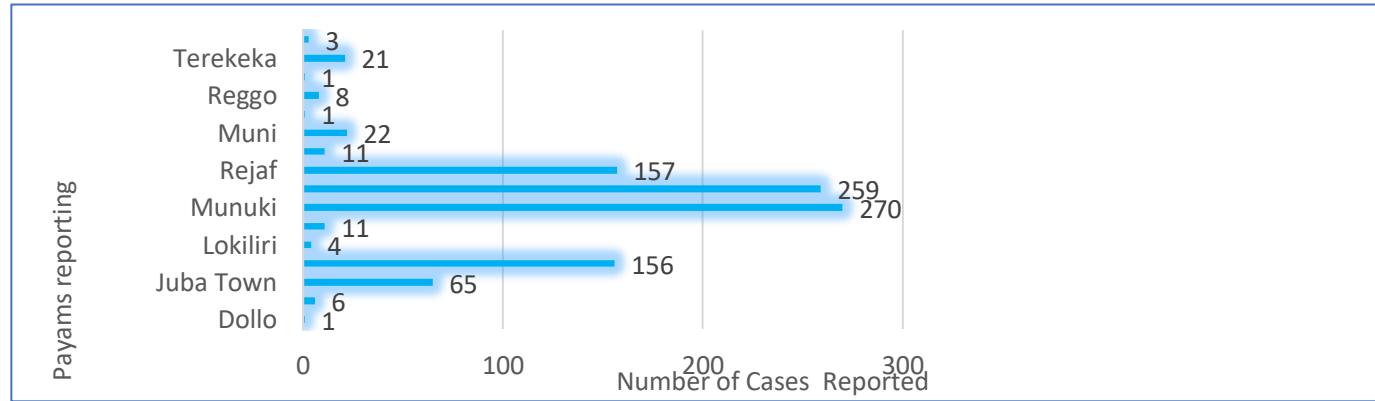
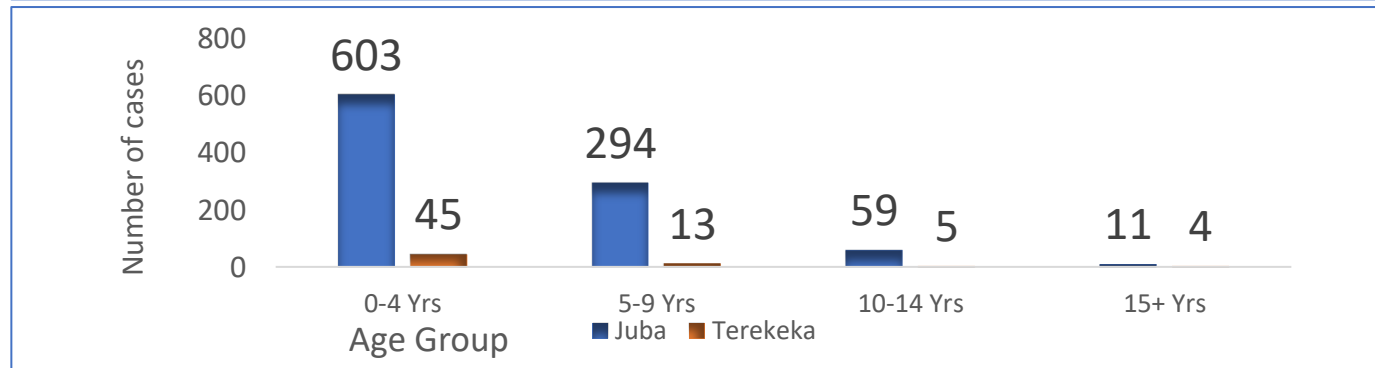
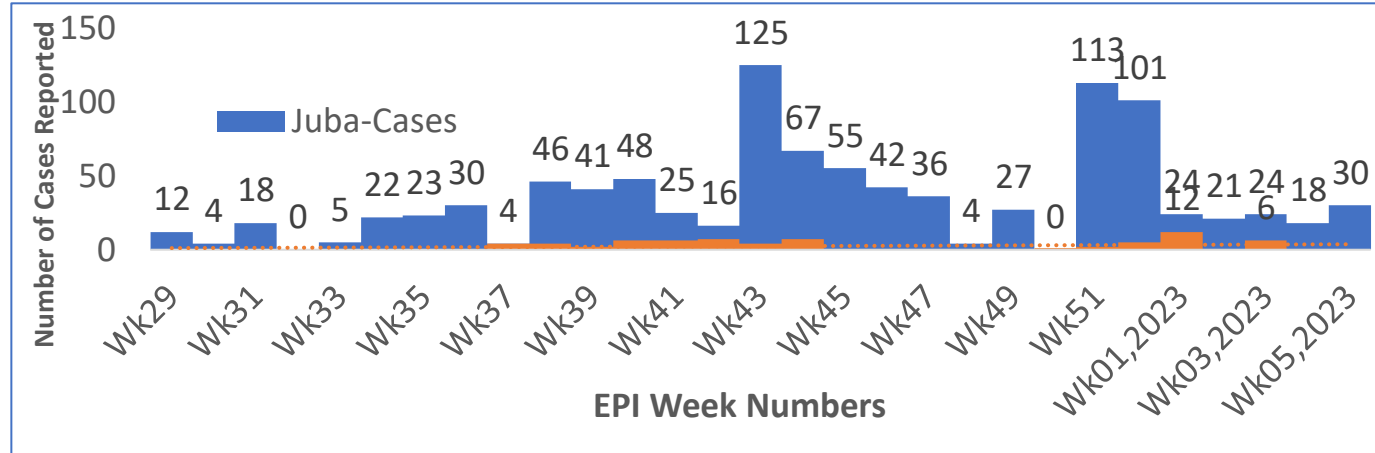
- Legend**
- Response
 - Active
 - Controlled
 - No Reported Cases
 - Suspected Cases

