



# South Sudan Ministry of Health

Integrated Disease surveillance  
and response (IDSR)



## Epidemiological Bulletin Week 21, 2022 ( May 23- May 29 )



## Major epidemiological highlights in week 21 of 2022



- In week **21, 2022**, the IDSR reporting timeliness and completeness were **74%** and **85%** respectively while the timeliness and completeness from the EWARN sites were **89%** and **93%** respectively
- Hepatitis E virus cases continue to be reported in Bentiu IDP Camp with, **2,703** cases and 24 deaths (CFR **0.88%**) reported since week 1, 2019
- Of the **75** alerts generated in week 21, 2022; malaria (23), AWD (22), ARI (9), measles (2) and ABD (11) accounted for the most alerts
- **17,598** confirmed COVID-19 cases and **138** (CFR **0.78%**) deaths reported in South Sudan since the beginning of the outbreak
- Probable HEV cases reported in Leer- Unity State. 7 suspected cases been line listed.
- Confirmed Cholera outbreak in Bentiu, Unity with **149** cases and **one** death (CFR **0.67%**)
- Meningitis outbreak in Northern Bahr Elgagal state with **247** suspect cases and **23** deaths (CFR **9%**)
- Confirmed anthrax outbreak in Gogrial West county with **72** cases and **4** reported deaths (CFR **5.6%**).
- New confirmed measles outbreak in NBGZ state ( Aweil Center, Aweil West and Aweil East counties) after **15** out of **16** samples tested positive for measles IgM.

# SURVEILLANCE PERFORMANCE



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



## IDSR timeliness performance a state level for week 21 & 20 of 2022

Timeliness States Ranking	States	Number of reporting sites	No. of HFs Reported on Time in WK 21	Timeliness Percentage of WK 21	No. of HFs Reported on Time in WK 20	Timeliness Percentage of WK 20
1st	WES	218	202	93%	155	71%
2nd	NBGZ	89	78	88%	48	54%
3rd	CES	110	96	87%	89	81%
4th	Jonglei	121	104	86%	96	79%
5th	Unity	95	74	78%	49	52%
6th	Lakes	113	82	73%	109	96%
7th	Warrap	123	89	72%	62	50%
8th	Upper Nile	98	55	56%	65	66%
9th	EES	142	74	52%	65	46%
10th	WBGZ	80	28	35%	61	76%
	South Sudan	1189	882	74%	799	67%

### KEY

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

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level was at **74%** in week **21, 2022** and **67%** in week **20, 2022**. Reporting was above the 80% target in all states.

**Reporting challenges:** Insecurity, internet access and new partners



## IDSR completeness performance at state level for week 21 & 20 of 2022

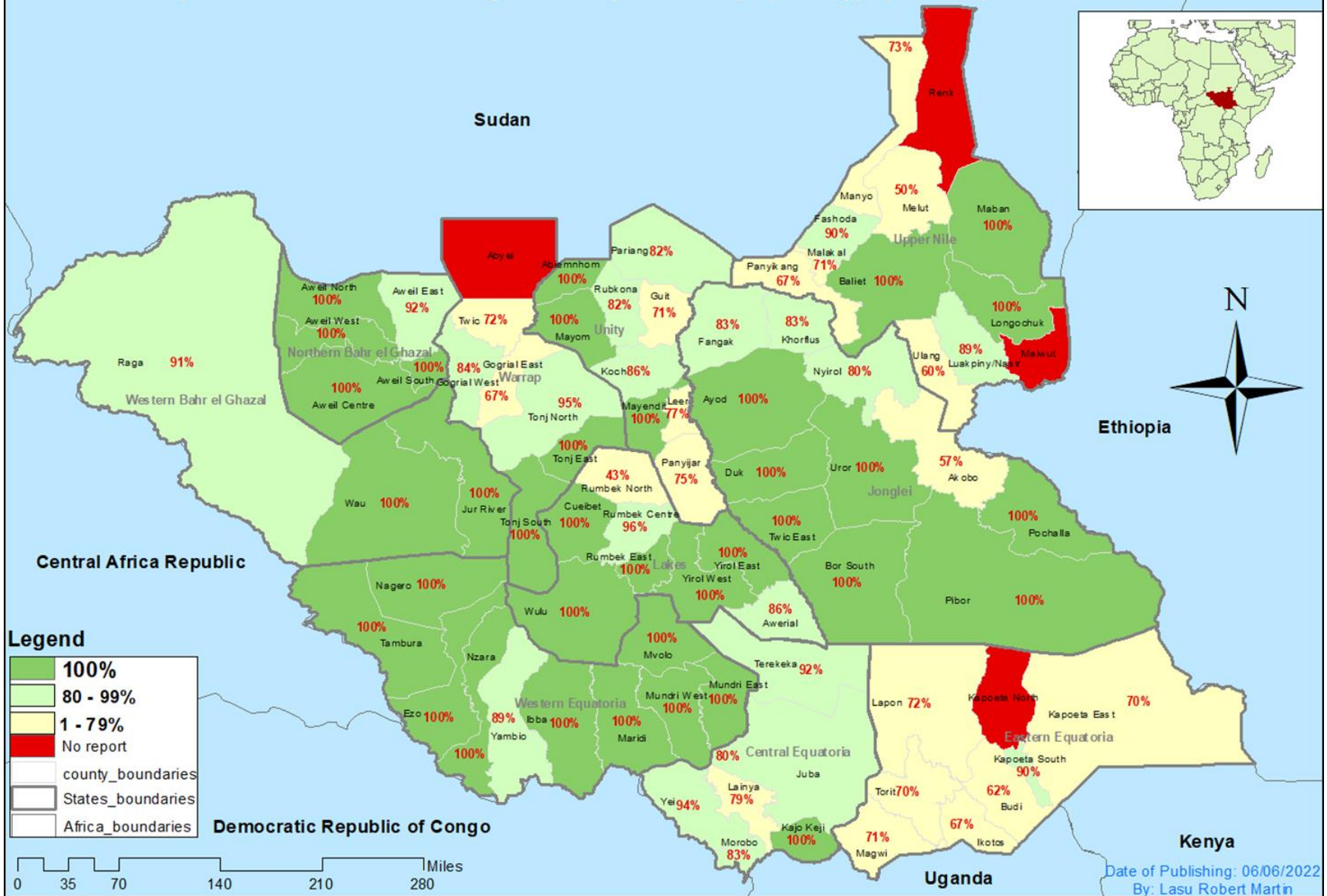
Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 21	Completeness Percentage of WK 21	No. of HFs Reported regardless of time in WK 20	Completeness Percentage of WK 20
1st	WES	218	217	100%	217	100%
2nd	NBGZ	89	87	98%	73	82%
3rd	WBGZ	80	78	98%	78	98%
4th	Lakes	113	107	95%	113	100%
5th	Jonglei	121	107	88%	105	87%
6th	CES	110	96	87%	89	81%
7th	Unity	95	79	83%	71	75%
8th	Warrap	123	90	73%	91	74%
9th	Upper Nile	98	67	68%	73	74%
10th	EES	142	87	61%	78	55%
	South Sudan	1189	1015	85%	988	83%

### KEY

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

The completeness of IDSR reporting (supported by EWARS mobile) at health facility level was **85%** in week **21, 2022** and **83%** in week **20, 2022**. Reporting was above the 80% target in all the states

Map of South Sudan Showing the Completeness (reporting) by County in week 21, 2022.



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By: Lasu Robert Martin

Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



## Surveillance: EWARS timeliness performance indicator by partner for week 21 and 20 of 2022

Partner	HFs	Reporting	Performance		
			Number of reporting sites	# of reports received on Time in Week21	Timeliness of Week 21
UNH	2	2	100%	2	100%
IRC	2	2	100%	2	100%
SMC	6	6	100%	6	100%
Islamic Relief	5	5	100%	5	100%
SSHCO	1	1	100%	1	100%
Medicaire	7	7	100%	7	100%
IOM	10	10	100%	10	100%
MC	2	2	100%	2	100%
TRI-SS	2	2	100%	2	100%
HAA	4	4	100%	4	100%
ADA	1	1	100%	0	0%
Medair	2	2	100%	0	0%
CIDO	1	1	100%	0	0%
World Relief	2	2	100%	0	0%
IMC	24	22	92%	20	83%
MSF-H	4	3	75%	3	75%
MSF-E	6	4	67%	4	67%
HFO	2	1	50%	2	100%
UNIDOR	2	0	0%	2	100%
CRADA	2	0	0%	0	0%
<b>TOTAL</b>	<b>87</b>	<b>77</b>	<b>89%</b>	<b>72</b>	<b>83%</b>

**Timeliness for EWARS partner-supported sites were at 89% in both week 21, 2022 and 83% in week 20, 2022**



## Surveillance: EWARS timeliness performance indicator by partner for week 21 and 20 of 2022

PARTER	Number of reporting sites	# of reports received regardless of Time in Week 21	Completeness of Week 21	# of reports received regardless of Time in Week 20	Completeness of Week 20
UNH	2	2	100%	2	100%
CIDO	1	1	100%	1	100%
IRC	2	2	100%	2	100%
SMC	6	6	100%	6	100%
UNIDOR	2	2	100%	2	100%
Medair	2	2	100%	2	100%
HAA	4	4	100%	4	100%
HFO	2	2	100%	2	100%
Islamic Relief	5	5	100%	5	100%
SSHCO	1	1	100%	1	100%
Medicair	7	7	100%	7	100%
IOM	10	10	100%	10	100%
MC	2	2	100%	2	100%
MSF-H	4	4	100%	4	100%
TRI-SS	2	2	100%	2	100%
ADA	1	1	100%	0	0%
World Relief	2	2	100%	0	0%
IMC	24	22	92%	21	88%
MSF-E	6	4	67%	4	67%
CRADA	2	0	0%	2	100%
<b>TOTAL</b>	<b>87</b>	<b>81</b>	<b>93%</b>	<b>79</b>	<b>91%</b>

