



**South Sudan  
Ministry of Health**

**Integrated Disease surveillance  
and response (IDSR)**



**World Health  
Organization**  
South Sudan

**Epidemiological Bulletin Week 11, 2023  
(13-19 March)**



## Major epidemiological highlights in week 11 of 2023

- In week 11, 2023, the IDSR reporting timeliness and completeness were **83%** and **86%** respectively and timeliness and completeness for EWARN sites were at **89%** and **92%** respectively
- A total of 121 alerts were triggered in week 11, 2023 most of the alerts were for AWD (36), measles(24), malaria(26) and bloody diarrhea (22) alerts
- Ministry of Health Republic of South Sudan declared cholera outbreak in Malakal with a total of 461 cases reported with one (2) death giving a CFR of 0.43% from February 22 to 23 March 2023 from both Malakal IDP camp and town
- Measles outbreaks continue with 5,772 reported; cases, 2,990(51.8%) are epi-linked, 533(9.2%) lab-confirmed, 1,661(28.8%) clinically compatible, and 588(10.2) discarded cases have been reported from epidemiological week 1, 2022, to week 11, 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with 4,025 cases since the beginning of 2019 and 16 new cases reported in week 11 of 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 11 & 10 of 2023



Timeliness States Ranking	States	Number of reporting sites	No. of HFs Reported on Time in WK 11	Timeliness Percentage of WK 11	No. of HFs Reported on Time in Wk 10	Timeliness Percentage of WK 10
1st	WES	219	219	100%	216	99%
2nd	CES	128	127	99%	123	96%
3rd	Lakes	113	108	96%	88	78%
4th	NBGZ	84	77	92%	82	98%
5th	Unity	95	82	86%	68	72%
6th	WBGZ	78	66	85%	25	32%
7th	Upper Nile	101	76	75%	55	54%
8th	Warrap	127	93	73%	110	87%
9th	EES	105	62	59%	93	89%
10th	Jonglei	129	64	50%	66	51%
	South Sudan	1179	974	83%	926	79%

### 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 11 stands at 84% while in week 10 it was 79% and 6 states were above the target of 80% in week 11.

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



# IDSR Completeness performance at State level for week 11 & 10 of 2023



Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 11	Completeness Percentage of WK 11	No. of HFs Reported regardless of time in WK 10	Completeness Percentage of Wk 10
1st	WES	219	219	100%	222	101%
2nd	Lakes	113	113	100%	113	100%
3rd	CES	128	126	98%	126	98%
4th	NBGZ	84	81	96%	82	98%
5th	Unity	95	82	86%	78	82%
6th	WBGZ	78	66	85%	68	87%
7th	Upper Nile	101	80	79%	80	79%
8th	EES	105	83	79%	103	98%
9th	Warrap	127	97	76%	117	92%
10th	Jonglei	129	67	52%	78	60%
	<b>South Sudan</b>	<b>1179</b>	<b>1014</b>	<b>86%</b>	<b>1067</b>	<b>91%</b>

### 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 11 stands at 87% while in week 10 it was 92% and 6 states were above the target of 80% in week 11.

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



# Surveillance: EWARS Timeliness performance indicator by partner for week 11 and 10 of 2023



Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received on Time in Week 11	Timeliness of Week 11	# of reports received on Time in Week 10	Timeliness of Week 10
HFO	10	8	80%	8	80%
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%
AFAA	1	1	100%	1	100%
IMC	22	22	100%	22	100%
SMC	6	6	100%	6	100%
SSHCO	1	1	100%	1	100%
UNIDOR	2	2	100%	2	100%
IRC	1	1	100%	1	100%
Islamic Relief	5	5	100%	5	100%
IOM	10	9	90%	9	90%
MSF-E	6	5	83%	4	67%
ForAfrika	6	4	67%	0	0%
MSF-H	4	2	50%	4	100%
SCI	2	0	0%	1	50%
<b>TOTAL</b>	<b>87</b>	<b>77</b>	<b>89%</b>	<b>75</b>	<b>86%</b>

The Timeliness of EWARS in partners' supported sites stands at **91%** in week **11** while in week **10** it was at **88%**.