0 100 200 km



Measles cases in Juba from week 29,2022 to Wk05, 2023 and Terekeka from week 37 to Week 04, 2023.

- Suspected measles cases started in week 29, 2022 in Juba County and week 37, 2022 in Terekeka county.
- A total of 964 suspected cases of measles have been reported from nine payams within Juba and seven payams in Terekeka counties as of **week 5, 2023**.
- Majority (81%) of cases in Juba are from Northern Bari, Kator, Munuki, and Rejaf Payams.
- More than half of the cases (62%) are in ages less than 5 years of age
- Active case search and line listing of cases are ongoing, and cases have been referred to the nearest health facilities for case management.
- Cases are being managed in different health facilities; this includes the provision of supportive management, vitamin A supplementation, and treatment of secondary infections
- Reactive vaccination campaigns conducted in only five affected payams by MEDAIR, IOM, and WHO.

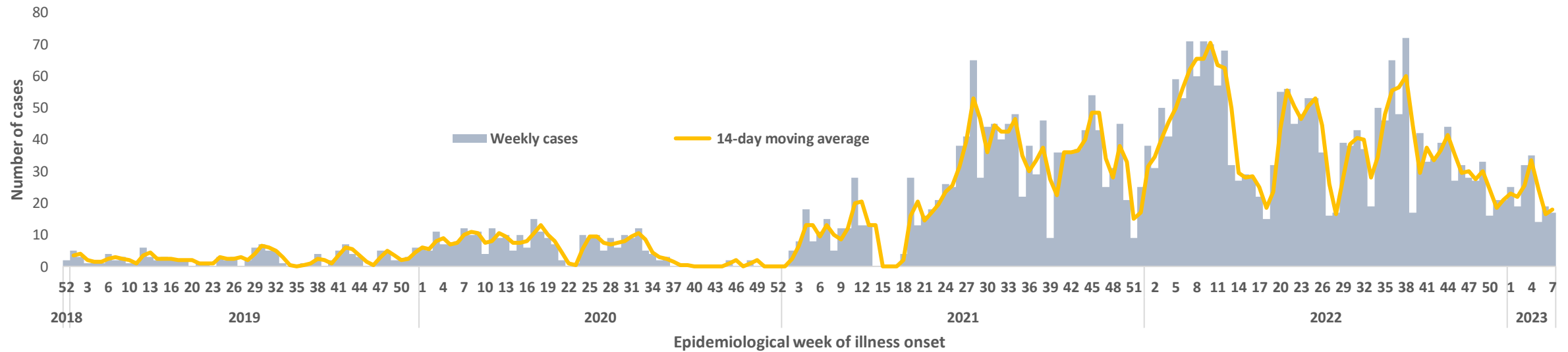


EVENT-BASED SURVEILLANCE



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

Hepatitis E Virus [HEV] cases in Bentiu IDP camp, wk 1, 2019 to wk 07, 2023



Descriptive epidemiology

- The persistent transmission of HEV in the Bentiu IDP camp continues with 3,958 cases since the beginning of 2019
- 17 new cases reported in week 07, 2023. 3,958 cumulative cases including (27 deaths) have been reported since the outbreak started in 2018 **from a peak of 60 cases every fortnight by week 8, 2021 to 17 cases every fortnight by week 07, 2023**
- All the cases have been managed as outpatient cases except for seven cases that were admitted in 2020
- No death was reported in 2022
- 47% are female and 53% are male. Within the IDP camp, the sector-specific attack rates for HEV disease are highest in sectors 3 and 5.

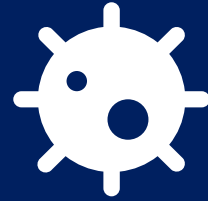
HEV response update

1. Biweekly coordination forum comprising health, WASH, and other clusters
2. Surveillance enhanced through the provision of refresher training, distribution of case definition, and other reporting tools
3. Weekly analytics of the outbreak data to monitor trends and inform decision making
4. Case management for symptomatic cases provided by the PHCCs; severe cases are referred to MSP PoC Hospital
5. The HEV vaccination campaign was conducted in Bentiu IDP Camp; the first round with a coverage of 91% and the second round with a coverage of 82% among those aged 16-40 years (incl. pregnant women).
6. Risk communication and awareness are enhanced through household health promoters/hygiene promoters; radio talk shows and messaging. Cholera and HEV messages were disseminated.
7. Enhanced access to safe drinking water, sanitation facilities such as latrines, mass clean-up campaigns, regular water quality testing, and monitoring

HEV response challenges

1. Lack of long-term investment to improve the WASH situation in the camp
2. Lack of meaningful behavioral changes among the population
3. Frequent population movements between the IDP and host communities; the host community was not vaccinated
4. Floods have worsened the WASH situation in the camp

