

Highlight

• Ethiopia ongoing cholera outbreak in **23 woredas** in Oromia (19) & Somali (4) since august 27, 2022. In Oromia, Affected woredas are Harena Buluk, Berbere, Gura Damole, Meda wolabo, Goro/Bale Zone, Girja, Wadera, Goro Dola, Negele Town , Liben & Gumi Ildallo (new affected) /Guji zone, Nensebo/West Arsi), Dawa Kachen Ginir, Ginir town, Raitu & Lege Hida (no more case beyond 1 case)/East Bale, Moyale /Borona. In Somali regions, affected woredas are Kersadula, Guradamole/SML, Dolo Ado in Liban & Moyale /Dawa zone. All woredas are neighboring woreda each other. 196 kebeles are cholera outbreak affected in all affected woredas. The outbreak is controlled in some woredas in both region, but they are at high risk due to being adjacent. The Index case was from Harana Buluk, August 27, 2022 & the first outbreak was confirmed (4 from 5 were culture positive) on Sep 9, 2022. Cholera outbreak is also reported from IDP (191 reported) & no new case from IDP.

• A Total of 2573 cases (2255 Oromia region & 318 Somali region) with 56 total death.

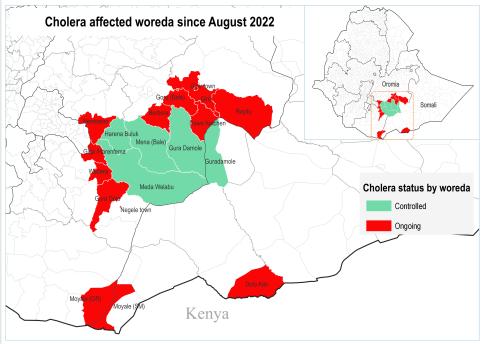
- 83 new cholera cases (Moyale/SML=7, Dolo Ado=3, Negele town=10, Goro Dola=3, Liban=20, Negele town=10, Wadera=40). TWwo new death Wadera& Liben/Oromia. No new case from other affected woredas in both region. Cumulative AR is 75.8/100,000 ARP) & cumulative CFR of 2.18%. Among all deaths, 39 were from Oromia & 17 were from Somali (13 deaths were from Guradamole/SML). Among all death, 52 cholera died cholera patients were not vaccinated by OCV.
 Current admitted cholera patients = 24
- Totally 24 CTCs have been established in Oromia (20) & Somali (4). CTC in Berebere =3, Harana Buluk =2, Dolo Mena =1, Gura Damole/ORM=1, Girji/ORM=1, Goro=1, Nensebo=1(Not fulfil the standard), Ginir=1, Ginir town=1, Dawa Kachen=1, Goro Dola=1, Kersadula=2, & Guradamole/SML=2 and Dolo Ado=1, Wadera=1, Raitu=1, Moyale/ORM=1, Moyale/SML=1, Negele town=1, Gumi Idalo=1].
- Red Cross Ethiopia in collaboration to WHO and local gov provide training for 120 cholera outbreak health volunteers on March 21, 2023 and these trained volunteers started cholera outbreak response on 9 prioritized kebeles in Goro/Bale zone/Oromia.
- Current water supply coverage of cholera outbreak affected woredas in Oromia and Somali regions is low. Cumulative 124 water samples are tested by EPHI/UNICEF. Six EMWAT kits were installed on prioritized cholera affected woredas (WaSH cluster).
- With limited OCV dose, Ethiopia cascaded campaign on prioritized kebeles having woredas having highest case load with limited WaSH in Oromia & Somali regions. ICG approved new OCV dose 1,910,416 and campaign micro-plan is under preparation..
- Cholera outbreak affected woredas, zones, and regions are under strong follow up with initiation of active case searching, sending alert letters, distributing daily cholera and weekly bacterial disease SITREPs.

• Mandatory zero report is being enforced at all kebele in cholera outbreak affected and their adjacent woredas