**Completeness for EWARS partner-supported sites was at 93% in week 21, 2022 and 91% in week 20, 2022**



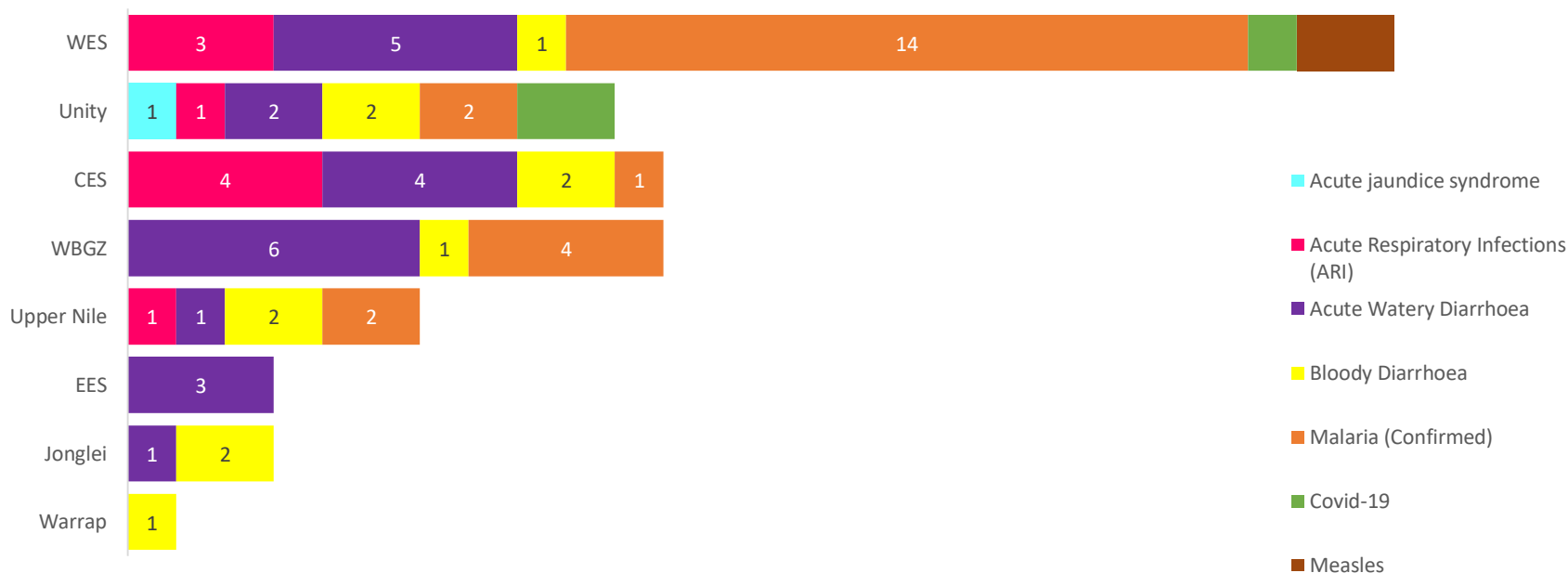
# EVENT-BASED SURVEILLANCE



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

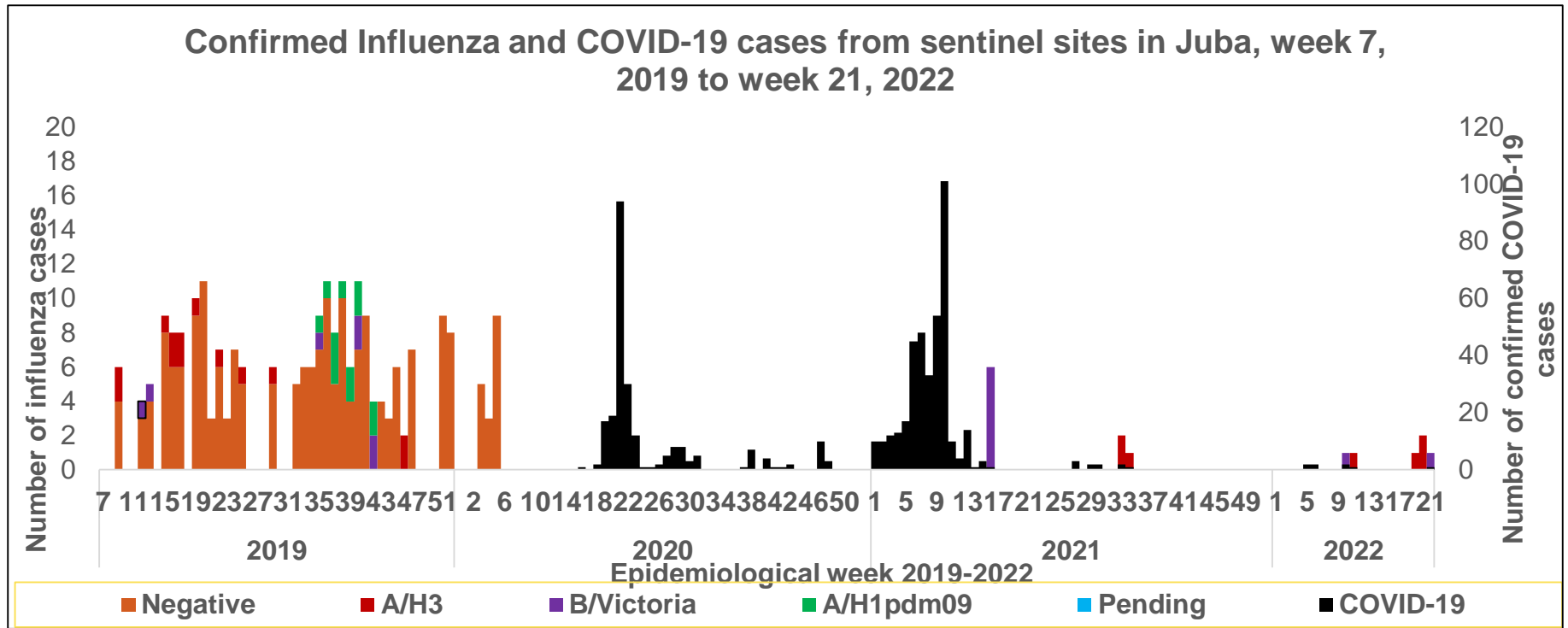


## Alert by disease and States in week 21 of 2022 [ a total of events specific alerts generated by state



### This week a total of 75 Alerts were triggered from the EWARS System:

- ❖ **2 Measles alert:** these alerts were triggered from WES State, Ibba county in Ibba PHCC.
- ❖ **1 AJS alert:** this was triggered from MSF-H Bentiu PoC Hospital in Rubkona County.
- ❖ **3 Cholera alert:** these were triggered from IRC Sector 4 Clinic, Rubkona Care PHCC and BUDANG PHCC in Rubkona and Unity State.
- ❖ **1 Guinea Worm alert:** this alert is from Nyal PHCC in Panyijari County, Unity State.



- There are currently three designated Influenza sentinel surveillance sites in Juba (Juba Teaching Hospital and Al Sabah Children's Hospital & Juba Military Hospital) that are collecting epidemiological data and samples from ILI/SARI cases.
- By the end of wk. 52 of 2021, a total of **266 ILI/SARI** samples have been collected and tested in NPHL, **257** being negative; 6(2%) positive for Influenza B (Victoria); 3 (1%) positive for Influenza A (H3) and zero(0%) positive for Influenza A (H1)pdm09.
- From week **1-21,2022**; a total of **211 ILI/SARI** samples were collected,**199** samples tested negative and a Cumulatively, **6** tested positive for covid-19,1 positive for Influenza B (Victoria), and **3** positive for influenza A(H3).

# Probable Cases; Hepatitis E, Leer County, Unity State

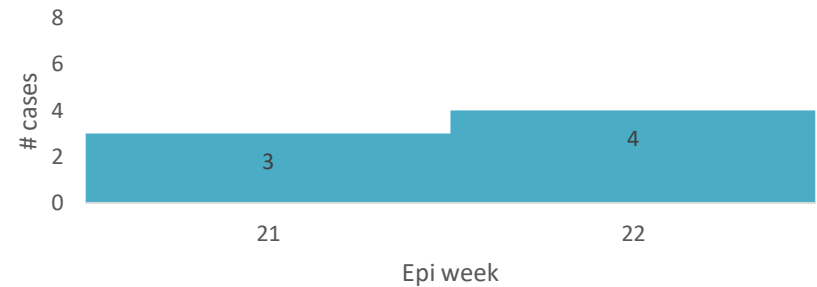
## Descriptive epidemiology

- Leer county started reporting suspected hepatitis E cases in week 21, 2022.
- Total of 7 cases been reported so far. 4 suspected AJS cases were reported in week 22, 2022. 4 positive RDT.
- Of the 7 cases, 0 tested positive for Hep C, Hep B or Malaria.
- Majority of the cases (57%) were reported from Leer payam.
- The first reported case, (Female, 18 years old, from Leer town) was reported on 21 May 2022. She's pregnant (2nd trimester), and was admitted to MSF clinic, made full recovery and was discharged on 28 May.
- Of these 7 cases, 6 were women (86%), 1 male (14%)
- Most cases are under 10 years of age - the median age for all the cases is 6 years (age range: 2-19 years)
- All 7 (100%) confirmed positive cases presented with jaundice. 1 case was admitted and discharged. Since then, no other cases have required admission.
- As of 02 June 2022, 0 deaths associated with this outbreak have been reported.
- One sample was collected and was shipped to NPHL for testing.

