



## Northwest of Syria Cholera Outbreak

Situation Report No.17

# Epidemiological Week - 3 (15 Jan - 21 Jan 2023)

Date of Onset of Outbreak: 16 September 2022

Reporting Date of outbreak: 17 September 2022

Confirmation Date: 19 September 2022

#### **Key Highlights**

Cumulatively, a total of **40498 suspected** cases (**16378** in Aleppo governorate, **24120** in Idleb governorate) including **559 confirmed** have been reported by EWARN team since 16 September, including **20 deaths** case.

- The highest number of cases were reported in Harim district (12634) and Idleb district (7053) in Idleb governorate, then Azaz district (3854), Jebel Saman district (3844), and Jarablus district (3654) in Aleppo governorate.
- 7076 total suspected cases (including 382 new cases in Epi week 03 2023) were reported from camps.
- 44.2 % Of the suspected cases are in the age group <5 years. Males are 52% of the total and females are 48%.
- Since the outbreak started, surveillance and reporting from facilities are being supported and strengthened. For better understanding of the background and context, <u>please read pervious sitreps</u>.
- Line list is shared with WHO and WASH team to aid Targeted response at a household level being conducted for identified cases.
- Active case search is ongoing, especially in the camps.

Suspected Cases: 40498 Confirmed Cases: 559 Cholera Deaths : 20 Case Fatality Rate: 0.05% NWS Attack Rate: 0.88%





### Situation Updates

## 1. Epidemiology

Updated case definition: A resident of outbreak areas with sudden onset of acute watery diarrhea with or without vomiting.

In Epi week 03 - 2023, **2760 suspected cases of cholera were reported, including 3 positive cases**. The affected governorates are Aleppo (1244 suspected, 4 confirmed), and Idleb (1516 suspected, 0 confirmed).

The age group less than 5 reported 40.4 %, while the age group more than 60 reported 31 % of the total

No deaths were reported in epi week 3. (a total of 20 deaths).

Dana subdistrict in Idled governorate reported the highest number of cases (612), then Azaz subdistrict (213) in Aleppo governorate.







The overall sex distribution of the suspected cases is 52% Male, and 48% Female.

100% of the line listed cases were presented as Acute Diarrhea, 21% with vomiting, 5% as rice watery diarrhea, and 6% were dehydrated.

21% of the total cases live in camps (7076), and 79% out of camps (27312). (6110 of the total line listed cases are unknown)

As the outbreak progresses, sensitivity should be increased by including smaller age groups and mild/moderate symptom groups in order to estimate the burden of the outbreak. According to WHO, in areas where a cholera outbreak has been confirmed, any person presenting with or dying from acute watery diarrhea is considered a suspected cholera case. The age group less than 5 years was 44.2%.



























Epi Week	Governorate	District	Date of Onset	Population	New cases	Cumulative Cases	New Death	Cumulative Deaths	Case Fatality Rate	Incidence Rate	Attack Rate
Up to W03 - 2023	ldleb	Ariha	20-Sep	185,668	152	2436	0	1	0.04%	81.9	1.31%
		Harim	6-Sep	1,586,820	894	12634	0	9	0.07%	56.3	0.80%
		Idleb	14-Sep	713,933	388	7053	0	3	0.04%	54.3	0.99%
		Jisr-Ash-Shugur	25-Sep	310,973	82	1997	0	1	0.05%	26.4	0.64%
	Aleppo	A'zaz	9-Sep	648,600	303	3854	0	0	0.00%	46.7	0.59%
		Afrin	21-Sep	467,090	351	3188	0	2	0.06%	75.1	0.68%
		Al Bab	17-Sep	339,812	141	1838	0	2	0.11%	41.5	0.54%
		Jarablus	12-Sep	121,938	174	3654	0	2	0.05%	142.7	3.00%
		Jebel Saman	10-Sep	251,785	275	3844	0	0	0.00%	109.2	1.53%
	Total			4,626,619	2760	40498	0	20	0.05%	59.7	0.88%







www.acu-sy.org • • • • • •





#### Laboratory:

- In Epi week 03- 2023, the total number of stool specimens or rectal swabs is 190, of which 4 have tested positive for Vibrio Cholera.
- A cumulative of 2876 samples were collected since the start of the outbreak (7 % of overall line listed cases), of which 559 have tested positive by stool culture. The total positivity rate in NWS is 20 %. But the positivity rate in epi week 3 – 2023 was 2.5%
- The Total number of negative cases by stool culture is 2272, and the remaining 45 are still pending.
- Diagnostic delays may result in higher case numbers and case fatality rates, without quick and effective diagnosis and treatment, case fatality maybe 50%.
- Isolation and identification of V. cholerae serogroup O1 or O139 by a culture of a stool specimen remain the gold standard for laboratory diagnosis.
- Currently, at EWARN laboratories (Idleb, Afrin, Jarablus, Raqqa, and Tal-Abiad) Fecal specimens are subcultured onto selective and nonselective media, including Nutrient agar and TCBS agar, for detection of V. cholerae O1.
- Suspicious, oxidase-positive isolates are serotyped in polyvalent antisera raised against the O1 Antigen.
- Antimicrobial-susceptibility testing is performed to detect resistance
- <u>The culture sensitivity results came sensitive for the following antibiotics:</u> <u>Azithromycin, Imipenem, Chloramphenicol, Ciprofloxacin, and Norfloxacin.</u>
- The laboratory team handles the specimens and waste management according to infection control standards.
- The samples collection protocol is 5-10 stool samples per subdistrict, and 5 samples from the admitted cholera suspected cases in the CTC /CTU per week.









