



South Sudan Ministry of Health

Integrated Disease surveillance
and response (IDSR)



World Health
Organization
South Sudan

Epidemiological Bulletin Week 42, 2022 (October 16- October 22)

Major epidemiological highlights in week 42 of 2022



- In week **42, 2022, the** IDSR reporting timeliness and completeness were **82%** and **88%** respectively while the timeliness and completeness for EWARN sites were at **85% and 96%**
- The overall performance of IDSR and EWARN reporting sites in week 42, 2022 is above 80% for both IDSR sites and EWARN sites
- Of 142 alerts were reported in week 42, 2022; **29.5%** Malaria (42), AWD **23.9%**(34), **19.7%ARI (28)**
- Confirmed outbreak of Sudan Ebolavirus in Uganda with eight districts affected. As of November 11, 137 confirmed cases and 54 confirmed deaths giving a CFR of 39%.
- A total of 20 suspected Ebola Virus Disease (EVD) cases were reported from Nimule, Yei, Yambio, Kajo-keji, Juba, and Rubkona with samples collected from 06 samples collected and all tested negative for EVD.
- On other emergencies, floods have affected over **1.1 million** people in **36** counties, and high cases of Acute Malnutrition in South Sudan due to **food insecurity**.
- Confirmed measles outbreaks in 15 counties since the beginning of the year 2022 with the latest counties affected including Leer, Rubkona (Bentiu camp)
- Hepatitis E virus cases continue to be reported in Bentiu IDP Camp with 17 cases reported in week 39 giving a cumulative of 3,400 cases and 25 deaths (CFR 0.76%) reported since week 1, 2019

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 42 &



Timeliness States Ranking	States	Number of reporting sites	No. of HF's Reported on Time in WK 42	Timeliness Percentage of WK 42	No. of HF's Reported on Time in WK 41	Timeliness Percentage of WK 41
1st	WES	218	218	100%	218	100%
2nd	EES	105	98	93%	99	94%
3rd	Unity	95	83	87%	89	94%
4th	NBGZ	89	77	87%	81	91%
5th	Warrap	124	105	85%	99	80%
6th	CES	129	106	82%	124	96%
7th	Jonglei	127	103	81%	107	84%
8th	WBGZ	79	51	65%	73	92%
9th	Lakes	113	65	58%	113	100%
10th	Upper Nile	98	52	53%	81	83%
	South Sudan	1177	958	81%	1084	92%

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 42 stands at 81% while in week 41 it was at 92% and 7 states were above the target of 80% in week 42.

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



IDSR Completeness performance at State level for week 42 & 41 of 2022



Completeness States Ranking	States	Number of reporting sites	No. of HFs Reported regardless of time in WK 42	Completeness Percentage of WK 42	No. of HFs Reported regardless of time in WK 41	Completeness Percentage of WK 41
1st	WES	218	218	100%	218	100%
2nd	Lakes	113	111	98%	113	100%
3rd	EES	105	102	97%	99	94%
4th	Unity	95	92	97%	89	94%
5th	WBGZ	79	75	95%	73	92%
6th	NBGZ	89	80	90%	81	91%
7th	CES	129	113	88%	124	96%
8th	Warrap	124	107	86%	99	80%
9th	Jonglei	127	108	85%	107	84%
10th	Upper Nile	98	72	73%	81	83%
	South Sudan	1177	1078	92%	1084	92%

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 42 stands at 92% same as in week 41 and 9 states were above the target of 80% in week 42.

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



Surveillance: EWARS Timeliness performance indicator by partner for week 42 and 41 of 2022

World Health Organization
South Sudan

Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received on Time in Week 42	Timeliness of Week 42	# of reports received on Time in Week 41	Timeliness of Week 41
Medicair	3	3	100%	3	100%
UNH	2	2	100%	2	100%
CIDO	1	1	100%	1	100%
ADA	1	1	100%	1	100%
HFO	4	4	100%	4	100%
IRC	1	1	100%	1	100%
SMC	6	6	100%	6	100%
SSHCO	1	1	100%	1	100%
UNIDOR	2	2	100%	2	100%
Medair	2	2	100%	2	100%
IOM	10	10	100%	10	100%
World Relief	2	2	100%	2	100%
MSF-H	4	4	100%	2	50%
MC	2	2	100%	1	50%
IMC	24	21	88%	23	96%
Islamic Relief	5	4	80%	5	100%
MSF-E	6	4	67%	4	67%
TRI-SS	2	0	0%	2	100%
HAA	4	0	0%	0	0%
TOTAL	82	70	85%	72	88%

The Timeliness of EWARS in partners' supported sites stands at 85% in week 42 and 88% in week 41 .



Surveillance: EWARS completeness performance indicator by partner for week 42 and 41 of 2022



Partner	HFs	Reporting	Performance		
PARTER	Number of reporting sites	# of reports received regardless of Time in Week 42	Completeness of Week 42	# of reports received regardless of Time in Week 41	Completeness of Week 41
UNH	2	2	100%	2	100%
CIDO	1	1	100%	1	100%
TRI-SS	2	2	100%	2	100%
ADA	1	1	100%	1	100%
Medicair	3	3	100%	3	100%
HFO	4	4	100%	4	100%
IRC	1	1	100%	1	100%
SMC	6	6	100%	6	100%
SSHCO	1	1	100%	1	100%
UNIDOR	2	2	100%	2	100%
Medair	2	2	100%	2	100%
MSF-H	4	4	100%	4	100%
IOM	10	10	100%	10	100%
MC	2	2	100%	2	100%
World Relief	2	2	100%	2	100%
IMC	24	21	88%	22	92%
Islamic Relief	5	4	80%	5	100%
MSF-E	6	4	67%	4	67%
HAA	4	0	0%	0	0%
TOTAL	82	72	88%	74	90%

The Completeness of EWARS in partners' supported sites stands at 88% in week 42 and 90% in week 41.

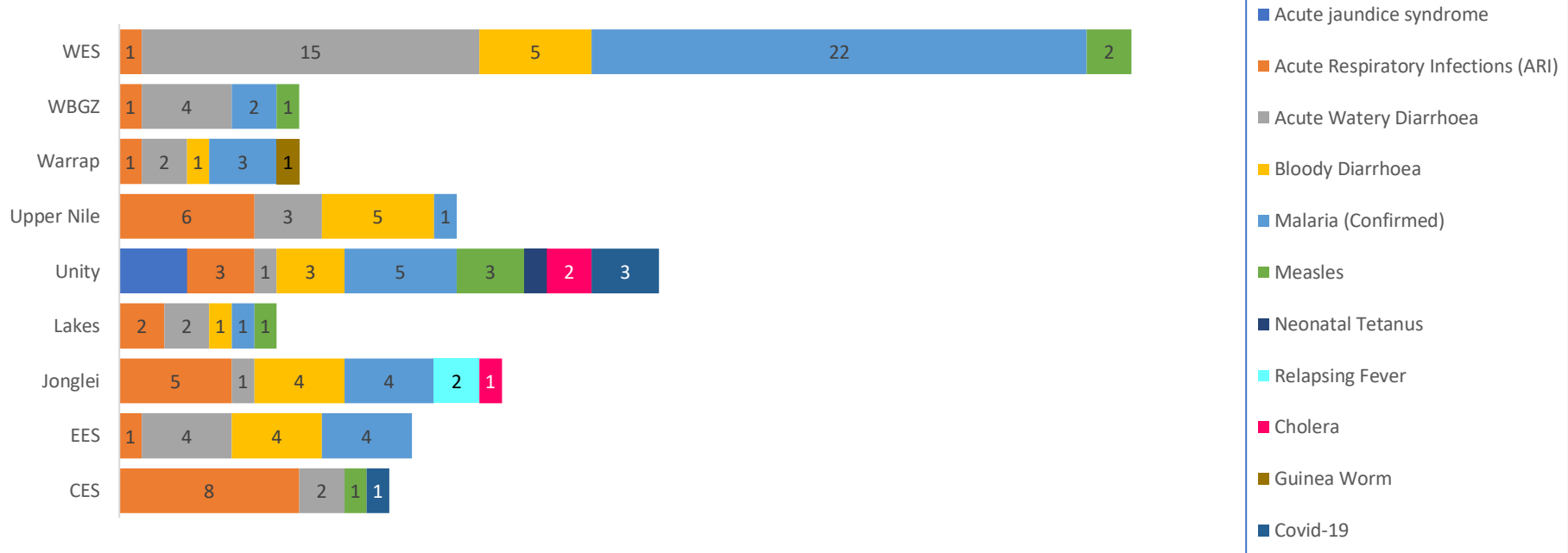
INDICATOR-BASED SURVEILLANCE



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



Alert by disease and States in week 42 of 2022 [a total of events-specific alerts generated by state



This week a total of 149 Alerts were triggered from the EWARS System:

- 3 AJS alerts: these were triggered from Mayendit PHCC, Rubkuay PHCC in Mayendit, Kaljak PHCC.
- 8 Measles alerts: these were triggered from El-Sabah Children Hospital, Ganyliel PHCC in Panyijiar, Raja Hospital, Yambio State Hospital, Magang PHCU in Yirol West, MSF-H Leer PHCC , MSF-H Bentiu IDP Hospital, Yangiri PHCC(2) in Ezo County
- 1 Guinea Worm alert: this was triggered from Alek PHCC in Gogrial West County
- 3 Cholera alerts: from IRC Sector 4 PHCC in Rubkona County, MSF-H Leer PHCC, Anyidi PHCC in Bor County, Wathmuok PHCU in Aweil South.
- 1 Neonatal Tetanus alert: this was triggered from Ngop PHCU in Mayom of Unity
- 2 Relapsing Fever alerts: these were triggered from Walgak PHCC and Yidit PHCU of Akobo County

