

اليمن Yemen

الاستجابة للكوليرا Cholera Response

برنامج الترصد الإلكتروني للإمراض Electronic Disease Early Warning System (eDEWS) النشرة الوبانية الأسبوعية Weekly Epidemiological Bulletin W13 2018 (Mar 26-Apr 01)

Printed: 06:18 Tuesday, 03 April 2018 UTC

Table of Contents جدول المحتويات

A. Summary indicators

B. Epidemic curve

C. Key indicators by Governorate

D. Laboratory indicators

E. Geographic distribution over time

F. Districts reporting in past week

G. Epidemic curves by Governorate

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المنحنى الوبائي حسب المحافظة. هـ

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Highlights

Cumulative figures

- -The cumulative total from 27 April 2017 to 1 April 2018 is 1,086,105 suspected cholera cases and 2,271 associated deaths, (CFR 0.21%), 1113 have been confirmed by culture.
- The total proportion of severe cases among the suspected cases is 15.4%
- The national attack rate is 388.7 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (903), Al Mahwit (878), Al Dhale'e (639), Sana'a (527) and Dhamar (524).
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 36,619 rapid diagnostic tests (RDT).
- 2,975 cultures have been performed which represents 22% coverage.
- The last positive culture was on 9 Mar 2018 in Al Hali district in Al Hudeideh governorate
- Since 1st of Jan 2018 the districts with highest cumulative suspected cases are Al Hali (4132), Maqbanah (1,795), Al Sabaeen (1.578). Radman Al Awad (1.504) Bani Al Harith (1.462)
- 165 districts are still reporting suspected cholera cases since last 3 weeks
- 140 districts (out of 305 affected districts) did not report any suspected cases for the last three consecutive weeks Governorate and District level
- At governorate level, the trend from W10 –W12 decrease or was stable in all governorates.

Trends

- The trend of weekly number of cases is decreasing since week 36.
- The weekly proportion of severe cases has significantly decreased (now 18%).

Week 13 2018

- 1,780 suspected cases and 3 associated deaths were reported
- The districts reporting the highest number of cases are Radman Al Awad (115), Al Hali (111), Al Mighlaf (91), Utmah (88).
- 18 % are severe cases
- 1,780 RDTs were performed, 163 were positive
- no culture results received this week



Cholera Response | Cumulative figures from 27/04/2017 to 1/4/2018

Associated deaths

حالة وفاة في

الأسبوع الحالي 3

3 associated deaths

in current week

1,086,105 مالات الاشتاه

Suspected cases

حالة اشتباه في

الأسبوع الحالي 1,780

1,780 suspected cases

in current week

05 2,271

,271 0.21% مذال الأماكة عن الحالات الدفات

معدل الاماته بين الحالات Case Fatality Rate 96%

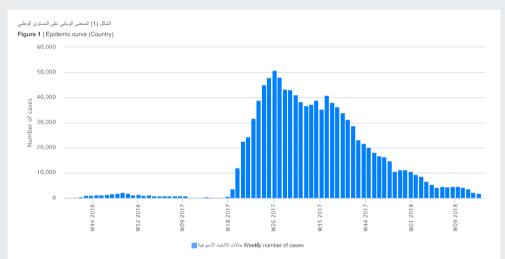
المحافظات المتأثرة بالوباء Governorates affected

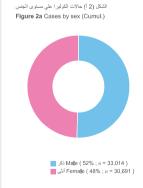
(محافظة 22 / 23) (22 / 23 governorates) 92%

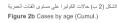
المديريات المتأثّرة بالوباء Districts affected

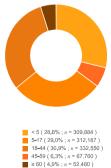
(مديرية 305 / 333) (مايرية 305 / 333 districts)

B. المنحنى الوبائي Epidemic curve









الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض Figure 2c Cases by outcome (Cumul.)



- الله Discharged (67.05%; n = 728,225) الما Referred (0.32%; n = 3,477)
- وفاة Died (0.21% ; n = 2,271)

 Unknown (32.63% ; n = 354,403)

Trends in cases by age distribution and dehydration status

Figure 2d | Trend in proportion of cases aged under 51

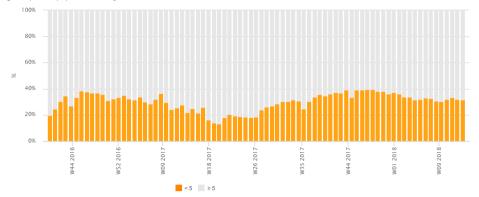
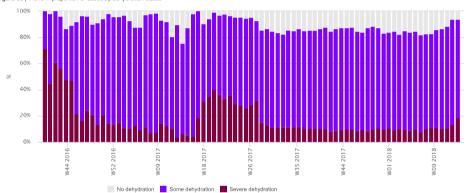


Figure 2e | Trend in proportion of cases by dehydration status1



¹ Trends in proportional age distribution and dehydration status always add up to 100% and do not give any indication of the number of cases reported. For this reason, these may reflect cases that are not visible in the epidemic curve due to the scale of the y-axis and the huge difference in the case counts between the first and second waves of the outbreak.