Epi Week	Governorate	District	Samples Collected on current week	Stool Culture Positive	Stool Culture Negative	Positivity Rate
		Ariha	16	21	244	8%
	Idlah	Harim	28	264	605	30%
	Idleb	Idleb	20	40	286	12%
		Jisr-Ash-Shugur	1	19	102	16%
Up to W03 - 2023		Al Bab	19	9	124	7%
00 10 1003 - 2023		Jarablus	15	53	224	19%
	Aleppo	Jebel Saman	26	21	151	12%
		A'zaz	6	19	111	15%
		Afrin	28	113	425	21%
	Total		159	559	2272	<b>20%</b>















## 2. <u>WASH:</u>

The WASH team works closely and in high coordination with RRT (Rapid Response Team), formed from EWARN staff.

The team, after receiving any alert, focuses on the investigation of WASH services in the hotspot areas.

The investigation includes:

- 1. Taking samples from drinking water resources (main stations, wells, water trucks, water taps.... etc.).
- 2. Investigate sewage networks and septic tanks' locations and other sanitation services.
- 3. Identify Hygienic practices.... etc.
- 4. Assessing agriculture markets (Identify irrigation water and resource of agricultural products if applicable).

#### Total number of investigations: 6, distributed as follows:

- 1. Harim district / Dana subdistrict / Dana community: All water samples, taken from water resources, were safe to drink.
- 2. Harim district / Dana subdistrict /Sarmada community: All water samples, taken from water resources, were safe to drink; however, the water sample taken from Iman hospitable wasn't safe to drink physically (NTU was high), no biological contamination.
- 3. Afrin district / Afrin subdistrict / Afrin: community: All water samples, taken from water resources, were safe to drink.
- 4. Afrin district / Sharan subdistrict / Qatmet Afrin community: All water samples, taken from water resources, were safe to drink.
- 5. Afrin district /Sharan subdistrict / Kafr Janna community: All water samples, taken from water resources, were safe to drink.
- 6. Jarablus district /Jarablus subdistrict /Jarablus community: All water samples, taken from water resources, were safe to drink. for more details click here





### Actions taken

- The Assistance Coordination Unit successfully completed the health awareness sessions (40 sessions) about cholera, methods of infection, and its prevention. The sessions were via the Zoom application (online). The number of beneficiaries reached 473 in 16 communities.
- The EWARN team is currently conducting active surveillance in the most important health facilities in northwest Syria (25 HFs). In Epi week 3- 2023, 22 field visits were completed. During the visit, the team reviews with the health facility staff the records to ensure the reported cases, also discusses the challenges, and recommendations, and collaborates to treat the problems.
- The EWARN team is preparing to receive 1000 cholera RDTs by WHO, and the distribution plan in the field was completed in collaboration with SAMS.
- The response teams conducted an expanded investigation of the deaths that occurred since the beginning of the outbreak (20 deaths), where some possible causes were identified, and the teams made appropriate recommendations.
- Strengthening surveillance to collect cases from all HFs.
- ACU teams conduct regular awareness sessions about Cholera, prevention, and control measures for local authorities and affected people during the investigation. Besides, the result of investigations is shared with the WASH cluster and acting organization in the area to take immediate action.

### Challenges

- Continuing movements of population.
- Supplies of laboratory reagents and consumables are not enough for reliable testing services.
- The number of WASH officers is low and needs to be increased, particularly in Harim district, where the number of cases surges, and the number of camps and population is higher than in other locations.





### Recommendations

- enhance reporting from functioning treatment centers (CTCs, CTUs, and ORPs).
- Support the laboratory with more consumables and supplies, especially for O139 and O1 Antisera.
- Enhancement coordination mechanisms with WHO and Taskforce members.
- Strengthening the community's role in reporting cases
- Enhancing the potential sources of Cholera death reporting.
- Increase efforts to educate the population about cholera and encourage them to go to medical centers to receive medical services
- Emphasis on health centers to immediately notify any suspected case of cholera
- Training CTC and CTU personnel to prepare the different types of chlorine solutions and where to use them properly. Moreover, providing them with a pool tester to measure the FRC of the water supplied to these centers.
- Provide the cholera treatment center with free resident chlorine (FRC) testers.
- Periodic testing of drinking water in schools, with the implementation of general hygiene campaigns