SUDAN EBOLAVIRUS IN UGANDA AND READINESS IN SOUTH SUDAN

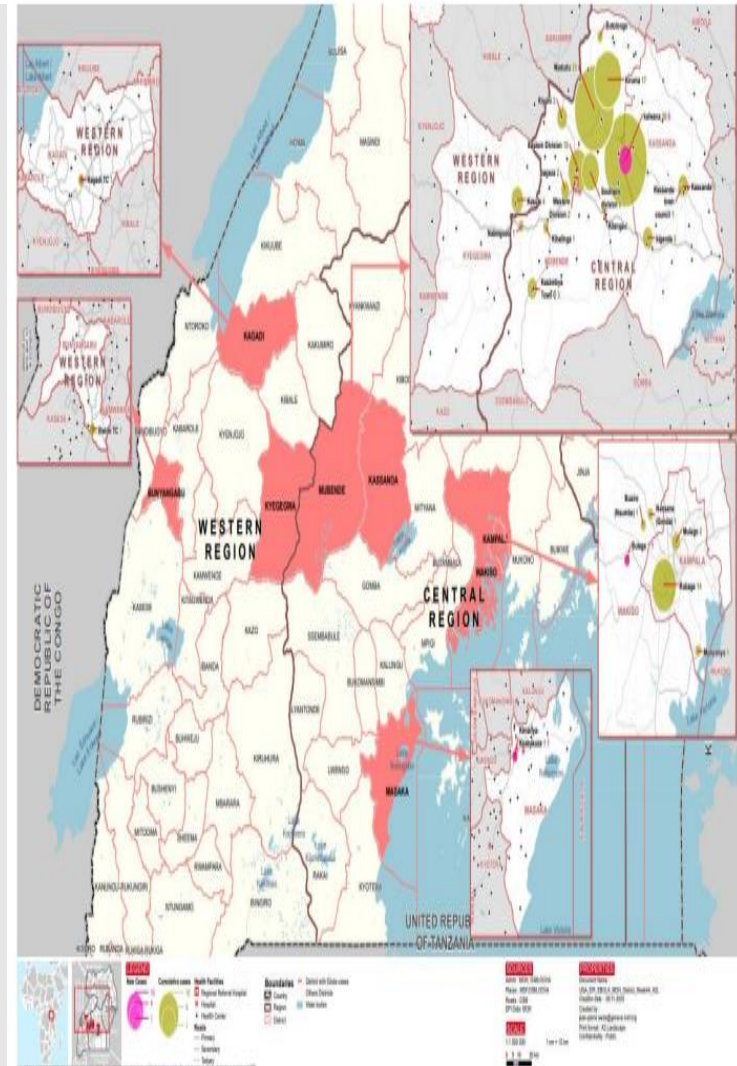


Alert management including detection; reporting; verification; risk assessment; & risk characterization

Sudan Ebolavirus Disease in Uganda as 11 November 2022

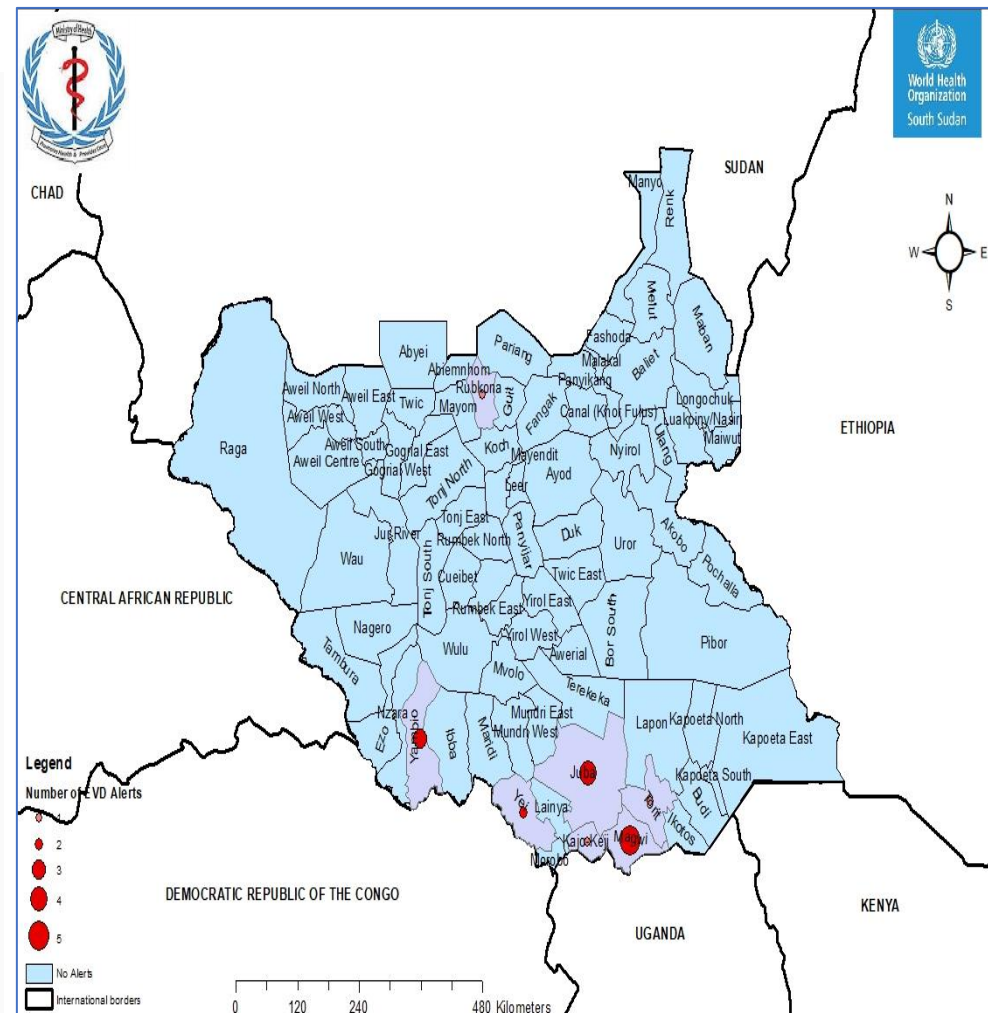


- On 20th September 2022, the Ministry of Health declared an outbreak of Sudan ebolavirus (SVD) after a case managed at Mubende Regional Referral Hospital (MRRH) in Mubende district was confirmed through testing at the Uganda Virus Research Institute (UVRI)
- November 11, 2022 marks 55 days of response to the Sudan EVD outbreak in Uganda, first case was confirmed on 19-September 2022.
- Cumulatively there are **137 confirmed EVD cases and 54 confirmed death giving a Case Fatality Ratio (CFR) of 54/137 (39%) and a Total recovery is 65 out of the total confirmed cases**
- A total of 8 districts were affected with most cases reported from Mubende, Kassanda and Kampala.
- As of 11th November One newly confirmed EVD case – 17yr old female from Kassanda district was registered
- One new recovery from Wakiso district.
- One newly confirmed death from Mubende district and One new recovery from Wakiso district.
- A total of 1,086 contacts are actively being followed-up in eight districts, the follow-up rate in the past 24 hours was 93%.



South Sudan's key highlights

- No EVD outbreak has been declared in South Sudan and countries neighboring Uganda
- Cumulatively, a total of 20 alerts have been reported and investigated from seven locations in the country since September 2022:
- Latest alert was reported on 08 November 2022 from Nimule
- Of the 20 alerts, 14 were discarded as they did not meet the case definition
- Number of alerts discarded
- Nimule (6), Juba (4), Yambio (3), Yei (2), Kajo-keji (3) Torit (1), Rubkona (2)
- Six alerts had samples collected and all 06 tested negative by PCR for EVD in both Sudan and Zaire strains



Geographical Distribution of EVD alerts detected and investigated as of 6th November 2022



Key actions taken by pillar in SSD

1. Coordination

- The IMS has been activated and the PHEOC is in preparedness/alert mode.
- Sub-national taskforces activated in high-risk areas (e.g., the County Taskforce in Nimule has been established and functional as of 27 September 2022.
- COVID-19 coordination structures leveraged for EVD preparedness and response.

2. Surveillance and laboratory

- Review of critical EVD tools (standard case definition, case investigation form, SOPs, etc.) has been finalized.
- RRTs have been deployed to high-risk locations and screening at the Nimule point of entry has been reactivated.
- Ongoing orientation for healthcare workers in high-risk areas on EVD case definition for early case detection and identification.
- 21 standby contact tracers were oriented in Juba
- There is an in-country testing capacity for Sudan Ebola Virus as well as the EVD Zaire strain though not adequate



Key actions taken by pillar in SSD



3. Risk communication, social mobilization, and community engagement

- IEC materials have been adapted, printed for distribution

4. Infection prevention and control

- IPC trainings conducted in Juba Teaching Hospital, Nimule and Yambio for clinical, laboratory, and surveillance teams.