# Surveillance: EWARS completeness performance indicator by partner for week 11 and 10 of 2023

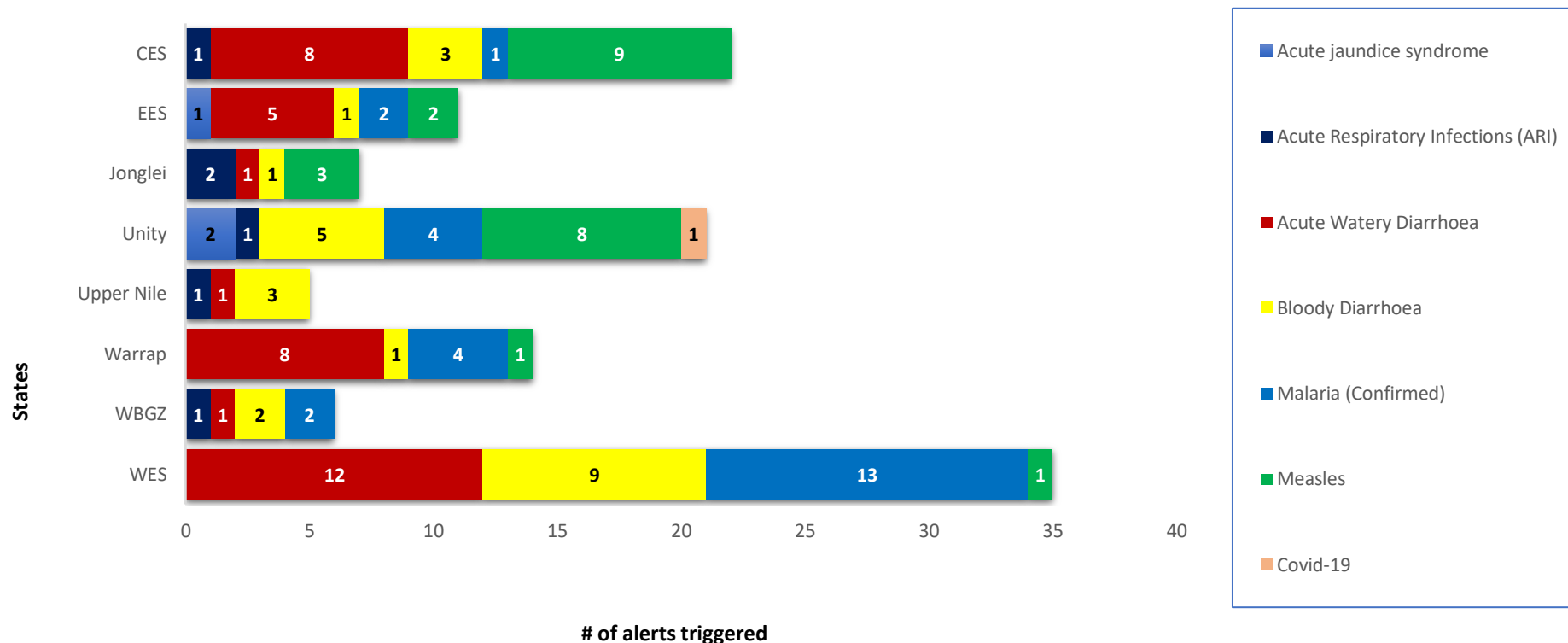


Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received regardless of Time in Week 11	Completeness of Week 11	# of reports received regardless of Time in Week 10	Completeness of Week 10
IRC	1	1	100%	1	100%
SMC	6	6	100%	6	100%
CIDO	1	1	100%	1	100%
Medicair	5	5	100%	5	100%
TRI-SS	2	2	100%	2	100%
World Relief	3	3	100%	3	100%
AFAA	1	1	100%	1	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%
Islamic Relief	5	5	100%	4	80%
IOM	10	9	90%	9	90%
HFO	10	9	90%	8	80%
MSF-E	6	5	83%	4	67%
ForAfrika	6	4	67%		0%
SCI	2	0	0%	2	100%
<b>TOTAL</b>	<b>87</b>	<b>80</b>	<b>92%</b>	<b>75</b>	<b>86%</b>

The Completeness of EWARS in partners' supported sites stands at **92%** in week **11** while in week **10** it was at **86%**.



# Alert by disease and States in week 11 of 2023 [ a total of events specific alerts generated by state



## This week a total of 121 Alerts were triggered of which 64 are from outbreak prone diseases as Per the broken-down below

- ❖ 36 AWD alerts: these alerts were triggered from the following States, CES(8), EES(5), Jonglei (1), Warrap(8), UNS(1), and WES(12), WBGZ(1)
- ❖ 24 Measles alert: these were triggered from following States ;CES(9), EES(2), Jonglei(3), Unity(8), Warrap(1), WES(1).
- ❖ 3 AJS alert: these were from MSF-H Bentiu IDP Hospital, MSF-H Leer PHCC and Imatong PHCC
- ❖ 1 COVID-19 alert: This was from Yida Centre A PHCC in Pariang County





