



**South Sudan
Ministry of Health**

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



**World Health
Organization**
South Sudan

**Epidemiological Bulletin Week 17, 2023
(24-30 April)**



Major epidemiological highlights in week 17 of 2023

- In week 17, 2023, the IDSR reporting timeliness and completeness were **74%** and **87%** respectively and timeliness and completeness for EWARN sites were at **76%** and **86%** respectively
- A total of 140 alerts were triggered in week 17, 2023 most of the alerts were for AWD (15), measles(34), malaria(13) and bloody diarrhea (11)alerts
- Ministry of Health Republic of South Sudan declared cholera outbreak in Malakal with a total of 1349 cases reported with Two (2) death giving a CFR of 0.15% from February 22 to 5 May 2023 from both Malakal IDP camp and town
- Measles outbreaks continue with 6,046 reported; cases, 3,109 (15.3%) are epi-linked, 592(10.7%) lab-confirmed, 1,712(70.9%) clinically compatible, and 633(5.6) discarded cases have been reported from epidemiological week 1, 2022, to week 17, 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with 4,123 cases since the beginning of 2019 and no new cases reported in week 17 of 2023.
- Hepatitis E Virus outbreak in Western Bahar el Ghazal State with 142 cases and 6 deaths CFR 4.23% since the start of the outbreak on 22 March 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 17 & 16 of 2023



Timeliness States Ranking	States	Number of reporting sites	No. of HFs Reported on Time in WK 17	Timeliness Percentage of WK 17	No. of HFs Reported on Time in WK 16	Timeliness Percentage of WK 16
1st	WES	217	215	99%	220	101%
2nd	Lakes	113	110	97%	113	100%
3rd	CES	128	116	91%	117	91%
4th	NBGZ	89	73	82%	82	92%
5th	Jonglei	129	89	69%	103	80%
6th	Warrap	127	78	61%	110	87%
7th	Unity	97	58	60%	60	62%
8th	Upper Nile	113	64	57%	48	42%
9th	EES	105	58	55%	55	52%
10th	WBGZ	78	27	35%	51	65%
	South Sudan	1196	888	74%	959	80%

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 17 stands at 74% while in week 16 it was 80% with 4 states above the National target of 80% .

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



IDSR Completeness performance at State level for week 17 & 16 of 2023



Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 17	Completeness Percentage of WK 17	No. of HFs Reported regardless of time in WK 16	Completeness Percentage of WK 16
1st	WES	217	217	100%	216	100%
2nd	Lakes	113	112	99%	112	99%
3rd	CES	128	121	95%	119	93%
4th	NBGZ	89	83	93%	82	92%
5th	Warrap	127	109	86%	105	83%
6th	Unity	97	79	81%	75	77%
7th	WBGZ	78	60	77%	58	74%
8th	EES	105	79	75%	69	66%
9th	Jonglei	129	96	74%	92	71%
10th	Upper Nile	113	79	70%	64	57%
	South Sudan	1196	1035	87%	992	83%

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 17 stands at 87% while in week 16 it was at 83% with 6 states above the national target of 80%.

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



Surveillance: EWARS Timeliness performance indicator by partner for week 17 and 16 of 2023



Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received on Time in Week 17	Timeliness of Week 17	# of reports received on Time in Week 16	Timeliness of Week 16
SSHCO	1	1	100%	1	100%
IRC	1	1	100%	1	100%
World Relief	3	3	100%	3	100%
Medair	2	2	100%	2	100%
ForAfrika	13	13	100%	13	100%
Islamic Relief	5	5	100%	5	100%
CIDO	1	1	100%	1	100%
SCI	2	2	100%	2	100%
SMC	6	6	100%	6	100%
UNIDOR	2	2	100%	2	100%
MSF-H	4	4	100%	3	75%
IMC	22	18	82%	22	100%
MSF-E	6	4	67%	4	67%
HFO	10	6	60%	10	100%
IOM	10	5	50%	9	90%
AFAA	1	0	0%	1	100%
Medicair	5	0	0%	3	60%
TRI-SS	2	0	0%	0	0%
TOTAL	96	73	76%	88	92%

The Timeliness of EWARS in partners' supported sites stands at 76% in week 17 while in week 16 it was 92%



Surveillance: EWARS completeness performance indicator by partner for week 17 and 16 of 2023

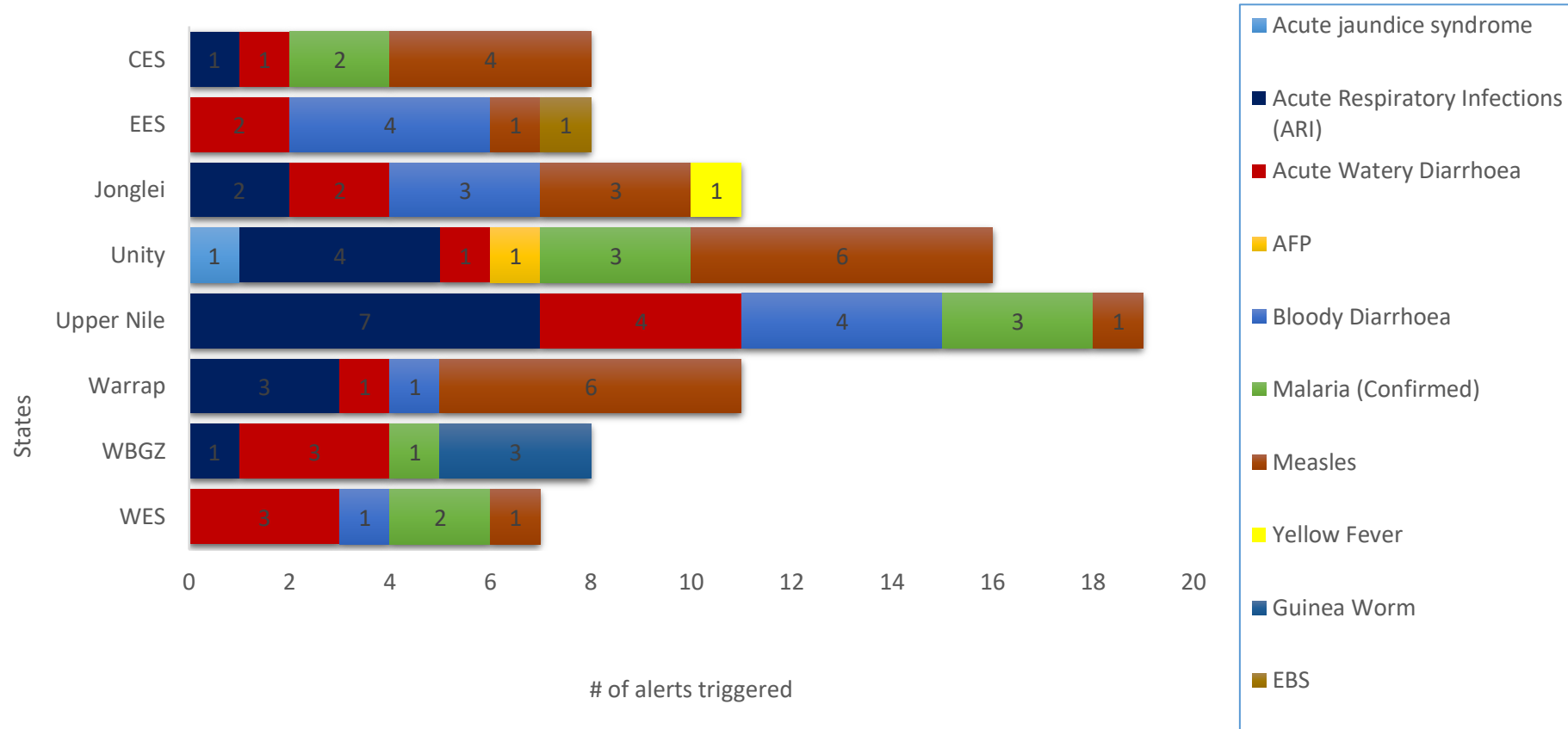


Partner	HFs	Reporting	Performance		
			Number of reporting sites	# of reports received regardless of Time in Week 17	Completeness of Week 17
SSHCO	1	1	100%	1	100%
IRC	1	1	100%	1	100%
Islamic Relief	5	5	100%	5	100%
CIDO	1	1	100%	1	100%
SCI	2	2	100%	2	100%
World Relief	3	3	100%	3	100%
Medair	2	2	100%	2	100%
ForAfrika	13	13	100%	13	100%
MSF-H	4	4	100%	4	100%
HFO	10	10	100%	10	100%
SMC	6	6	100%	6	100%
UNIDOR	2	2	100%	2	100%
IMC	22	21	95%	22	100%
MSF-E	6	4	67%	4	67%
IOM	10	5	50%	9	90%
TRI-SS	2	1	50%	0	0%
Medicaire	5	2	40%	3	60%
AFAA	1	0	0%	1	100%
TOTAL	96	83	86%	89	93%

The Completeness of EWARS in partners' supported sites stands at **86%** in week **17** while in week **16** it was at **93%** .