5. Case management

- Assessment and gap analysis of three EVD isolation facilities conducted in Yambio, Yei, and Nimule.
- Isolation facilities in Juba, Nimule, and Yei have been set up by MoH with support from WHO
- Triage and screening have commenced at the Juba Teaching Hospital entrance
- Orientation of (22 Health care workers from 8 health facilities including private health facilities from the outskirts of Juba on EVD triaging, case detection, basic infection prevention and control



EVENT-BASED SURVEILLANCE

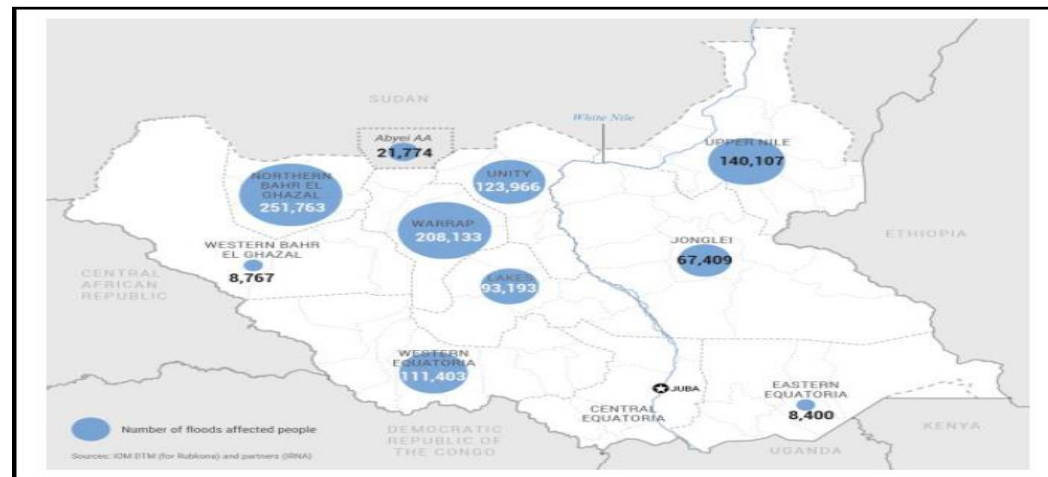
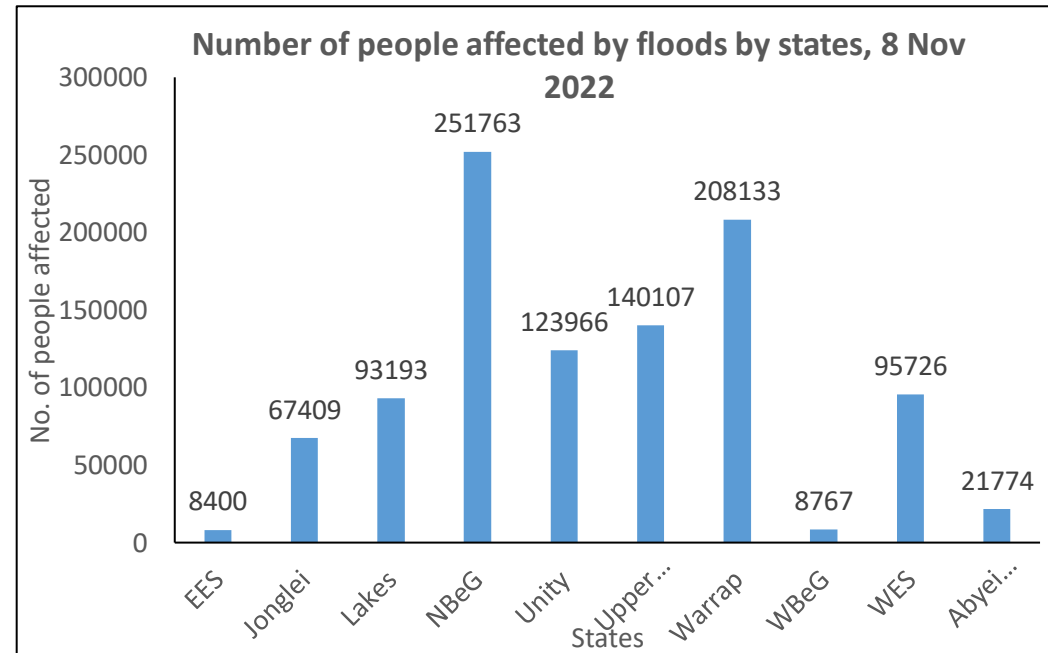


Alert management including detection; reporting; verification; risk assessment; & risk characterization

Updates on Floods situation in South Sudan as of November 8, 2022



- Flooding declared a national emergency by the Govt-10 Sept 2022
- More 1.01 million people affected in 36 counties and Abyei Administrative Area across 9 states
- Majority of people affected are in Northern Bahr el Ghazal, Warrap, Upper Nile and Unity
- Impact of floods
 - A total of 62 deaths related to the current flooding
 - Increased cases of snake bite cases (468 cases)
 - 45 HF's and 25 nutrition facilities affected (submerged, cut-off or structural damage sustained)
 - Increased caseload of malaria, Acute Watery Diarrhea, Acute Respiratory Infections
 - Depletion of essential drugs/supplies in health facilities & BHWs

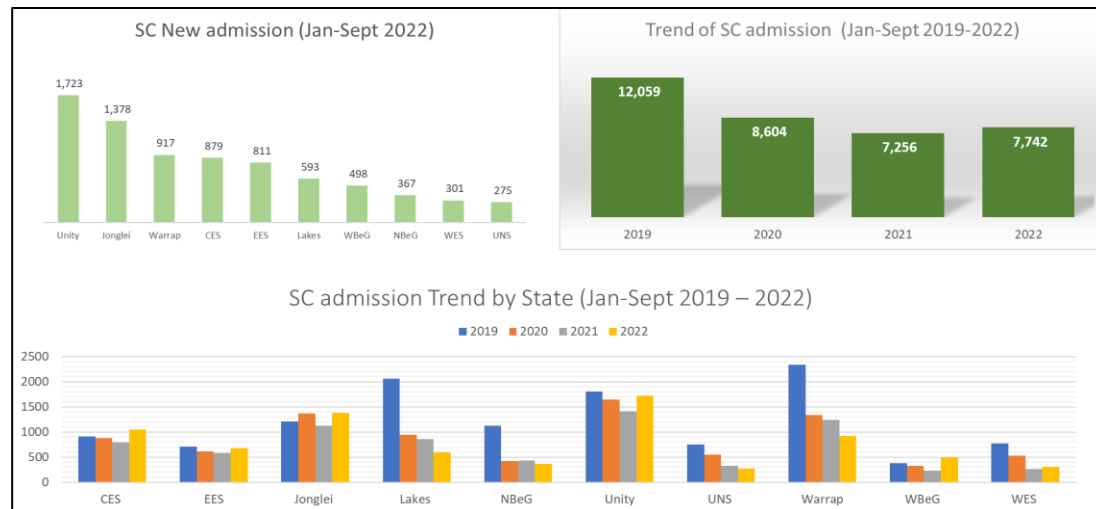
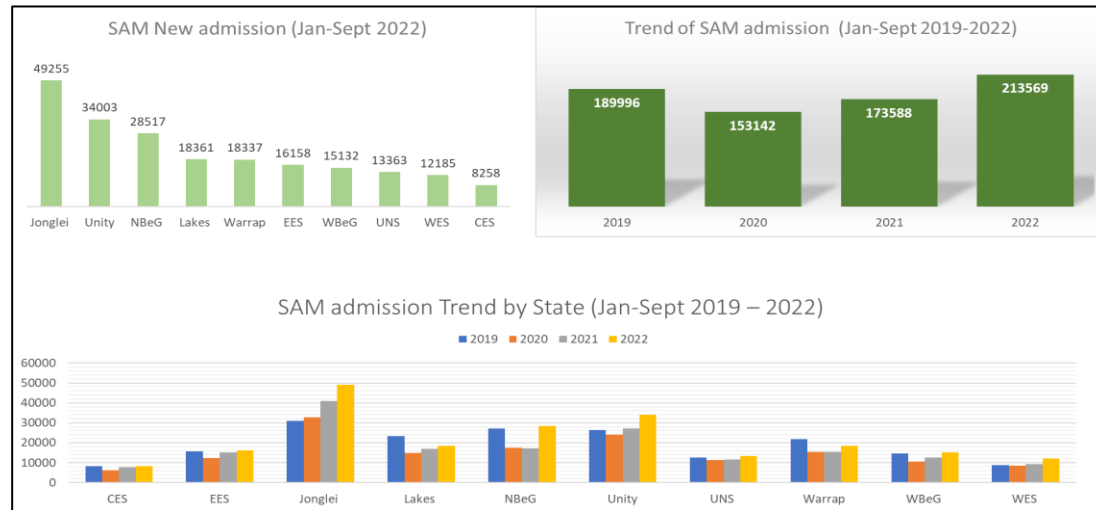