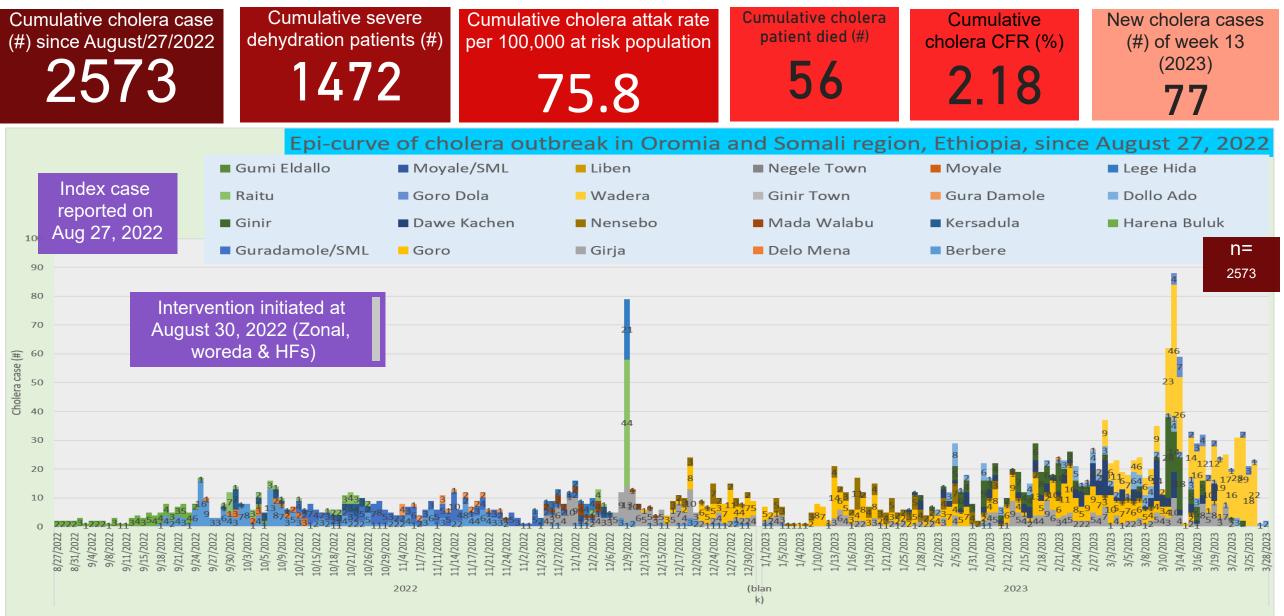
Epi-week

12 2023

- National cholera outbreak RRT is deployed in both regions. National partners and their field offices deployed. Regional/zonal/woreda RRT is deployed in both regions of cholera affected woredas and drought affected zones. One more national RRT is deployment will be deployed at Moyale in both Oromia and Somali regions on March 27-29, 2023.
- UNICEF supported 12 CTC & WaSH for Oromia on March 13/14, 2023. WHO & UNICEF prepositioned logistics to Moyale in both regions. EPHI (collaboration with EPSA) delivered cholera case management logistics for cholera affected woredas, East Bale, Oromia region following their request to fill critical shortage and transported on March 11, 2023 to Bale & East Bale zones
- Note: Critical shortage of IV fluid (RL) for Moyale/Oromia & Moyale/Somali









			Epide	miol	ogy of c	holera	case	with its ou	tbreak sta	tus, Oron	nia and Somal	li regions,	Ethiopia,	since	Aug	ust 27, 2	.023		
Reagion	Zone	Woreda	Popu (#)	Chol era case	Death by Cholera #	cAR/10 00 00 ARP	cCFR (%)	Date of onest	Last date of report	This date	Outbreak duration (Green days<28)	Days (#) reporeting zero case	Outbreak status	New case (#)	New deat h (#)	Wk13 2023 case #	Wk13 2023 death #	Wk13 2023 AR/100,000 ARP	Wk13 2023 CFR (%)
Oromia	Bale	Berbere	129115	247	5	191.3	2	9/18/2022	2/10/2023	3/30/2023	145	48	Ongoing	0	0	0	0	0.0	0.00
Oromia	Bale	Delo Mena	129276	22	2	17.0	9	9/26/2022	10/14/2022	3/30/2023	18	167	Controlled	0	0	0	0	0.0	0.00
Oromia	Bale	Goro	116031	408	4	351.6	1	11/24/2022	3/20/2023	3/30/2023	116	10	Ongoing	0	0	0	0	0.0	0.00
Oromia	Bale	Gura Damole	41090	23	0	56.0	0	12/13/2022	3/12/2023	3/30/2023	89	18	Ongoing	0	0	0	0	0.0	0.00
Oromia	Bale	Harena Buluk	116031	71	1	61.2	1	11/4/2022	11/22/2022	3/30/2023	18	128	Controlled	0	0	0	0	0.0	0.00
Oromia	Bale	Mada Walabu	137987	27	0	19.6	0	8/27/2022	10/6/2022	3/30/2023	40	175	Controlled	0	0	0	0	0.0	0.00
Oromia	Borena	Moyale	311469	75	2	24.1	3	2/28/2023	3/25/2023	3/30/2023	25	30	Ongoing	0	0	9	0	2.9	0.00
Oromia	East Bale	Dawe Kachen	43568	145	4	332.8	3	1/26/2023	3/19/2023	3/30/2023	52	11	Ongoing	0	0	0	0	0.0	0.00
Oromia	East Bale	Ginir	172959	185	8	107.0	4	1/28/2023	3/24/2023	3/30/2023	55	6	Ongoing	0	0	0	0	0.0	0.00
Oromia	East Bale	Ginir Town	55379	8	0	14.4	0	2/26/2023	3/22/2023	3/30/2023	24	8	Ongoing	0	0	0	0	0.0	0.00
Oromia	East Bale	Lege Hida	83904	1	0	1.2	0	3/12/2023	3/13/2023	3/30/2023	1	17	Ongoing	0	0	0	0	0.0	0.00
Oromia	East Bale	Raitu	49943	36	0	72.1	0	3/13/2023	3/18/2023	3/30/2023	5	12	Ongoing	0	0	0	0	0.0	0.00
Oromia	Guji	Girja	70822	378	5	533.7	1	11/25/2022	3/16/2023	3/30/2023	111	14	Ongoing	0	0	0	0	0.0	0.00
Oromia	Guji	Goro Dola	79720	32	0	40.1	0	3/12/2023	3/26/2023	3/30/2023	14	4	Ongoing	3	0	1	0	1.3	0.00
Oromia	Guji	Gumi Eldallo	17829	1	0	5.6	0	3/26/2023	3/27/2023	3/30/2023	88	15	Ongoing	0	0	1	0	5.6	0.00
Oromia	Guji	Liben	1000307	35	1	3.5	3	3/19/2023	3/27/2023	3/30/2023	8	3	Ongoing	20	1	24	1	2.4	0.00
Oromia	Guji	Negele Town	60814	35	0	57.6	0	3/19/2023	3/27/2023	3/30/2023	8	3	Ongoing	10	0	10	0	16.4	0.00
Oromia	Guji	Wadera	68592	380	6	554.0	2	3/1/2023	3/27/2023	3/30/2023	26	3	Ongoing	40	1	22	0	32.1	0.00
Oromia	West Arsi	Nensebo	197753	146	1	73.8	1	12/17/2022	3/15/2023	3/30/2023	52	11	Ongoing	0	0	0	0	0.0	0.00
Somali	Liban	Dollo Ado	123318	96	2	77.8	2	2/2/2023	3/28/2023	3/30/2023	54	2	Ongoing	3	0	3	0	2.4	0.00
Somali	Liban	Guradamole/SML	56815	155	13	272.8	8	10/12/2022	12/6/2022	3/30/2023	55	114	Controlled	0	0	0	0	0.0	0.00
Somali	Liban	Kersadula	62000	44	2	71.0	5	9/29/2022	12/7/2022	3/30/2023	69	113	Controlled	0	0	0	0	0.0	0.00
Somali	Liban	Moyale/SML	271709	23	0	8.5	0	3/20/2023	3/27/2023	3/30/2023	7	3	Ongoing	7	0	7	0	2.6	0.00
Total	Total	Total	3396431	2573	56	75.8	2							83	2	77	1	2.3	1.30

