

# اليمن Yemen

# الاستجابة للكوليرا Cholera Response

برنامج الترصد الالكتروني للامراض Electronic Disease <u>Early Warning System (eDEWS)</u> النشرة الوبائية الأسبوعية Weekly Epidemiological Bulletin W6 2018 (Feb 05-Feb 11)

Printed: 15:32 Wednesday, 14 February 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

ملخص المؤشرات .أ المنحنى الوباتي .ب المؤشرات الرئيسية حسب المحافظة .جـ المؤشرات المختيرية ه التوزيع الجغرافي مع مرور الوقت .د المديريات ذات الأولوية .د

المنحنى الوبائي حسب المحافظة. ه

## Highlights

#### **Cumulative figures**

- -The cumulative total from 27 April 2017 to 11 Feb 2018 is 1,059,970 suspected cholera cases and 2,258 associated deaths, (CFR 0.21%), 1104 have been confirmed by culture.
- 59.3 % of death were severe cases at admission
- The total proportion of severe cases among the suspected cases is 16%
- The national attack rate is 382.7 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (894), Al Mahwit (857), Al Dhale'e (644), Hajjah (520) and Sana'a (515).
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 29,629 rapid diagnostic tests (RDT) have been performed which represents 28 % coverage.
- 2,732 cultures have been performed which represents 22.3% coverage.
- The last positive culture was on 4 Feb 2018 in Al Harith district in Amant Al Asimah
- 182 districts are still reporting suspected cholera cases since last 3 weeks
- 123 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 W4 – W6 decrease or was stable in all governorates except (Aden governorate) (+13%).

#### **Trends**

- The weekly number of cases is decreasing for the 22 consecutive weeks.
- The weekly proportion of severe cases has significantly decreased representing now 9% of the admitted cases.

#### Week 6 2018

- 3,886 suspected cases and 3 associated deaths were reported
- 9 % are severe cases
- 589 RDTs were performed, 131 were positive
- No culture test was performed this week



#### Cholera Response | Cumulative figures from 27/04/2017 to 11/2/2018

1,059,970

2,258 حالات الاشتباه

Suspected cases حالة اشتباه في

الأسبوع الحالي 3,886 3.886 suspected cases in current week

الو فيات Associated deaths

> حالة و فاة في الأسبوع الحالي 3

3 associated deaths in current week

0.21%

معدل الاماته بين الحالات Case Fatality Rate

96%

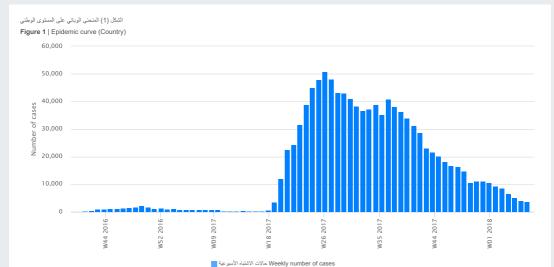
المحافظات المتأثرة بالوباء Governorates affected

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

المديريات المتأثرة بالوباء Districts affected

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

# B. المنحنى الوبائي Epidemic curve







Male ( 52% ; n = 19,800 ) نكر

Female ( 48% ; n = 17,923 ) انثی





< 5 ( 28.8% ; n = 301,644 )</p>

5-17 (29.0%; n = 304,541)

18-44 ( 31.0% ; n = 325,040 ) 45-59 (6.3%; n = 66,193)

≥ 60 (4.9%; n = 51,314)

الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض





- Discharged ( 66.45% ; n = 704,329 )
- Referred ( 0.32% ; n = 3,404 )
- ( Died ( 0.21% ; n = 2,258 ) وفاة
- Unknown ( 33.23% ; n = 352,237 ) غير معرف

### Trends in cases by age distribution and dehydration status

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

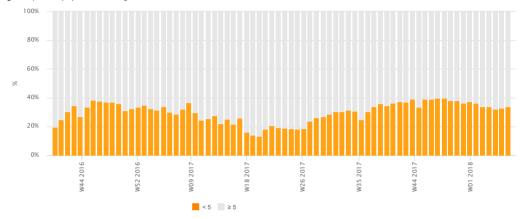
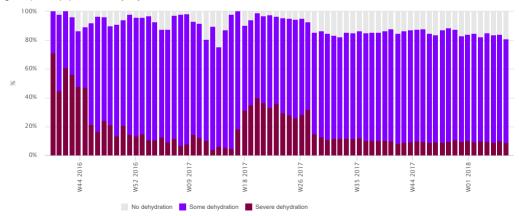


Figure 2e | Trend in proportion of cases by dehydration status1



<sup>&</sup>lt;sup>1</sup> 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.