جدول (1) خلاصة بالمؤشرات الرئيسية بالنسبة للمحافظات

Table 1 | Summary of key cholera indicators by Governorate

للمحافظات	نَر اكمي
Governorate	Cumulative (27/04/2017 to 1/4/2018)

الاتجاه 3 أسابيع 3 week trend

	حالات الاشتباه Cases	الوڤيات Deaths	معدل الإمالية CFR ¹	السكان Population	معدل الإصابة AR ²	أسابيع 3ـ 3W-	أسابيع 2ــ 2W-	اسابيع 1- 1W-	الأسبوع الحالي W	اتجاه Trend ³
عمران Amran	105,122	179	0.17%	1,164,003	903.11	213	204	128	105	▼ -30%
Al Mahwit المحريث	64,638	151	0.23%	735,453	878.89	469	203	119	121	▼ -55%
Al Dhale'e الضالع	47,158	82	0.17%	737,330	639.58	4	7	1	8	▼ -75%
صنعاء Sana'a	77,953	123	0.16%	1,477,541	527.59	415	290	87	96	▼ -67%
نمار Dhamar	106,355	162	0.15%	2,026,131	524.92	543	699	542	378	▶ -9%
حجة Hajjah	121,333	423	0.35%	2,359,672	514.19	7	10	7	7	▼ -12%
أبين Abyan	28,243	35	0.12%	574,125	491.93	0	0	0	0	■ Interrup
A l Hudaydah الحنينة	158,958	284	0.18%	3,258,790	487.78	496	421	357	334	▼ -16%
Al Bayda البيضاء	32,927	37	0.11%	762,298	431.94	377	442	408	402	▶ 0%
Amanat A J Asimah أمانة العاصمة	106,821	71	0.07%	2,863,978	372.98	672	522	399	186	▼ -25%
ربعة Raymah	18,541	120	0.65%	610,843	303,53	73	38	19	15	▼ -56%
Al Jawf الجرف	16,161	22	0.14%	581,433	277.95	31	25	4	0	▼ -80%
لحج Lahj	24,344	22	0.09%	1,013,972	240.09	1	0	0	0	▼ -100%
lbb →	69,604	291	0.42%	2,973,021	234.12	541	491	39	64	▼ -89%
عدن Aden	20,993	62	0.30%	931,493	225.37	0	0	0	0	■ Interrup
تعز Taizz	65,786	189	0.29%	3,013,668	218.29	285	170	69	63	▼ -60%
سأرب Marib	7,296	7	0.10%	361,214	201.99	0	0	0	0	■ Interrup
صعدة Sa'ada	10,712	5	0.05%	918,244	116.66	2	1	0	0	▼ -100%
Al Maharah المهرة	1,169	1	0.09%	150,043	77.91	0	0	0	1	■ Interrup
Shabwah شبرة	1,399	3	0.21%	607,751	23.02	0	0	0	0	■ Interrup
المكاد Mokila	568	2	0.35%	444,067	12.79	0	0	0	0	■ Interrup
سيئون Say'on	24	0	0.00%	378,995	0.63	0	1	0	0	▼ -100%
اليمن Yemen	1,086,105	2,271	0.21%	27,944,065	388.67	4,129	3,524	2,179	1,780	▼ -34%

معدل الاملكة بين الحالات 1

ملحلي مرتفع 🛦	غيير بمحدل %10+ ≤	
ملحلى مستكار 🗲	غيير بمعدل %to < +10 - <	
ملحلى ملخفض 🔻	غيير بمعدل %10- ≥	
انقطاع في الارسال 🔳	عدد 0 حالة خلال 3 أسابيع متثالية	

Caser reasily nater
 Attack Rate (70,000 population)
 Trend based on average number of cases in previous 3 weeks (current week excluded due to incomplete data)