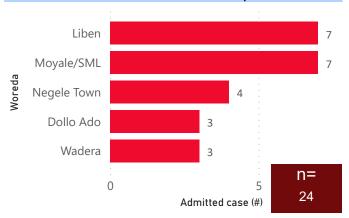
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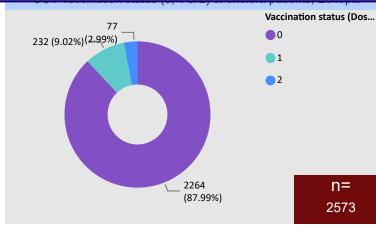
• Outbreak is spreading to adjacent district

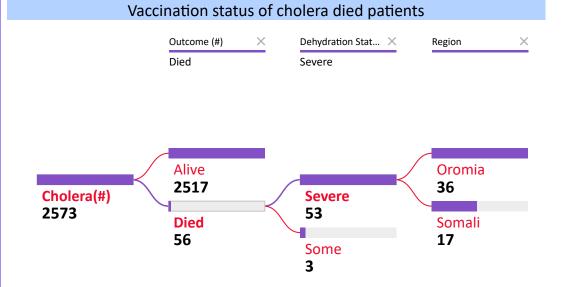


	Dehydration (DHN) status of cholera patinets													
Region	Zone	Woreda	Case (#)	Severe DHN (%)	Some DHN (%)	No DHN (%)								
Oromia	Bale	Berbere	247	53.44	29.55	17.00								
Oromia	Bale	Delo Mena	22	63.64	9.09	27.27								
Oromia	Bale	Goro	408	71.81	21.08	7.11								
Oromia	Bale	Gura Damole	23	52.17	13.04	34.78								
Oromia	Bale	Harena Buluk	71	73.24	14.08	12.68								
Oromia	Bale	Mada Walabu	27	51.85	37.04	11.11								
Oromia	Borena	Moyale	75	70.67	28.00	1.33								
Oromia	East Bale	Dawe Kachen	145	61.38	38.62	0.00								
Oromia	East Bale	Ginir	185	70.27	29.73	0.00								
Oromia	East Bale	Ginir Town	8	62.50	37.50	0.00								
Oromia	East Bale	Lege Hida	1	0.00	100.00	0.00								
Oromia	East Bale	Raitu	36	50.00	38.89	11.11								
Oromia	Guji	Girja	378	56.08	29.10	14.81								
Oromia	Guji	Goro Dola	32	62.50	15.63	21.88								
Oromia	Guji	Gumi Eldallo	1	100.00	0.00	0.00								
Oromia	Guji	Liben	35	71.43	47.00	0.00								
Oromia	Guji	Negele Town	35	82.86	0.00	0.00								
Oromia	Guji	Wadera	380	51.58	15.53	32.89								
Oromia	West Arsi	Nensebo	146	30.82	36.99	32.19								
Somali	Liban	Dollo Ado	96	41.67	55.21	3.13								
Somali	Liban	Guradamole/SML	155	46.45	45.16	8.39								
Somali	Liban	Kersadula	44	27.27	59.09	13.64								
Somali	Liban	Moyale/SML	23	34.78	65.22	0.00								
Total	Total	Total	2573	57.21	28.84	13.95								