Alert by disease and States in week 17 of 2023 [a total of events specific alerts generated by state



This week a total of 140 Alerts were triggered of which 54 are from outbreak prone diseases as Per the broken-down below

- ❖ 15 AWD alerts: these alerts were triggered from the following States, CES(6), EES (3), Unity(1), WBGZ(3), WES(2)
- ❖ 34 Measles alert: these alerts were triggered from the following States, CES(4), EES (4), Jonglei (9), Lake (3), Unity(4), Upper Nile(1), Warrap(4), WBGZ(1), WES(4)
- ❖ 3 AJS alert: these were from MSF-H Bentiu IDP Hospital, Koch PHCC and IRC Sector 4 PHCC
- ❖ 1 Yellow Fever in Modubai PHCU of Maridi County
- ❖ 1 EBS alert: this is an alert of dying fish in BUDANG PHCC in Rubkona County which was reported by a staff working in the oil Company in Unity State.

INDICATOR-BASED SURVEILLANCE

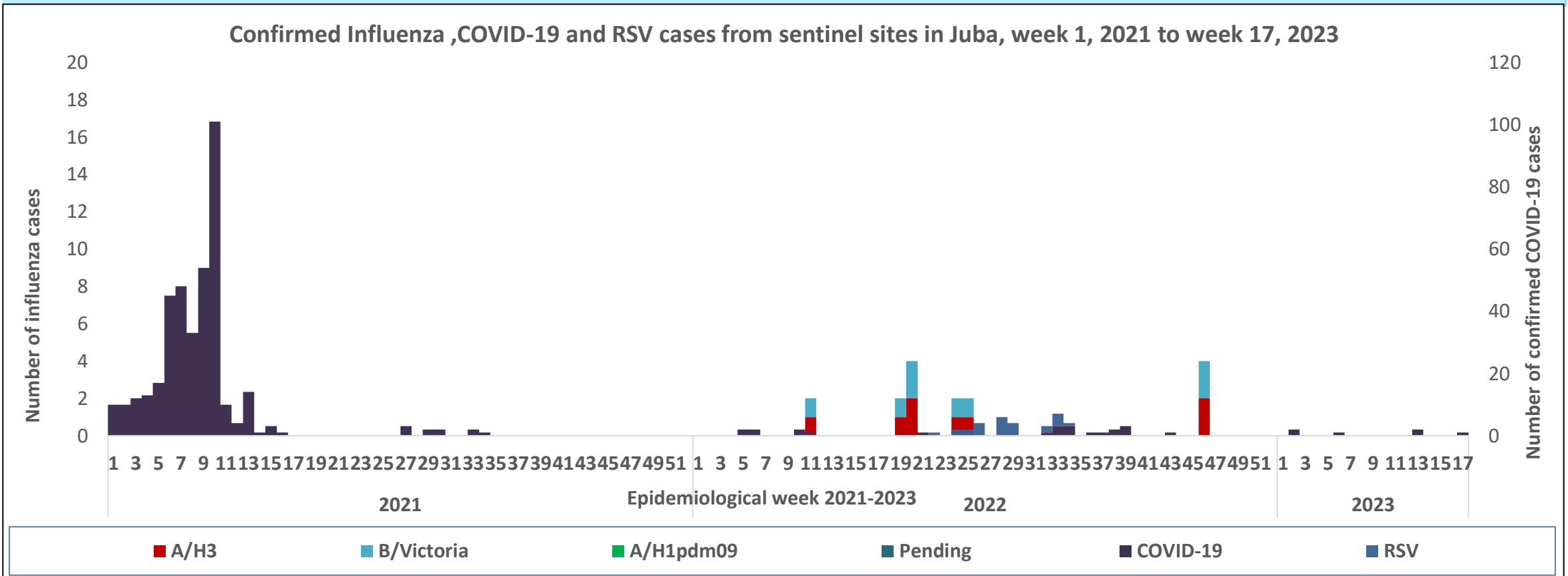


Alert management including detection; reporting; verification;
risk assessment; & risk characterization

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 1-17 2023, a total of 196 ILI/SARI were collected all 190 tested negative,6 positives for Covid-19, (0)Influenza types A (H3), B (Victoria), and 0 for RSV. In week17 of 2023 there is one positive for covid-19



**ACTIVE OUTBREAKS AND
PUBLIC HEALTH EVENTS**



The image shows a title slide for a presentation. It features a dark blue background with a lighter blue geometric pattern on the left and right sides. The text "HEV OUTBREAKS IN WAU" is centered in a bold, yellow, sans-serif font.

HEV OUTBREAKS IN WAU



HEV Outbreak in Wau, WBG state updates as from 24-30 April 2023



- On March 22, 2023, the state Ministry of Health Western Bahr el Ghazal state notified the Ministry of Health in Juba of clusters of cases and deaths in Wau.
- Cases presented with yellowing of eyes (Acute Jaundice Syndrome).
- State MOH and WHO conducted alert verification and collected samples for further investigations.
- On April 14, 2023, the national Ministry of Health declared an outbreak of Hepatitis E Virus (HEV) disease and subsequently activated the PHEOC to response mode and all response pillars
- Total of 142 HEV Cases including (6 death) CFR of 4.2% have been since the start of the outbreak
- Seven (7) new case have been reported in week 17 of 2023
- Most cases (103, 89.6%) are from Nazareth Village, a cluster in Kosti village (3) and sporadic cases in three neighboring villages of Mutamadia (1), Taban (1), Massna (1) and Aturu in Jur river county (6).
- Most cases (88, 72.7%) are males. The median age is 20 (range:2-71) years. Overall, five deaths (3-males).
- Overall CFR= 4.2 % versus 6.9% in females and 3.5% in males. one patient in admission at Wau teaching hospital.

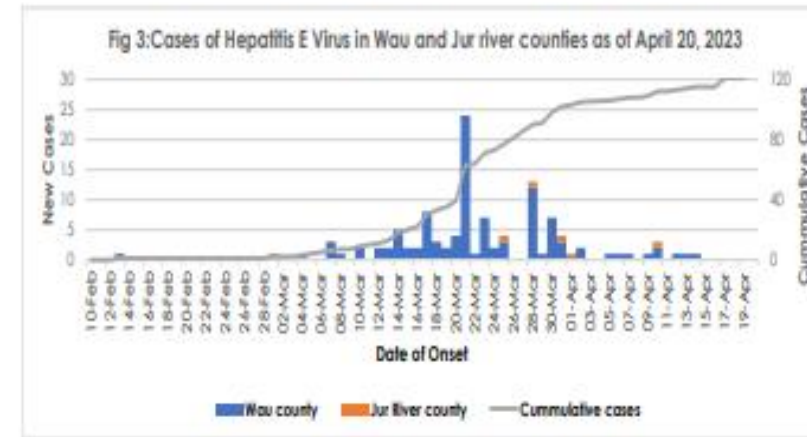


Table 1: Outcomes of onsite RDT Testing for Hepatitis E Virus cases - Wau, April 7-22, 2023

	Test type		
	Hepatitis B (n=49)	Hepatitis C (n=48)	Hepatitis E (n=50)
Number tested (n)			
Number positive	3	0	36
% positivity	6%	0%	72%