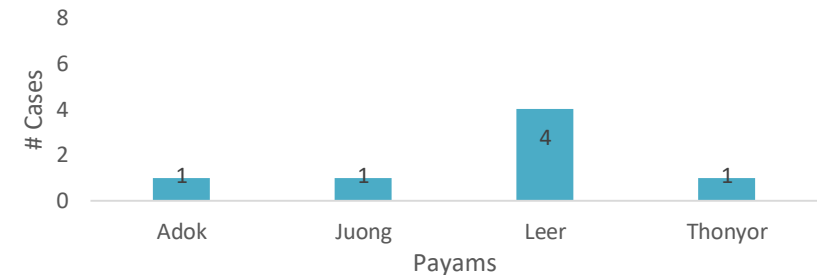
## Ongoing Response:

- Case management is ongoing
- Surveillance is being strengthen, CHD and partners to collect more samples for shipment and testing

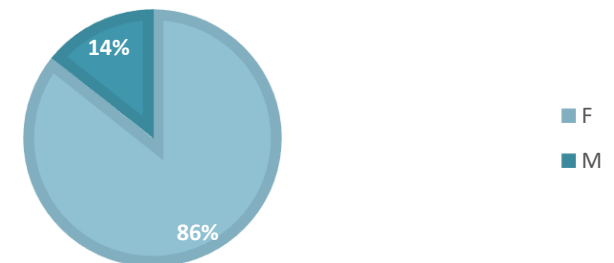
Epi curve of Probable Cases of HEV E cases in leer county from week 21 to week 22, 2022.



Probable Cases of HEV E cases in leer county by Location from week 21 to week 22, 2022.



PROBABLE CASES OF HEV E CASES IN LEER COUNTY BY SEX FROM WEEK 21 TO WEEK 22, 2022.



# **ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS**

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

## South Sudan Measles Lab updates as of week 21, 2022

S/N	County	Total Number of Samples tested	Measles IgM Positive	Rubella IgM Positive	Comment
1	Gogrial West	63	9	46	Confirmed measles outbreak in week 15 and rubella since week 1, 2022
2	Greater Pibor	9	1	0	
3	Yambio	3	0	0	
4	Wau	20	2	11	Confirmed rubella outbreak
5	Nzara	4	1	1	1 measles positive tested in week 8
6	Yei	2	0	0	
7	Raja	5	4	0	Confirmed Measles outbreak
5	Torit	17	9	1	Confirmed measles outbreak
6	Pariang	1	0	0	
8	Maban	10	4	5	Confirmed measles and rubella outbreak
9	Cueibet	4	0	4	Confirmed rubella outbreak
10	Tambura	16	3	13	Confirmed measles and rubella outbreak
11	Maridi	1	1	0	
12	Mundri West	1	0	0	
13	Aweil East	17	7	0	Confirmed measles outbreak
14	Aweil Centre	7	5	0	Confirmed measles outbreak
15	Aweil West	24	17	0	Confirmed measles outbreak
16	Budi	1	0	0	
17	Jur River	13	2	6	Confirmed rubella outbreak
18	Bor	1	0	0	
19	Wulu	1	0	0	
20	Nyirol	1	0	0	
21	Aweil North	3	2	0	
22	Magwi	1	1		
23	Aweil South	5	0	0	
24	Ibba	1	0	0	
	<b>TOTAL</b>	<b>231</b>	<b>68</b>	<b>87</b>	<b>136 samples tested negative for both Measles and rubella IgM</b>

- A total of 230 samples were received for measles/rubella serology testing from 24 counties, week 1 to week 21, 2022
- Of all the 231 samples, 68 tested positive for measles IgM and 87 rubella IgM positive
- Measles outbreaks confirmed in 8 counties and rubella in 6 counties as shown in the table

## Measles Situation Update in South Sudan June, 2022

S/N	County	Cases (n)	Deaths (CFR%)	Administrative coverage %	PCE results	Comments
1	Torit	43	2 (4.7%)	Completed	98%	
2	Maban County/Doro Refugee	161	0 (0%)	98% ( Refugee) 89% ( Host)		
3	Tambura	29	0 (0%)	102%	93%	
4	Raja	21	0 (0%)	ongoing		
5	Gogrial West	54	0 (0%)	Ongoing		
6	Aweil Center	34	0 (0%)	Planned		
7	Aweil East	34	0 (0%)	Planned		
8	Aweil West	56	0 (0%)	Planned		

# Response| Summary of major ongoing outbreaks in 2022



Aetiological agent	Location (county/ state)	Date first reported	New cases since last bulletin	Cumulative cases to date (attack rate %)	Interventions			
					Case management	Vaccination	Health promotion	WASH
<b>Ongoing epidemics</b>								
Hepatitis E	Bentiu PoC	03/01/2019	45	2,704(0.0)	Yes	No	Yes	Yes
COVID-19	35 counties	05/4/2020	49	17,064 (0.0028)	yes	yes	yes	yes
Cholera	Bentiu	20/3/2022	27	149(0.018)	yes	yes	yes	yes
Anthrax	Gogrial West	24/1/2022	4	72(0.055)	Yes	No	Yes	Yes
Meningitis	Northern Bahr Elgazal State	7/1/2022	2	247(0.008)	Yes	No	Yes	Yes
Measles	Aweil West	11/5/2022	2	56(0.035)	Yes		Yes	Yes
Measles	Aweil East	12/3/2022	2	34(0.058)	Yes		Yes	Yes
Measles	Aweil Center	24/4/2022	3	21(0.14)	Yes		Yes	Yes



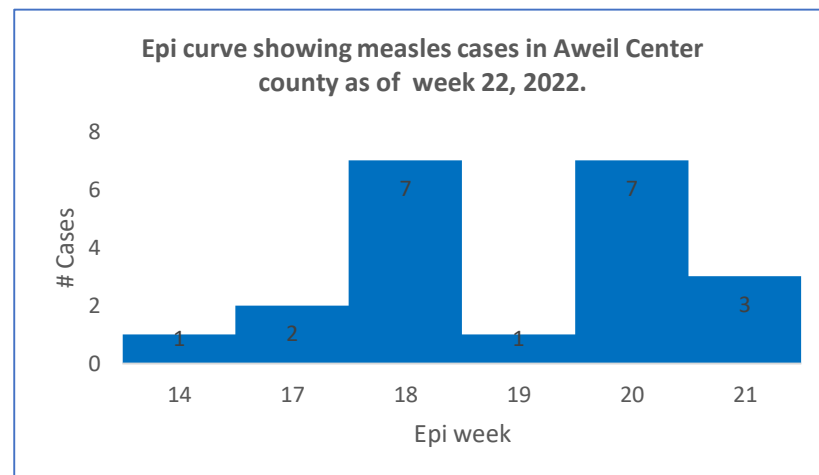
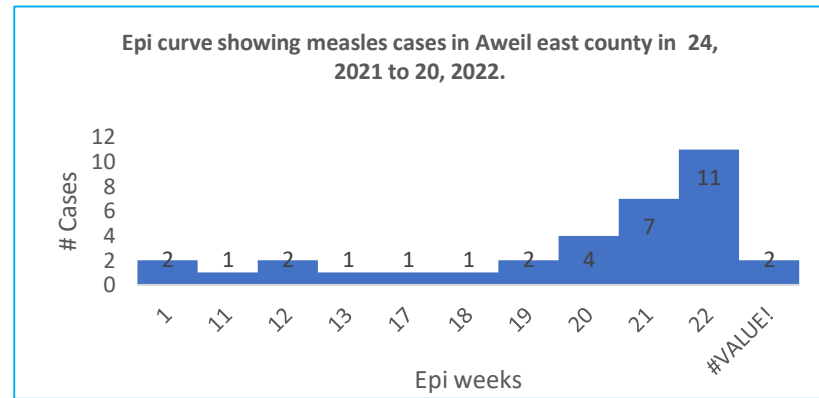
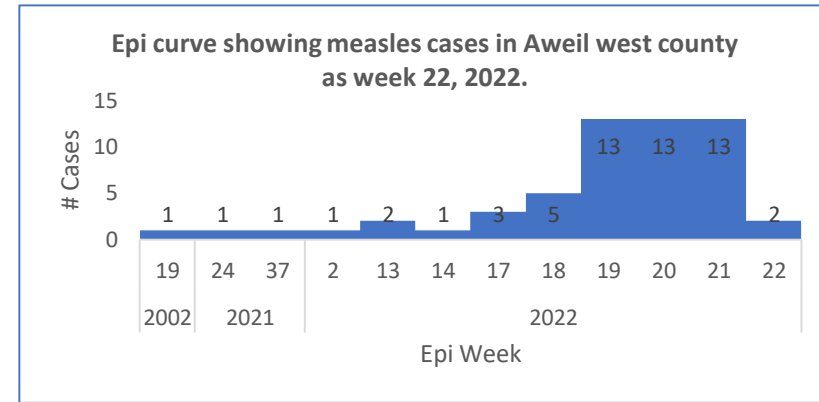
# Confirmed Measles Outbreak in Aweil West, Aweil East and Aweil Center Counties, NBeGZ State