Admission status of cholera patients

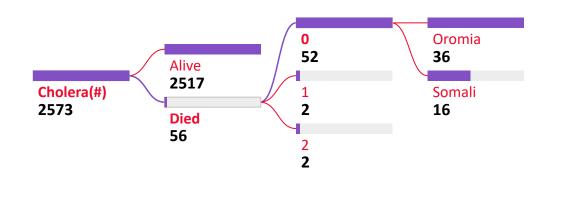




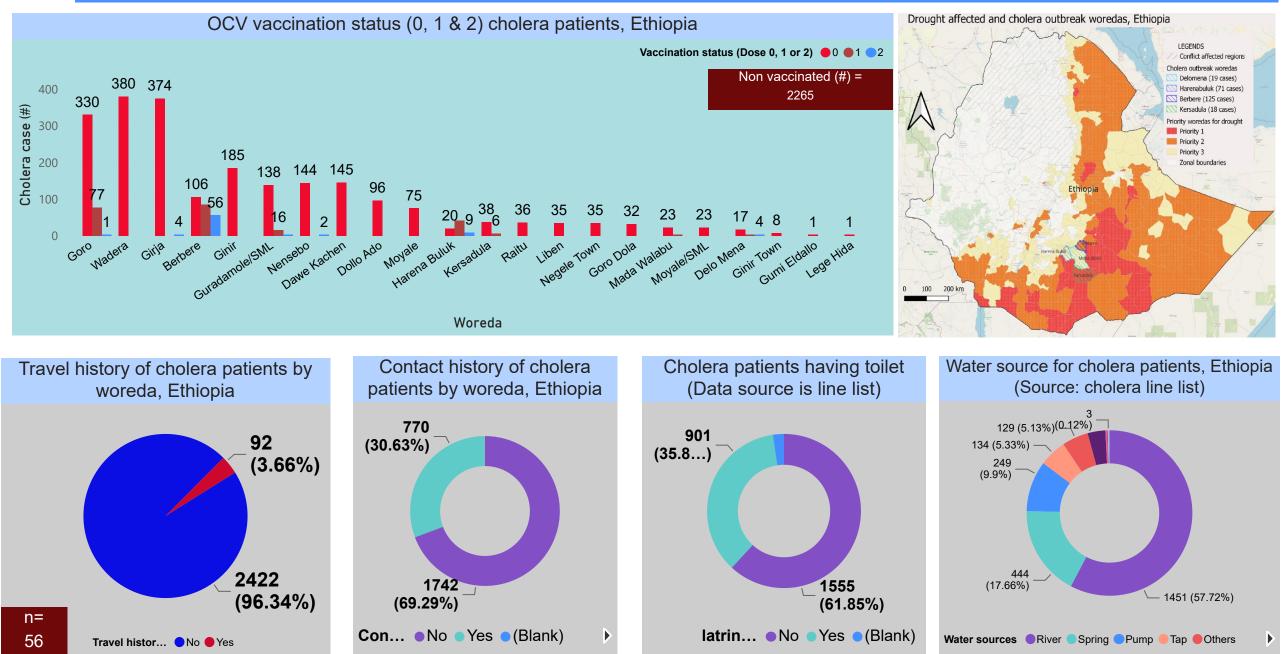


Vaccination status of cholera died patients

Outcome (#)	×	Dose(0,1,2)/case ×	Region case (#)	×
Died		0		

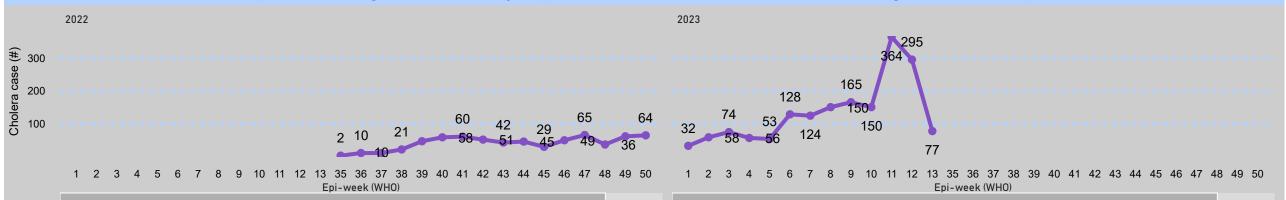


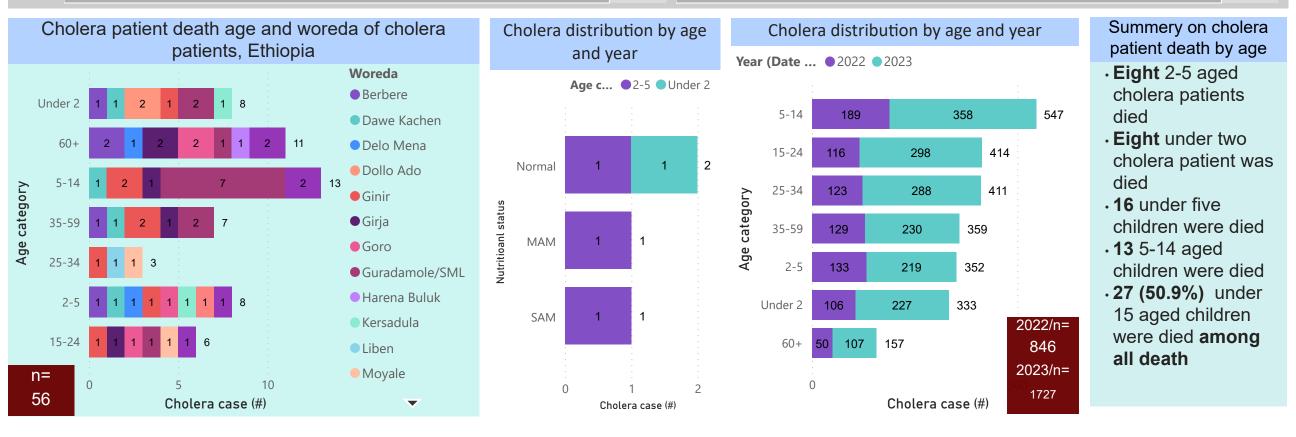