Food insecurity and Acute Malnutrition in South Sudan

Jan to July 2022

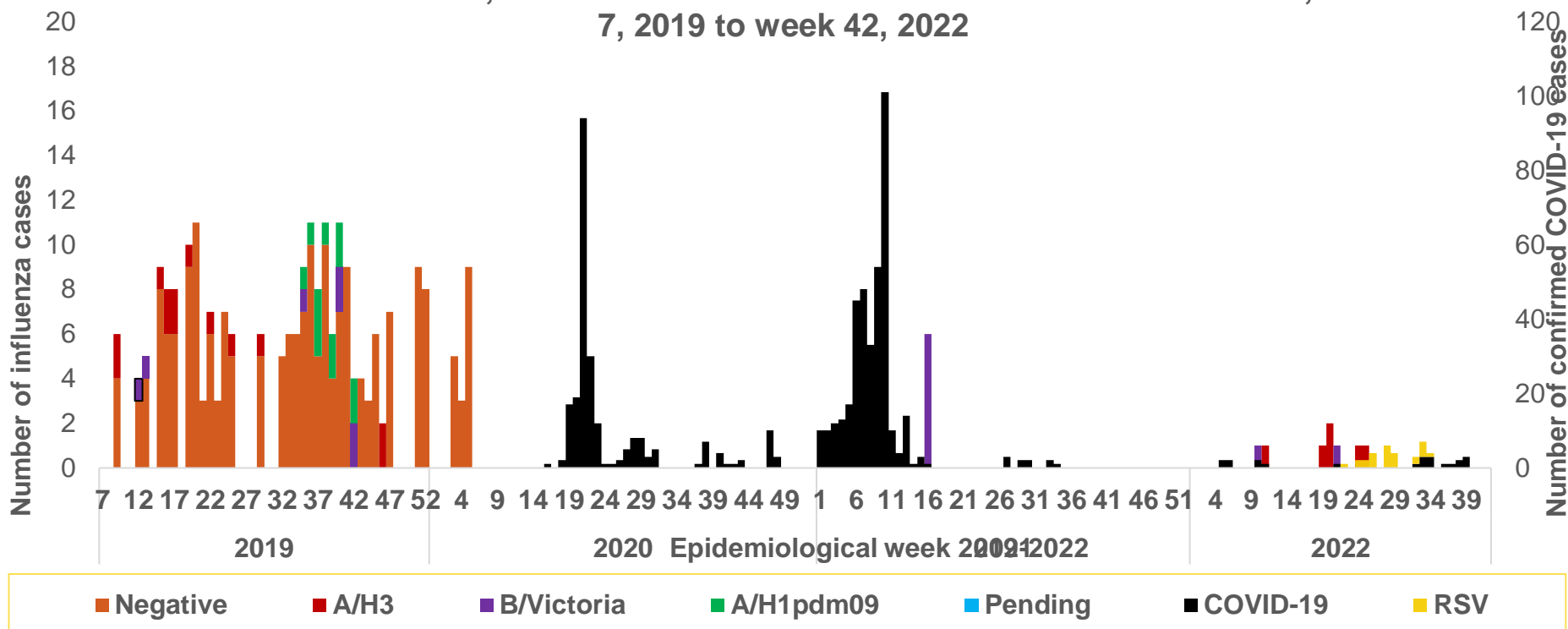


- **A total of 6.6 million** (53.6% of the population) people are currently facing IPC Phase 3 (Crisis),
- Out of which **2.22 Million** are in IPC Phase 4 (emergency) Acute food insecurity
- **A total of 61,000** people in IPC Phase 5 in Fangak, Canal/Pigi and Akobo and Pibor counties of Jonglei State and Greater Pibor Administrative A
- **1.4 M** U5 children are acutely malnourished of these 345,893 children severely malnourished





Confirmed Influenza ,COVID-19 and RSV cases from sentinel sites in Juba, week 7, 2019 to week 42, 2022



- 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 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-to 42,2022; a total of 479 ILI/SARI samples were collected,425 samples tested negative, and Cumulatively, 20 tested positive for covid-19,1 positive for Influenza B (Victoria), and 5 positive for influenza A(H3). 26 RSV was confirmed in **Week 42**

ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

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

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	IPC/W ASH
Ongoing epidemics								
Hepatitis E	Bentiu PoC	03/01/2019	17	3(0.82%)	Yes	yes	Yes	Yes
COVID-19	35 counties	05/4/2020	11	17,823 (0.77%)	yes	yes	yes	yes
Cholera	Bentiu	20/3/2022	05	337(0.32)	yes	yes	yes	yes
Measles	Aweil West	11/5/2022	4	65(0.030)	Yes	yes	Yes	NA
Measles	Aweil East	12/3/2022	8	60(0.013)	Yes	yes	Yes	NA
Measles	Aweil Center	24/4/2022	4	31(0.32)	Yes	yes	Yes	NA
Measles	Juba	19/7/2022	26	57(0.66)	yes	yes	yes	NA
Anthrax	Gogrial west	NR	3			Yes Partial in animals	yes	
measles	Malakal				yes	yes	yes	
Measles	Terekeka				yes	yes	yes	
Measles	Leer				yes	planned	yes	
Measles	Bentiu (Rubkona)				yes	planned	yes	
Measles	Bor South				yes	Not yet	yes	

Measles Cases in South Sudan 2021 and 2022

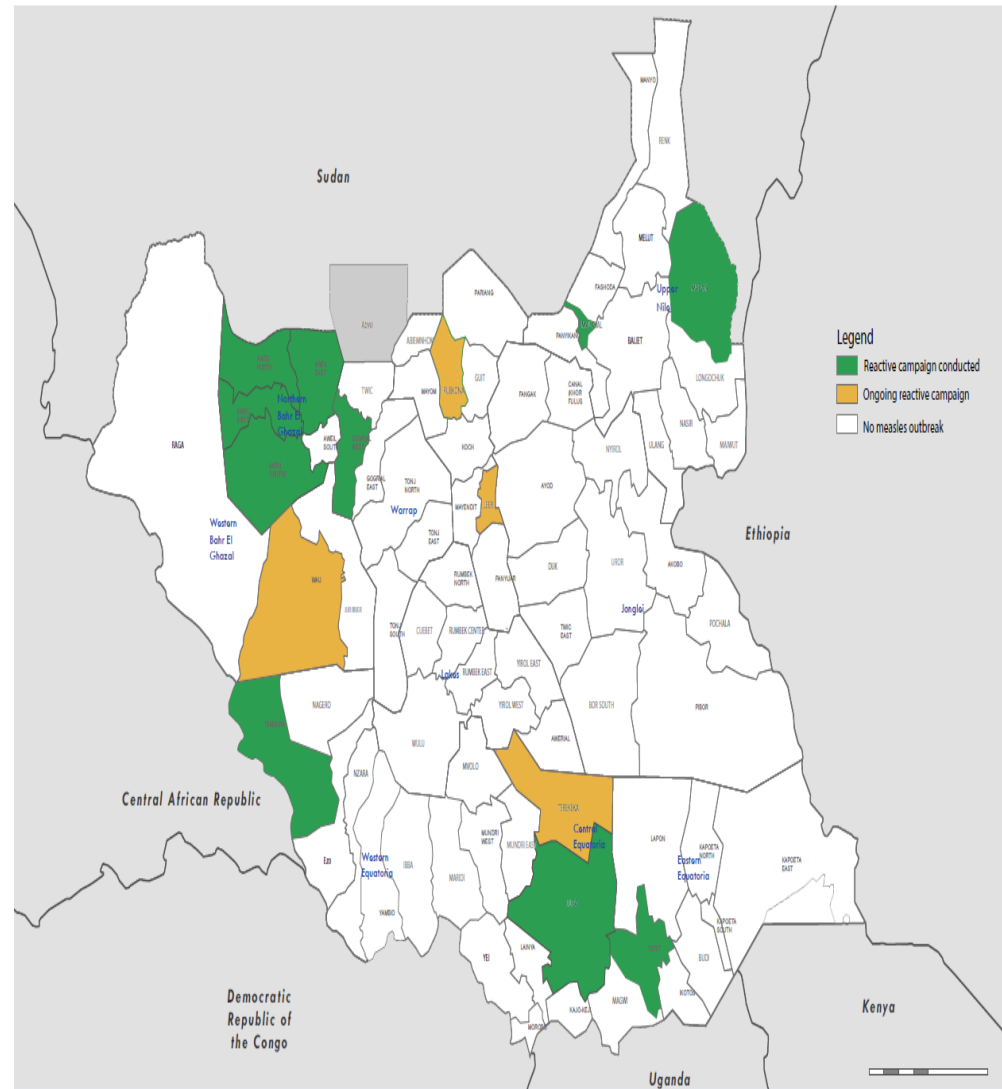
Descriptive Epidemiology

- A total of 928 cases, and two deaths (CFR, 0.3%) were reported from (19/80) counties since 2021 and 2022
- However, measles outbreaks were confirmed in 15 counties since the beginning of the year 2022
- Highest number of cases were reported from Juba (162) and Maban (161) counties
- Current active outbreaks in three counties-Juba, Malakal, and recently Terekeka
- Active cases of measles is still being reported in Northern Bahr el Ghazal despite the vaccination campaigns conducted in all counties.
- The surge in measles transmission is related to the accumulation of susceptible children due to low routine vaccination coverage in the country.

