



Yemen اليمـن

الاستجابة للكوليرا Cholera Response

برنامج الترصد الإلكتروني للأمراض

Electronic Disease Early Warning System (eDEWS)

النشرة الوبائية الأسبوعية

Weekly Epidemiological Bulletin

W2 2018 (Jan 08-Jan 14)

Printed: 15:49 Monday, 15 January 2018 UTC

جدول المحتويات Table of Contents

- 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 الوبائي .ب
- المؤشرات الرئيسية حسب المحافظة .ج
- المؤشرات المختبرية د
- التوزيع الجغرافي مع مرور الوقت .د
- المديريات ذات الأولوية .هـ
- المنحنى الوبائي حسب المحافظة .هـ

Highlights

Cumulative figures

- The cumulative total from 27 April 2017 to 14 Jan 2018 is 1,035,676 suspected cholera cases and 2,244 associated deaths, (CFR 0.22%), 1100 have been confirmed by culture.
- 59.2 % of death were severe cases at admission
- The total proportion of severe cases among the suspected cases is 16.8%
- The national attack rate is 376 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (880), Al Mahwit (836), Al Dhale'e (644), Hajjah (508) and Sana'a (503).
- Children under 5 years old represent 28.6% of total suspected cases.
- In total, 27,047 rapid diagnostic tests (RDT) have been performed which represents 26.1% coverage.
- 2,662 cultures have been performed which represents 23% coverage.
- The last positive culture was on 19 Dec 2017 in Al-Sabeen district in Amanat Al-Asimah
- 236 districts are still reporting suspected cholera cases since last 3 weeks
- 69 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 W52 2017-W2 2018 decrease or was stable in all governorates except (Al Bayda governorate) (+50%) and (Raymeh governorate) (+64%) .

Trends

- The weekly number of cases is decreasing for the 18 consecutive weeks.
- The weekly proportion of severe cases has significantly decreased representing now 10% of the admitted cases.

Week 2 2018

- 5,251 suspected cases and 3 associated deaths were reported
- 10 % are severe cases
- 471 RDTs were performed, 93 were positive
- No culture test was performed this week

A. ملخص المؤشرات Summary indicators



Cholera Response

Cumulative figures from 27/04/2017 to 14/1/2018

1,035,676

حالات الاشتباك
Suspected cases

2,244

الوفيات
Associated deaths

0.22%

معدل الاماته بين الحالات
Case Fatality Rate

96%

المحافظات المتاثرة بالوباء
Governorates affected

92%

المديريات المتاثرة بالوباء
Districts affected

حالة اشتباك في
الأسبوع الحالي
5,251 suspected cases
in current week

حالة وفاة في
الأسبوع الحالي
3 associated deaths
in current week

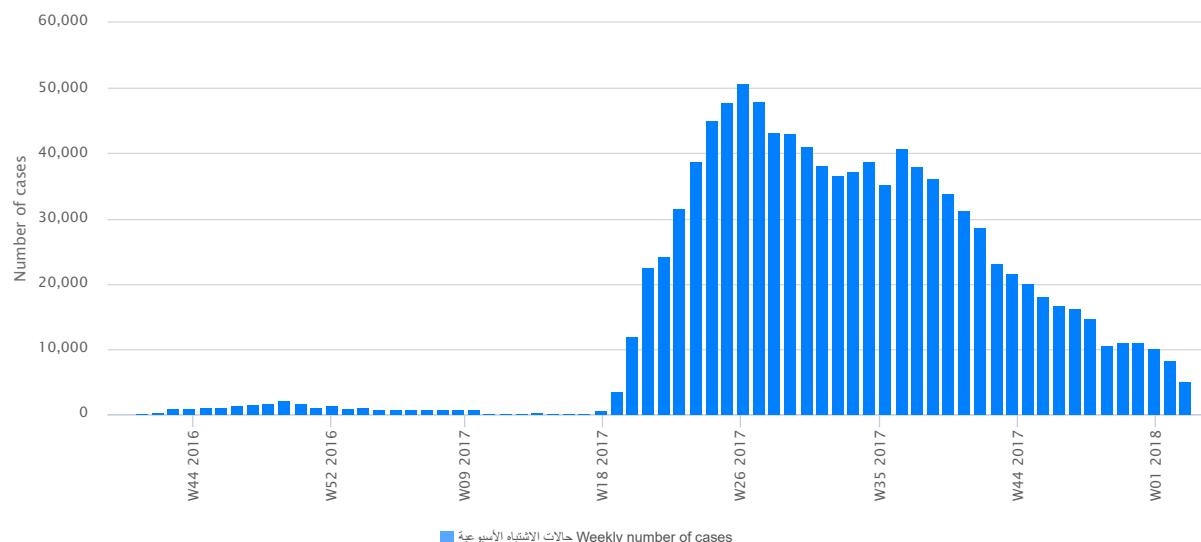
(23 / 22)
(22 / 23 governorates)