▲ Increased trend	≥ +10% change
▶ Stable trend	> -10% to < +10% change
▼ Decreased trend	≤ -10% change
Interruption in transmission	0 cases for 3 consecutive weeks

معذل الامكته بين المطالات ! معدل الإستثبة ككل 10,000 من السكان 5 تم حساب المنطقي يقاء على متوسط عند المالات خلال اللاقة المنابع سابقة 3 (لم يكم تضمين الاسرع الحالي في حساب المنطق بسبب عند اكتمال البيانات)

¹ Case Fatality Rate

D. Laboratory

Figure 4 | RDT results by week

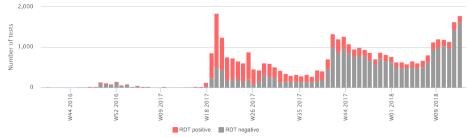
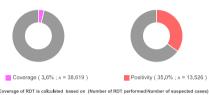


Figure 5 | Rapid Diagnostic Kit (RDT)



*Coverage of RDT is calculated based on (Number of RDT performed/Number of suspected cases) **Table 2** | Summary of key laboratory indicators by Governorate

Figure 6 | Culture

*Coverage of culture is calculated based on (Number of culture performed/Number of positive RDT)

Positivity (37.4%; n = 1,113)

Coverage (22.0% ; n = 2,975)

Governorate		Rapid Diagnostic Kit (RDT)				Culture			
	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rat
أبين Abyan	28,243	239	8.5%	152	63.6%	39	25.7%	23	59.0%
عدن Aden	20,993	587	28.0%	366	62.4%	173	47.3%	118	68.2%
Al Bayda البيضاء	32,927	2901	88.1%	973	33.5%	194	19.9%	9	4.6%
Al Dhale'e الضالع	47,158	368	7.8%	132	35.9%	43	32.6%	3	7.0%
Al Hudaydah الحديدة	158,958	5521	34.7%	1406	25.5%	507	36.1%	234	46.2%
الجوف Al Jawf	16,161	1525	94.4%	924	60.6%	72	7.8%	12	16.7%
Al Maharah المهرة	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%
Al Mahwit المحويث	64,638	2469	38.2%	1067	43.2%	111	10.4%	13	11.7%
Amanat Al Asimah العاصمة	106,821	7053	66.0%	2463	34.9%	495	20.1%	191	38.6%
عمران Amran	105,122	2810	26.7%	773	27.5%	109	14.1%	23	21.1%
نمار Dhamar	106,355	4786	45.0%	528	11.0%	127	24.1%	23	18.1%
حجة Hajjah	121,333	810	6.7%	195	24.1%	46	23.6%	14	30.4%
lbb →!	69,604	926	13.3%	546	59.0%	106	19.4%	13	12.3%
لحج Lahj	24,344	1160	47.7%	588	50.7%	44	7.5%	18	40.9%
مارب Marib	7,296	197	27.0%	128	65.0%	2	1.6%	0	0.0%
المكلا Moklla	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
ربعة Raymah	18,541	642	34.6%	409	63.7%	36	8.8%	5	13.9%
صعدة Sa'ada	10,712	921	86.0%	752	81.7%	12	1.6%	0	0.0%
صنعاء Sana'a	77,953	3694	47.4%	885	24.0%	314	35.5%	45	14.3%
سينون Say'on	24	23	958.3%	9	39.1%	12	133,3%	0	0.0%
شبوة Shabwah	1,399	127	90.8%	53	41.7%	51	96.2%	9	17.6%
نعز Taizz	65,786	1491	22.7%	978	65.6%	402	41.1%	314	78.1%
اليمن Yemen	1,086,105	38,619	35.6%	13,526	35.0%	2,975	22.0%	1,113	37.4%

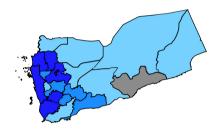
الغريطة (أ أ) عدد حالات الإشتباه للمحافظات Map 1a | Number of cases by governorate (Jan 2017 - Apr 2017)



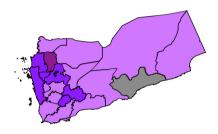
الغريطة (1 ب) معدل الاصابة للمحافظات Map 1b | Attack rate by governorate (Jan 2017 - Apr 2017)



الغريطة (1 أ) عدد حالات الاشتباء للمحافظات **Map 1c** | Number of cases by governorate (Jan 2017 - Jun 2017)