Public Health Response

- Measles reactive vaccination campaigns have been implemented in Maban, Torit, Tambura, Raja, Aweil East, Aweil West, Aweil Centre, Aweil North, Aweil South, and Juba (5 payams), Malakal and Terekeka.
- Plans are underway to conduct a vaccination campaign in Leer county and Bentiu Camp Rubkona County.
- Reactive vaccination campaigns have been conducted underway in Juba and Malakal
- Nationwide catchup campaign planned to take place in April 2023

South Sudan: Counties with Measles outbreak and reactive campaigns, November 2022

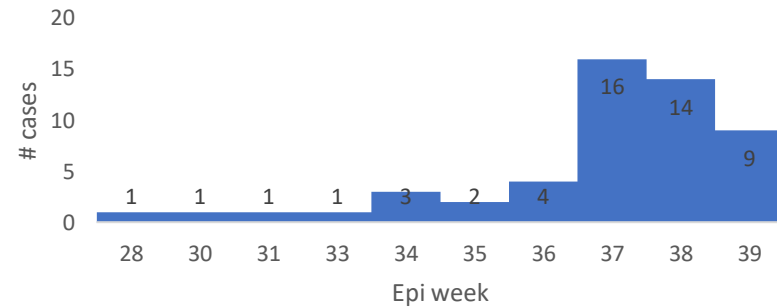


Measles cases reported from Malakal County of Upper Nile

Descriptive

- Total of 52 cases reported from Malakal between week 28 and week 39, 2022.
- Peak of cases reported in week 37 with
- Majority of the cases (94%) were reported in children less than 5 years of age
- (50%) males and (50%) females
- 41.9% (17 cases) of the cases were admitted for inpatient management; with no deaths reported so far.
- **Ongoing response**
 - Active case search and line listing of cases are ongoing, and cases have been referred to the health facilities.
 - Cases are being managed in different health facilities; this includes the provision of supportive management, vitamin A supplementation, and treatment of secondary infections
 - Reactive vaccination campaigns conducted in affected payams by, conducted by partners
 - Refresher training on measles surveillance and treatment is planned for state RRTs and frontline health workers
 - Efforts underway to strengthen routine immunization services

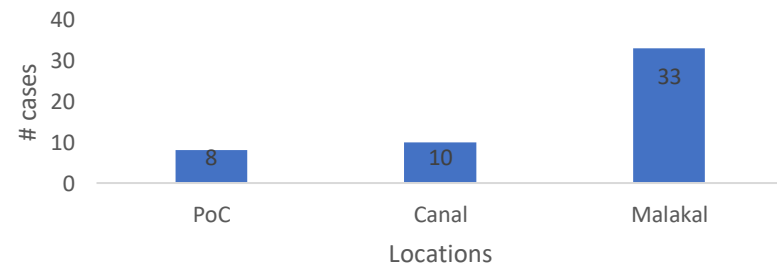
Epi Curve showing measles cases in Malakal county from week 28 to week 39, 2022.



Bar graph showing measles cases in Malakal county from week 28 to week 39, 2022.



Bar graph showing measles cases in Malakal county from week 28 to week 39, 2022.



Ongoing Measles Outbreak in Northern Bahr el Ghazal

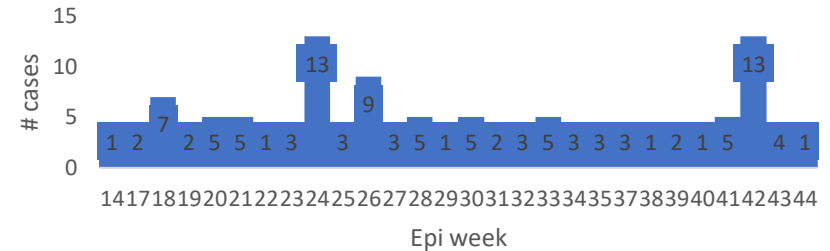
Descriptive

- Northern Bahr el Ghazal state continues to report suspected measles cases despite reactive campaigns conducted in the middle of the year
- Active cases being reported in all 5 counties of Northern Bahr el Ghazal with the majority of cases reported from Aweil East
- Majority of the cases are (90%) were reported from children less than 5 years of age.
- Majority of the cases are admitted for inpatient management; with no deaths reported so far.

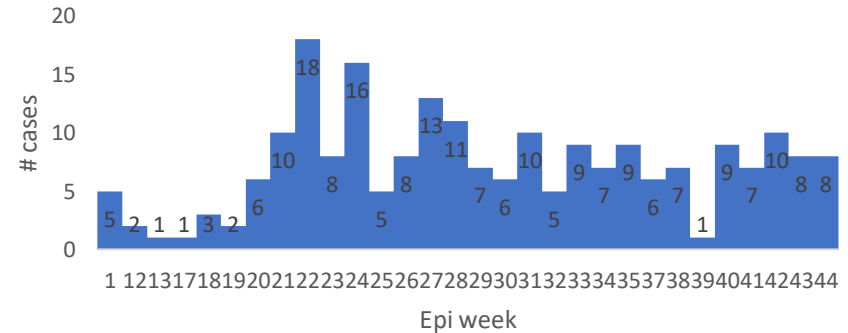
Ongoing response

- Active case search and line listing of cases are ongoing, and cases have been referred to the nearest health facilities.
- Cases are being managed in different health facilities; this includes the provision of supportive management, vitamin A supplementation, and treatment of secondary infections
- Reactive vaccination campaigns conducted previously in affected payams by
- Routine immunization services need to be strengthened

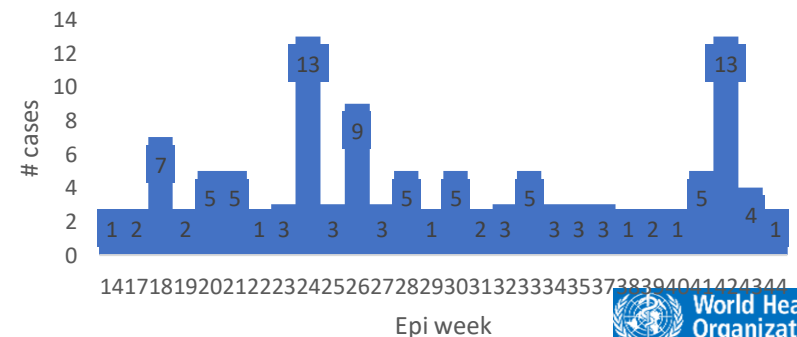
Epi curve for measles cases in Aweil Center from week 14 to week 44, 2022.



Epi curve for measles cases in Aweil East from week 1 to week 44, 2022.



Epi curve for measles cases in Aweil Center from week 14 to week 44, 2022.



Measles cases in Bentiu Camp, Rubkona County as of week 43

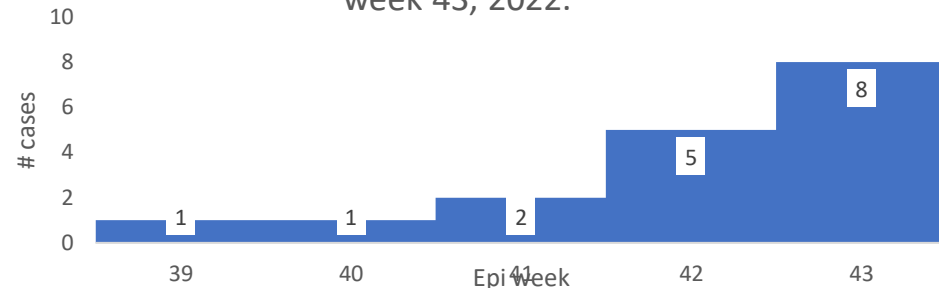
Descriptive EPI

- 17 cases of measles were reported from Bentiu camp, Rubkona county from week 39 to 43, 2022
- Majority of the cases, 8 out of 17 were reported from sector 3 within Bentiu camp
- Children age 0 to 4 years accounted for majority of the cases
- Majority of the cases are admitted for inpatient management; with no deaths reported so far.
- Of the 17 cases reported, 7/17 (58%) have indicated that they have received vaccination against measles and 10/17 (42%) reported no against the vaccination status

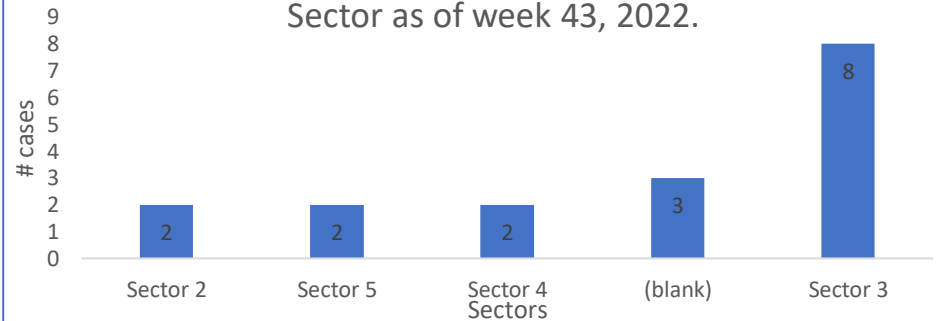
Ongoing response

- Active case search and line listing of cases are ongoing, and cases have been referred to the nearest health facilities within the camp.
- Cases are being managed in different health facilities; this includes the provision of supportive management, vitamin A supplementation, and treatment of secondary infections
- Reactive vaccination campaign is planned for by the state Ministry of Health and MSF
- Routine immunization services to be strengthened through RCCE and health promotion activities

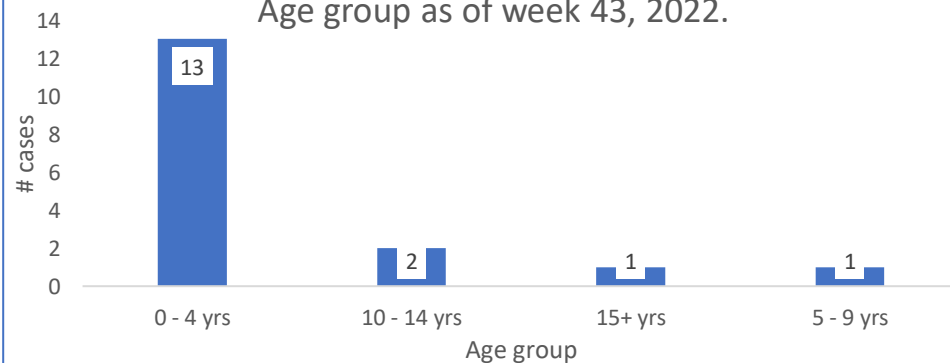
Suspected measles cases in Rubkona county as of week 43, 2022.