COVID-19 UPDATES

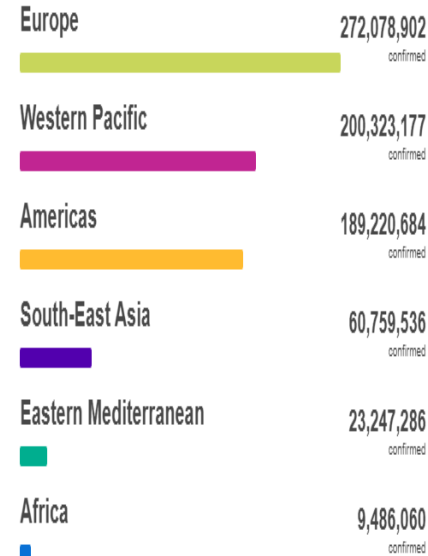




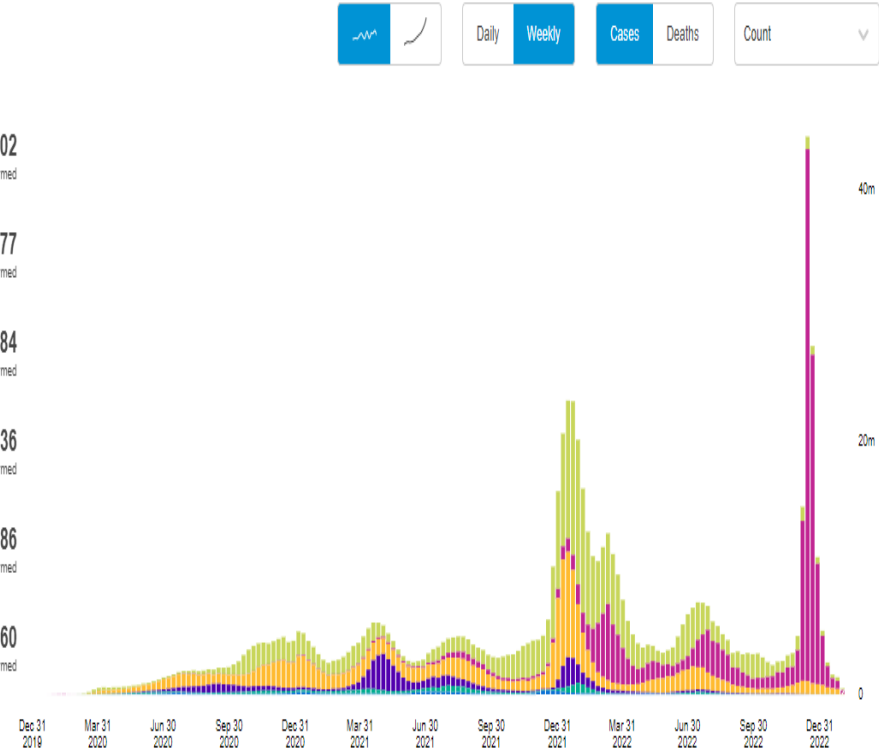
Situation update as of 17 February 2023

- **Globally**, as of 17 February 2023, there have been **756,581,850** confirmed cases of COVID-19, including **6,844,267** deaths, reported to WHO. As of 13 February 2023, a total of **13,195,832,385** vaccine doses have been administered.
- **In Africa**, as of **20 January 2023** there have been **9,491,684** confirmed cases of COVID-19, including **175,284** deaths reported to the WHO
- **In South Sudan**, from 3 January 2020 to 8:47pm CET, 17 February 2023, there have been **18,368** confirmed cases of COVID-19 with **138** deaths, reported to WHO. As of 28 January 2023, a total of **2,345,851** vaccine doses have been administered..
- **Second round of the COVAX campaign has been launched** and the campaign is ongoing in most counties to cover the remaining 72 counties

Situation by WHO Region



Source: World Health Organization
 Data may be incomplete for the current day or week.



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



**OVERALL
HUMANITARIAN CRISIS
OVERVIEW**

Ongoing Humanitarian Crisis as of January 2023



- South Sudan continues to face multiple emergencies that are eroding communities' coping capacities and increasing humanitarian needs in the country in 2023.
- According to the Humanitarian Response Plan 2023, it is estimated that 9.4 million people including 2.2 million women, 4.9 million children, and 337,000 refugees, are projected to need humanitarian assistance and protection services in 2023.
- Communities faced critical needs in January 2023 owing to the impact of multiple emergencies such as recurring subnational violence, food insecurity, flooding, inaccessibility, and public health emergencies.
- Floodwater levels although receding remained high in Bentiu and Rubkona towns in Unity, and multiple locations in Jonglei and Upper Nile impeding livelihood activities, exposing people to waterborne diseases, and disrupting the provision of basic services.
- Although projected to improve marginally during December 2022-March 2023, the food insecurity situation is projected to worsen during the lean season, April-July 2023, as some 7.8 million people (63% of the population) will likely face Crisis (IPC Phase 3) or worse acute food insecurity, with 43 000 people likely to be in Catastrophe (IPC Phase 5) acute food insecurity in Akobo, Canal/Pigi and Fangak counties of Jonglei State; and Leer and Mayendit counties of Unity State.
- Further, hostilities erupted in several parts of the country in December 2022 and January 2023. The violence between communities in Greater Pibor Administrative Area displaced 17000 people to Pibor while the clashes between cattle keepers and host communities displaced 5000 in Mangala in Juba and 2500 people in Kajo Keji County. Nineteen people were killed during the violence clashes in Kajo Keji County.