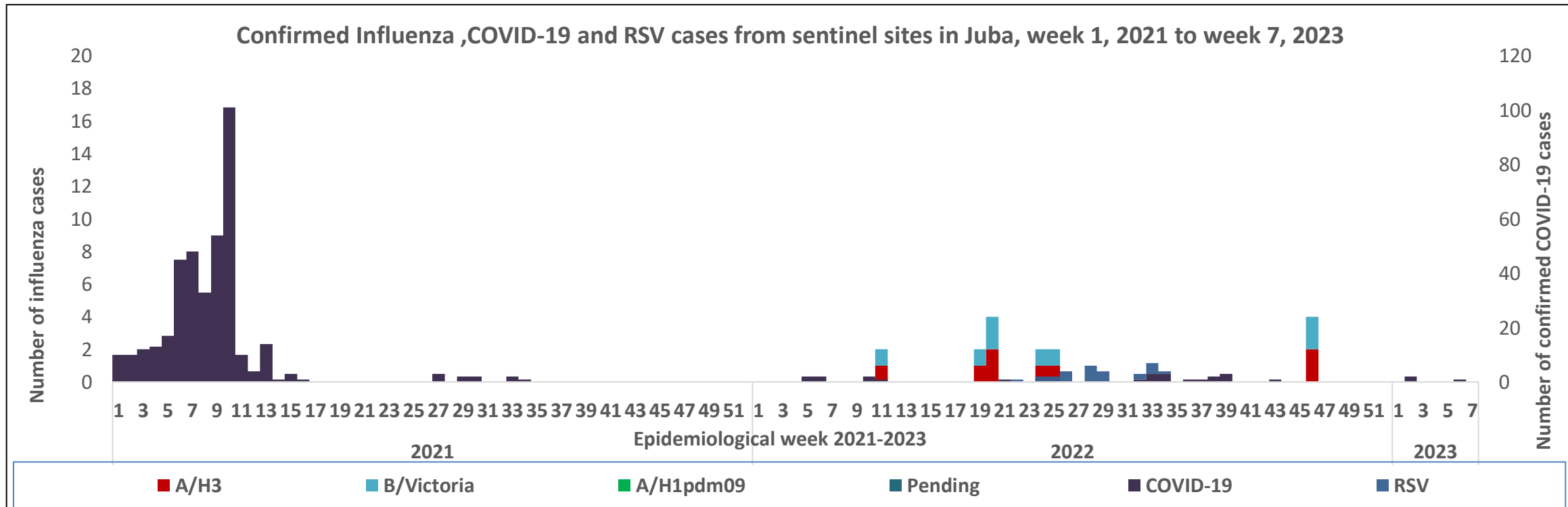
# INDICATOR-BASED SURVEILLANCE



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

# 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**





# **CHOLERA OUTBREAK IN MALAKAL**

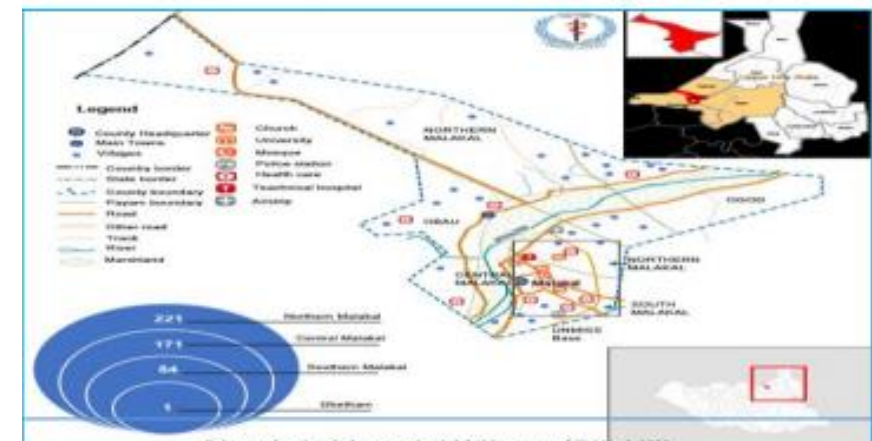


# Key Epidemiological highlights from Malakal as of 23<sup>rd</sup> March 2023



- On 1<sup>st</sup> March 2023, the National Ministry of Health received information of suspected cholera cases with two (2) RDT positive
- On 2<sup>nd</sup> March 2023, nine (9) samples were received at the NPHL, and **two (2) samples tested positive for vibrio cholerae** by Polymerase chain reaction (PCR) on 6<sup>th</sup> March 2023.
- on 7<sup>th</sup> March 2023, the National Ministry of Health declared Cholera outbreak in Malakal county, Upper Nile State
- Cumulatively, since 22<sup>nd</sup> February 2023 to 23 March a total of 461 cases with one (2) death (CFR-0.43%)
- Fourteen (14) new cases and 2 deaths have been reported on 23 March 2023 (POC = (3) and Town =( 11)
- Three (03) cases admitted as of 23 March, 2023
- Overall, 246 (53%) of the cases are males and 215(47%) are females.
- Children of age 1 – 4 years old are the most affected accounting for 292 (63%) of the total cases reported followed by <1 years old 110 (24%).
- Oral Cholera vaccination campaign commenced on 16 March 2023 targeting 53,000 individuals aged 1 year and above in the POC and Malakal town.
- Cumulatively, 37,890 people have been vaccinated (Malakal town and POC) with OCV for 5 days s of the campaign achieving 58% coverage

Cholera affected areas, Malakal County, Upper Nile State, South Sudan



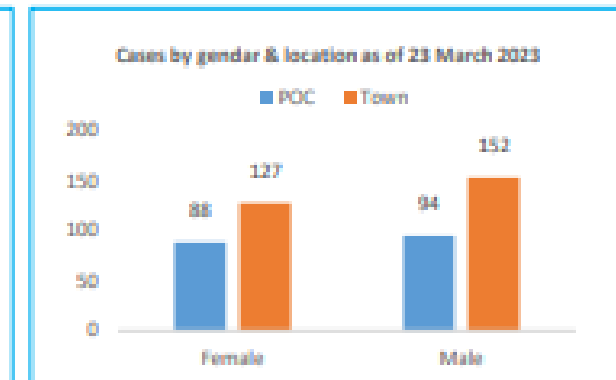
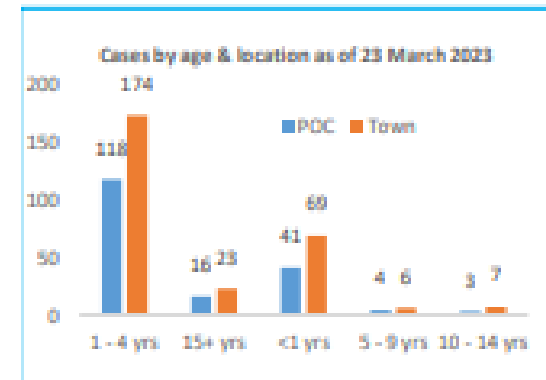
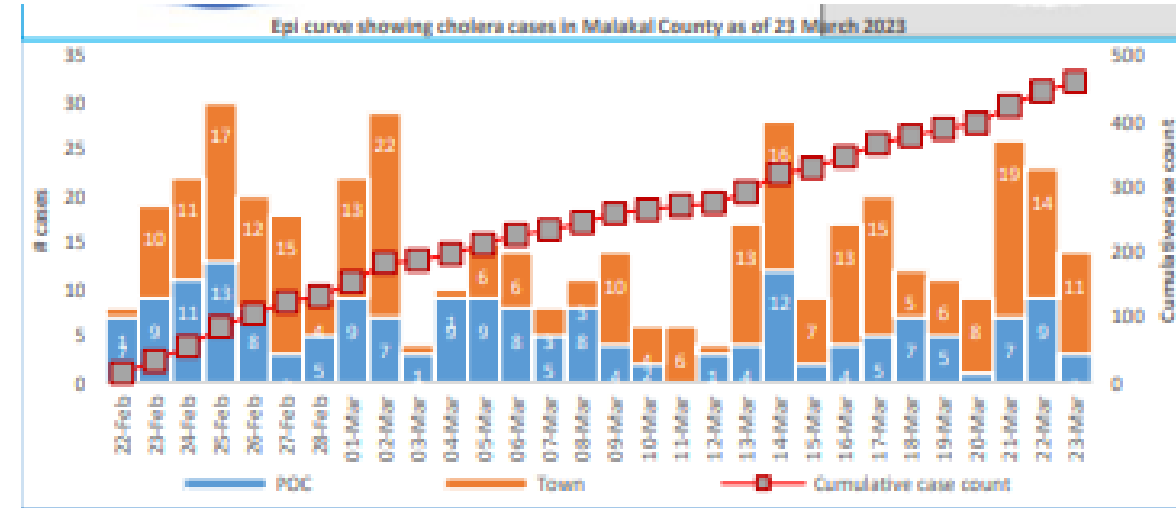
Epi curve showing cholera cases in Malakal County as of 23 March 2023





## Descriptive Epi

- Fourteen (14) new Cholera cases have been recorded in the past 24 hours three(3) in the POC and eleven(11) from main town.
- No new death has been recorded in the past 24 hours.
- Cumulatively, 461 cholera cases and 2 death (CFR- 0.43%) has been recorded since the onset of the outbreak.
- Overall, 246 (53%) of the cases are males and 215(47%) are females.
- Children of age 1 – 4 years old are the most affected accounting for 292 (63%) of the total cases reported followed by <1 years old 110 (24%).
- Oral Cholera vaccination campaign commenced on 16 March 2023 targeting 53,000 individuals aged 1 year and above in the POC and Malakal town.
- Cumulatively, 37,890 people have been vaccinated (Malakal town and POC) with OCV for 5 days s of the campaign achieving 58% coverage
- The current cholera outbreak is localized in Malakal Upper Nile State on the side boarding Sudan.
- A total of (03) new cases are in isolation in Malakal CTU.
- MSF is supporting case management at the CTU in Malakal town and POC
- The national MOH and WHO Country Office have deployed a technical team to visit Malakal to support the response on 20th March 2023