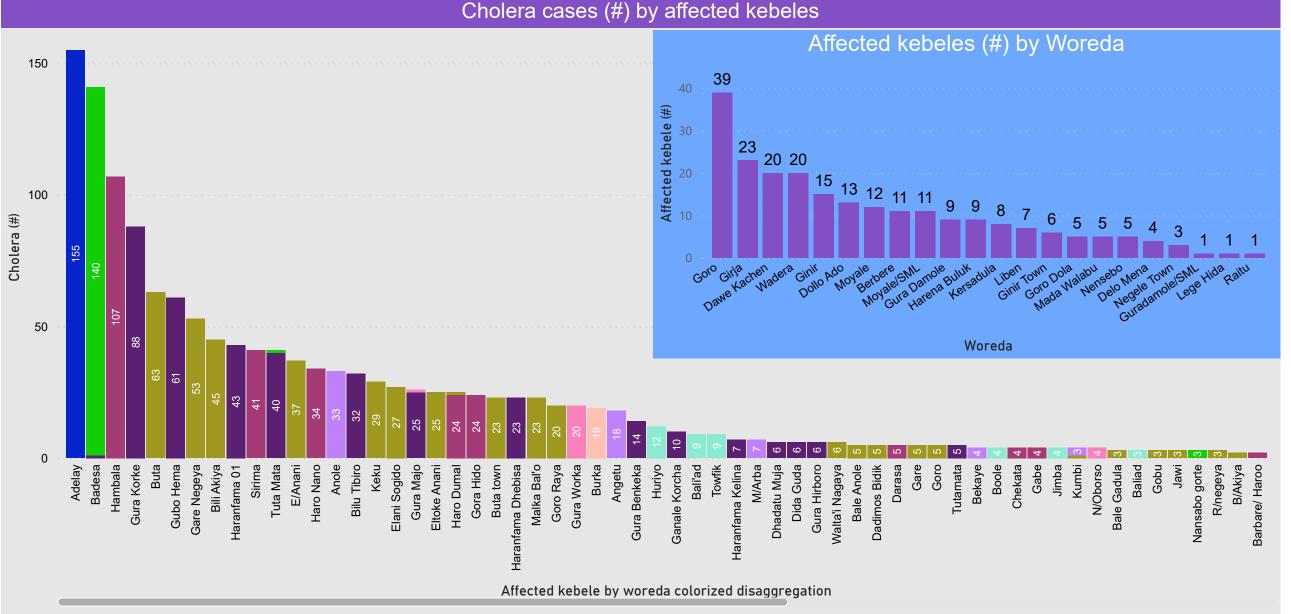


Cholera epidemiological trend by Epi-week, Oromia and Somali regions, Ethiopia, 2022k











Cumulative WaSH Interventions by partnership for cholera outbreak control and prevention, at cholera affected woredas, 2022 (Source: UINCEF)