**OVERALL
CONCLUSIONS AND
RECOMMENDATIONS**

Conclusions



- In week **07, 2023**, the IDSR reporting timeliness and completeness were **86%** and **90%** respectively and timeliness and completeness for EWARN sites were at **86%** and **96%** respectively
- Of the 39 alerts reported in **week 07, 2023**; the majority were for, **malaria (19) and measles (5)**,
- Measles outbreaks confirmed in **28 counties** since the beginning of the year 2022 to week 07 2023. with the latest counties to confirm outbreak are Mvolo, Mundri East, Pariang, Awerial, and Rumbek Centre
- Reactive measles vaccination campaigns were conducted in 19 counties (16 counties in 2022, 3 in 2023), with **770,581** children vaccinated in 2022 and **87 693** children in 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with **3,958** cases since the beginning of 2019 and **17 cases** reported in **week 07 of 2023**.
- **Other Emergencies** include Intercommunal fighting, food insecurity, and floods in some counties in **Unity, Upper Nile, and Jonglei states**.

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
- Conduct reactive measles vaccination campaign in counties with confirmed outbreaks and advocate for enhanced routine immunization through PIRI
- Continue with preparedness activities to strengthen surveillance at all levels including conducting after-action reviews and simulation exercises.
- Continue to support the multicluster HEV response strategy in the Bentiu IDP camp and advocate for depopulation of