# C. المؤشرات الرئيسية حسب المحافظة Key indicators by governorate

جدول (1) خلاصة بالمؤشرات الرئيسية بالنسبة للمحافظات

Table 1 | Summary of key cholera indicators by Governorate

تراكمي للمحافظات Governorate Cumulative (27/04/2017 to 11/2/2018)

الاتجاه 3 أسابيع 3 week trend

		<u> </u>								
	حالات الاشتباه Cases	الوفيات Deaths	معدل الاماته CFR <sup>1</sup>	السكان Population	معدل الإصابة AR <sup>2</sup>	أسابيع 3- W3-	أسابيع 2- 2W-	أسابيع 1- 1W-	الأسبوع الحالي W	اتجاه Trend <sup>3</sup>
عمران Amran	103,814	176	0.17%	1,160,559	894.52	494	360	271	249	▼ -28%
Al Mahwit المحويث	62,606	151	0.24%	730,209	857.37	371	425	280	318	▼ -22%
Al Dhale'e الضالع	47,135	81	0.17%	731,496	644.36	0	0	3	0	▲ +200%
حجة Hajjah	121,287	422	0.35%	2,329,741	520.60	518	29	1	3	▼ -99%
صنعاء Sana'a	75,856	123	0.16%	1,470,346	515.91	522	400	351	324	▼ -17%
نمار Dhamar	102,774	161	0.16%	2,012,264	510.74	950	699	651	579	▼ -15%
أبين Abyan	28,243	35	0.12%	570,832	494.77	0	0	0	2	■ Interrup
Al Hudaydah آلحديدة	155,245	282	0.18%	3,238,199	479.42	1,202	939	799	895	▼ -18%
Al Bayda البيضاء	30,265	36	0.12%	759,388	398.54	462	448	266	277	▼ -32%
Amanat Al Asimah أمانة العاصمة	102,493	71	0.07%	2,827,824	362.44	763	793	562	496	▼ -20%
ربىة Raymah	17,641	120	0.68%	606,776	290.73	399	344	224	193	▼ -31%
Al Jawf الجوف	15,965	22	0.14%	578,585	275.93	38	64	21	8	▼ -49%
لحج Lahj	24,342	22	0.09%	1,008,864	241.28	0	0	1	0	<b>▲</b> +200%
عدن Aden	20,954	62	0.30%	922,996	227.02	19	21	24	22	▲ +13%
إب Ibb	66,609	288	0.43%	2,957,138	225.25	473	513	302	392	▼ -30%
تعز Taizz	63,592	188	0.30%	2,998,300	212.09	373	242	163	128	▼ -37%
مأرب Marib	7,286	7	0.10%	358,542	203.21	0	1	0	0	▼ -100%
صعدة Sa'ada	10,706	5	0.05%	905,145	118.28	2	1	0	0	▼ -100%
Al Maharah المهرة	1,168	1	0.09%	148,478	78.66	0	0	0	0	■ Interrup
Shabwah شبوة	1,399	3	0.21%	604,243	23.15	0	0	0	0	■ Interrupt
المكلا Mokila	568	2	0.35%	400,788	14.17	0	0	0	0	■ Interrupt
سينون Say'on	22	0	0.00%	376,237	0.58	0	0	0	0	■ Interrupt
اليمن Yemen	1,059,970	2,258	0.21%	27,696,950	382.70	6,586	5,279	3,919	3,886	▼ -26%

معدل الاماته بين الحالات 1

منحنى مرتفع 🛦	غيير بمعدل %10+ ≤	
منحنى مستقر 🗨	غيير بمعدل %to < +10 % خيير بمعدل	
منحنى منخفض 🔻	غيير بمعدل %10- ≥	
انقطاع في الارسال =	عدد 0 حالة خلال 3 أسابيع متتالية	

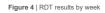
<sup>&</sup>lt;sup>3</sup> Trend based on average number of cases in previous 3 weeks (current week excluded due to incomplete data)

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

محدل الإسماية لكل 2000م المساوت . محدل الإسماية لكل 2000م الم السكان 5 تم حساب المنطقي بناء على متوسط عند الحالات خلال 2000 السابق سابقة 3 ( لم يقد تضمين الاسرح الحالي في حساب المنطقي بسبب عند اكتمال البيانات)