(333 / 305)
(305 / 333 districts)

B. المنحنى الوبائي Epidemic curve

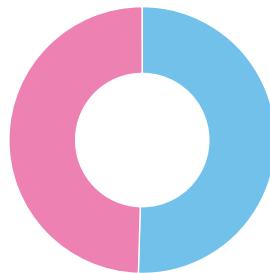
الشكل (1) المنحنى الوبائي على المستوى الوطني

Figure 1 | Epidemic curve (Country)



الشكل (2) (أ) حالات الكوليرا على مستوى الجنس

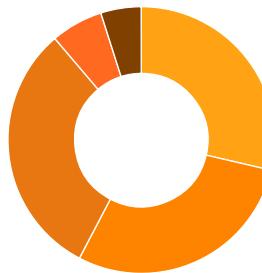
Figure 2a Cases by sex (Cumul.)



Male (54% ; n = 7,364)
Female (46% ; n = 6,294)

الشكل (2) (ب) حالات الكوليرا على مستوى الفئات العمرية

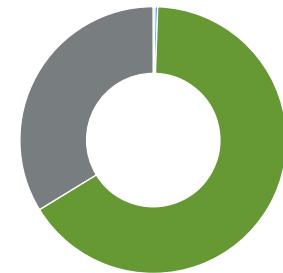
Figure 2b Cases by age (Cumul.)



< 5 (28.6% ; n = 293,475)
5-17 (29.0% ; n = 297,458)
18-44 (31.1% ; n = 318,531)
45-59 (6.3% ; n = 64,782)
≥ 60 (4.9% ; n = 50,200)

الشكل (2) (ج) حالات الكوليرا بالنسبة لحالة المريض

Figure 2c Cases by outcome (Cumul.)



Discharged (65.87% ; n = 682,172)
Referred (0.32% ; n = 3,345)
Died (0.22% ; n = 2,244)
Unknown (33.81% ; n = 350,159)

Trends in cases by age distribution and dehydration status

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

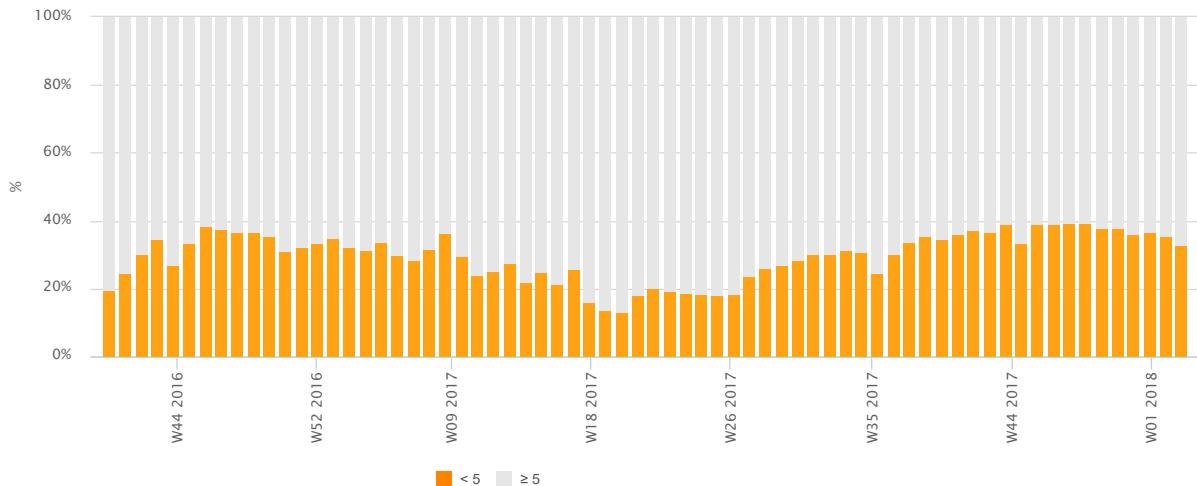
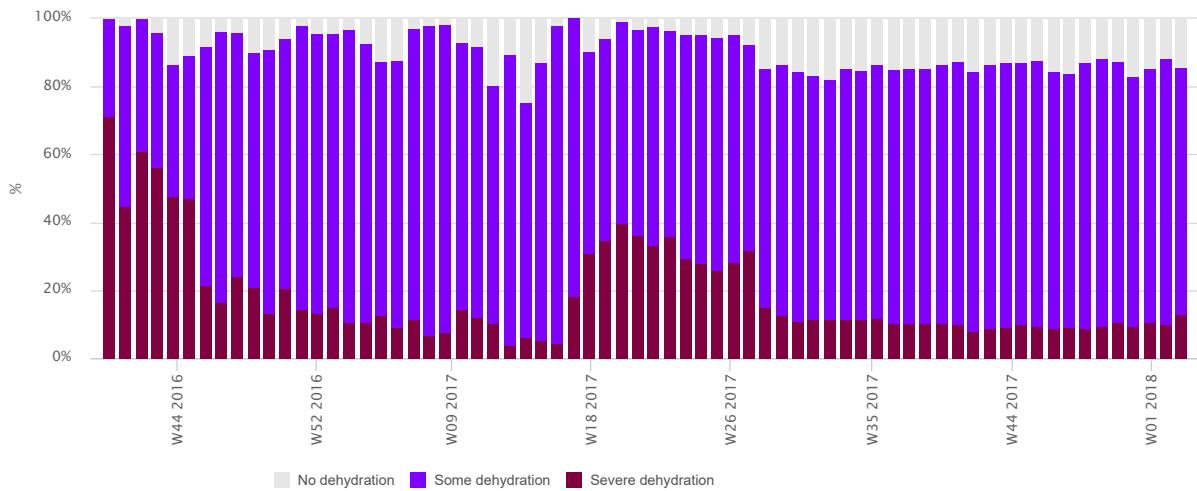