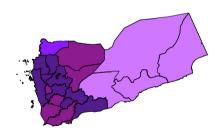
الخريطة (1 ب) معدل الاصابة للمحافظات Map 1d | Attack rate by governorate (Jan 2017 - Jun 2017)



الغريطة (1 أ) عند حالات الإشتباء للمحافظات ${
m Map 1e}\ |\ {
m Number of cases}$ by governorate (Jan 2017 - present)

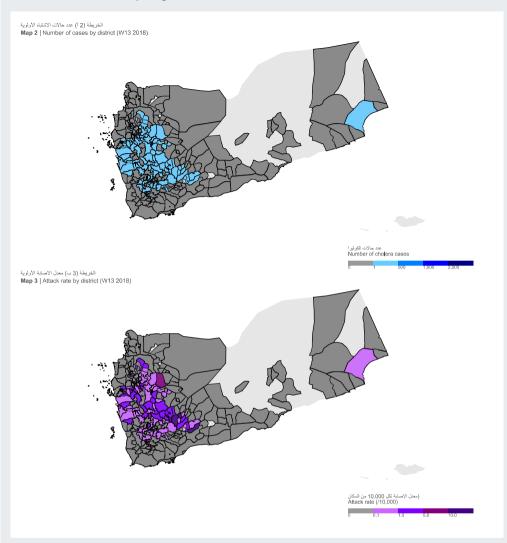


الخريطة (1 ب) معدل الاصابة للمحافظات Map 1f | Attack rate by governorate (Jan 2017 - present)



عند حالات الكوليرا Number of cho	era cases		
0 1	10.000	20.000	50.000

	ك 10,000 من k rate (/10,0		4)		
0	0.1	100.0	200.0	400.0	



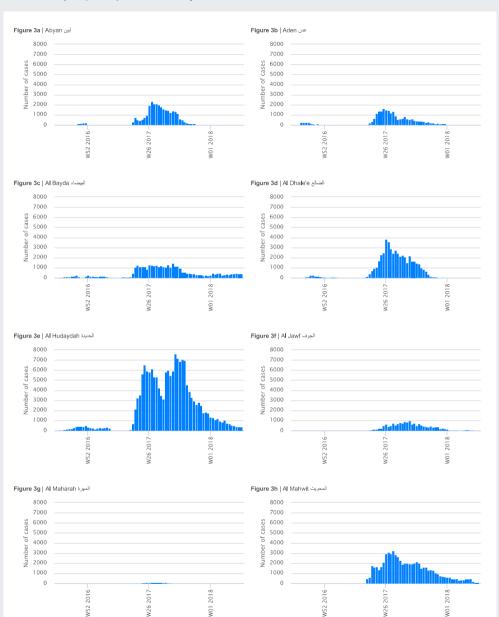
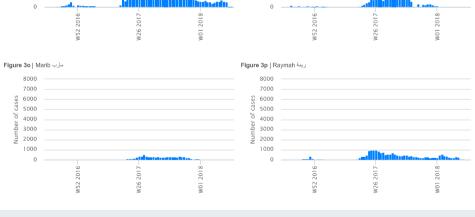


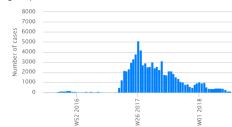
Figure 3i | Amanat Al Asimah أمانة العاصمة عبران Figure 3j | Amran Number of cases Number of cases W52 2016-N52 2016-W26 2017-W01 2018-N26 2017-W01 2018-نمار Pigure 3k | Dhamar حجة Figure 3I | Hajjah Number of cases Number of cases W01 2018-W52 2016-W26 2017-W52 2016-W01 2018-Figure 3m | lbb -لحج Figure 3n | Lahj **Number of cases** Number of cases





N52 2016-





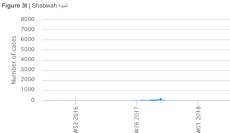
سينون Say'on ا Figure 3s

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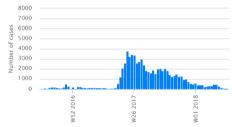


N26 2017-

W01 2018-



تعز Taizz ا Figure 3v



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Learn more about the project: http://ewars-project.org

Yemen Cholera Response Portal has been deployed since July 2017 to strengthen surveillance in response to the cholera outbreak in Yemen, http://ye.ewars.ws/login

النافذة الخاصة بالاستجابة لوباء الكوليرا في اليمن تم النشر يناريخ بوليو 2017 لتعزيز النرصد والاستجابة لوباء http://ye.ewars.ws/login الكوليرا في اليمن