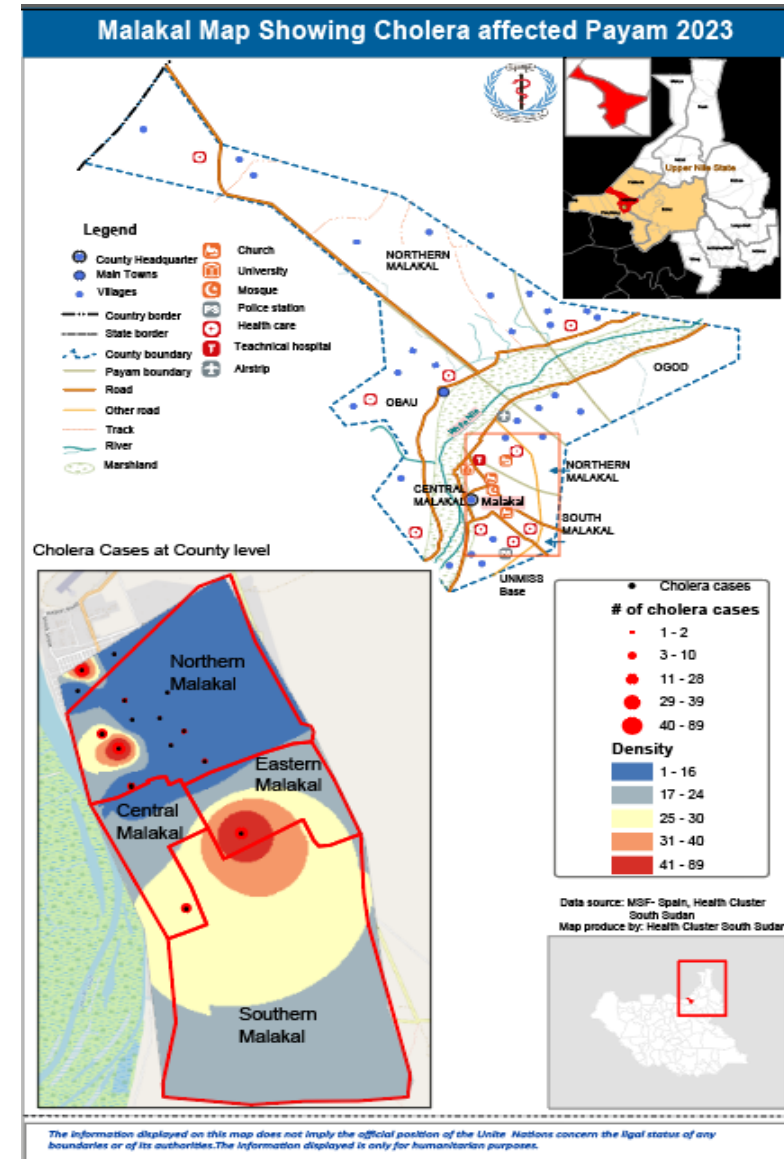
**CHOLERA OUTBREAK
IN MALAKAL**



Key Epidemiological highlights from Malakal as of 5 May 2023

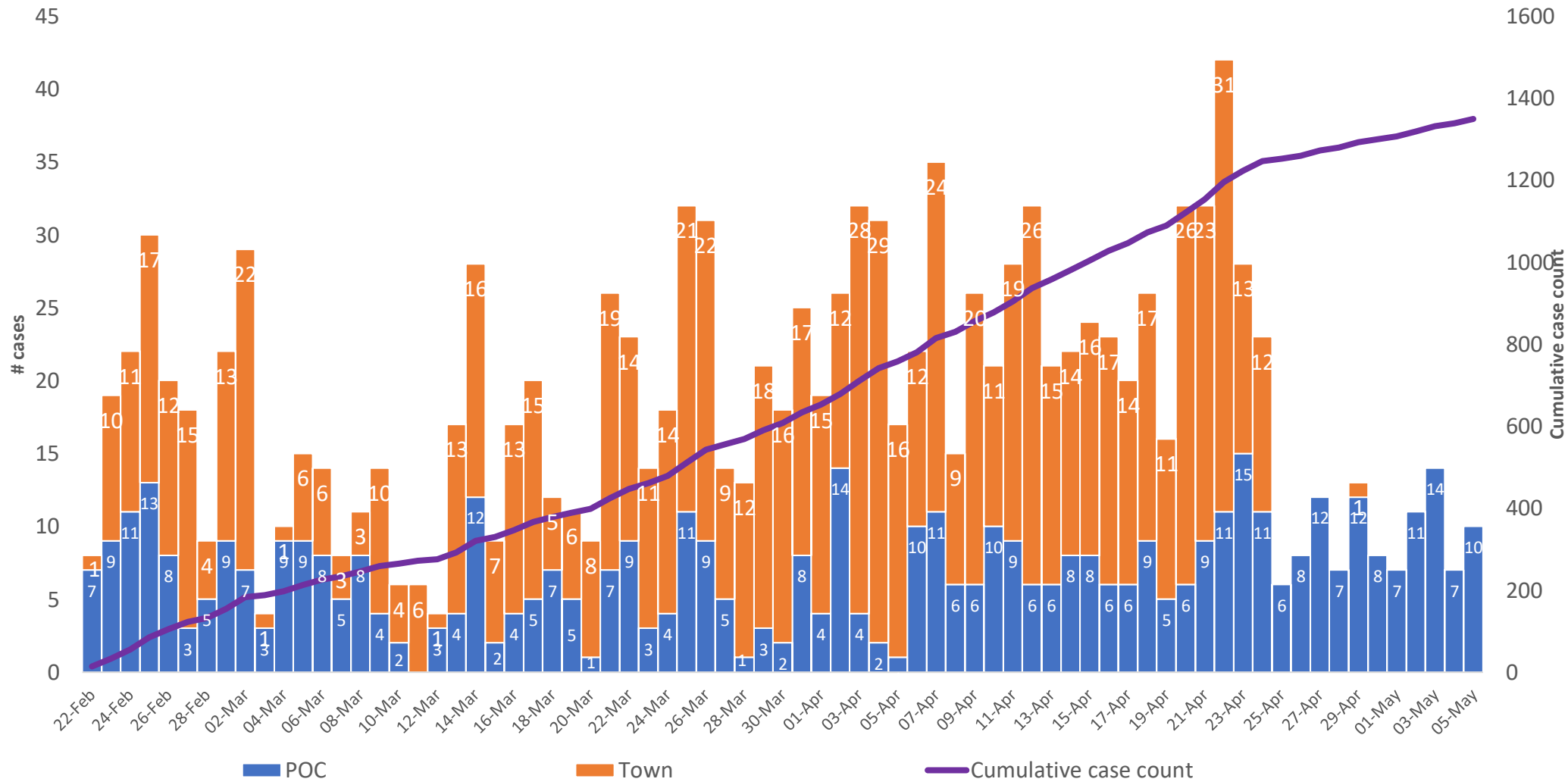


- On 1st March 2023, the National Ministry of Health received information of suspected cholera cases with two (2) RDT positive
- On 2nd March 2023, nine (9) samples were received at the NPHL, and **two (2) samples tested positive for vibrio cholerae** by Polymerase chain reaction (PCR) on 6th March 2023.
- On 7 March 2023, the National Ministry of Health declared a cholera outbreak in Malakal County, Upper Nile State
- Cumulatively, from 22 February to 5 May 2023 a total of 1,349 cases with **(2) death (CFR-0.15%)**
- Ten (10) new cases and 0 deaths have been reported as of 5 May 2023 (POC = (10) and Town = (0)
- Overall, 718 (53%) of the cases are males and 631(47%) are females.
- Children of age 1 – 4 years old are the most affected accounting for 652 (48%) of the total cases reported followed by 15 years and above 465 (34%).
- Oral Cholera vaccination campaign commenced on 16 March 2023 targeting 66,121 individuals aged 1 year and above in the POC and Malakal town .
- Cumulatively, 54,538 people have been vaccinated (Malakal town and POC) with OCV for 5 days s of the campaign achieving 83% coverage