<sup>&</sup>lt;sup>1</sup> Case Fatality Rate

<sup>&</sup>lt;sup>2</sup> Attack Rate (/10,000 population)



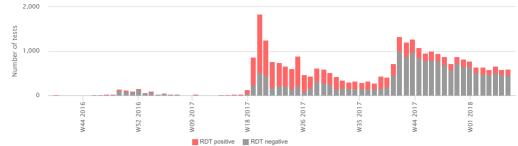


Figure 5 | Rapid Diagnostic Kit (RDT)

Governorate

تعز Taizz

اليمن Yemen

63,592

1,059,970

1351

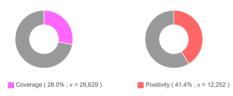
29,629

21.2%

28.0%

952

12,252



Rapid Diagnostic Kit (RDT)

\*Coverage of RDT is calculated based on (10% of the suspected cases)

Table 2 | Summary of key laboratory indicators by Governorate

Figure 6 | Culture

Culture



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

	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate
أبين Abyan	28,243	239	8.5%	152	63.6%	39	25.7%	23	59.0%
عدن Aden	20,954	584	27.9%	363	62.2%	173	47.7%	118	68.2%
Al Bayda البيضياء	30,265	1910	63.1%	825	43.2%	194	23.5%	9	4.6%
Al Dhale'e الضالع	47,135	347	7.4%	125	36.0%	42	33.6%	3	7.1%
Al Hudaydah الحديدة	155,245	3139	20.2%	1128	35.9%	392	34.8%	227	57.9%
Al Jawf الجوف	15,965	1403	87.9%	909	64.8%	60	6.6%	12	20.0%
Al Maharah المهرة	1,168	263	225.2%	118	44.9%	25	21.2%	14	56.0%
Al Mahwit المحويث	62,606	1991	31.8%	970	48.7%	60	6.2%	13	21.7%
Amanat Al Asimah أمانة أمانة	102,493	5283	51.5%	2179	41.2%	491	22.5%	190	38.7%
عمران Amran	103,814	2188	21.1%	676	30.9%	89	13.2%	23	25.8%
نمار Dhamar	102,774	3089	30.1%	415	13.4%	119	28.7%	23	19.3%
حجة Hajjah	121,287	767	6.3%	178	23.2%	46	25.8%	14	30.4%
إب Ibb	66,609	708	10.6%	467	66.0%	99	21.2%	13	13.1%
لعج Lahj	24,342	1160	47.7%	588	50.7%	44	7.5%	18	40.9%
مأرب Marib	7,286	192	26.4%	124	64.6%	2	1.6%	0	0.0%
المكلا Mokila	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
ربمة Raymah	17,641	590	33.4%	386	65.4%	32	8.3%	5	15.6%
Sa'ada صعدة	10,706	920	85.9%	752	81.7%	12	1.6%	0	0.0%
صنعاء Sana'a	75,856	3252	42.9%	803	24.7%	294	36.6%	44	15.0%
سينون Say'on	22	21	954.5%	9	42.9%	11	122.2%	0	0.0%
شبوة Shabwah	1,399	127	90.8%	53	41.7%	51	96.2%	9	17.6%

70.5%

41.4%

402

2,732

42.2%

22.3%

314

1,104

78.1%

40.4%

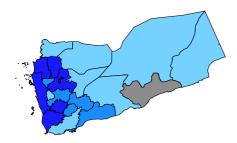
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات **Map 1a** | Number of cases by governorate (Jan 2017 - Apr 2017)



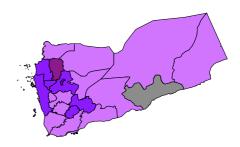
الخريطة (1 ب) معدل الاصابة للمحافظات **Map 1b** | Attack rate by governorate (Jan 2017 - Apr 2017)



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



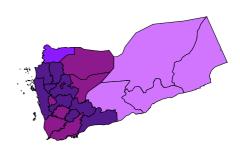
الخريطة (1 ب) معدل الاصبابة للمحافظات **Map 1d** | Attack rate by governorate (Jan 2017 - Jun 2017)



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



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



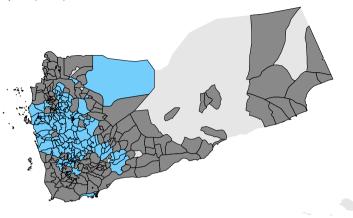
عد حالات الكولير ا Number of cholera cases