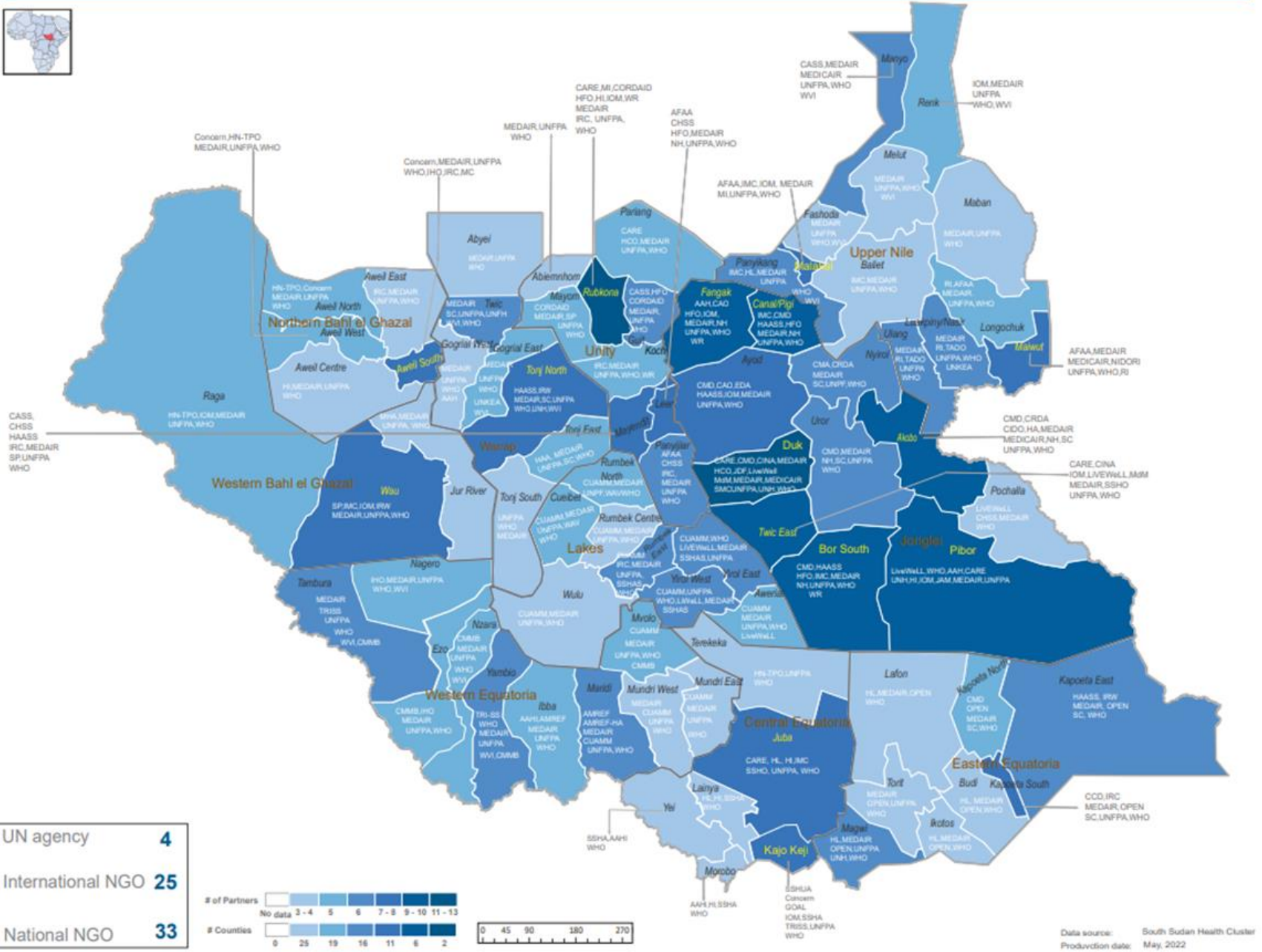


ISR timeliness & completeness performance at county level for week 07 and 06 of 2023 (2)



STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 07	Timeliness Percentage of WK 07	No. of HF's Reported regardless of time in WK 07	Completeness Percentage of WK 07	No. of HF's Reported regardless of time in Wk 06	Completeness Percentage of WK 06	STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 07	Timeliness Percentage of WK 07	No. of HF's Reported regardless of time in WK 07	Completeness Percentage of WK 07	No. of HF's Reported regardless of time in WK 06	Completeness Percentage of WK 06
Jonglei	Bor	19	19	100%	19	100%	19	100%	Warrap	Tonj East	12	12	100%	12	100%	12	100%
Jonglei	Pochalla	7	7	100%	7	100%	7	100%	Warrap	Tonj North	15	15	100%	15	100%	15	100%
Jonglei	Duk	13	13	100%	13	100%	13	100%	Warrap	Tonj South	12	12	100%	12	100%	12	100%
EES	Magwi	17	17	100%	17	100%	16	94%	Upper Nile	Baliet	4	4	100%	4	100%	4	100%
EES	Budi	17	17	100%	17	100%	10	59%	Upper Nile	Fashoda	5	5	100%	5	100%	5	100%
EES	Lopa Lafon	15	15	100%	15	100%	15	100%	Warrap	Gogrial West	31	30	97%	30	97%	31	100%
EES	Torit	11	11	100%	11	100%	11	100%	Warrap	Abyei	14	13	93%	14	100%	11	79%
EES	Kapoeta South	9	9	100%	9	100%	9	100%	Warrap	Twic	28	25	89%	25	89%	28	100%