Epi curve showing cholera cases in Malakal County

Epi curve showing cholera cases in Malakal County as of 5th May 2023

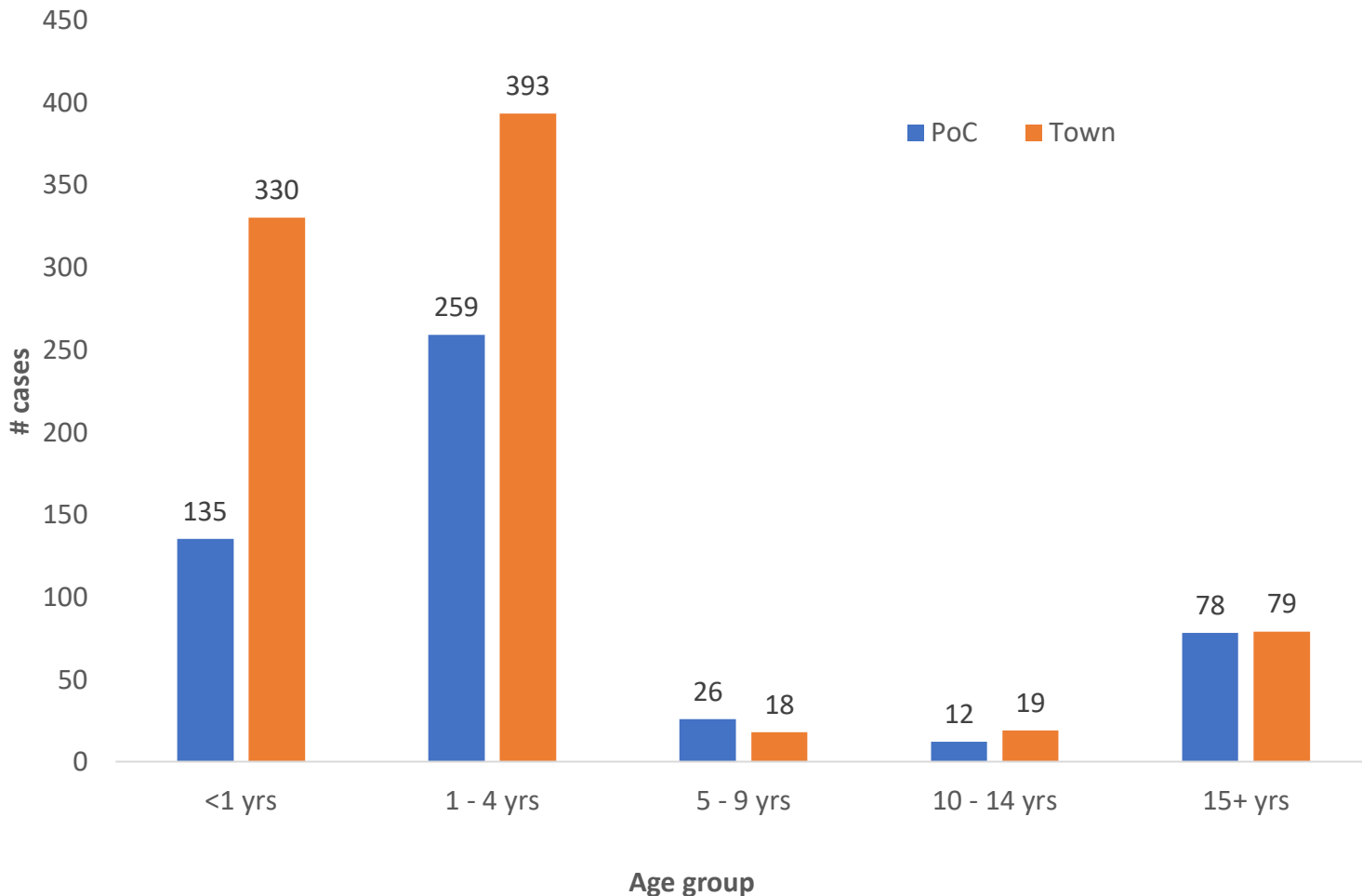


- The cumulative cases up to date stand at 1349.
- Cumulative number of deaths reported = 2 (CFR = 0.15%).
- Malakal town accounted for 62% (839) of all the reported cases, while PoC accounted for 38% (510).
- On 5th May, there were 10 cases documented, Town (0) and PoC (10).

NB: Interval unit between label in X Axis = 2

Cholera cases in Malakal County by age group.

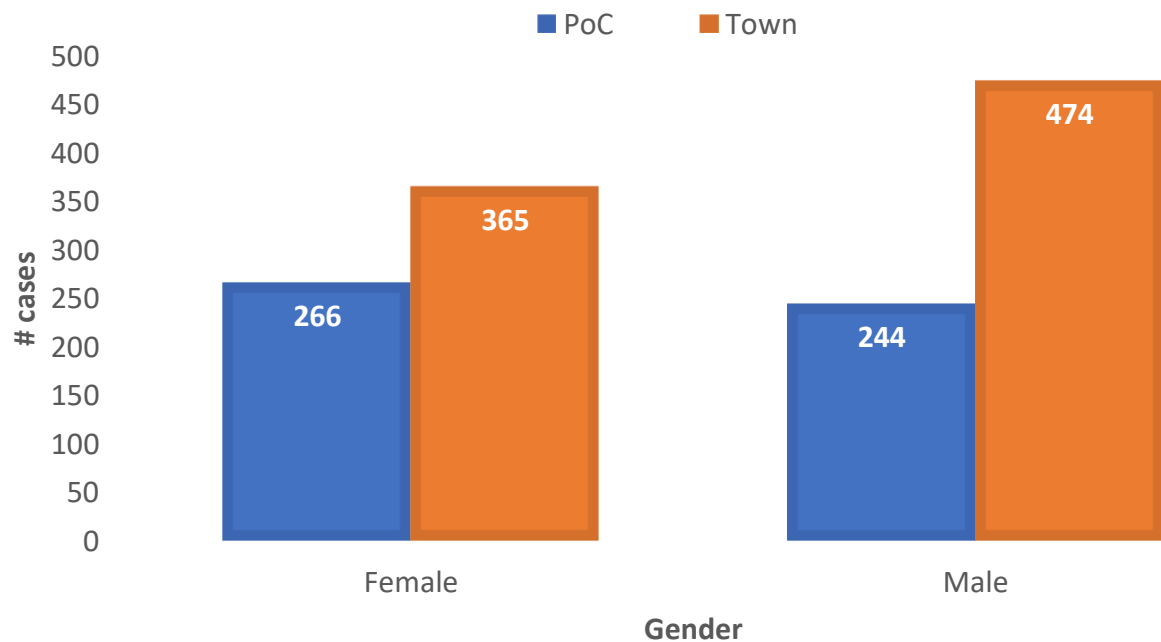
Chart showing cholera cases in Malakal County as of 5th May 2023 by age group.



- In terms of case distribution by age group, children of age 1 – 4 years old are the most affected which accounting for 48% (652) of the total cases reported, followed by <1 year old which stand at 34% (465).
- Majority of 1 – 4 years cases were reported from Malakal town (393) and in PoC a total of (259) cases.

Age group	Cases	Percentage	Cum %
<1 yrs	465	34%	34%
1 - 4 yrs	652	48%	83%
5 - 9 yrs	44	3%	86%
10 - 14 yrs	31	2%	88%
15+ yrs	157	12%	100%
Grand Total	1349	100%	

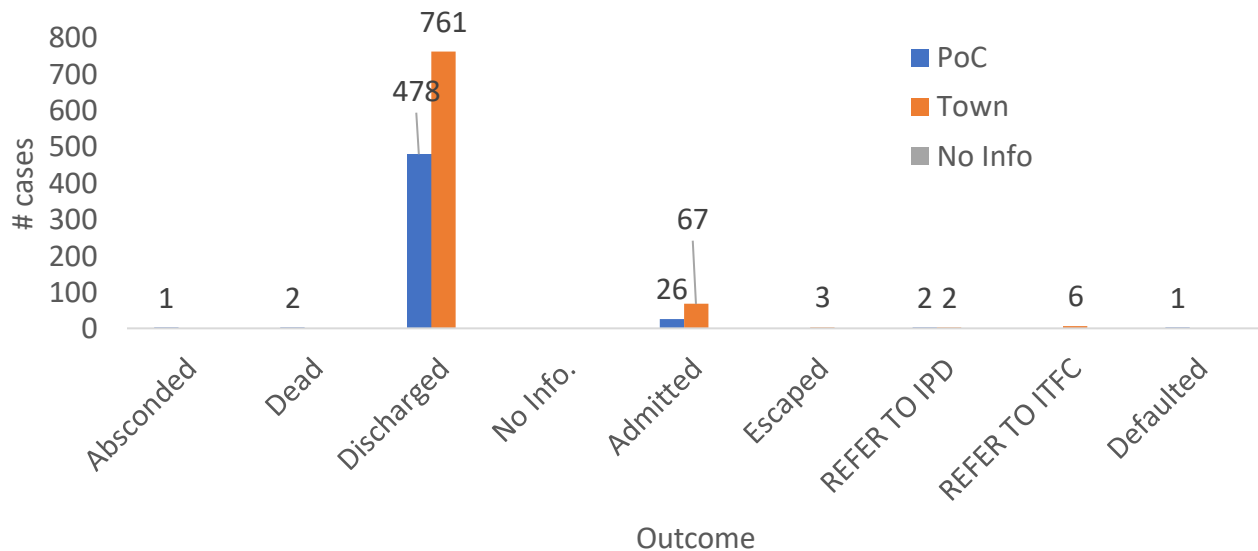
CHART SHOWING CHOLERA CASES IN MALAKAL COUNTY AS OF 5TH MAY 2023 BY GENDER.