Figure 2e | Trend in proportion of cases by dehydration status¹



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.

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

المحافظات Governorate	نراكمي Cumulative (27/04/2017 to 14/1/2018)	الاتجاه 3 أسابيع 3 week trend									
		حالات الاصابة Cases	الوفيات Deaths	معدل الاماته CFR ¹	السكان Population	معدل الاصابة AR ²	أسابيع -3 -3W	أسابيع -2 -2W	أسابيع -1 -1W	الأسبوع الحالي W	اتجاه Trend ³
Amran عمران	102,231	175	0.17%	1,160,559	880.88	1,146	1,162	790	438	▼ -23%	
Al Mahwit المحويت	61,097	149	0.24%	730,209	836.71	649	577	576	292	► +4%	
Al Dhale'e الصالع	47,132	81	0.17%	731,496	644.32	19	6	11	6	► +8%	
Hajjah حجة	118,468	420	0.35%	2,329,741	508.50	1,993	1,618	1,005	267	▼ -35%	
Sana'a صنعاء	74,103	123	0.17%	1,470,346	503.98	925	1,047	963	836	► +2%	
Dhamar ذمار	99,766	160	0.16%	2,012,264	495.79	1,330	1,341	1,118	905	▼ -11%	
Abyan أبين	28,241	35	0.12%	570,832	494.73	11	1	0	0	▼ -100%	
Al Hudaydah الحديدة	150,965	280	0.19%	3,238,199	466.20	1,736	1,347	1,283	631	▼ -12%	
Al Bayda البيضاء	28,730	34	0.12%	759,388	378.33	214	233	447	278	▲ +50%	
Amanat Al Asimah أمانة العاصمة	99,452	70	0.07%	2,827,824	351.69	1,245	1,240	795	457	▼ -27%	
Al Jawf الجوف	15,827	22	0.14%	578,585	273.55	174	127	29	6	▼ -74%	
Raymah ريمة	16,403	120	0.73%	606,776	270.33	182	196	456	478	▲ +64%	
Lahj لحج	24,341	22	0.09%	1,008,864	241.27	115	96	1	1	▼ -99%	
Aden عدن	20,868	62	0.30%	922,996	226.09	107	70	26	22	▼ -62%	
Ibb إب	64,536	286	0.44%	2,957,138	218.24	590	502	485	401	► +8%	
Taizz تعز	62,371	187	0.30%	2,998,300	208.02	500	489	358	232	▼ -20%	
Marib مارب	7,285	7	0.10%	358,542	203.18	44	21	8	0	▼ -67%	
Sa'ada صعدة	10,703	5	0.05%	905,145	118.25	196	139	55	1	▼ -58%	
Al Maharah المهرة	1,168	1	0.09%	148,478	78.66	0	0	0	0	■ Interrupt	
Shabwah شبوة	1,399	3	0.21%	604,243	23.15	1	1	0	0	▼ -100%	
Moklla المكلا	568	2	0.35%	400,788	14.17	0	0	0	0	■ Interrupt	
Say'on سيئون	22	0	0.00%	219,953	1.00	1	0	1	0	▲ +50%	
Yemen اليمن	1,035,676	2,244	0.22%	27,540,666	376.05	11,178	10,213	8,407	5,251	▼ -15%	

معدل الاصابة بين الحالات¹

معدل الاصابة لكل 10,000 من السكان²

تم حساب المخزن بناء على متوسط عدد الحالات خلال ثلاثة اسابيع سابقة³

¹ Case Fatality Rate

² Attack Rate (/10,000 population)