## Descriptive epidemiology

- Aweil East county started reporting suspected measles cases first in week 11, 2022 followed by Aweil Center in week 17, 2022 and Aweil West in week 19, 2022.
- Majority of the cases were reported from Aweil West with 56 cases, and 34 cases for Aweil East and 21 cases for Aweil Center.
- 19% (4) cases from Aweil center county were vaccinated, while 12.5% (7) in Aweil West and 8.8% (3) cases in Aweil East county.
- Children under the age of five year represent 78% (70% if you only count 6 – 59 months) of the affected population.
- Majority of the cases are male in Aweil West compared to Aweil East and Aweil North
- Most affected areas are Aweil Town and Baac

## Response Actions

- Micro plans developed and ongoing plan for reactive campaign (Targeting children aged 6- 59 Month old)
- Case management is ongoing
- Surveillance is being strengthen with continues sample collection



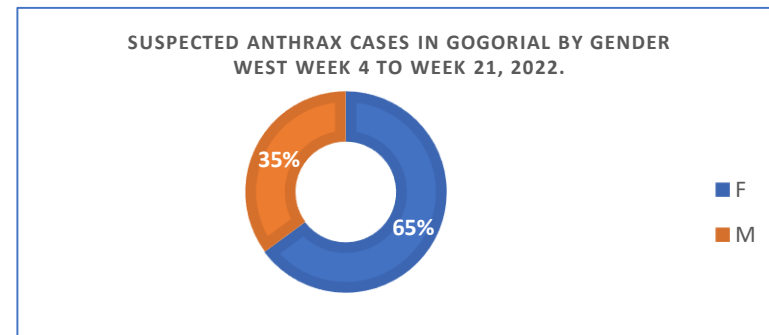
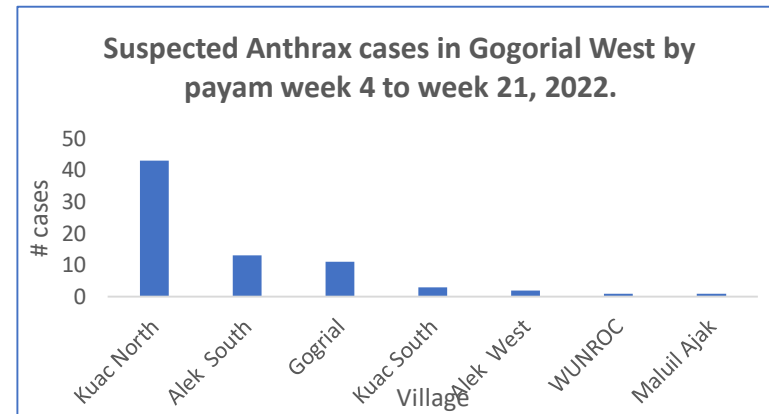
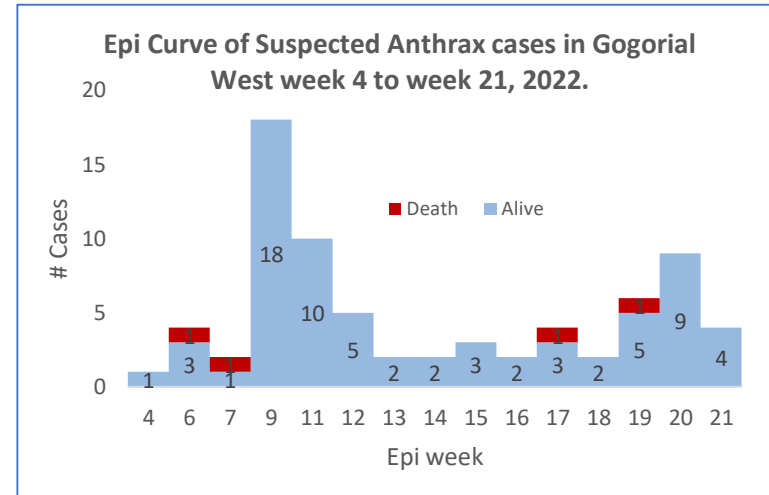
# Confirmed Anthrax Cases in Gogrial West County- Warrap State



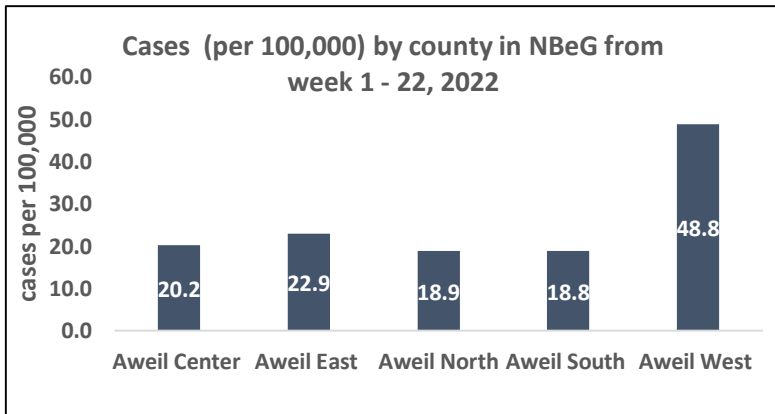
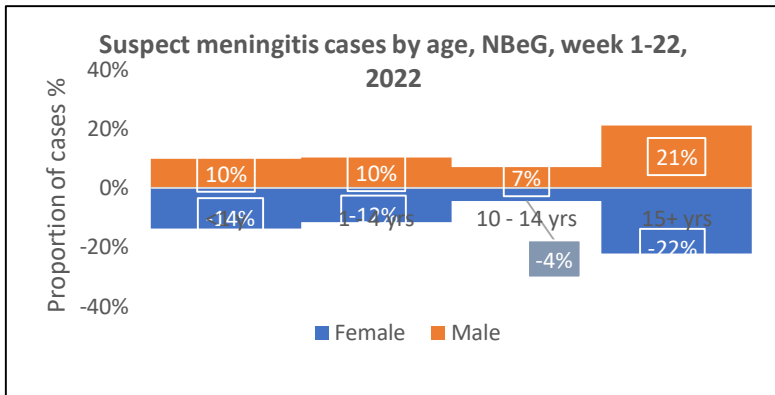
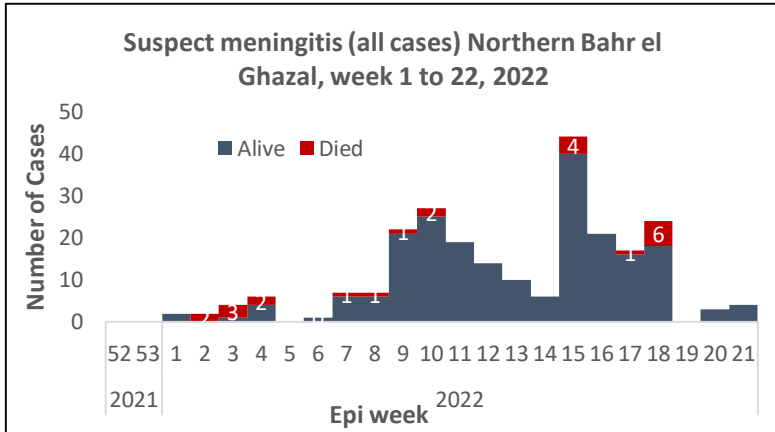
- Suspected anthrax cases were detected at the Kuajok hospital, and a retrospective review of the facility registers revealed over cases in the past two months.
- On 18th May 2022, a national team composed of MOH, MOAF, WHO, ICAP, and FAO visited the state to conduct an in-depth epidemiological investigation and response. The team visited Kuajok hospital, Gogrial PHCC, and Alak PHCC to review register books. The team also visited 24 villages where Anthrax suspected cases come from
- A total of additional 38 cases were Identified bringing the total number of cases line-listed to **72 cases**, **4** reported deaths related to Anthrax with a case fatality rate (**CFR 5.6%**).
- All cases are from one County of Gogrial West. **>60%** of the cases are from Kuac North Payam. **67%** of the cases are among females.
- Out of the 18 samples collected , 8 tested positive by PCR.
- Additional 7 human samples were collected from cutaneous lesions for further analysis. sample collected, 4 samples in Kuajok State Hospital, 2 samples from Mathiang Monyjoo village and one from Akac Village.
- A total of 10 animal samples were collected by the animal health experts and 3 soil samples for further analysis.

## Ongoing response

- Active case search and line listing of cases in the affected county and the surrounding.
- Case management at Kuajok hospital.
- Ongoing discussions with the Ministry of Animal Resources and Fisheries to conduct an immunization campaign to vaccinate all domestic Animals
- Risk communications and community engagements activities are ongoing through local radios
- More samples to be collected for Gram stain and PCR.
- Ongoing multisectoral coordination meeting at state and national level.