• In terms of aggregation by gender, Male account for majority of the cases 53% (718) as compared to female counter parts 47% (631). With Malakal town leading in the cases reported from both gender.

Gender	Cases	Percentage	Cum %
Female	631	47%	47%
Male	718	53%	100%
Grand Total	1349	100%	

Number of cholera cases in Malakal County as of 5th April 2023 by outcome.

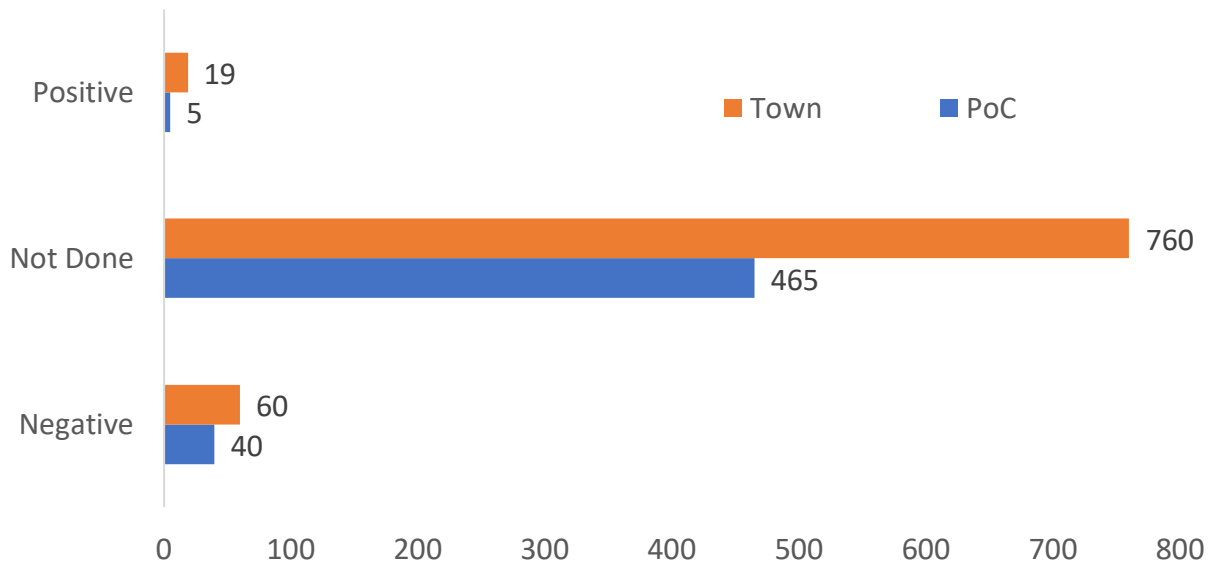


• Three inpatient was reported on 5th May 2023. Majority of the cases have been discharged from the cholera treatment centers both in town and PoC as depicted in the graph;

• The cumulative death stand at 2 since the onset of out break;

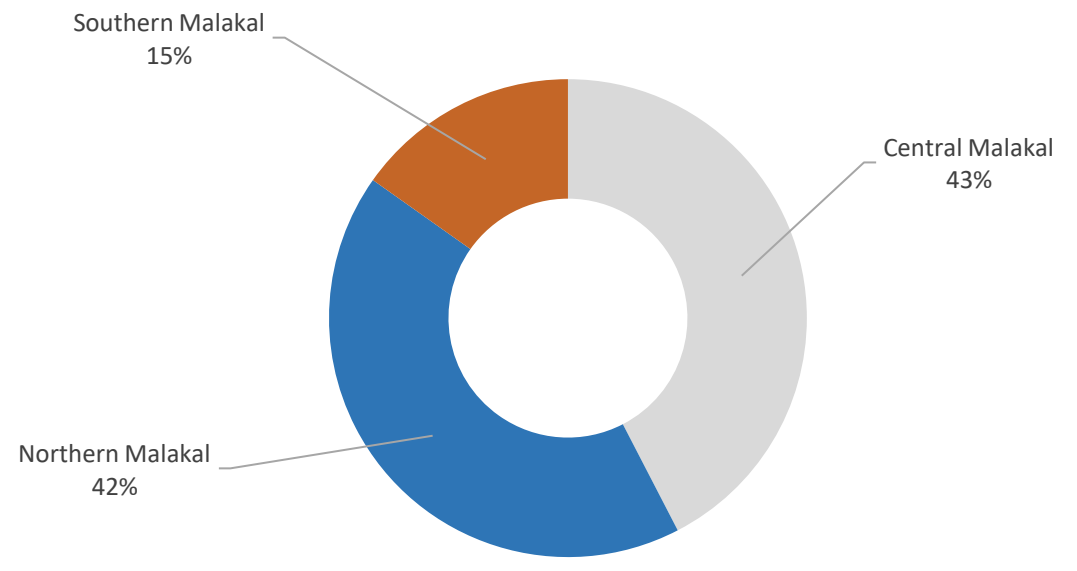
• Four cases referred to IPD, and Six referred to ITFC.

Number of cholera cases in Malakal County as of 5th May 2023 by Test Conducted (RDT).



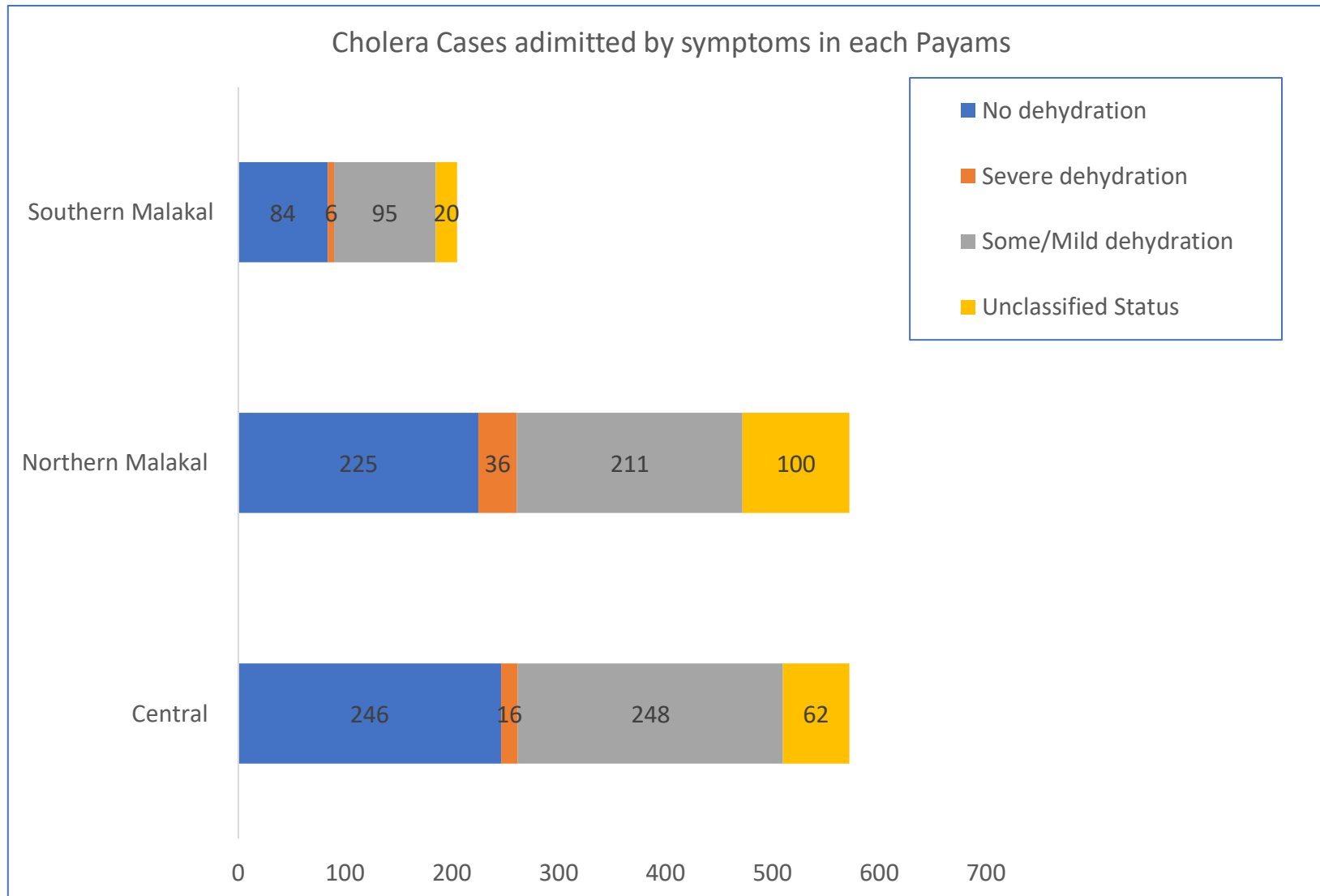
- No positive case confirmed by RDT on May 5th
- Since the onset of outbreak, 24 cases have tested positive on RDT, with 19 cases in the town and 5 cases PoC.
- 100 negative RDT Cholera cases, and 1,225 without RDT confirmation.