³ Trend based on average number of cases in previous 3 weeks:

▲ مخزن مرتفع	≥ +10% غير بمعدل
► مخزن مستقر	> -10% to < +10% غير بمعدل
▼ مخزن منخفض	≤ -10% غير بمعدل
■ انقطاع في الارسال	عد 0 حالة خلال 3 اسابيع متتالية

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

D. Laboratory

Figure 4 | RDT results by week

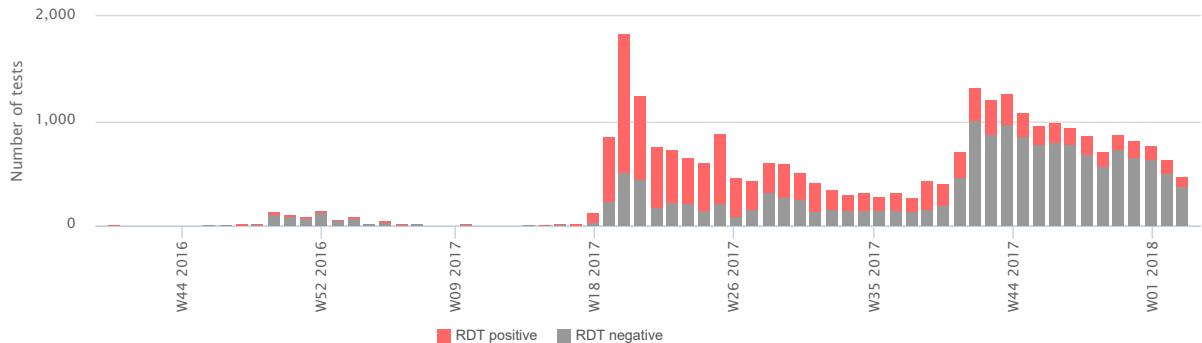


Figure 5 | Rapid Diagnostic Kit (RDT)

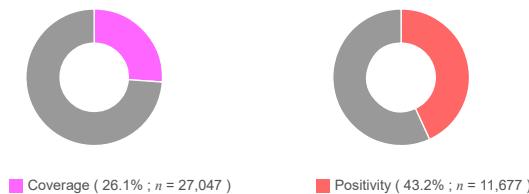


Figure 6 | Culture

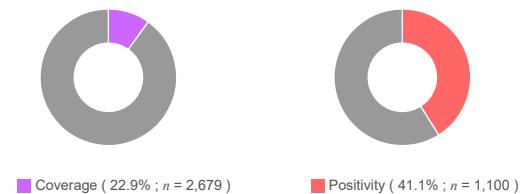


Table 2 | Summary of key laboratory indicators by Governorate

Governorate	Rapid Diagnostic Kit (RDT)					Culture			
	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate
Abyan أبين	28,241	238	8.4%	151	63.4%	39	25.8%	23	59.0%
Aden عدن	20,868	572	27.4%	360	62.9%	173	48.1%	118	68.2%
Al Bayda البيضاء	28,730	1755	61.1%	789	45.0%	194	24.6%	9	4.6%
Al Dhale'e الصالع	47,132	345	7.3%	123	35.7%	41	33.3%	3	7.3%
Al Hudaydah الحديدة	150,965	2789	18.5%	1009	36.2%	392	38.9%	227	57.9%
Al Jawf الجوف	15,827	1288	81.4%	891	69.2%	49	5.5%	12	24.5%
Al Maharah المهرة	1,168	263	225.2%	118	44.9%	25	21.2%	14	56.0%
Al Mahwit المحويت	61,097	1808	29.6%	914	50.6%	54	5.9%	12	22.2%
Amanat Al Asimah أمانة العاصمة	99,452	4798	48.2%	2053	42.8%	488	23.8%	187	38.3%
Amran عمران	102,231	1866	18.3%	635	34.0%	89	14.0%	23	25.8%
Dhamar ذمار	99,766	2615	25.2%	358	14.2%	109	30.4%	23	21.1%
Hajjah حجة	118,468	760	6.4%	176	23.2%	46	26.1%	14	30.4%
Ibb إب	64,536	663	10.3%	439	66.2%	98	22.3%	13	13.3%
Lahj لحج	24,341	1160	47.7%	588	50.7%	44	7.5%	18	40.9%
Marib مارب	7,285	192	26.4%	124	64.6%	2	1.6%	0	0.0%
Moklla المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
Raymah ريمة	16,403	580	35.4%	384	66.2%	32	8.3%	5	15.6%
Sa'ada صعدة	10,703	919	85.9%	752	81.8%	12	1.6%	0	0.0%
Sana'a صنعاء	74,103	2961	40.0%	731	24.7%	273	37.3%	44	16.1%
Say'on سينون	22	21	954.5%	9	42.9%	11	122.2%	0	0.0%
Shabwah شبوة	1,399	127	90.8%	53	41.7%	51	96.2%	9	17.6%
Taizz تعز	62,371	1322	21.2%	940	71.1%	402	42.8%	314	78.1%
Yemen اليمن	1,035,676	27,047	26.1%	11,677	43.2%	2,679	22.9%	1,100	41.1%