Suspected measles cases in Rubkona county by Sector as of week 43, 2022.



Suspected measles cases in Rubkona county by Age group as of week 43, 2022.



Confirmed Cholera Outbreak in Bentiu, Unity State and OCV updates

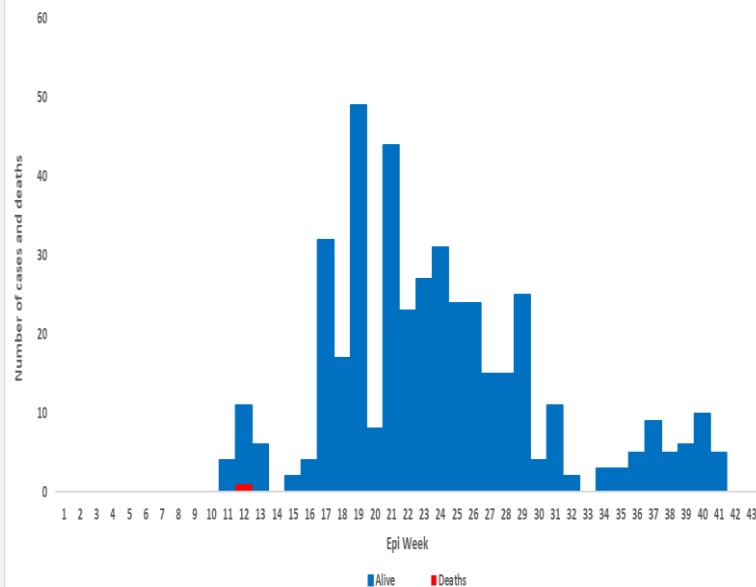
S/N	LOCATION	TARGET	POPULATION VACCINATED		COVERAGE	
			1st round	2nd Round	1st round	2nd Round
1	Rubkona Phase 1 (Category 1)	202,627	173,170 (24- 31 Jan 2022)	175,044 (14-20 Mar 2022)	85%	86%
2	Rubkona Phase 2 (category 1)	31,680	25,196 (12-18 May 2022)	32,075 (4-10 June 2022)	80%	101%
3	Leer	75,333	64,033 (April 2022)	35,375 (31 May 2022)	85%	47%
4	Yirol East	118,163	109,206 (2-9 August 2022)	111,509 (14-19 Sept 2022)	92%	94%
5	Awerial	94,149	84,184 (16 Aug 2022)	Planned	89%	TBD
6	Juba	633,335	400,584 (10-19 June 2022)	373771 (5 Sept 2022)	63%	59%
7	Malakal	63,476	32,624 (29 Oct -2 Nov 2022)	Planned	51%	TBD

- V. cholerae case confirmed on 14 Apr 2022 in Bentiu.
- **No new cases were reported since 41, Overall, 424 cases; 1 (CFR, .24%) death since the onset of outbreak**
 - Intra Action Review planned in Bentiu to review response; and address weaknesses

OCV Implementation

- 1,677,500 doses of OCV have been received
- 1,584,147 doses have been administered
 - Concept note on need for OCV the doses
 - And additional resources for flooded hotspot locations
- Round 2 in Malakal and Awerial counties are planned for;

Epidemiological Curve showing cases and death per week (Week 1-43, 2022)



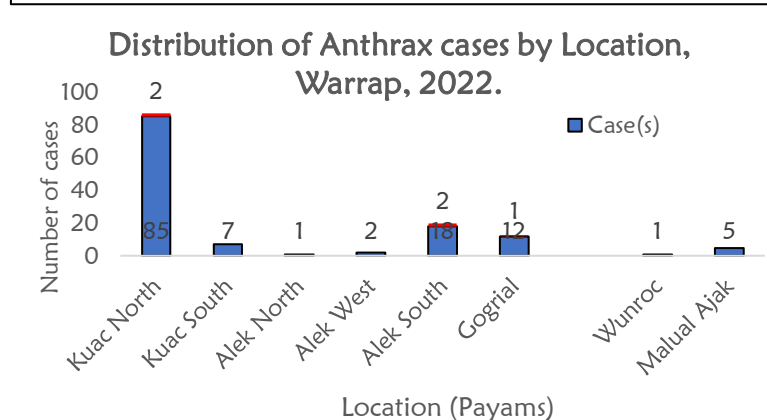
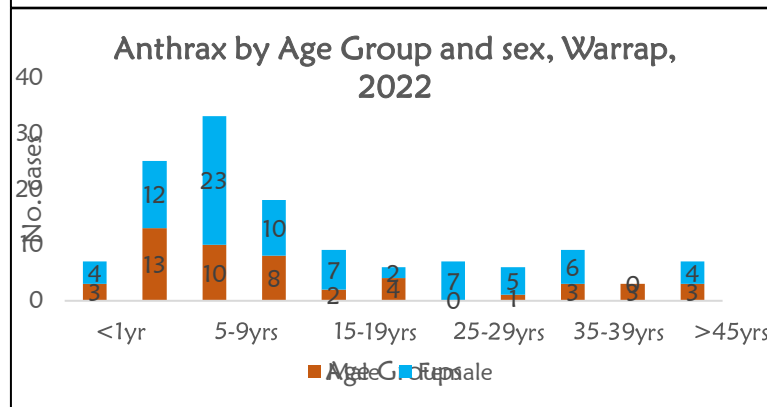
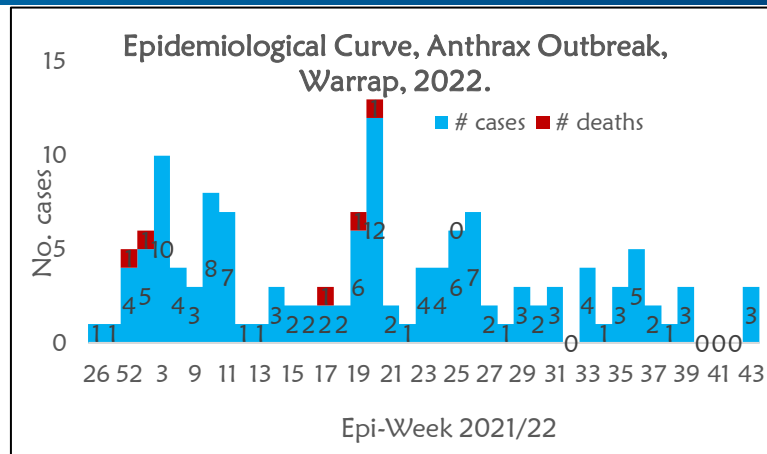
Confirmed Anthrax Cases in Gogrial West, Warrap State as of week 43



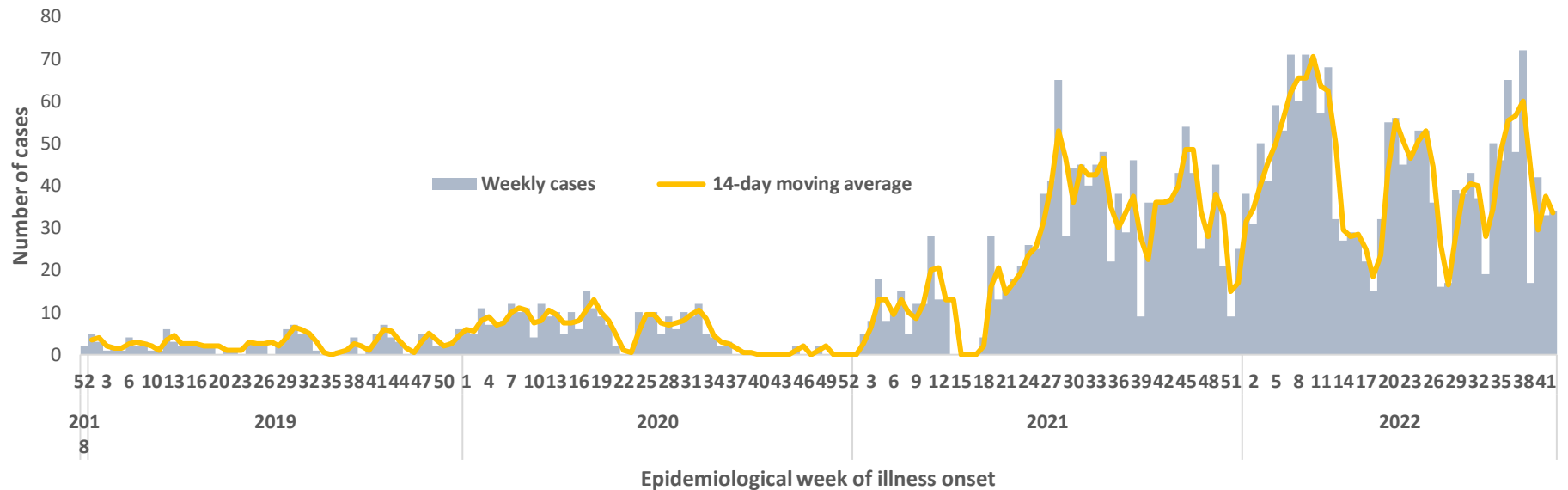
- Suspected anthrax cases were detected at the Kuajok hospital, and a retrospective review of the facility registers revealed over cases in the past two months.
- On 18th May 2022, a national team composed of MOH, MOAF, WHO, ICAP, and FAO visited the state to conduct an in-depth epidemiological investigation 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
- three new cases were reported in week 43, 2022 bringing the total number of cases line-listed to **131 cases and 5 deaths**, case fatality rate (**CFR 3.2%**).
- All cases are from one County of Gogrial West. **62.9%** of the cases are from Kuac North Payam. **62%** of the cases are among females and **38 %** among Males.
- Out of the 18 samples collected, 8 tested positive by PCR for bacillus anthracis.
- A total of 10 animal samples were collected by the animal health experts and 3 soil samples for further analysis.