Number of cholera cases in Malakal County as of 5th May 2023 by Payam.



- The Cholera cases have been reported from three (3) Payams namely: Central; Northern Malakal and Southern Malakal.
- Malakal Central reported 43% of the total cases and Northern Malakal account for 42% while Southern Malakal recorded 15%.

Cholera Cases Admitted by Symptoms



- Out of the total number of the cholera cases 555 cases presented with no dehydration;
- 58 cases were identified with severe dehydration;
- 554 cases were presented with some/mild dehydration;
- 182 cases unclassified in the line list.

Key interventions and Challenges in Malakal as of 30th March 2023

Key Interventions

- The National Ministry of Health declared a Cholera outbreak in Malakal county, Upper Nile State on 7th March 2023,
- The National EOC was immediately activated and MOH IMS instituted
- Ongoing coordination at both National and State levels to discuss the ational 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 66,121 individuals aged 1 year and above on 16 March 2023
- Over 54,538 people have been vaccinated both in the POC and Malakal town with a coverage of 83% in 5 days.
- WHO hired 2 additional vehicles to support response activities in Malakal.
- WHO has dispatched 1 x 48sqm and 1 x 24sqm medical tents to Malakal to support the ongoing Cholera response.
- WHO conducting a 5 days Case management training starting on 28 March and 1 April 2023 to support health partners (IMC, IOM, MSF and DRC)
- MSF completed the rehabilitation the Cholera treatment Center (CTC) in PoC and functional from Monday it will be official open
- 7 ORP supported IMC and 2 ORP supported by IOM with a total of 121 patient see, presented with AWD, no dehydration status, treated with ORS and discharged in 4 hours.
- Cumulation of 590 cholera case managed at the MSF facilities sites both for PoC with 215 (36%) and Town with 375 cases (64%).
- WHO/MOH continue to conduct active case searches in three (3) Health facilities (IOM PHCC,IMC PHCC & MSF Isolation in POC
- Cholera-specific training started entered its second day focusing on Case Management, Lab, RCCE, IPC, WASH & Surveillance

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
- Rehabilitation of the CTC in Malakal Teaching Hospital (MTH)
- Activation of the State RRT to responses with an active case search and investigation

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



**World Health
Organization**
South Sudan

ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

MEASLES ` UPDATES

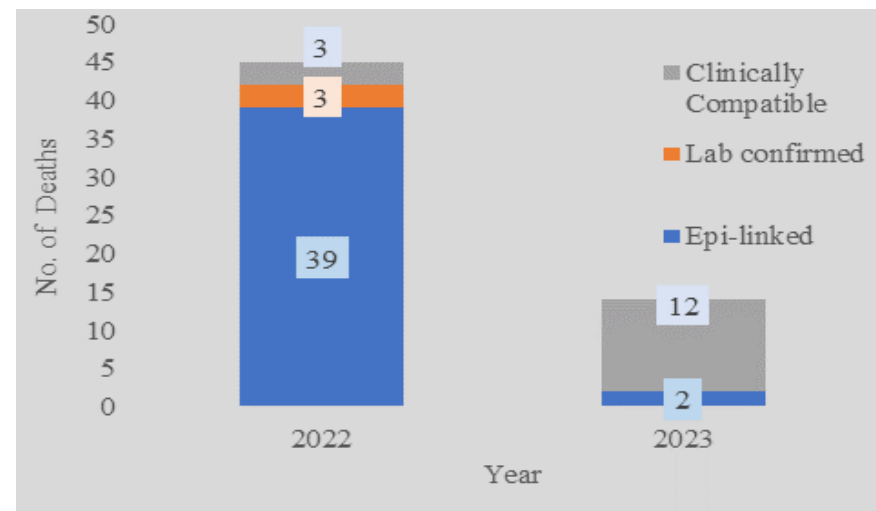


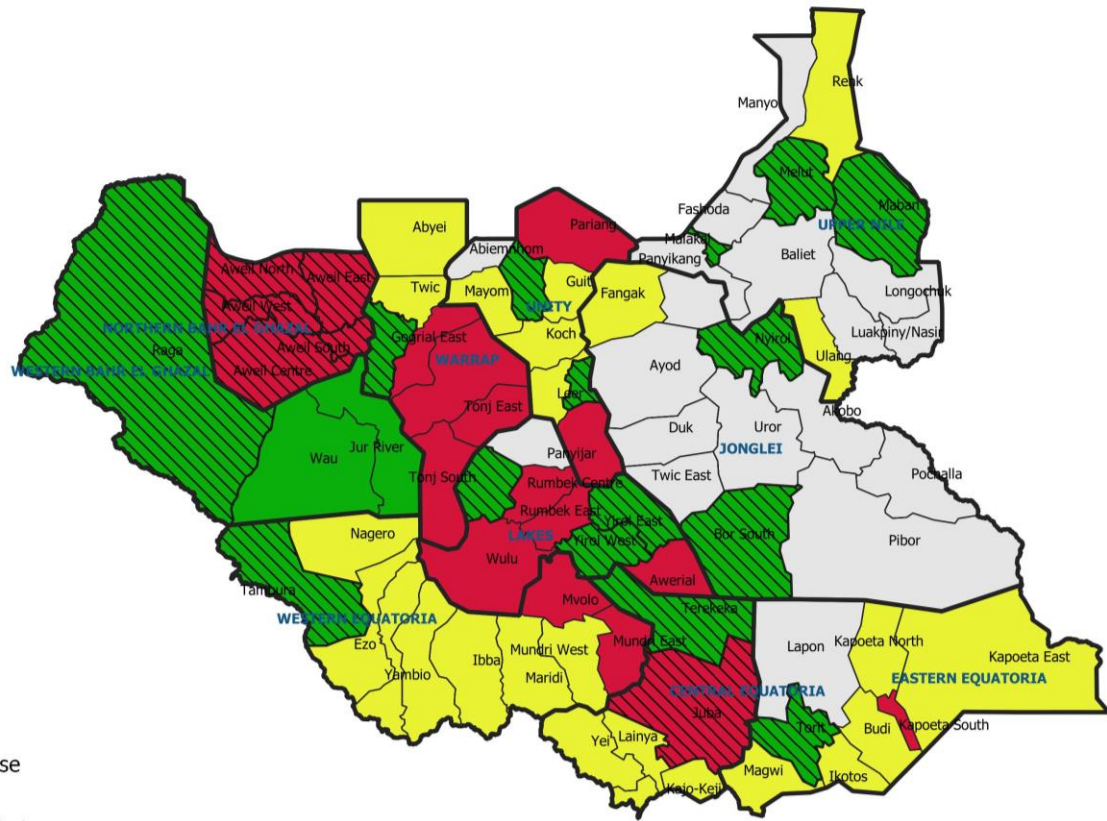
- A cumulative of 6,046 suspected cases have been reported; 4,137 and 1,909 in 2022 and 2023, respectively
- No new cases reported in week 17 of 2023
- No new reactive measles vaccination campaign conducted.
- The focus is now on the ongoing Nation-wide integrated measles vaccination campaign that has been launched on the 25th April 2023 at Al Sabah Hospital targeting 2.7 million children aged 6 to 59 months across South Sudan

Table: Yearly distribution of cases by final classification

FINAL CLASSIFICATION	2022		2023		TOTAL
	NO. OF CASES	%	NO. OF CASES	%	
Lab confirmed	392	9.5	200	10.7	592
Epi-linked	2,825	68.3	284	15.3	3,109
Clinically Compatible	391	9.5	1,321	70.9	1,712
Total	3,608	87.2	1,805	96.9	5,413
Discarded (-ve)	529	12.8	104	5.6	633
Grand Total	4,137	100.0	1,909	100.0	6,046