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Region	Woreda	Water points maintai ned (#) by UNICE F	New water points (Spring) establish mnet (#) by WVI	Woreda Water office capacitat ed (#) by UNICEF	Schemes (including water trucks) disinfecte d (#) by UNICEF	EMWAT kits installed (#) by UNICE F	Water trucking reached populatio n (#) (UNICEF)	Aqua tabs distribut ed (#) by UNICEF, SCI, IRC	Rotto 5000L installe d (#) (GOAL & UNICE F)	Jerryca ns distribu ted (#) by SCI, IRC	Washi ng basins distrib uted (#) by IRC, SCI	Sample s taken for Physico - chemica I (#) by UNICEF	Sample tested Bacteri ological tes (#) by UNICE F	permane net common Latrine building (#) by UNICEF, WVI, GOAL	Emerge ncy commo n Latrine building (#)	Semi- permanent latrines (Goal) (#) by UNICEF, WVI, GOAL	Body soaps distribute d (#) by by UNICEF, SCI, IRC	Soap distribu ted (#) (SCI, UNICE F, IRC)	Traini ng for HCs (#) by UNIC EF	Training for HEW&com munity&reli gious leaders (#) by UNICEF	# (UNIC	Buckets distribut ed (#) SCI, LWF	Hygien e educate d populati on (#) UNICE F/LWF
Oromia	Berbere	12		7	41	1		37400	3	57000	500	3	19	3	19	9		102000	47	195		500	
Oromia	Dalo Mena		1	10	8	1			2	300		3	14	3	5	7	3750	3750	47				
Oromia	Dawa Kachen				1	1	330	580000		900							400	400	74			500	1500
Oromia	Ginir						330	580000		400							400	400	74				1500
Oromia	Ginir town							580000		500									107			500	
Oromia	Girja							163660	12	3000							20000	59000	47				43000
Oromia	Goro		1			1	117												49				
Oromia	Guradamole/ORM		2	2	3			6000	4	500	500	2	8					10000	47			500	
Oromia	Harena Buluk		2	7	30	1			3			2	8	3	5	5			47				
Oromia	Lega Hida							580000		500									47			500	
Oromia	Medawolabo						132	48000	2							5			47				
Oromia	Moyale						80			500							4000		47			500	
Oromia	Nensebo							139000		3000								1200	47				
Somali	Dolo Ado																		54	105			
Somali	Guradamole/SML	2				1	26717									10			47		59010		59010
Somali	Kersadula	1					8100									10			47		7800		29690
Total	Total	15	6	26	83	6	35806	2714060	26	66600	1000	10	49	9	29	46	28550	176750	875	195	66810	3000	134700



Weekly support for cholera outbreak response (UNICEF reported compiled report)

Region	Zone	Woreda	Aqua tabs	Bucke t	Jerry Can	HTH 70% chlorin e	Water Schemes disinfected	Beneficiary	Latrin e Constr uction	Soaps UNICEFCOO PI	Vehicle SCI	Rotto3M3 installed FIDOUNICE F	W/Trucking /UNICEF/O WDA/Gov't / in M3	Water Scheme/F IDO, WVI,OWD	WP Sachet RWEB, UNICEF, RVWCDO,	Training Gov't/UNIC EF	WASH NFILWF	HS promotion beneficiar Y
														A	FIDO			
Oromia	East Bale	Dawe Kechen	210000	350	350	2		1680		7000	1			1	120000			2752
Oromia	East Bale	Dawe Serer						1200		2500							450	
Oromia	East Bale	Ginir Hospital		30						500								
Oromia	East Bale	Ginir R	280000	450	350			2160		4000					237000			
Oromia	East Bale	Ginir Town						1200		2500		1		1	12000	60		
Oromia	East Bale	Gololcha						1920		4000								
Oromia	East Bale	Gololcha Hospital								500								
Oromia	Bale	Goro					6	2136					131	1		2		
Oromia	East Bale	Lega Hidh						1200		2500								
Oromia	West Arsi	Nensobo													36000			
Oromia	East Bale	Rayitu	210000	200	200	2		960		2500	1				235000		450	
Oromia	Guji	Wadera								5000					33100			
Somali	Liban	Gorabkaksa																5466
Somali	Liban	Goradamole																6815
Somali	Liban	kadaduma																2694
Somali	Dawa	Moyale						1200	4				200	2				3211
Total	Total	Total	700000	1030	900	4	6	13656	4	31000	2	1	331	5	673100	62	900	20938



Coordination for cholera outbreak intervention activities

- RHB, with the support of UNICEF, has trained a total of 100 health extension workers and 427 community volunteers
- Coordination meeting (national TWG 2/week, regional TWG/week & Woreda TF/day)
- Orientation is given to TF & TWG
- Daily coordination meeting is ongoing (as report of woredas)
- Daily line list reporting (from both Oromia & Somali regions)
- Alert letter is sent to neighboring regions
- Training is provided to 746 HCWs in oromia & Somali regions
- Cholera kit, medical supply, equipment & WaSH materials were supported (EPHI, RHB, WHO, UNICEF, GOAL, World Vision, Save the children)
- Daily TF meeting with daily sharing of minutes (Kersadula)
- National RRT is deployed in for all cholera outbreak affected woredas, zones & region

PARTNERS SUPPORTING CHOLERA RESPONSE

- Oromia Region: WHO, UNICEF, GOAI Ethiopia, FIDO, Red cross (IFRC & ERRCS) & Government
- Somali region: WHO, MSF-Holland, UNICEF, Save the children, CARE, Pastoralist concern, Islamic relief agency Red Cross Ethiopia in collaboration to WHO and local gov
- provide training for 120 cholera outbreak health volunteers on March 21, 2023 and these trained volunteers started cholera outbreak response on 9 prioritized kebeles in Goro/Bale zone/Oromia.