Attack rat	e (/10,00	0)	,		
0	0.1	100.0	200.0	400.0	

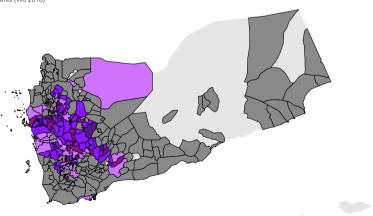
(معدل الاصابة لكل 10,000 من السكان

# F. الأولوية Districts reporting in current week

الخريطة (2 أ) عدد حالات الاشتباه الأولوية Map 2 | Number of cases by district (W6 2018)

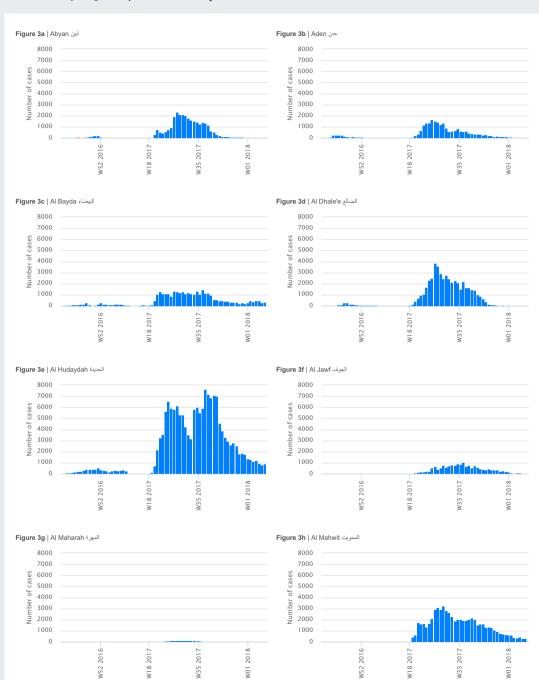


الخريطة (3 ب) معدل الاصابة الأولوية Map 3 | Attack rate by district (W6 2018)



عدد حالات الكولير ا Number of cholera cases

(معدل الإصابة لكل 10,000 من السكان Attack rate (/10,000)



أمانة العاصمة Figure 3i | Amanat Al Asimah عمران Amran عمران 8000 8000 7000 7000 6000 Number of cases 6000 Number of cases 5000 5000 4000 4000 3000 3000 2000 2000 1000 1000 0 0 W52 2016-W18 2017 W35 2017 W01 2018-W52 2016-W18 2017 W35 2017-W01 2018-حجة Hajjah ا Figure 3I ذمار Dhamar ا Figure 3k 8000 8000 7000 7000 6000 Number of cases 6000 Number of cases 5000 5000 4000 4000 3000 3000 2000 2000 1000 1000 0 W35 2017-W52 2016-W18 2017 W01 2018-W52 2016-W18 2017 W35 2017-W01 2018 Figure 3m | lbb -! لحج Figure 3n | Lahj 8000 8000 7000 7000 Number of cases 6000 Number of cases 6000 5000 5000 4000 4000 3000 3000 2000 2000 1000 1000 W52 2016 W18 2017 W35 2017 W01 2018-W52 2016-W18 2017 W35 2017 W01 2018-ارب Figure 3o | Marib ريمة Raymah (ريمة 8000 8000 7000 7000 6000 Number of cases 6000 Number of cases 5000 5000 4000 4000 3000 3000 2000 2000 1000 1000 0 0 W52 2016-W52 2016-W01 2018-

W18 2017-

W35 2017-

W01 2018-

W35 2017-

N18 2017

#### صعدة Figure 3q | Sa'ada 8000 7000 6000 Number of cases 5000 4000 3000 2000 1000 0 W01 2018-W52 2016-W18 2017 W35 2017-

صنعاء Sana'a صنعاء



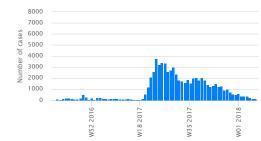
سينون Say'on ا



شبوة Shabwah أبيوة



تعز Taizz ا Figure 3v



للتواصل Contact Information

Dr Reema Al Yusfi

eDEWS National Coordinator Ministry of Public Health and Population Sana'a, Yemen Email: alyusfi@yahoo.com

Malika Bouhenia

Epidemiologist WHO Country Office Sana'a, Yemen Email: bouheniam@who.int Christine (Tiff) Cool

Emergency Communications Lead WHO Country Office Sana'a, Yemen Email: coolc@who.int

Powered by

 ĒWARS 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 بتاريخ يوليو 2017 لتعزيز الترصد والاستجابة لوباء http://ye.ewars.ws/login الكوليرا في اليمن