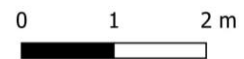
Deaths by year and final classification





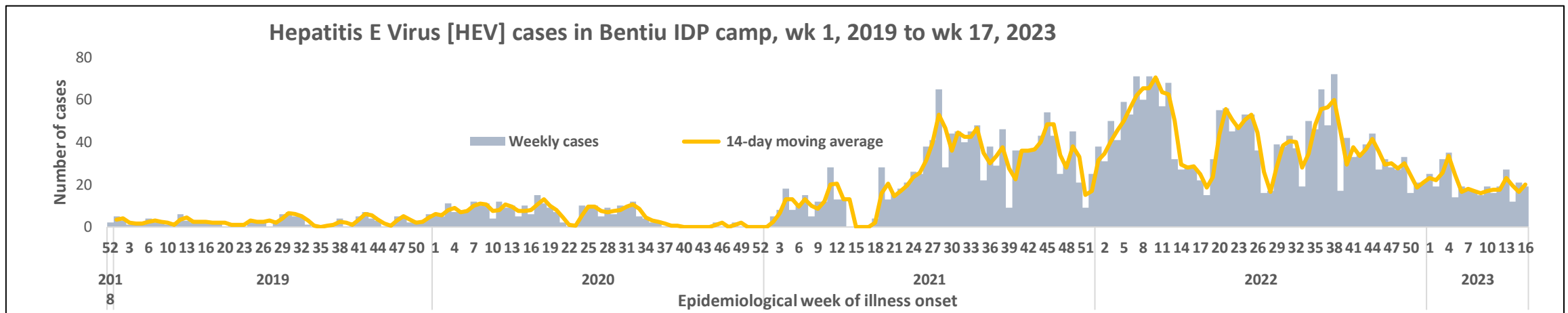
Legend

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



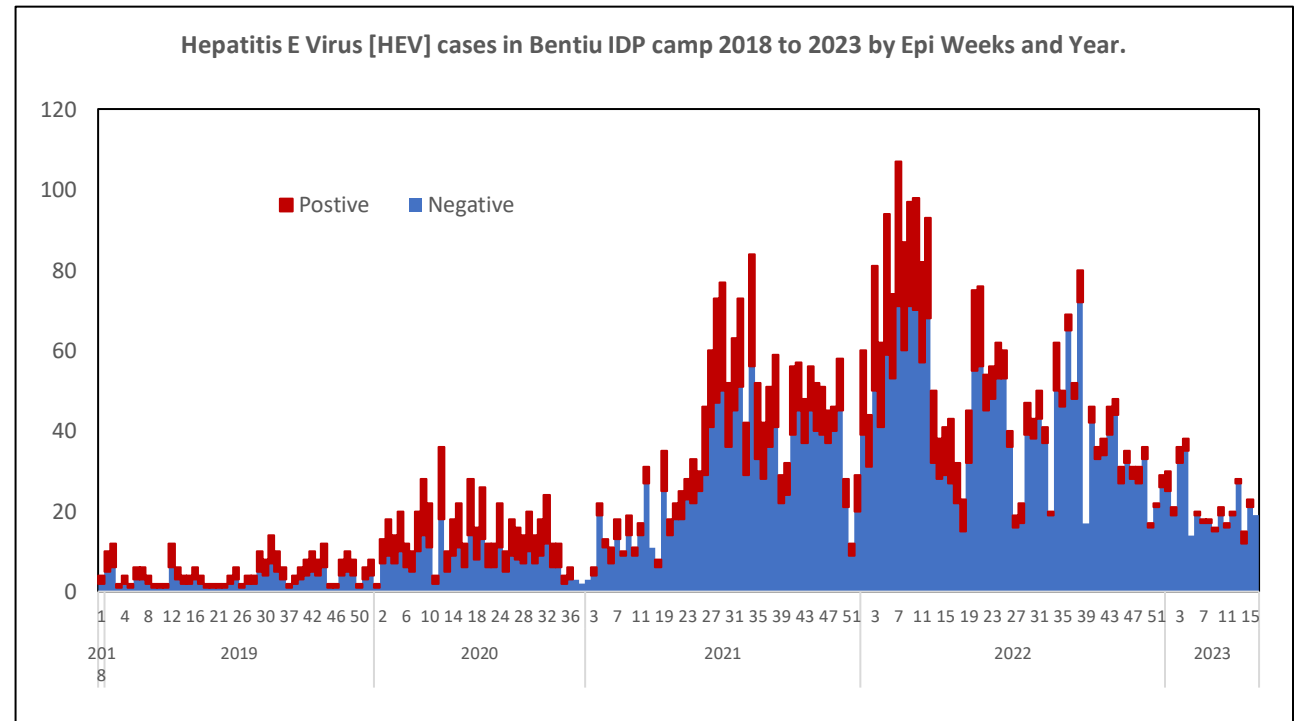
ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

HEPATITIS E VIRUS ` UPDATES



Descriptive Epi

- Cases of Acute Jaundice Syndrome (AJS) in the Bentiu IDP camp continue with an overall total of 4,123 cases since the beginning of 2019 to week 16 2023 with overall 27 deaths. CFR of 0.65%
- Of all the cases, reported, 1482 tested positive for Hepatitis E virus by Rapid Diagnostic Test and ov
- In 2023, of the 326 AJS cases reported, only 29 tested positive for Hepatitis E Virus by RDT.
- No new AJS cases reported in week 17 and no RDT positive reported in week 17 2023
- Of all the AJS cases reported in, 2023 only 105 were managed as inpatient cases and the rest were treated as outpatients
- 46% are female and 54% are male of all the AJS. 40% of all the cases are in the age-group 15-44 years followed by 24% in children ages 1-4 years



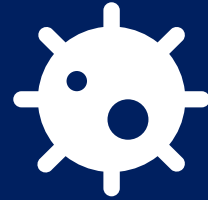
HEV response update

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

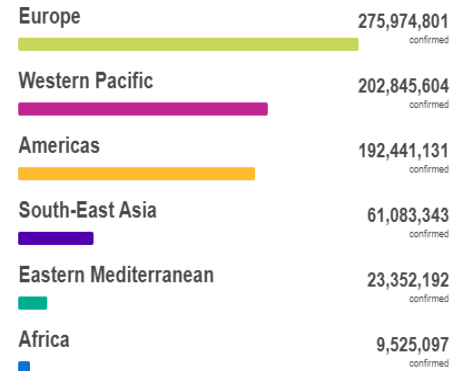




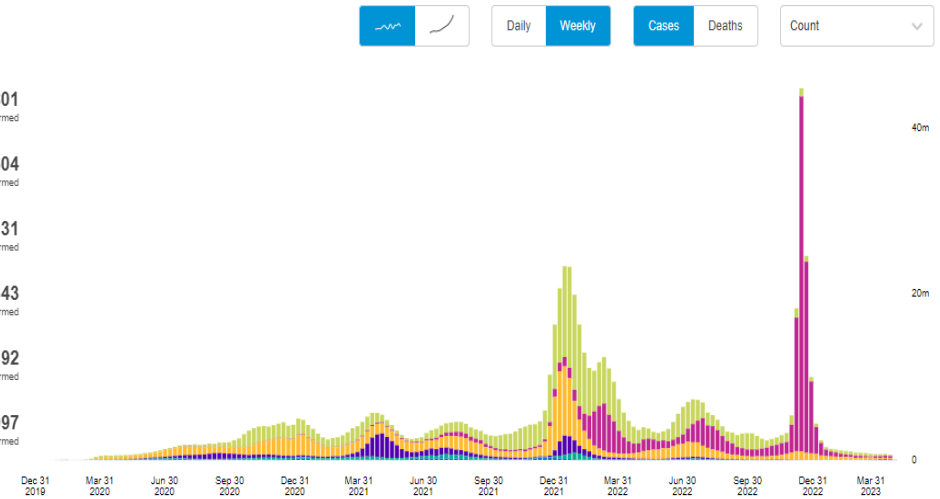
Situation update as of 3, May 2023

- Globally, 3 May 2023, there have been **765,222,932** confirmed cases of COVID-19, including **6,921,614** deaths, reported to WHO. As of 30 April 2023, a total of **13,346,989,954** vaccine doses have been administered.
- In Africa, as of 3 May 2023 there have been **9,525,097** confirmed cases of COVID-19, including **175,347** deaths reported to the WHO
- In South Sudan, from 3 January 2020 to 3 May 2023, there have been **18,368** confirmed cases of COVID-19 with 138 deaths, reported to WHO. As of 23 April 2023, a total of **4,174,929** 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
CONCLUSIONS AND
RECOMMENDATIONS**