MFS-H has traveled to Moyale/Somali for support on case mgt, nutrition and CTC quality.

RCCE for cholera outbreak intervention activities

- Key messages of Cholera prevention disseminated in all districts affected by cholera through volunteers and health workers using megaphones reaching 41,800 people
- Islamic Affairs Supreme Council (IASC) are undertaking promotion focusing on key appropriate hygiene practices through religious platforms during Friday prayer.
- Oromia region, Panel discussion was conducted by the regional health and water buraus, focused on the prevention of Cholera and the role of wider sectors including communities. The panel discussion is broadcasted via Oromia broadcasting corporation.
- Adopted local language cholera prevention & control messages, and disseminated at at different marketplaces, Schools different community gatherings cars, religious leaders & community leaders (Aba Gedas)
- School based sensitization is going on in all hotspot towns and woredas in 3 main schools in Dollo Ado. A total of 3,302 students reached.
- Health education is providing at religious, community and HFs
- Guideline, posters, job aids are delivered to HFs
- Social mobilization by Megaphones

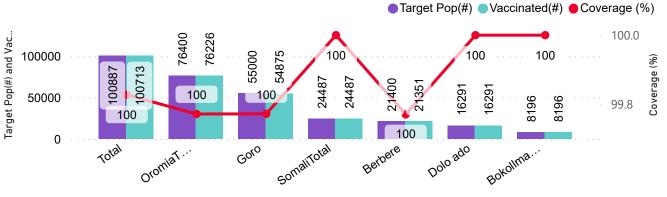
Surveillance for cholera outbreak intervention activities

- A surge team is redeployed from EPHI, RHB, WHO, UNICEF, MSF-H, GOAL, IRC. SCI, Care, Islamic relief and Pastoralist concern
- Case definitions are printed and distributed for HFs
- · Ongoing house to house active searching, contact tracing and disinfection & sensitization
- Conducted investigation in Dolo Ado (Somali) and Goro (Oromia)
- RRT alert and rumor investigation at woreda level
- Verifying cholera rumors from drought affected areas

OCV

- New OCV dose (1,910,416) is approved March 30, 2023 and its campaign micro-plan is under preparation
- ICG requested queries addressed resubmission done on 22 November 2022
- ICG team, WHO & EPHI discussed on reactive OCV request of 2,000,466 dozes to stop further spread
- OCV is approved by ICG (86,910). Approved OCV is delivered to Ethiopia on December 20, 2022 and EPSA is conducting customs clearance. OCV campaign conducted to January 13-19, 2023 in prioritized (by considering limited OCV dose & security to cascade campaign) woredas of Oromia region. Somali region (Dolo Ado & Bokollmayo woredas) started on Feb 22, 2023.

Seventh day OCV vaccination by woreda (selected IDP sites & Kebele) in Oromia & Somali regions, Since Jan 13, 2023



Woreda [(Goro & Berbere are in Oromia) & (Kersadula & Guradamole are in Somali region)]



WaSH Cholera outbreak intervention activities

- Hygiene and sanitation materials were distributed
- latrines were built and utilization monitoring is done, and ongoing
- Water treatment chemicals were distributed
- Water schemes maintenance and water trucking is done, and it is ongoing
- Water schemes disinfection is done and ongoing
- Water points were established
- Six EMWAT kit is installed

Note: details are on two pages back

Logistics for cholera outbreak intervention activities

EPHI in collaboration to sub-national and partners is responding for cholera outbreak New support:

- UNICEF approved additional 6 CTC for Guji zone & East Borona zones in Oromai region
- UNICEF supported 12 CTC for Moyale in both region
- WHO Case managmnet logistics approved for Oromia region and transportation will be IRC/IMC
- EPHI (EPSA) supported cholera case management logistics for East Bale, Oromia (Antibiotics/900, glove, ORS/15000, IV fluid/300 Analgesic/2 pack100 NG tube/825, Syringe and IV canula and transported on March 11, 2023 with covering transportation cost
- WHO supported ORS (8000), fluid (240), Investigation kits (105 for SNNP, SWEPR, Somali & Oromia), cholera kits, Community based ORP (3), and peripheral (3)
- WHO dispatched logistics package to Goro, Ginir and Dawa Kachen with its 270,000 transportation cost
- WHO dispatched cholera investigation and community kits to Moyale for cholera readiness from WHO warehouse.
- UINCEF supported CTC (10) for Oromia region (For East bale and high risk woredas)
- OWDA and PC are supporting the community campaign with vehicles mounted in Dollo-Ado and Suftu.