# Key interventions and Challenges in Malakal as of 23<sup>rd</sup> March 2023

## Key Interventions

- The National Ministry of Health declared a Cholera outbreak in Malakal county, Upper Nile State on 7<sup>th</sup> March 2023,
- The National EOC was immediately activated and MOH IMS instituted
- Ongoing coordination at both National and State levels to discuss the national and State Cholera Taskforce continue to meet regularly to provide operational and strategic guidance to the ongoing cholera outbreak response.
- A multisectoral National and State RRT continue to provide epidemiological investigation and technical support to the response interventions in Malakal County.
- Launching of the Oral cholera vaccination targeting 53,00 individuals aged 1 year and above on 16 March 2023
- Over 37,890 people have been vaccinated both in the POC and Malakal town with a coverage of 58% in 5 days.
- WHO doing orientation to partners to use the investigation forms
- A joint supportive supervision by MOH and WHO was conducted to the CTUs/CTCs and OCV Sites. The purpose of the visit is to provide strategic and technical guidance of the response.
- The director of emergency preparedness and response in the MOH has visited Malakal to assess the response interventions and provide support.
- WHO hired 2 additional vehicles to support response activities in Malakal.
- WHO is dispatching 1 x 48sqm and 1 x 24sqm medical tents to Malakal to support the ongoing Cholera response.
- MOH with support from WHO continue to provide orientation to partners on sample collection, filling of cholera investigation forms, and testing using RDT in the affected location and at-risk counties.
- Distribution of WASH NFIs which was started on 21 March is ongoing. Some 1,081 kits were provided to 1,081 households estimated to benefit 3,638 individuals (879 men, 1,038 women, 868 boys, 847 girls).
- Hand washing facilities and soaps were distributed to 36 government institutions in Malakal town, 16 points of entry and 4 IDPS sites.

*Source: Situation report: No. 008*

## Challenges

- Inadequate access to safe and clean water due to limited WASH supplies.
- Sub-optimal risk communication and community engagement in cholera affected high-risk locations.
- Inadequate RDT testing of suspected cholera cases at the subnational level, most especially, in health facilities and treatment centers.
- Inadequate funding for partners to respond to the cholera outbreak in Malakal.
- Lack of designated ambulance to facilitate referral of cholera cases and designated vehicle for the safe dignified burial (SDB) team.
- Identification of personnel to be trained safe and dignified burial (SDB).
- Overcrowding in the POC due to the continued influx of IDPs poses is a major challenge to the limited WASH facilities in the POC.
- Inadequate cholera kits and investigation kits for the cholera outbreak response.
- Case management charts are in English making it difficult for healthcare workers who only understand Arabi

# Risk of Cholera spread to other states

Oral cholera vaccination was conducted only in 6 out of the 20 cholera hotspot counties

Significant population movements within Malakal IDP camps (Estimated Population is 34056) and back and forth movement between the IDPs in Juba and the displacement from the recent Tonga- Panyikang crisis.

There is also a challenge of access to safe and clean water and also the practice of open defecation

Continued flooding due to heavy rain experienced in the past 4 years & the next rainy season is likely to start in April





- Translation of case management charts into Arabic language to facilitate easy understanding by healthcare workers.
- Provision of adequate clean and safe water, especially in the cholera outbreak and high-risk locations.
- Enhance cholera RDT testing of suspected cholera cases at health facilities and treatment centers
- Accelerate RCCE interventions at POC and Malakal town.
- Finalize the cholera response plan and budget for resource mobilization.
- Provide a designated ambulance to support the referral of cholera cases.
- Identify and train safe and dignified burial (SDB) teams.
- Raising the 02 emergency 10M<sup>3</sup> Bladder collapsible tank platform- each with mud soil filled in sandbags for 1.5 height to give a good flow of water during fetching
- Dismantle the existing water supply pipeline at Bam from St. Andrew primary school- Daniel Comboni Community tap-stand and reconnect with the same pipeline diameter for good flow pressure at the collection point.
- Training of mobile sanitation community committee on basic sanitation topics and messages prior to general clean-up campaign to maintain clean environment.
- Decommission of non-functional latrines in the PoC
- Coordination with MSF on WASH NFI distribution targeting the affected cases after discharge.
- Strengthen the capacity of Malakal Hospital to perform culture and sensitivity of stool samples

# ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

MEASLES ` UPDATES



# Measles Updates as of week 11 2023

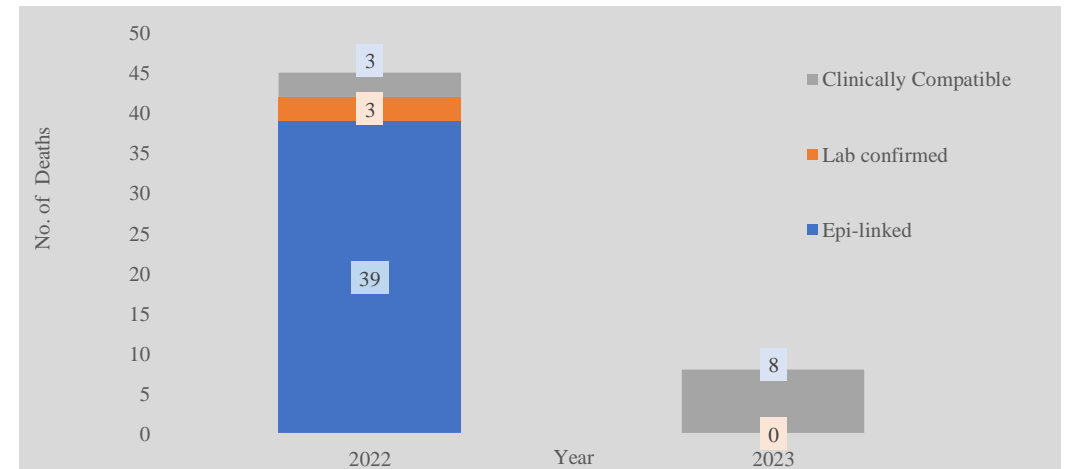


- A total of the 5,772 suspected measles cases, 2,990(51.8%) are epi-linked, 533(9.2%) lab-confirmed, 1,661(28.8%) clinically compatible, and 588(10.2) discarded cases have been reported from epidemiological week 1, 2022, to week 11, 2023
- Thirty-two (32) suspected cases have been reported during the reporting week 09
- 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% (as shown in figure 1 below)
  - No new measles-related death reported this week
- Twenty-three (23) counties have confirmed Measles outbreaks in 2022 and thirteen (13) counties in 2023
  - No newly confirmed outbreak this week
- Thirty-nine (39) counties have reported suspected measles cases in 2023, of which twenty (20) counties have at least one confirmed case
- Thirteen (13) counties (Mvolo, Mundri East, Pariang, Awerial, Rumbek Centre, Kapoeta South, Tonj South, Tonj North, Bor South, Aweil Centre, Rumbek East, Gogrial East and Juba) have confirmed outbreaks in 2023.
- Reactive vaccination campaigns were conducted in 20 counties (16 counties in 2022, 4 counties in 2023), with 858,274 children vaccinated
- The latest reactive measles campaign was conducted in Nyirol county targeting 30,675 children
- The Ministry of Health, WHO, and partners plan to conduct reactive measles vaccination campaigns in Tonj North and Bor South