Ongoing response

- partial vaccination campaign in the three (3) counties of Gogrial East and West in addition to Tonj North where 180,000 ruminants were targeted (2nd – 18th August 2022) ; coverage was at a low 42% and more remains to be done given a balance of Anthrax vaccines.
- Active case search and line listing of cases in the affected county and the surrounding and Case management is underway at Kuajok hospital.
- Risk communications and community engagements activities are ongoing through local radios to reduce the risk of exposure
- Ongoing multisectoral coordination meetings at state and national levels.



Hepatitis E Virus [HEV] cases in Bentiu IDP camp, wk 1, 2019 to wk 42, 2022



Descriptive epidemiology

- The persistent transmission of HEV in the Bentiu IDP camp continues with **3,509** cases since the beginning of 2019
- **34 AJS new** cases with (zero deaths) were reported in week 39, bringing the cumulative cases to 3,548 (26 deaths) since the onset of the outbreak in 2018.
- **HEV transmission has reduced from a peak of 60 cases every fortnight by week 8, 2021 to 34 cases every fortnight by week 42, 2022.**
- All the cases have been managed as outpatient cases except for seven cases that were admitted
- No death was reported in 2022
- 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

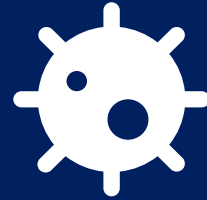
1. Multisectoral joint cholera and HEV response coordination at the state level; biweekly coordination forum comprising health, WASH, and other clusters
2. Surveillance enhanced through the provision of refresher training, distribution of case definition, and other reporting tools
3. Weekly analytics 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); the third round is expected to be conducted in October 2022
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. Upcoming flooding season will likely worsen the WASH situation



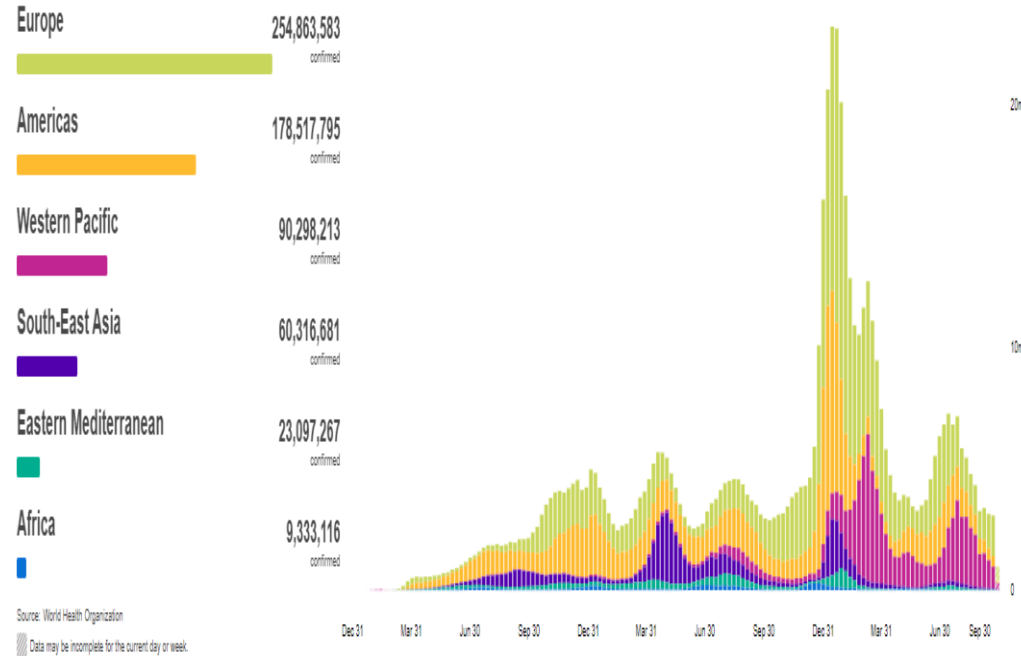
COVID-19 UPDATES





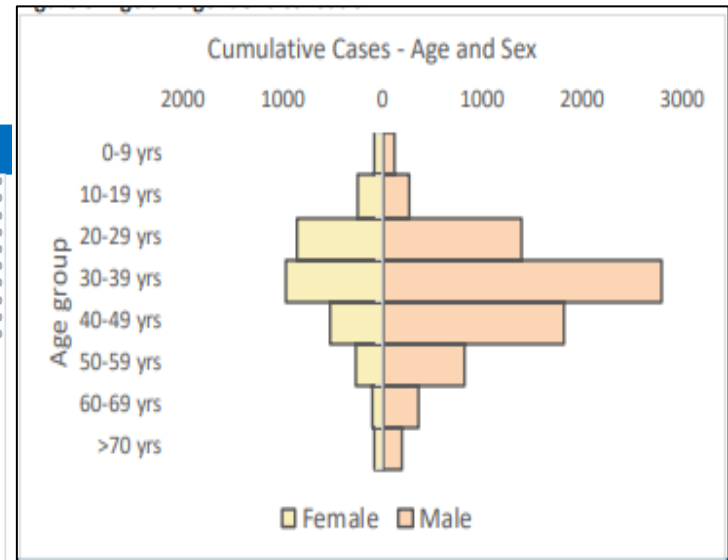
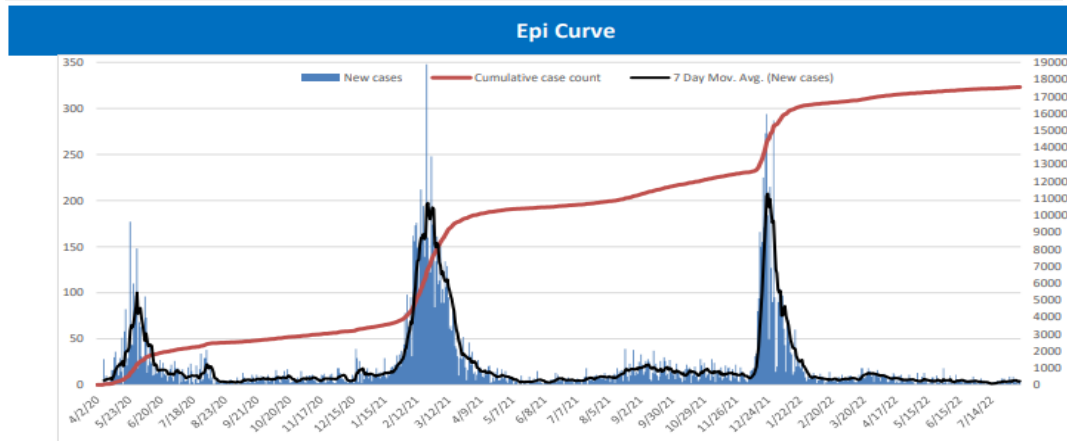
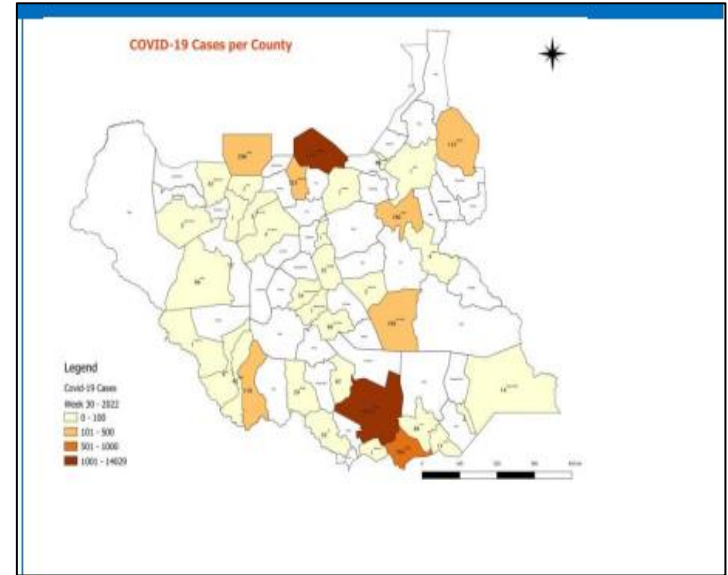
Situation update as of 11, Nov 2022

- Globally, as 11 November 2022, there have been 630,832,131 confirmed cases of COVID-19, including 6,584,104 deaths, reported to WHO. As of 8 November 2022, a total of 12,885,748,541 vaccine doses have been administered.**
- In Africa, as of 11 November 2022 there have been 9,372,324 confirmed cases of COVID-19, including 174,803 deaths reported to the WHO**



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

- **18,054** confirmed cases with **138 deaths**, **17,700** recoveries, and **216 active** cases 0.76% case fatality rate (CFR) 293 healthcare workers were confirmed as cases –
- **35 new** confirmed cases during the week with pre-travel screening (**74.3%**) and alerts (**25.7%**) accounting for all the cases –
- **572** imported cases (0 new cases this week) mostly from South Sudanese returnees (**391**), Uganda (55), and Kenya (22) –
- Seven-day moving averages for case count and positivity rate were **5.0 cases and 1.2%** at the end of Week 32 compared to **3.4 cases and 0.7%** at the end of Week 36 respectively
- **2,395** in-bound travelers tested at JIA to date (9 tested positive, a yield of 0.4%)