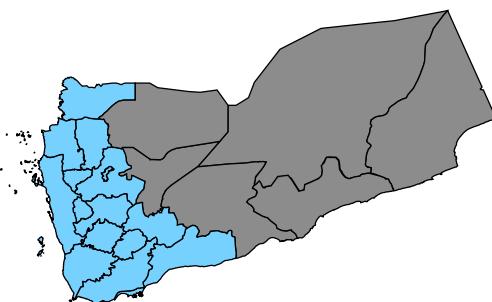
E التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

الخريطة (ا) عدد حالات الاشتباه للمحافظات

Map 1a | Number of cases by governorate (Jan 2017 - Apr 2017)

الخريطة (ب) معدل الاصابة للمحافظات

Map 1b | Attack rate by governorate (Jan 2017 - Apr 2017)

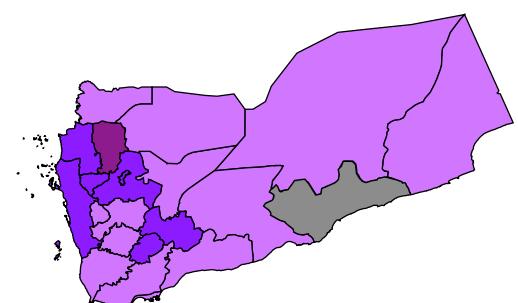
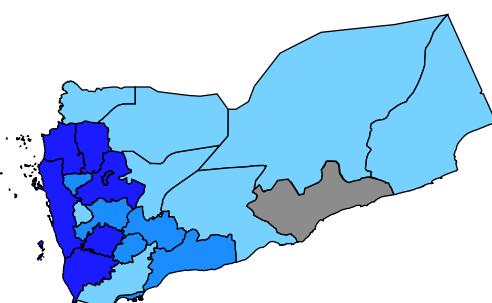


الخريطة (ا) عدد حالات الاشتباه للمحافظات

Map 1c | Number of cases by governorate (Jan 2017 - Jun 2017)

الخريطة (ب) معدل الاصابة للمحافظات

Map 1d | Attack rate by governorate (Jan 2017 - Jun 2017)

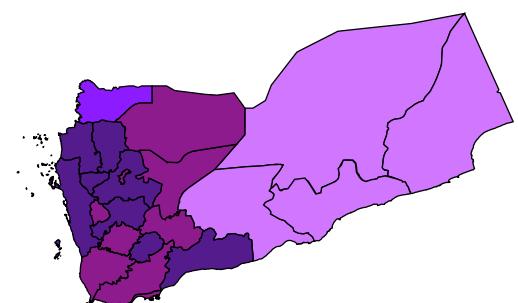
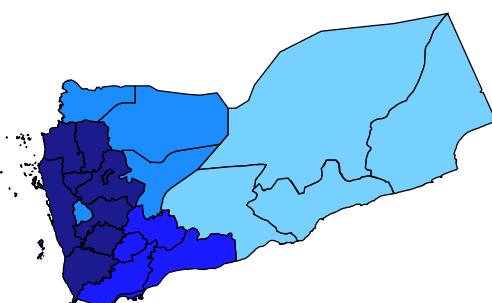


الخريطة (ا) عدد حالات الاشتباه للمحافظات

Map 1e | Number of cases by governorate (Jan 2017 - present)

الخريطة (ب) معدل الاصابة للمحافظات

Map 1f | Attack rate by governorate (Jan 2017 - present)