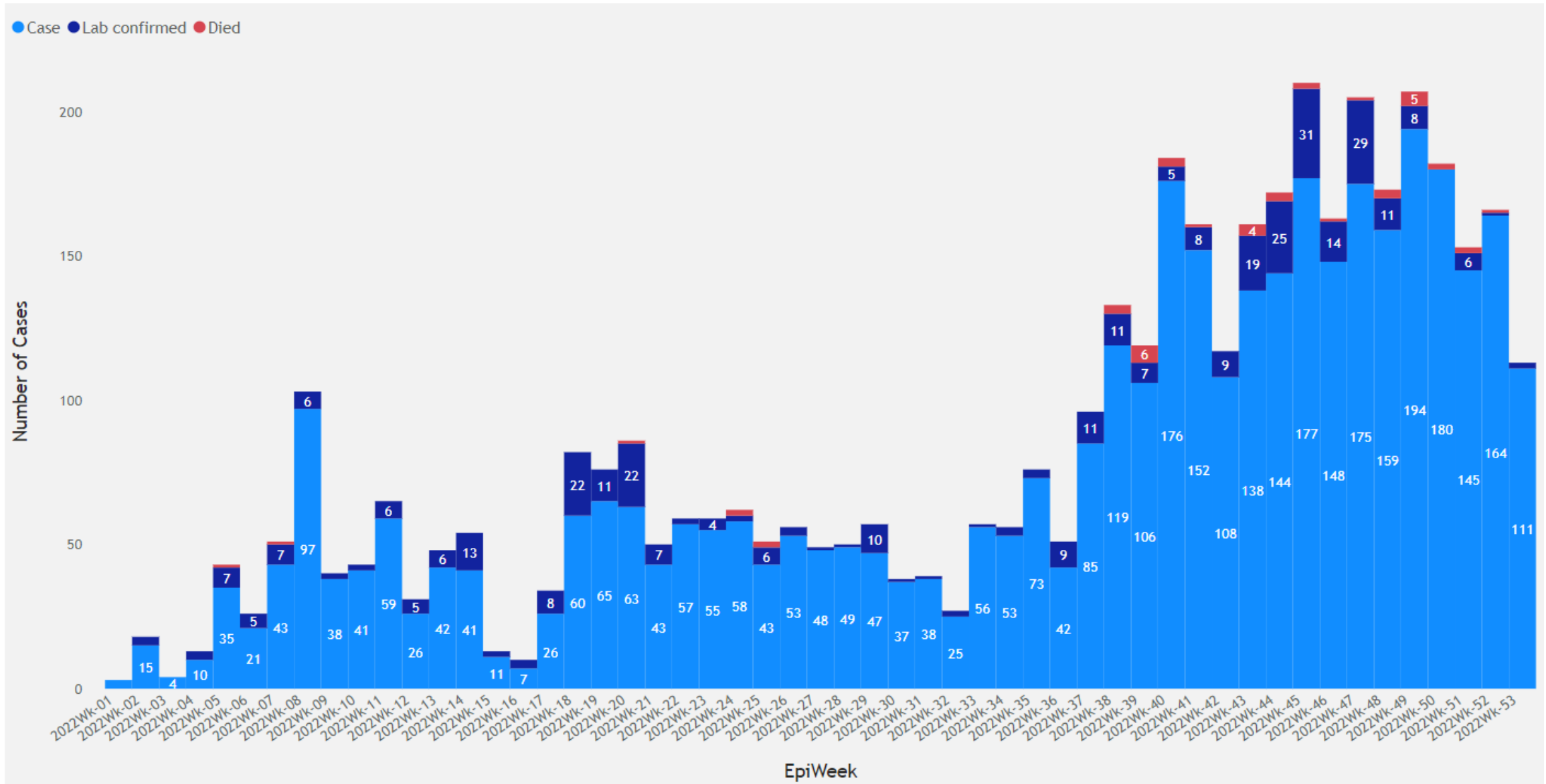
Table: Yearly distribution of cases by final classification

FINAL CLASSIFICATION	2022		2023		TOTAL
	NO. OF CASES	%	NO. OF CASES	%	
Lab confirmed	392	9.5	141	8.6	533
Epi-linked	2825	68.3	165	10.1	2990
Clinically Compatible	391	9.5	1270	77.7	1661
<b>Total</b>	<b>3608</b>	<b>87.2</b>	<b>1576</b>	<b>96.4</b>	<b>5184</b>
Discarded (-ve)	529	12.8	59	3.6	588
<b>Grand Total</b>	<b>4137</b>	<b>100.0</b>	<b>1635</b>	<b>100.0</b>	<b>5772</b>