EES	Kapoeta North	10	10	100%	10	100%	10	100%	Upper Nile	Longechuk	9	8	89%	9	100%	9	100%
EES	Ikotos	19	18	95%	19	100%	19	100%	Warrap	Gogrial East	15	13	87%	15	100%	14	93%
EES	Kapoeta East	7	6	86%	6	86%	5	71%	Upper Nile	Maban	13	11	85%	11	85%	12	92%
Jonglei	Canal Pigi	14	9	64%	9	64%	10	71%	Upper Nile	Akoka	5	4	80%	5	100%	4	80%
Jonglei	Pibor	5	3	60%	3	60%	3	60%	Upper Nile	Maiwut	12	9	75%	9	75%	9	75%
Jonglei	Akobo	15	7	47%	7	47%	6	40%	Upper Nile	Makal	7	5	71%	7	100%	5	71%
Jonglei	Fangak	18	5	28%	5	28%	4	22%	Upper Nile	Luakpiny Nasir	10	7	70%	9	90%	9	90%
Jonglei	Twic East	9	2	22%	2	22%	9	100%	Upper Nile	Panyikang	3	2	67%	2	67%	2	67%
Jonglei	Uror	1	0	0%	1	100%	1	100%	Upper Nile	Ulang	10	6	60%	8	80%	8	80%
Jonglei	Nyirrol	2	0	0%	1	50%	1	50%	Upper Nile	Manyo	11	4	36%	6	55%	11	100%
Jonglei	Ayod	13	0	0%	0	0%	0	0%	Upper Nile	Renk	6	0	0%	0	0%	0	0%
Jonglei									Upper Nile	Melut	6	0	0%	0	0%	0	0%

South Sudan Health Cluster HRP Partners 2022



UN agency	4
International NGO	25
National NGO	33



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To access the IDSR bulletins for 2022 use the link below:

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

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