Case management for cholera outbreak intervention activities

- Totally 23 CTCs have been established in Oromia (19) & Somali (4). CTC in Berebere
 =3, Harana Buluk =2, Dolo Mena =1, Gura Damole/ORM=1, Girji/ORM=1, Goro=1, Nensebo=1(Not fulfil the standard), Ginir=1, Ginir town=1, Dawa Kachen=1, Goro
 Dola=1, Kersadula=2, & Guradamole/SML=2 and Dolo Ado=1, Wadera=1, Raitu=1, Moyale/ORM=1, Moyale/SML=1, Negele town=1].
- · All kebeles of in 9 woredas have established ORP and functioning
- Household disinfection being done in integration with contact tracing team
- Onsite capacity building being given by the deployed RRT
- Case management officers have been oriented on job by the deployed RRT
- Line list included nutritional variables
- MSF-H is supporting case management, standardizing CTC and train HCWs of case management



Major gaps & challenges cholera outbreak control

- Critical shortage of fluid (RL) for Moyale/Borona, Negele town & Liban/Guji, Oromia region
- OCV dose shortage for affected woredas and escalating outbreak
- WASH challenged especially low access to safe water, low latrine coverage, open defecation
- Community markets are operating increasing risk of spreading
- High risk of spreading further in IDPs (Dolo Mena, Kersadula & Guradamol, insecurity induced)
- High CFR as compaired to national standards
- Insecurity in both Oromia and Somali region affects field response operations
- Population movement due to drought, insecurity increase risk of spread to neighboring woredas
- Delay of information when emerging Epi-centers/Line list & alerts
- In adequate operational costs, shortage of water, RCCE printed materials, shortage of mobile van, shortage of vehicle for active case search and household spray, gap in capacity is among observed challenge

Prioritized next actions to control cholera outbreak

- Deploy addition RRT to cholera affected woredas in Moyale in both Oromia and Somali regions (to answer why cases upsurge).
- Distribute CTC for Oromia region for cholera affected woredas and cholera outbreak very high risk drought affected zones
- Prepositioning cholera outbreak response logistics for regions (SNNP, SWEPRs &
- Conduct national review meeting on cholera outbreak response and control performance by inviting regional health bureau heads, water bureau heads, zonal health & water health department heads, regional/zonal/woreda PHEM coordinators in the presence EPHH DG and national relevant partners country directors
- Activation of EOC at EDRMC office for multisectoral drought/cholera
- Following submitted OCV application for ICG considering escalation of cholera outbreak in Somali and Oromia regions
- Interaction review- follow up with, director of Recovery and Resilience directorate
- To strengthen regional engagement, ensure participation of regional PHEM coordinators (Oromia, Somali and SNNP) for national TWG meeting
- Assessment of access to water and water flow map in cholera affected woredas is crucial for effective preparedness and response.
- Provide training for CTCs and woreda health staff, RRT, cholera epidemic committee/CEC
- WASH cluster and Ministry of Water with EPHI requested to conduct assessment.
- Conduct cholera risk assessment in the context of current cholera transmission dynamics and drought situation in Somali, Oromia, SNNP and SWER and strengthen preparedness, enhance surveillance and preposition of supplies.
- Strengthen active case searching and contact tracing of cholera cases
- WHO to engage Health cluster to be part of TWG/ cholera coordination platform
- WHO, Africa CDC to support cross border meeting with Kenya
- Strengthen support for daily update from all health structures and provide evidence based feedback
- Strengthen national TWG meetings twice a week on Tuesday from 11:00 am to 12:00 noon and on Friday from 10:00 am to 11:00 noon with sharing its minutes and cholera daily SITREP



Disclaimer

• This cholera daily SITREP is produced based on the line list/figures/task force minutes reported from the regional (Oromia & Somali) Public Health Emergency Management.

• This daily base cholera outbreak SITREP is published by bacterial disease surveillance and response case team in Disease and health events surveillance and response directorate, Ethiopian public health Institute/EPHI, Public Health Emergency Management (PHEM). The aim of this SITREP is to inform decision makers in the institute/FMOH, UN agencies and NGOs about outbreaks.

> Chief Editor Mr. Yeshambel Worku (BSc in PH, RH/MPH, F.Epi/MPH) E-mail: workuyeshambel19@gmail.com +251966750922

> > Dr. Moti Edosa (MD, Field Epidemiologist) E-mail: motiedosa7@gmail.com Mobile: +2519 13 35 48 01

Reviewers: Mr. Mesfin Wossen (BSc in PH, MPH) DHESR Directorate Director

Bacterial Disease Surveillance and Response Case Team members For further information on cholera, call 8335











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