Deaths by year and final classification



# Measles Updates. EPI Curve as of week 11, 2023

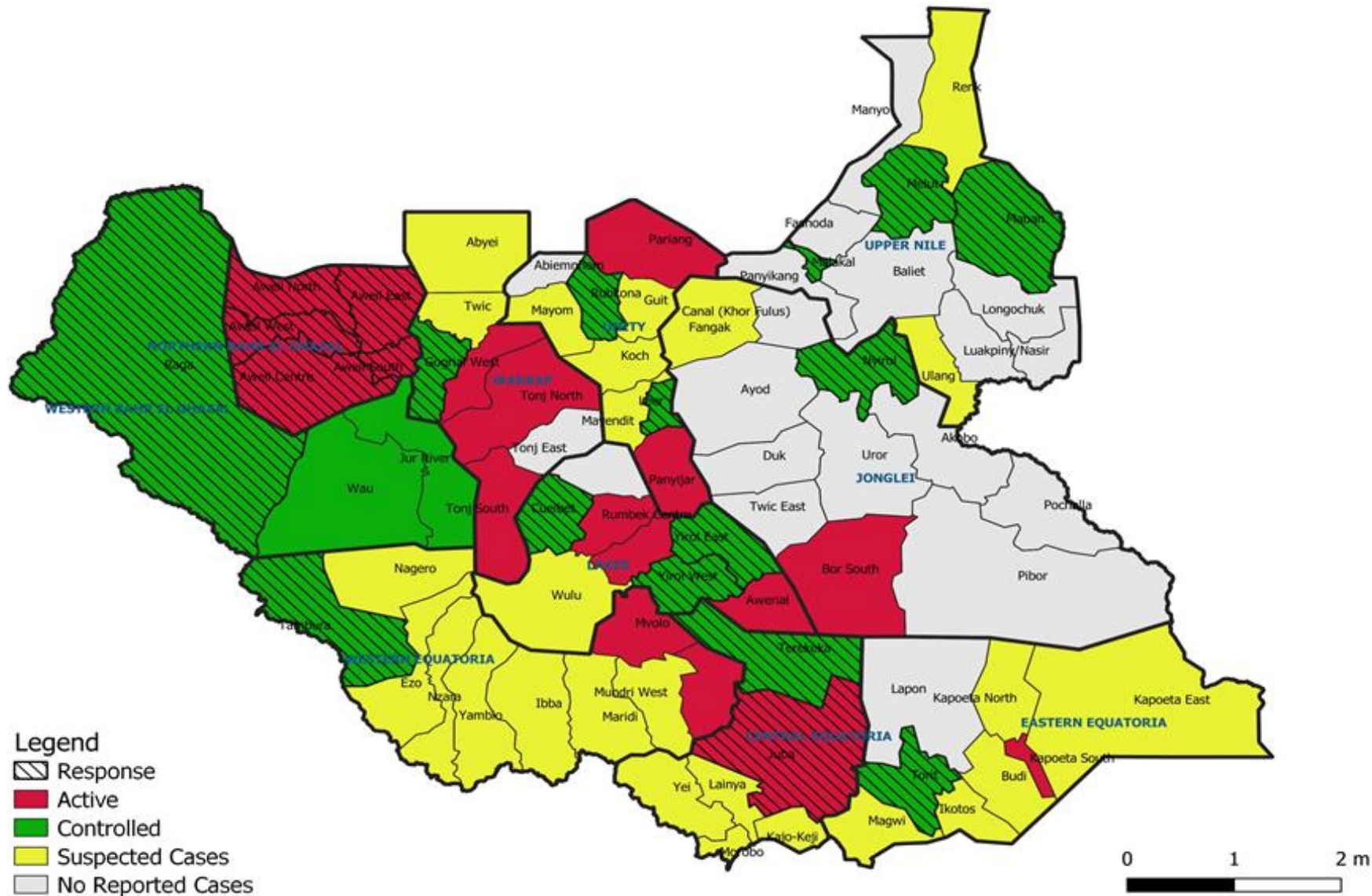


**Table 1: Distribution of measles cases, deaths, attack rates, CFR and response by counties, 2022-2023**



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
<b>CES</b>	Juba	1029	14	18	1.7	1.6	16/01/2022	24/02/2023	29 Aug-29 Oct	69-98%	Active with response
<b>EES</b>	Kapoeta South	7	6	0	0.0	0.0	01/01/2023	04/02/2023			Active without response
<b>JONGLEI</b>	Nyirrol	106	11	0	0.0	0.6	02/11/2022	24/02/2023	Ongoing		Response recently Conducted
	Bor South	28	18	0	0.0	0.1	23/03/2022	14/02/2023			Active without response
<b>LAKES</b>	Cueibet	185	19	9	4.9	0.8	24/01/2022	09/02/2023	18-24 Jan	88%	Response recently Conducted
	Yirol East	108	4	2	1.9	0.9	12/04/2022	05/02/2023	18-24 Jan	141%	Response recently Conducted
	Yirol West	445	24	5	1.1	2.3	20/05/2022	08/02/2023	18-24 Jan	129%	Response recently Conducted
	Rumbek Centre	18	6	0	0.0	0.1	01/01/2023	07/02/2023			Active without response
	Rumbek East	8	4	0	0.0	0.0	26/02/2022	22/02/2023			Active without response
	Awerial	15	6	0	0.0	0.2	14/10/2022	09/01/2023			Active without response
<b>NBeG</b>	Aweil Center	252	65	0	0.0	3.5	21/03/2022	27/01/2023	14-22 Jun	155%	Active with response
	Aweil East	355	29	4	1.1	0.7	10/03/2022	02/02/2023	13-26 Aug	91%	Active with response
	Aweil North	53	11	0	0.0	0.2	03/03/2022	02/02/2023	14-21 Jul	97%	Active with response
	Aweil South	152	15	3	2.0	1.2	20/04/2022	17/01/2023	13-26 Aug	97%	Active with response
	Aweil West	587	26	3	0.5	2.1	06/01/2022	05/02/2023	14-22 Jun	94%	Active with response
<b>UNITY</b>	Panyijar	179	1	1	0.6	1.8	09/02/2022	17/02/2023			Active without response
	Pariang	89	25	0	0.0	0.6	17/12/2022	15/02/2023			Active without response
<b>WARRAP</b>	Tonj North	52	0	0	0.0	0.2	10/03/2022	21/01/2023			Active without response
	Tonj South	8	3	0	0.0	0.0	20/04/2023	10/01/2023			Active without response
	Gogrial East	14	12	0	0.0	0.1	10/02/2023	21/02/2023			Active without response
<b>WES</b>	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