# Suspected Meningitis in Northern Bahr el Ghazal State



- **247** suspect cases, with **23 deaths (CFR 9%)** reported from **5** counties in NBeG from week **1-22, 2022**
- **Spike** in suspect cases reported in **week 10** initially and eventually in **week 15, 2022**
- Most cases reported among **15+ yrs (43%)** and **<1 – 4 yrs (24%)**
- **Most deaths (CFR 57%)** have occurred **in infants (<1yr)** with **risk of death decreasing with increasing age**
- **High overall CFR of 9%** but below the threshold of <10%
- **Aweil West & Aweil East** reported the **highest cumulative attack rates** and **surpassed the alert threshold.**
- **A total of 18 samples** were shipped to NPHL and then to the National Institute of Communicable Diseases in South Africa for PCR, of the 18 samples 5 were positive for *Neisseria meningitidis*, (3 serogroup X) and 4 *Streptococcus pneumoniae* and one *H. Influenzae*. *Other 9 samples tested negative by PCR and no growth by culture.*
- Last **MenAfriVac** vaccination in March **2016** attained **adm. coverage of 92.3%**. South Sudan has not introduced the pneumococcal vaccine (PCV) into routine immunisation

## Response Activities Underway:

- State MoH and partners are doing weekly coordination meetings.
- Case identification, investigation and management underway in Aweil Civil hospital by MSF France
- Secured 3,000 vials of ceftriaxone from ICG and **shipment of 1,000 vials of ceftriaxone is underway to NBeG state/ Aweil**
- WHO support to establish capacities for molecular testing of bacterial meningitis in South Sudan through NICD
- WHO support to strengthen surveillance and response capacities through trainings on IDSR and meningitis surveillance and response

# Confirmed Cholera Outbreak in Bentiu, Unity State

## Descriptive epidemiology

- *V. cholerae* case confirmed on 14 Apr 2022 in Bentiu.
- **27** new cholera cases (including 3 RDT positive cases) reported from Bentiu IDP camp
- 0 new deaths reported. One RDT positive case (CFR 0.90%) died on 26 April 2021
- **149** cholera cases have been reported cumulatively.
- **29** RDT positive cases of whom, **15** tested culture positive
- Of the total cases reported, 97 (65.1%) are females, and males account for 52 (34.9%).
- Age group 5-9 years accounts for 11 (7.4%).
- Round two of Oral cholera vaccine (OCV) campaign in Rubkona county has commenced.
- A total of 72 (48.3%) of the cases were not previously vaccinated, 57 (38.3%) have unknown vaccination status and 20 (13.4%) were vaccinated.

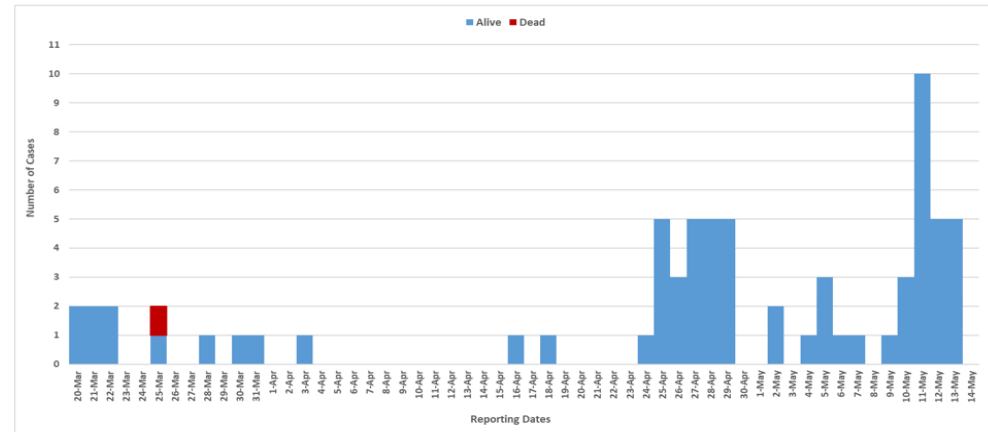
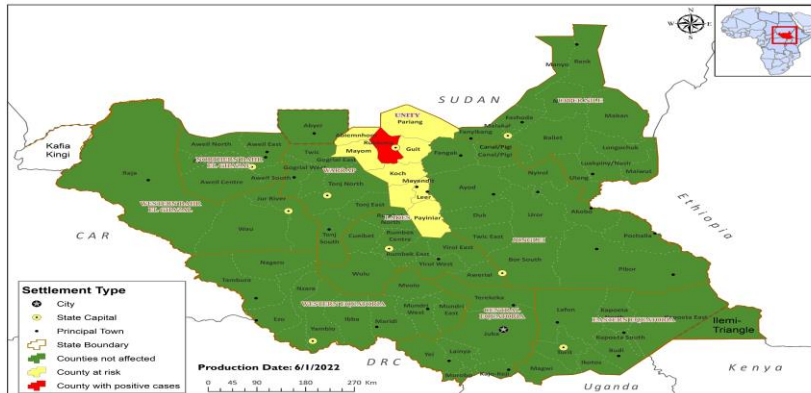


Figure 3: Epi curve of Positive cholera cases in South Sudan, 20 March to 14 May 2022

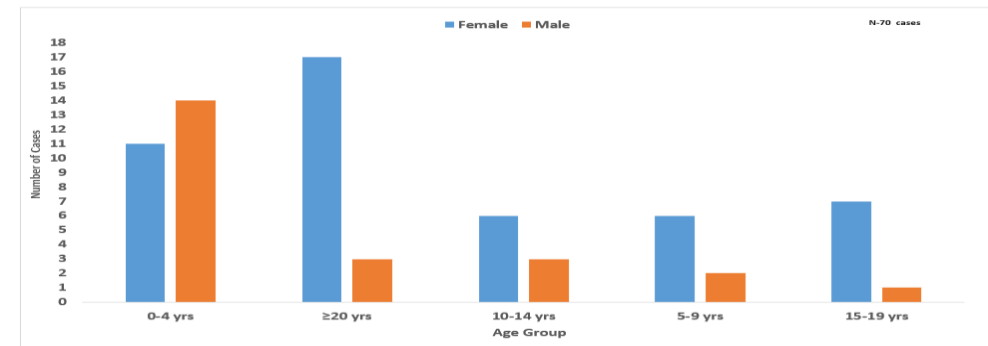
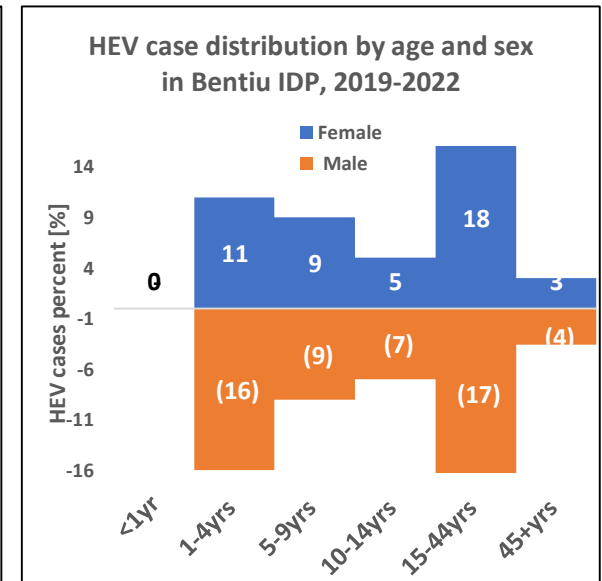
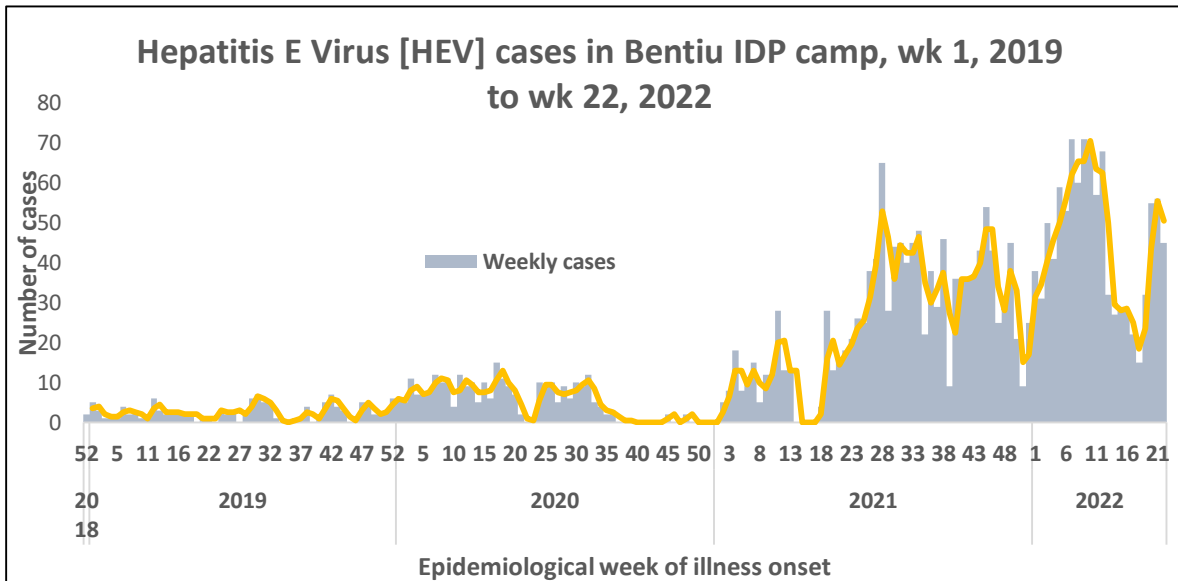