عدد حالات الكوليرا
Number of cholera cases

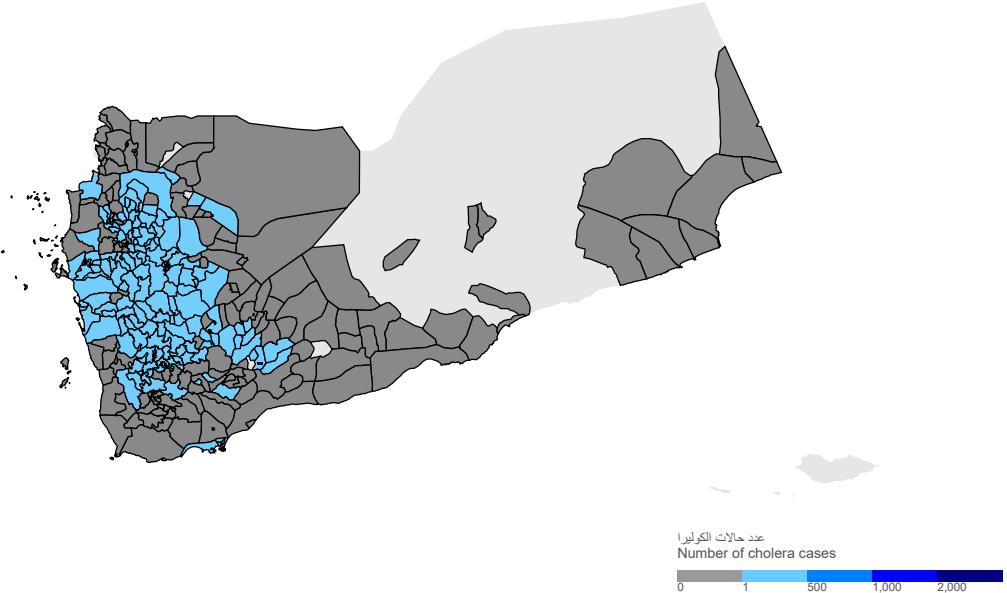


معدل الاصابة لكل 10,000 من السكان
Attack rate (/10,000)

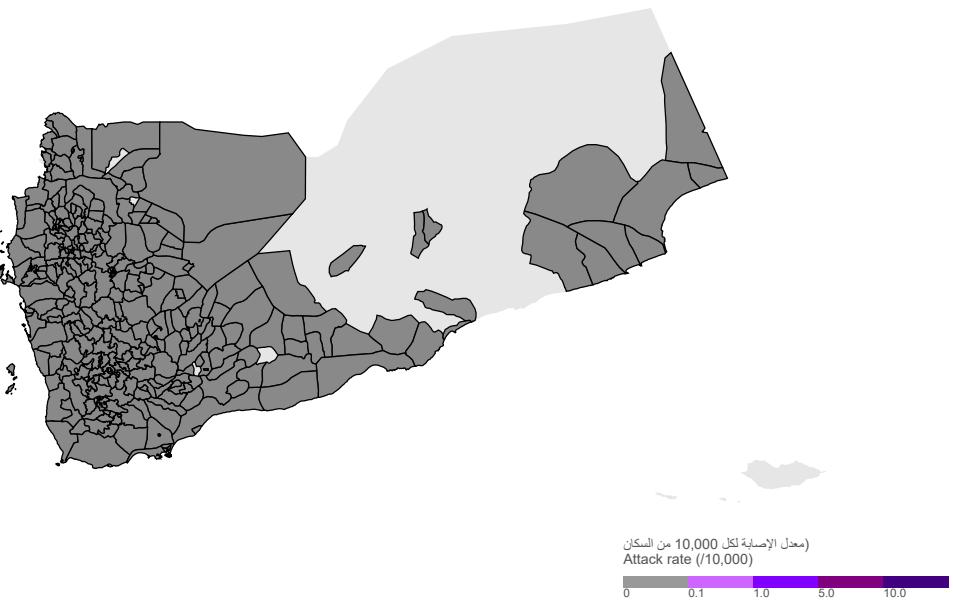


F. المديريات ذات الأولوية Districts reporting in current week

الخريطة (2) (أ) عدد حالات الاشتباه الأولى
Map 2 | Number of cases by district (W2 2018)



الخريطة (3) (ب) معدل الاصابة الأولى
Map 3 | Attack rate by district (W2 2018)



G. المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين

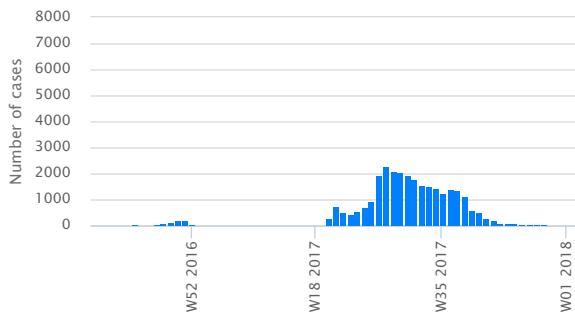


Figure 3c | Al Baydaً البيضاء

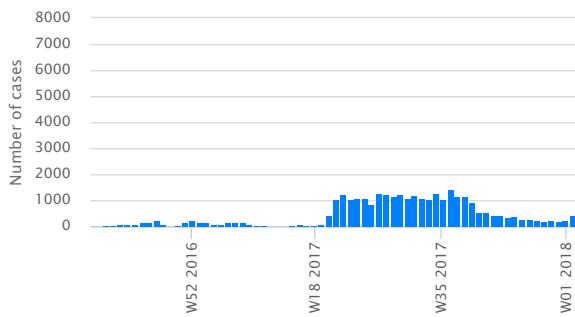


Figure 3e | Al Hudaydah الحديدة

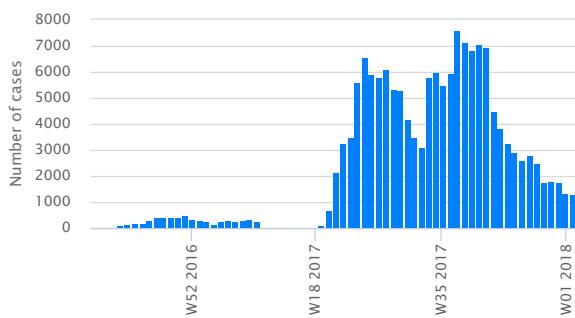


Figure 3g | Al Maharah المهرة

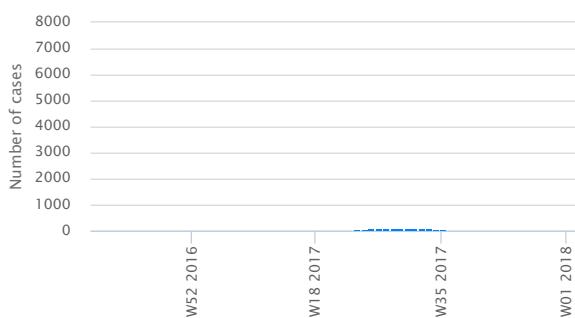


Figure 3b | Aden عدن

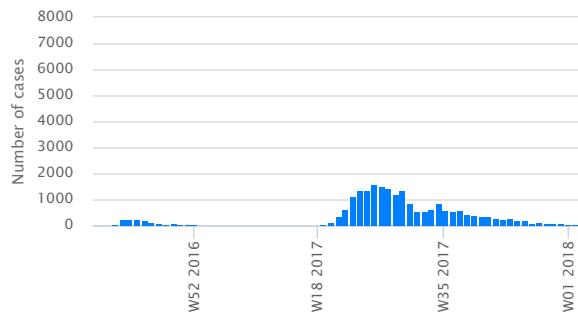


Figure 3d | Al Dhale'e الصالح

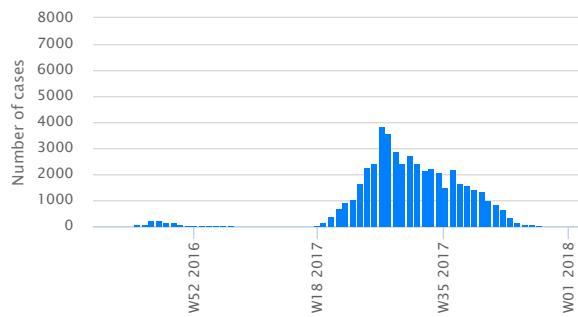


Figure 3f | Al Jawf الجوف

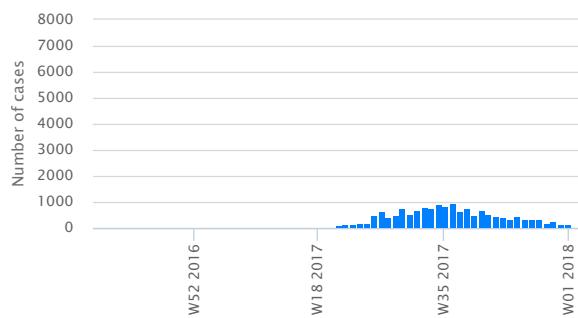


Figure 3h | Al Mahwit المحويت

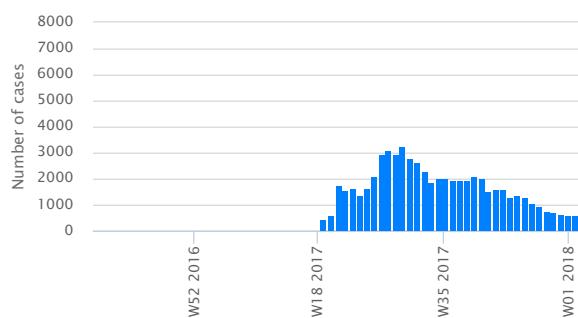