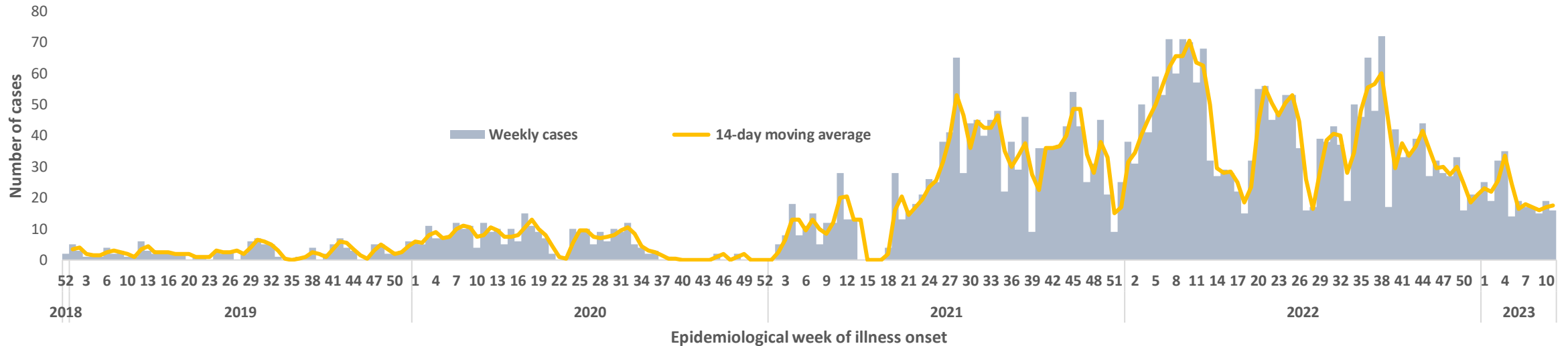
# Vaccination updates

- The MOH, WHO, and partners are planning to start a reactive measles campaign in Tonj North (CCM, AMREF, Islamic Relief) and Bor South (LIVEWELL)
- Reactive vaccination campaign still concluded in Nyirol County(MEDAIR) targeting to vaccinate 30,675 children compilation of report in ongoing
- World Vision International has been endorsed to apply to RRF for funds to support campaigns in Mvolo and Mundri East
- Planning is underway for a nationwide non-selective measles vaccination campaign to start on 25 April 2023.

# ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

HEPATITIS E VIRUS ` UPDATES

Hepatitis E Virus [HEV] cases in Bentiu IDP camp, wk 1, 2019 to wk 11, 2023



### Descriptive epidemiology

- The persistent transmission of HEV in the Bentiu IDP camp continues with 4,025 cases since the beginning of 2019
- **No new** cases were reported in week 11 and zero deaths. The cumulative cases since the onset of the outbreak are 4, 025 cases including 27 deaths.
- 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 for the period week 05, 2022 are highest in sectors 3 and 5.

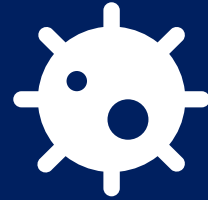
### **HEV response update**

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



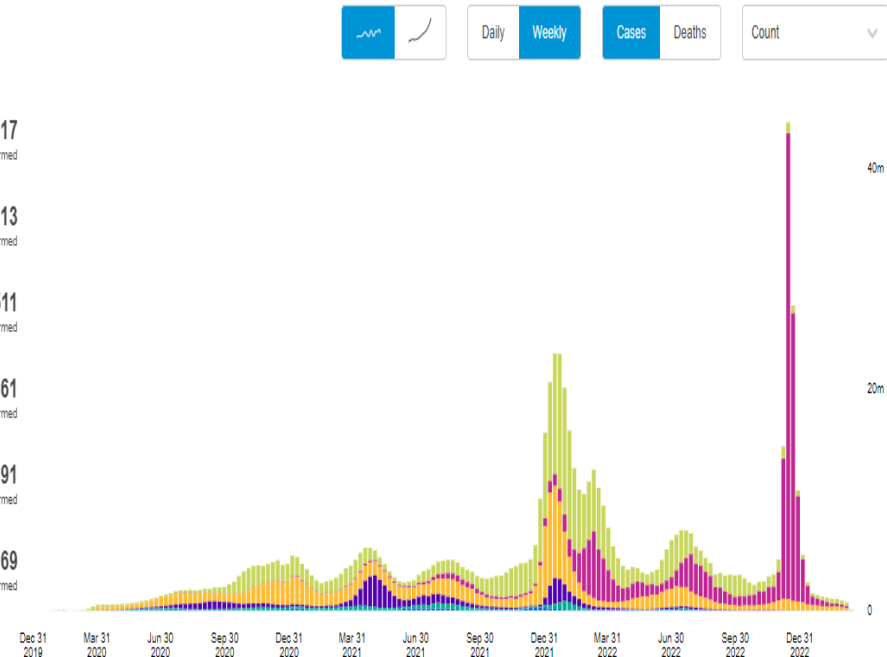
## Situation update as of 21, March 2023

- **Globally**, 21 March 2023, there have been 761,071,826 confirmed cases of COVID-19, including 6,879,677 deaths, reported to WHO. As of 20 March 2023, a total of 13,260,401,200 vaccine doses have been administered.
- **In Africa**, as of 16 March 2023 there have been **9,509,869** confirmed cases of COVID-19, including **175,313** deaths reported to the WHO
- **In South Sudan**, from 3 January 2020 to 21 March 2023, there have been 18 368 confirmed cases of COVID-19 with 138 deaths, reported to WHO. As of 11 March 2023, a total of 3,204,237 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

Europe	274,391,717	confirmed
Western Pacific	201,913,013	confirmed
Americas	191,185,511	confirmed
South-East Asia	60,784,561	confirmed
Eastern Mediterranean	23,286,391	confirmed
Africa	9,509,869	confirmed

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 11, 2023, the IDSR reporting timeliness and completeness were **83%** and **86%** respectively and timeliness and completeness for EWARN sites were **89%** and **92%** respectively
- A total of 126 alerts were triggered in week 11, 2023 most of the alerts were for AWD (36) ,24 measles, 26 malaria bloody diarrhea 22alerts
- Ministry of Health Republic of South Sudan declared cholera outbreak in Malakal with a total of 461 cases reported with one (2) death giving a CFR of 0.43% from February 22 to 23 March 2023 from both Malakal IDP camp and town
- Measles outbreaks continue with 5,772 reported; cases, 2,976(54.8%) are epi-linked, 504(9.3%) lab-confirmed, 1,376(25.3%) clinically compatible, and 577(10.6) discarded cases have been reported from epidemiological week 1, 2022, to week 09, 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with 4,025 cases since the beginning of 2019 and 16 new cases reported in week 11 of 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
- 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