Conclusions



- In week 17, 2023, the IDSR reporting timeliness and completeness were 74% and 87% respectively and timeliness and completeness for EWARN sites were at 76% and 86% respectively
- A total of 140 alerts were triggered in week 17, 2023 most of the alerts were for AWD (15), measles(34), malaria(11) and bloody diarrhea (13)alerts
- Ministry of Health Republic of South Sudan declared cholera outbreak in Malakal with a total of 1349 cases reported with Two (2) death giving a CFR of 0.15% from February 22 to 5 May 2023 from both Malakal IDP camp and town
- Measles outbreaks continue with 6,046 reported; cases, 3,109 (15.3%) are epi-linked, 592(10.7%) lab-confirmed, 1,712(70.9%) clinically compatible, and 633(5.6) discarded cases have been reported from epidemiological week 1, 2022, to week 17, 2023
- The persistent transmission of HEV in the Bentiu IDP camp continues with 4,123 cases since the beginning of 2019 and no new cases reported in week 17 of 2023.
- Hepatitis E Virus outbreak in Western Bahar el Ghazal State with 142 cases and 6 deaths CFR 4.23% since the start of the outbreak on 22 March 2023
- Nation wide integrated measles vaccination campaign has been launched on the 25th April 2023 at Al Sabah Hospital targeting 2.7 million children aged 6 to 59 months across South Sudan

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

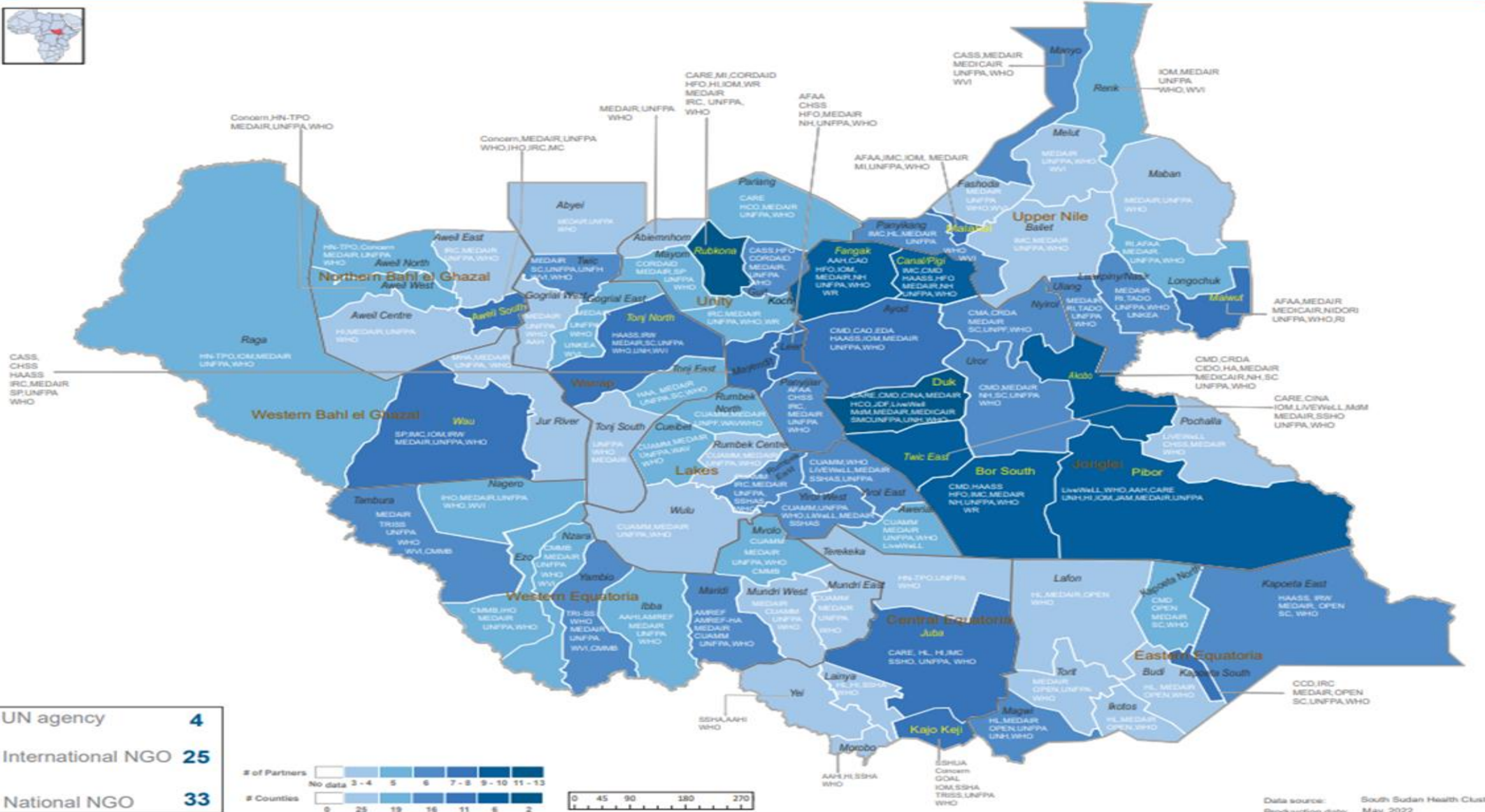


IDSr timeliness & completeness performance at county level for week 17 and 16 of 2023 (2)

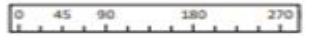


STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 17	Timeliness Percentage of WK 17	No. of HF's Reported regardless of time in WK 17	Completeness Percentage of WK 17	No. of HF's Reported regardless of time in Wk 16	Completeness Percentage of WK 16	STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 17	Timeliness Percentage of WK 17	No. of HF's Reported regardless of time in WK 17	Completeness Percentage of WK 17	No. of HF's Reported regardless of time in WK 16	Completeness Percentage of WK 16
									Upper Nile	Ulang							
Jonglei	Pibor	8	8	100%	8	100%	8	100%	Upper Nile	Ulang	9	9	100%	9	100%	9	100%
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%	14	93%
Jonglei	Duk	13	13	100%	13	100%	13	100%	Warrap	Tonj South	12	12	100%	12	100%	12	100%
EES	Kapoeta East	7	7	100%	7	100%	7	100%	Upper Nile	Panyikang	2	2	100%	2	100%	2	100%
EES	Kapoeta North	10	10	100%	10	100%	10	100%	Upper Nile	Longechuk	9	9	100%	9	100%	1	11%
EES	Magwi	17	16	94%	16	94%	16	94%	Upper Nile	Akoka	5	5	100%	5	100%	5	100%
Jonglei	Ayod	13	12	92%	12	92%	12	92%	Upper Nile	Maban	19	18	95%	18	95%	18	95%
EES	Torit	11	9	82%	9	82%	5	45%	Warrap	Gogrial East	15	14	93%	14	93%	14	93%
EES	Ikotos	19	15	79%	15	79%	9	47%	Upper Nile	Luakpiny Nasir	10	9	90%	9	90%	8	80%
Jonglei	Fangak	21	15	71%	15	71%	15	71%	Upper Nile	Fashoda	9	8	89%	8	89%	8	89%
Jonglei	Canal Pigi	14	10	71%	10	71%	6	43%	Warrap	Abyei	14	12	86%	12	86%	12	86%
Jonglei	Akobo	15	10	67%	10	67%	10	67%	Warrap	Gogrial West	31	24	77%	24	77%	24	77%
EES	Lopa Lafon	15	9	60%	9	60%	9	60%	Warrap	Twic	28	20	71%	20	71%	17	61%
EES	Budi	17	9	53%	9	53%	9	53%	Upper Nile	Baliet	5	3	60%	3	60%	3	60%
Jonglei	Nyirol	2	1	50%	1	50%	1	50%	Upper Nile	Maiwut	9	5	56%	5	56%	5	56%
EES	Kapoeta South	9	4	44%	4	44%	4	44%	Upper Nile	Makal	9	5	56%	5	56%	5	56%
Jonglei	Uror	8	1	13%	1	13%	1	13%	Upper Nile	Manyo	15	5	33%	5	33%	0	0%
Jonglei	Twic East	9	0	0%	0	0%	0	0%	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



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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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.

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