**OVERALL
CONCLUSIONS AND
RECOMMENDATIONS**

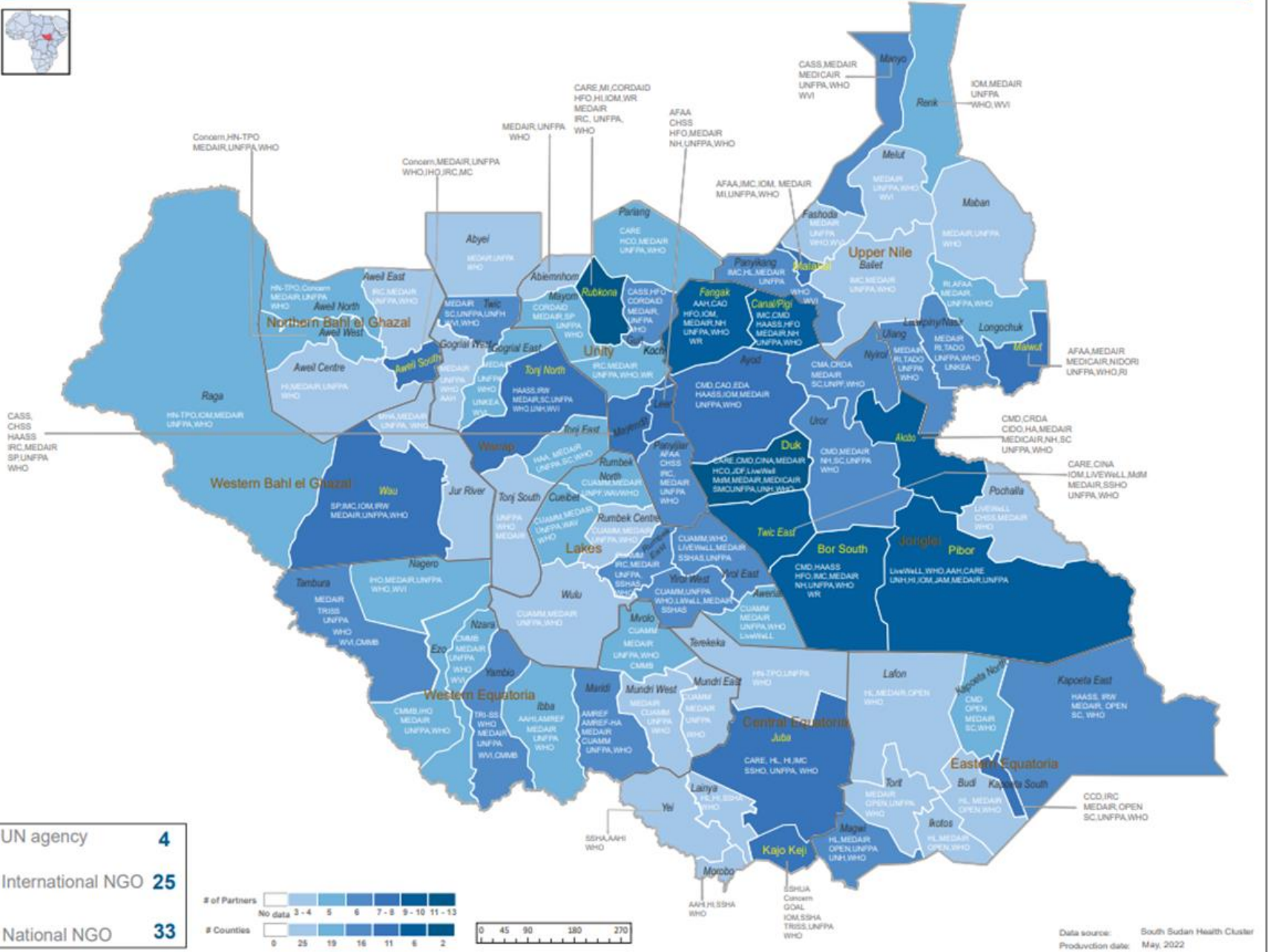
Conclusions

- The overall performance of IDSR and EWARNS reporting sites in week 42, 2022 is above 80% for both IDSR sites and EWARNS sites
- Of 142 alerts were reported in week 42, 2022; **29.5%** Malaria (42), AWD **23.9%**(34), **19.7%ARI (28)**
- Confirmed outbreak of Sudan Ebolavirus in Uganda with eight districts affected. As of 11th November, 137 confirmed cases and 54 confirmed deaths giving a CFR of 39%.
- A total of 20 suspected Ebola Virus Disease (EVD) cases were reported from Nimule, Yei, Yambio, Kajo-keji, Juba, and Rubkona with samples collected from 06 samples collected and all tested negative for EVD.
- In other emergencies, floods have affected over **1.1 million** people in **36** counties, and high cases of Acute Malnutrition in South Sudan due to **food insecurity**.
- Confirmed measles outbreaks in 15 counties since the beginning of the year 2022 with the latest counties affected including Leer, Rubkona (Bentiu camp)
- Hepatitis E virus cases continue to be reported in Bentiu IDP Camp with 34 cases reported in week 42 giving a cumulative of 3,509 cases and 26 deaths (CFR 0.76%) reported since week 1, 2019

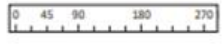
Recommendations

- Partners to continue supporting County Health Departments (CHD) & State Ministries of Health on timely IDSR/EWARN reporting
- Health facilities to conduct an initial investigation on suspected cases of epidemic-prone diseases and collect samples
- Strengthen EVD surveillance, Infection Prevention and Control (IPC) and Risk communication and community engagement (RCCE) in high-risk areas of Juba, Yei, Yambio, Kaya, Nimule and Kako-keji
- Conduct reactive measles vaccination campaign in counties with confirmed outbreaks and advocate for enhanced routine immunization through PIRI
- Support the multicluster HEV response strategy in the Bentiu IDP camp and the ongoing cholera outbreak

South Sudan Health Cluster HRP Partners 2022



UN agency	4
International NGO	25
National NGO	33



Data source: South Sudan Health Cluster
Production date: May, 2022



IDSR timeliness & completeness performance at county level for week 42 and 41 of 2021 (2)



STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 42	Timeliness Percentage of WK 42	No. of HF's Reported regardless of time in WK 42	Completeness Percentage of WK 42	No. of HF's Reported regardless of time in WK 41	Completeness Percentage of WK 41	STATE	COUNTY	Number of reporting sites	No. of HF's Reported on Time in WK 42	Timeliness Percentage of WK 42	No. of HF's Reported regardless of time in WK 42	Completeness Percentage of WK 42	No. of HF's Reported regardless of time in WK 41	Completeness Percentage of WK 41
Jonglei	Nyirrol	10	10	100%	10	100%	10	100%	Warrap	Tonj East	12	12	100%	12	100%	12	100%
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	4	4	100%	4	100%	4	100%
Jonglei	Twic East	9	9	100%	9	100%	9	100%	Upper Nile	Longechuk	9	9	100%	9	100%	9	100%
Jonglei	Duk	13	13	100%	13	100%	13	100%	Warrap	Tonj North	15	14	93%	15	100%	15	100%
EES	Magwi	17	17	100%	17	100%	17	100%	Warrap	Twic	25	23	92%	23	92%	17	68%
EES	Budi	17	17	100%	17	100%	15	88%	Warrap	Gogrial West	31	27	87%	28	90%	30	97%
EES	Torit	11	11	100%	11	100%	11	100%	Upper Nile	Maban	13	11	85%	13	100%	13	100%
EES	Kapoeta South	9	9	100%	9	100%	9	100%	Upper Nile	Akoka	5	4	80%	5	100%	4	80%
EES	Kapoeta East	7	7	100%	7	100%	5	71%	Upper Nile	Fashoda	11	8	73%	8	73%	8	73%
EES	Kapoeta North	10	10	100%	10	100%	10	100%	Upper Nile	Makal	7	5	71%	5	71%	4	57%
Jonglei	Ayod	13	12	92%	12	92%	13	100%	Upper Nile	Manyo	11	7	64%	10	91%	10	91%
Jonglei	Fangak	18	16	89%	16	89%	16	89%	Warrap	Gogrial East	15	9	60%	9	60%	8	53%
Jonglei	Pibor	7	6	86%	6	86%	6	86%	Warrap	Abyei	14	8	57%	8	57%	5	36%
EES	Lopa Lafon	15	12	80%	15	100%	15	100%	Upper Nile	Panyikang	3	1	33%	1	33%	2	67%
EES	Ikotos	19	15	79%	16	84%	18	95%	Upper Nile	Ulang	10	3	30%	6	60%	10	100%
EES									Upper Nile	Renk	6	0	0%	6	100%	6	100%
Jonglei	Canal Pigi	10	5	50%	5	50%	6	60%	Upper Nile	Maiwut	4	0	0%	2	50%	3	75%
Jonglei	Akobo	15	6	40%	10	67%	10	67%	Upper Nile	Luakpiny Nasir	9	0	0%	3	33%	8	89%
Jonglei	Uror	6	0	0%	1	17%	1	17%	Upper Nile	Melut	6	0	0%	0	0%	0	0%

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-2022>

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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>