Figure 5: Distribution of reported suspected cases by sex and age, Rubkona County, as of 14 May 2022

- PHEOC activated to coordinate response
- Cholera Contingency plan finalized for resource mobilization, total budget is (23,549,870.04USD)
- Surveillance heightened and suspected cholera cases are being investigated at the sub national level by surveillance officers
- [https://moh.gov.ss/press\\_release.php](https://moh.gov.ss/press_release.php)

- OCV campaign in Juba county will be launched on **14th June 2022** in Medan Zahra playground.
- OCV Social mobilizers training will be conducted on 9<sup>th</sup> June 2022, at the SMOH
- OCV vaccinators/ TOT training will be held on 10<sup>th</sup> June 2022 at the public health institute.
- The SMOH and Health partners will be supporting the teams in different Payam.
- The vaccination will be held in the following payams ; Bungu, Dolo, Ganji, Gondokoro, Juba Town, Kator, Lirya, Lokiliri, Lobonok, Mangala, Munuki, Northern Bari, Rajaf, Rokon, PoC 1, PoC 3, Mangala IDP, Mangateen, Mahad, Don Bosco.
- The campaign is targeting **633,336** people one year and above.
- WHO is providing technical support and the operational costs for the campaign.
- GTFCC has approved **425,000** OCV doses for the campaigns in hotspot counties of Awerial and Yirol East.
- However, the ICG request for 1million OCV doses targeting 5 counties surrounding Rubkona county was not approved due to shortage in global oral cholera vaccine stockpile. Health workers and implementing partners are advised to continue the efforts to strengthen surveillance in the country; and resubmit immediately a new ICG request if cholera cases are confirmed.



### Descriptive epidemiology

- The persistent transmission of HEV in Bentiu IDP camp continues with **2,703** cases since the beginning of 2019
- A total of **45** HEV cases were detected and reported in week 22 2022.
- **HEV transmission has reduced from a peak of 60 cases every fortnight by week 8, 2021 to 40 cases every fortnight by week 22, 2022.**
- All the cases have been managed as outpatient cases except for seven cases who were admitted
- **24** deaths reported in 2019, 2020 and 2021 (**CFR 0.88%**)
- 46% are female and 54% are male. Within the IDP camp, the sector specific attack rates for HEV disease for the period week 1, 2022 are highest in sectors 3 and 5.



### HEV response update

1. Following the completion of the multi-cluster HEV response strategy, resources have been secured to optimize the response and interrupt transmission.
2. Increased the amount of water per person to 16 liters as part of Hepatitis E virus response
3. IOM has constructed 28 latrines in sectors 2&3
4. IOM deployed 5 operational dislodging tanks for human excreta disposal and dislodging disposition is ongoing in all sectors.
5. IOM has deployed casual workers to collect the solid waste
6. IOM hygiene promoters conducting house-to-house & schools messaging on HEV control
7. IRC recruited 33 home health promoters in sector 4 and 5; while WR recruited and deployed 15 HHs at sector 1 & 2.
8. IOM conducted targeted NFI distribution to Lactating and pregnant
9. IOM-CCCM deployed teams to clean up the drainage around the camp to flash out stagnant water and about 18 kilometer of drainage has been cleared and dried up.
10. WHO trained 90 HCWs to enhance HEV detection and investigation while 90 frontline HCWs were trained on case management
11. MSF conducting case verification and active case search in the community
12. Weekly HEV Taskforce coordination meeting ongoing to provide leadership to and oversee the response
13. **The HEV vaccination campaign was conducted in March 2022; first round coverage was 91% and second round was 82% in Bentiu IDP camp were vaccinated aged 16-40 years (incl. pregnant women)**

### HEV response challenges

1. WR and IRC lack HEV testing kits to diagnose the disease
2. Lack of long-term investment to improve WASH situation in the camp

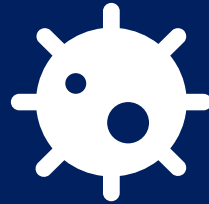
# Response | Summary of major controlled outbreaks in 2020 and 2021



Aetiological agent	Location (county)	Date first reported	New cases since last bulletin	Cumulative cases to date (attack rate %)	Interventions			
					Case management	Vaccination	Health promotion	WASH
<b>Controlled epidemics</b>								
Measles	Pibor	27/1/2020	NR	355 (0.0028)	Yes	Yes		Yes
Measles	Wau	5/1/2020	NR	39 (0.051)	Yes	Yes		Yes
Measles	Ibba	25/1/2020	NR	55 (0.36)	Yes	Yes		Yes
Rubella	Tambura	11/1/2021	NR	23 (0.13)	Yes	No		Yes
Rubella	Nagero	01/03/ 20201	NR	5 (0.25)	Yes	No		Yes
cVDPV2	25 counties	11/06/2020 18/09/2020	NA	59	Yes	Yes		Yes
Measles	Torit	8/2/2022	NR	1 (0.023)	Yes	Yes		Yes
Measles/ Rubella	Maban- Doro Camp	5/01/2022	NR	20 (0. 124)	Yes	Yes		Yes
Measles/ Rubella	Tambura	20/02/2022	NR	5 ( 0.4)	Yes	Yes		Yes
Rubella	Gogrial West		NR	76(0.13)	Yes	No		Yes



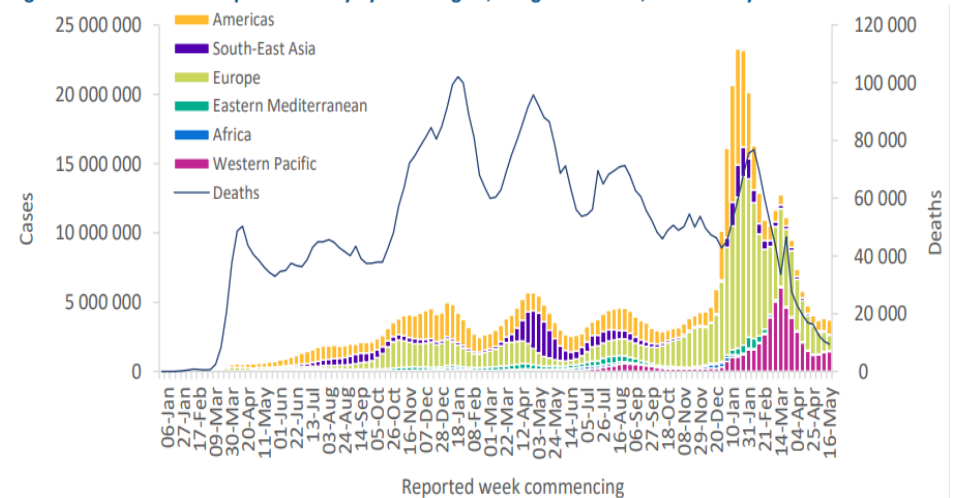
# COVID-19 UPDATES



## Situation update as of 22<sup>nd</sup> May 2022

- Globally, 22<sup>nd</sup> May 2022, there have been 522 970 476 confirmed cases of COVID-19, including 6 277 407 deaths, reported to WHO. As of 10<sup>th</sup> May 2021, a total of 11,947,644,522 vaccine doses have been administered.**
- In Africa, as of 22<sup>nd</sup> May, there have been 8 949 290 confirmed cases of COVID-19, including 172 308 deaths reported to WHO**

Figure 1. COVID-19 cases reported weekly by WHO Region, and global deaths, as of 22 May 2022\*\*



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



- **17,598** confirmed cases with **138** deaths and 3,945 active cases - **0.78%** case fatality rate (CFR)
- **2** new confirmed cases during the week.
- The Omicron [B.1.1.529]) predominates the last batch of samples sequenced at Uganda Virus Research Institute ; 79.6% of cases detected in Juba compared to 20.4% outside of Juba
- **2,121,370** vaccine doses received to-date. **717,964** vaccine doses administered to date. **625,723** fully vaccinated ( 3,736 with two AZ vaccine doses, 578,691 with single dose J&J vaccine). Ongoing vaccination roll-out in 10 state, 3 administrative areas, 80 counties and 694 health facilities.