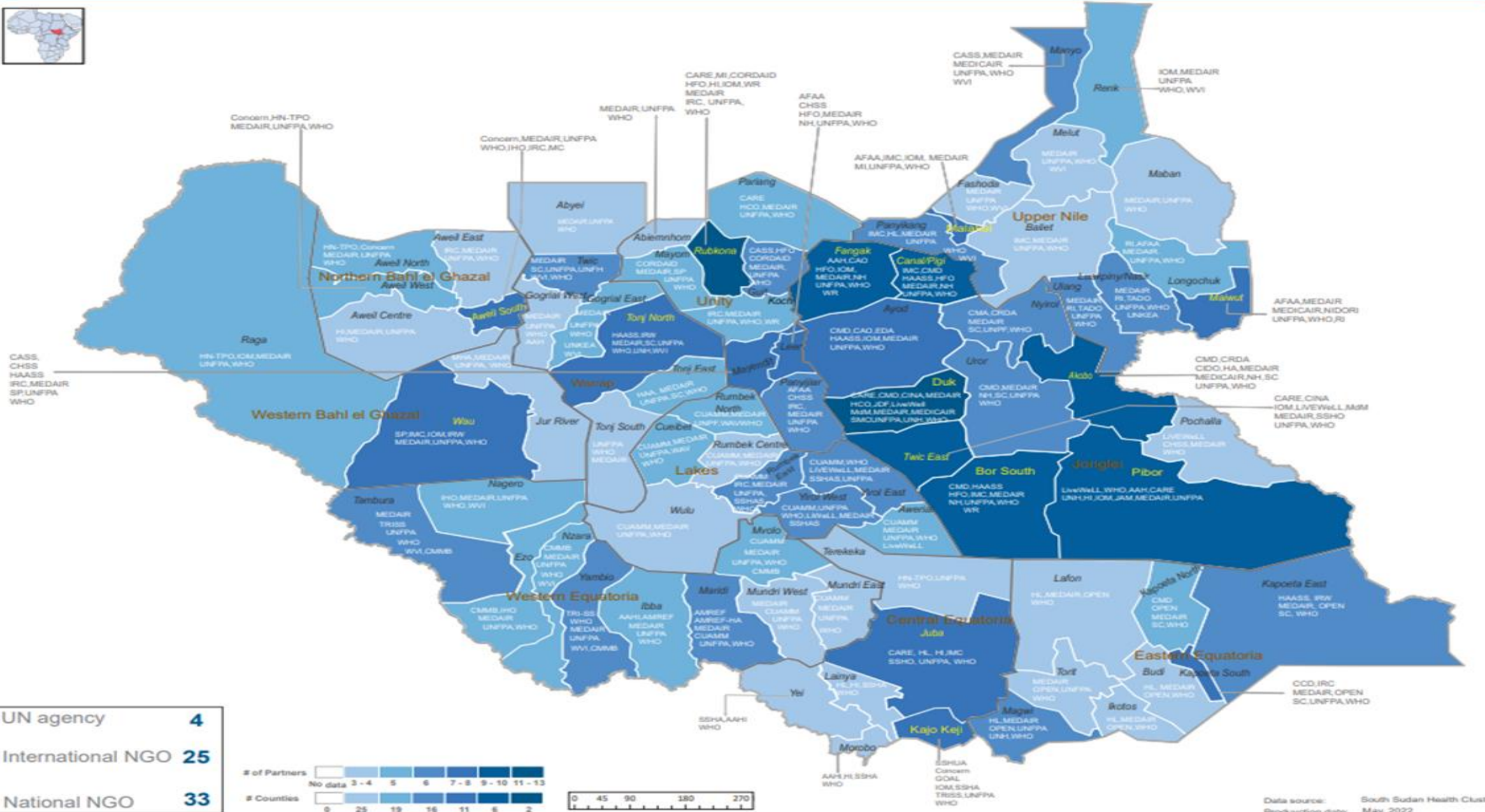


# IDSR timeliness & completeness performance at county level for week 11 and 10 of 2023 (2)



STATE	COUNTY	Number of reporting sites	No. of HFs Reported on Time in WK 11	Timeliness Percentage of WK 11	No. of HFs Reported regardless of time in WK 11	Completeness Percentage of WK 11	No. of HFs Reported regardless of time in Wk 10	Completeness Percentage of WK 10	STATE	COUNTY	Number of reporting sites	No. of HFs Reported on Time in WK 11	Timeliness Percentage of WK 11	No. of HFs Reported regardless of time in WK 11	Completeness Percentage of WK 11	No. of HFs Reported regardless of time in WK 10	Completeness Percentage of WK 10
Jonglei	Bor	19	19	100%	19	100%	19	100%	Warrap	Tonj South	12	12	100%	12	100%	12	100%
Jonglei	Pochalla	7	7	100%	7	100%	7	100%	Upper Nile	Baliet	5	5	100%	5	100%	4	80%
Jonglei	Duk	13	13	100%	13	100%	13	100%	Upper Nile	Ulang	8	8	100%	8	100%	8	100%
EES	Torit	11	11	100%	11	100%	11	100%	Upper Nile	Fashoda	9	9	100%	9	100%	9	100%
EES	Ikotos	19	17	89%	19	100%	19	100%	Upper Nile	Longechuk	9	9	100%	9	100%	9	100%
EES	Magwi	17	14	82%	17	100%	17	100%	Warrap	Tonj North	15	14	93%	15	100%	15	100%
Jonglei	Canal Pigi	14	10	71%	10	71%	8	57%	Upper Nile	Maban	13	12	92%	12	92%	11	85%
EES	Kapoeta East	7	5	71%	5	71%	6	86%	Warrap	Tonj East	12	11	92%	11	92%	12	100%
Jonglei	Pibor	8	5	63%	6	75%	7	88%	Warrap	Gogrial West	31	27	87%	30	97%	31	100%
EES	Kapoeta South	9	5	56%	9	100%	9	100%	Upper Nile	Luakpiny Nasir	10	8	80%	8	80%	8	80%
EES	Budi	17	9	53%	9	53%	16	94%	Upper Nile	Akoka	5	4	80%	4	80%	5	100%
Jonglei	Akobo	15	4	27%	4	27%	7	47%	Upper Nile	Manyo	15	10	67%	10	67%	10	67%
Jonglei	Fangak	21	5	24%	6	29%	4	19%	Warrap	Twic	28	17	61%	17	61%	28	100%
EES	Kapoeta North	10	1	10%	1	10%	10	100%	Upper Nile	Maiwut	9	5	56%	9	100%	9	100%
Jonglei	Uror	1	0	0%	1	100%	1	100%	Upper Nile	Makal	9	5	56%	5	56%	5	56%
EES	Lopa Lafon	15	0	0%	12	80%	15	100%	Upper Nile	Panyikang	2	1	50%	1	50%	2	100%
Jonglei	Nyirrol	2	0	0%	1	50%	1	50%	Warrap	Gogrial East	15	7	47%	7	47%	14	93%
Jonglei	Ayod	13	0	0%	0	0%	0	0%	Warrap	Abyei	14	5	36%	5	36%	5	36%
Jonglei	Twic East	9	0	0%	0	0%	9	100%	Upper Nile	Renk	6	0	0%	0	0%	0	0%
									Upper Nile	Melut	6	0	0%	0	0%	0	0%

# South Sudan Health Cluster HRP Partners 2022





**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>**

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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>