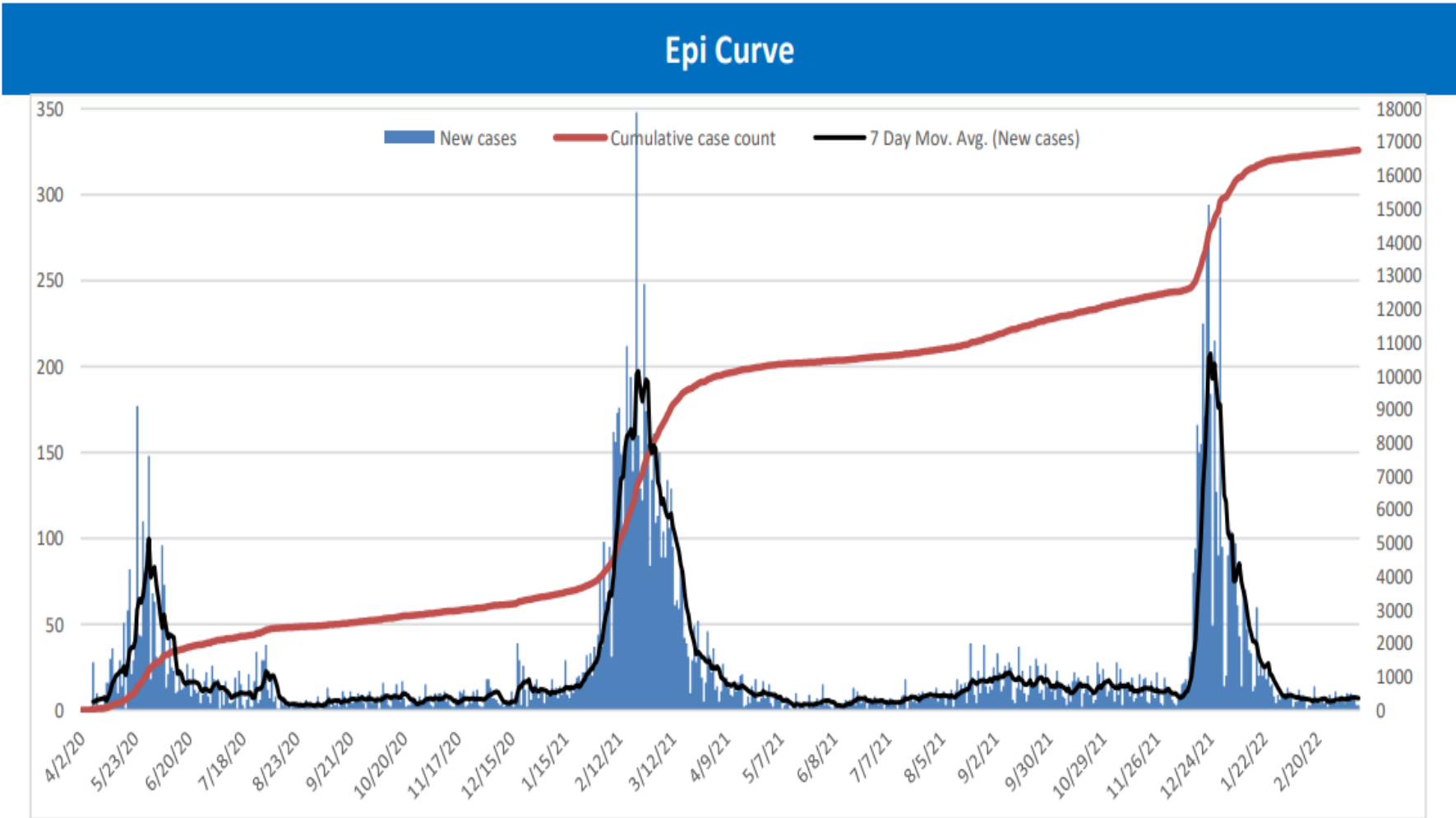
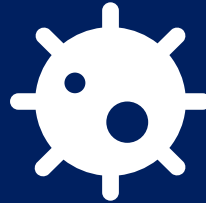


Figure 2. Epidemiological curve of reported cases through Week 10

**DEMOCRATIC REPUBLIC OF THE CONGO**

**| EBOLA VIRUS DISEASE OUTBREAK**

**SOUTH SUDAN PREPAREDNESS**



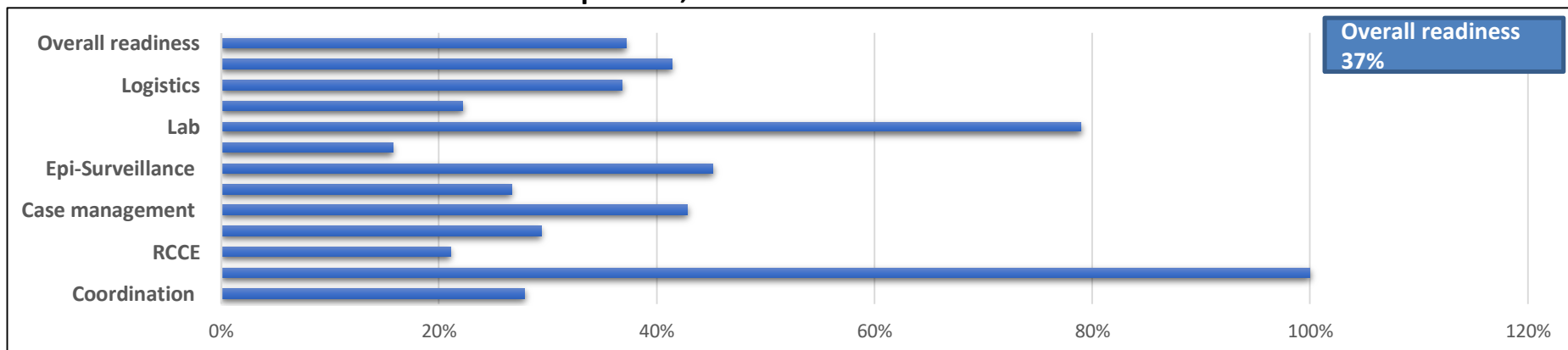
## Highlights

- No new case of Ebola virus disease (EVD) has been reported in the Democratic Republic of the Congo since the last reported confirmed case on 19 May 2022. As of 25 May 2022.
- Cumulative of five cases (four confirmed and one probable) have been recorded, with a CFR of 100% .
- As of 29 May 2022, a total of 638 contacts have been identified and listed since the onset of the outbreak. Of these, 67 have been dropped after completing 21 days of follow-up while 571 remain under follow-up

## South Sudan Priority Areas:

1. Coordination and stewardship.
2. Epi surveillance including contact tracing at health facility and community level and PoE
3. RCCE
4. Laboratory strengthening (lack of primers)
5. IPC and SDB- South Sudan had launched it's IPC strategic plan and partners have expressed commitments to support the plan. Need to strengthened SDB
6. Case management and vaccination

**Baseline EVD readiness capacities, June 2022**





**OVERALL  
CONCLUSIONS AND  
RECOMMENDATIONS**

# Conclusions

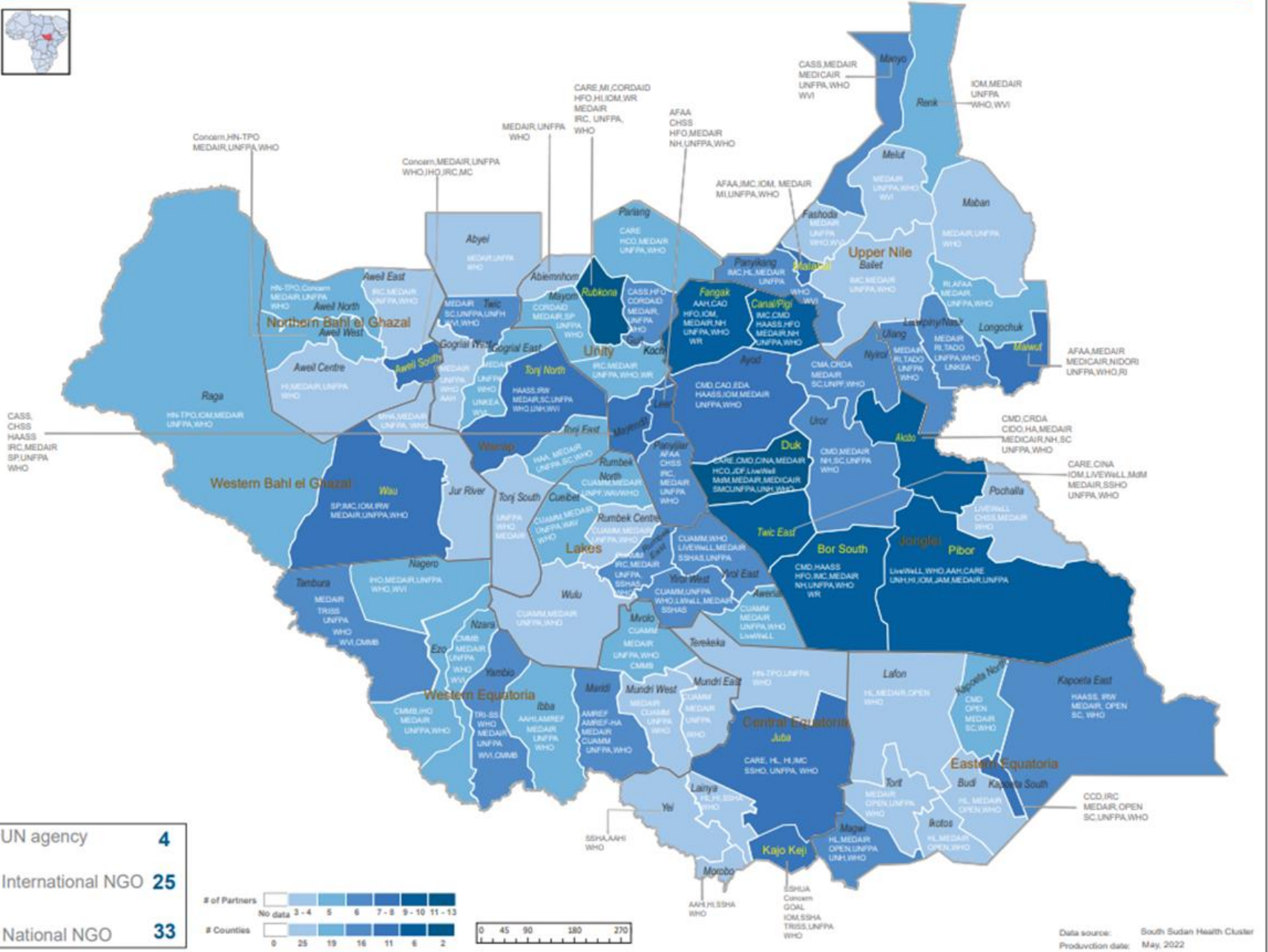
- The overall performance of IDSR and EWARNS reporting sites in week 21, 2022 is above the target of 80%
- **17,598** confirmed COVID-19 cases (CFR **0.78%**) **138** deaths reported since the onset of the outbreak
- HEV transmission has reduced from a peak of 60 cases every fortnight by week 8, 2021 to 40 cases every fortnight by week 22, 2022.
- Confirmed Measles outbreaks in Aweil West, Aweil East and Aweil North counties
- Confirmed Cholera outbreak in Bentiu, Unity with 149 cases and one death CFR 0.67%
- Meningitis outbreak in Northern Bah Elgazal state with 247 suspect cases and 23 deaths (CFR 9%)
- Confirmed anthrax in Gogrial West county with 8 tested positive with 72 cases and 4 reported deaths a case fatality rate (CFR 5.6%).



# Recommendations

- Partners should continue supporting County Health Departments (CHD) & State Ministries of Health on timely IDSR/EWARN reporting
- Health facilities should conduct initial investigation on suspected epidemic prone diseases and collect samples
- Support the multicluster HEV response strategy in Bentiu IDP camp and the ongoing cholera outbreak
- Strengthen surveillance for Meningitis in NBGZ and Anthrax in Warrap states
- Enhance COVID-19 surveillance, investigate ARI/ILI/SARI cases, and optimize SARS-COV2 Ag-RDT use
- Implement the accelerated COVID-19 vaccine absorption plan to attain 70% coverage by July 2022
- Conduct reactive measles vaccination campaign Aweil West, Aweil East and Aweil North counties and mobilize communities countrywide to enhance routine immunization

# South Sudan Health Cluster HRP Partners 2022



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# IDSR timeliness & completeness performance at county level for week 21 and 20 of 2022 (1)



STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 21	Timeliness Percentage of WK 21	No. of HF's Reported regardless of time in WK 21	Completeness Percentage of WK 21	No. of HF's Reported regardless of time in WK 20	Completeness Percentage of WK 20	STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 21	Timeliness Percentage of WK 21	No. of HF's Reported regardless of time in WK 21	Completeness Percentage of WK 21	No. of HF's Reported regardless of time in WK 20	Completeness Percentage of WK 20
Jonglei	Pibor	7	7	100%	7	100%	7	100%	Warrap	Tonj East	12	12	100%	12	100%	11	92%
Jonglei	Pochalla	7	7	100%	7	100%	7	100%	Warrap	Tonj South	12	12	100%	12	100%	12	100%
Jonglei	Duk	15	15	100%	15	100%	15	100%	Warrap	Tonj North	19	18	95%	18	95%	18	95%
EES	Kapoeta South	10	9	90%	9	90%	7	70%	Upper Nile	Longechuk	9	8	89%	9	100%	8	89%
Jonglei	Ayod	15	13	87%	13	87%	7	47%	Upper Nile	Akoka	5	4	80%	5	100%	5	100%
Jonglei	Twic East	11	9	82%	9	82%	9	82%	Upper Nile	Ballet	4	3	75%	3	75%	1	25%
Jonglei	Nyirrol	10	8	80%	8	80%	8	80%	Upper Nile	Makal	7	5	71%	5	71%	5	71%
Jonglei	Fangak	19	14	74%	15	79%	14	74%	Upper Nile	Maban	17	12	71%	13	76%	13	76%
EES	Torit	20	14	70%	14	70%	17	85%	Warrap	Twic	26	18	69%	18	69%	12	46%
EES	Magwi	22	14	64%	15	68%	16	73%	Upper Nile	Luakpiny Nasir	12	8	67%	8	67%	8	67%
Jonglei	Bor	35	21	60%	21	60%	21	60%	Upper Nile	Panyikang	3	2	67%	2	67%	2	67%
EES	Ikotos	27	16	59%	18	67%	17	63%	Warrap	Gogrial West	31	20	65%	20	65%	24	77%
EES	Kapoeta East	12	6	50%	7	58%	7	58%	Warrap	Gogrial East	15	9	60%	10	67%	11	73%
Jonglei	Canal Pigi	12	5	42%	5	42%	7	58%	Upper Nile	Fashoda	16	7	44%	9	56%	8	50%
EES	Lopa Lafon	18	7	39%	11	61%	12	67%	Upper Nile	Manyo	11	4	36%	6	55%	4	36%
EES	Budi	21	8	38%	13	62%	1	5%	Upper Nile	Ulang	14	2	14%	6	43%	3	21%
Jonglei	Akobo	14	5	36%	6	43%	9	64%	Upper Nile	Melut	8	0	0%	1	13%	6	75%
Jonglei	Uror	8	0	0%	1	13%	1	13%	Warrap	Abyei	9	0	0%	0	0%	3	33%
EES	Kapoeta North	16	0	0%	0	0%	1	6%	Upper Nile	Maiwut	5	0	0%	0	0%	4	80%
									Upper Nile	Renk	11	0	0%	0	0%	6	55%

# IDSR timeliness & completeness performance at county level for week 21 and 20 of 2022 (2)



STATE	COUNTY	Number of reporting sites	No. of HFs Reported on Time in WK 21	Timeliness Percentage of WK 21	No. of HFs Reported regardless of time in WK 21	Completeness Percentage of WK 21	No. of HFs Reported regardless of time in WK 20	Completeness Percentage of WK 20
Lakes	Wulu	14	14	100%	14	100%	14	100%
Lakes	Rumbek East	24	24	100%	24	100%	24	100%
Lakes	Yirol West	12	12	100%	12	100%	12	100%
Lakes	Yirol East	11	11	100%	11	100%	11	100%
NBGZ	Aweil South	15	15	100%	15	100%	12	80%
NBGZ	Aweil North	15	15	100%	15	100%	14	93%
NBGZ	Aweil Centre	13	13	100%	13	100%	13	100%
CES	Morobo	5	5	100%	5	100%	5	100%
CES	Kajo Keji	17	16	94%	16	94%	16	94%
CES	Yei	17	16	94%	16	94%	16	94%
WBGZ	Wau	31	28	90%	28	90%	29	94%
NBGZ	Aweil West	20	18	90%	20	100%	20	100%
Lakes	Awerial	7	6	86%	6	86%	7	100%
CES	Juba	46	37	80%	37	80%	30	65%
Lakes	Cueibet	15	12	80%	15	100%	15	100%
CES	Lainya	16	11	69%	11	69%	11	69%
NBGZ	Aweil East	26	17	65%	24	92%	14	54%
CES	Terekeka	20	11	55%	11	55%	11	55%
Lakes	Rumbek North	7	3	43%	3	43%	7	100%
WBGZ	Jur River	40	0	0%	40	100%	40	100%
Lakes	Rumbek Centre	23	0	0%	22	96%	23	100%
WBGZ	Raja	15	0	0%	10	67%	9	60%

STATE	COUNTY	Number of reporting sites	No. of HFs Reported on Time in WK 21	Timeliness Percentage of WK 21	No. of HFs Reported regardless of time in 21	Completeness Percentage of WK 21	No. of HFs Reported regardless of time in WK 20	Completeness Percentage of WK 20
Unity	Abiemnhom	4	4	100%	4	100%	4	100%
Unity	Mayendit	7	7	100%	7	100%	7	100%
WES	Nzara	20	20	100%	20	100%	20	100%
WES	Mundri West	21	21	100%	21	100%	21	100%
WES	Maridi	26	26	100%	26	100%	26	100%
WES	Mundri East	19	19	100%	19	100%	19	100%
WES	Yambio	42	41	98%	41	98%	42	100%
WES	Ibba	11	10	91%	11	100%	11	100%
WES	Mvolo	11	10	91%	10	91%	10	91%
WES	Tambura	28	25	89%	26	93%	26	93%
Unity	Koch	7	6	86%	6	86%	6	86%
Unity	Mayom	13	11	85%	12	92%	13	100%
Unity	Pariang	11	9	82%	9	82%	1	9%
WES	Ezo	32	25	78%	32	100%	31	97%
Unity	Leer	11	8	73%	10	91%	11	100%
Unity	Guit	7	5	71%	5	71%	5	71%
Unity	Rubkona	20	14	70%	14	70%	12	60%
Unity	Panyijiar	16	10	63%	12	75%	11	69%
WES	Nagero	10	4	40%	10	100%	10	100%

**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 2021 use the link below:**

**<https://www.afro.who.int/publications/south-sudan-weekly-disease-surveillance-bulletin-2021>**

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

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### Notes

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The data has been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

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