Figure 3i | Amanat Al Asimah أمانة العاصمة

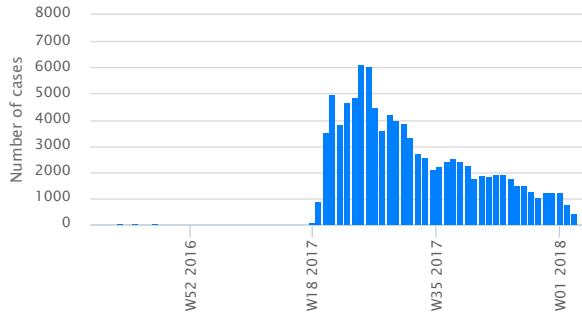


Figure 3k | Dhamar ذمار

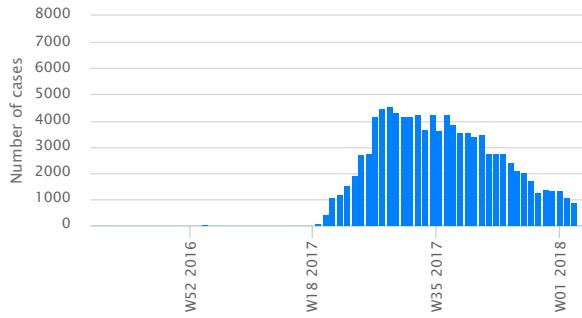


Figure 3m | Ibb إب

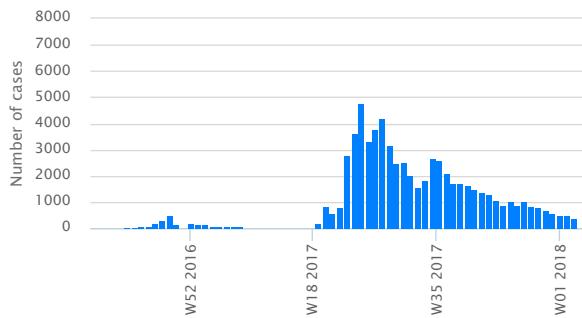


Figure 3o | Marib مارب

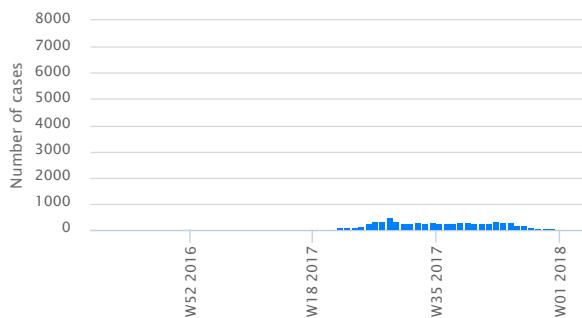


Figure 3j | Amran عمران

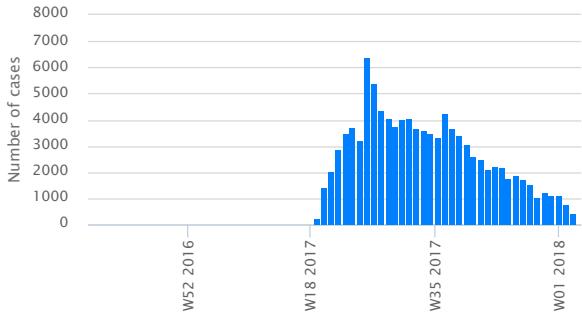


Figure 3l | Hajjah حجة

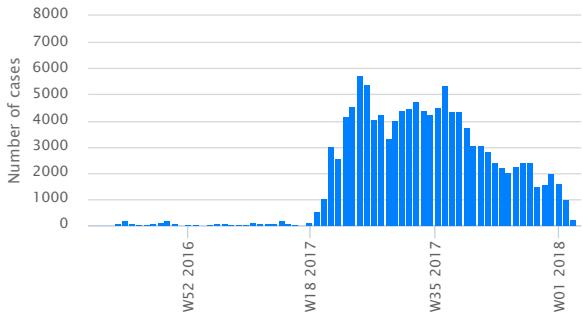


Figure 3n | Lahij لحج

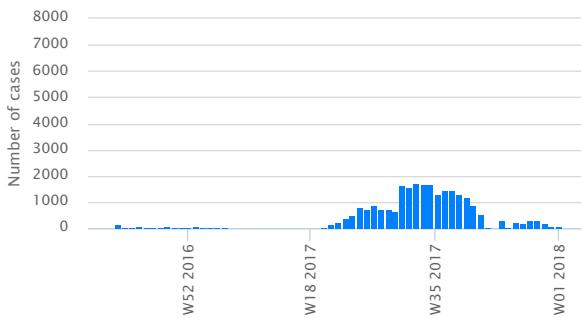


Figure 3p | Raymah ريم

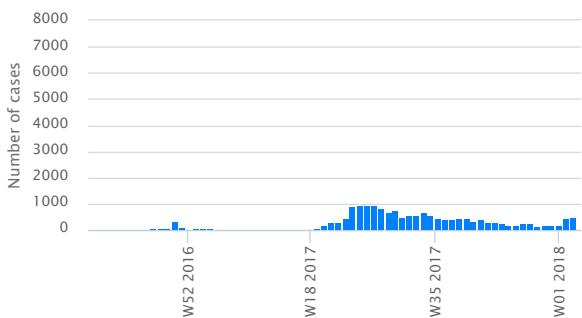


Figure 3q | Sa'ada صعدة

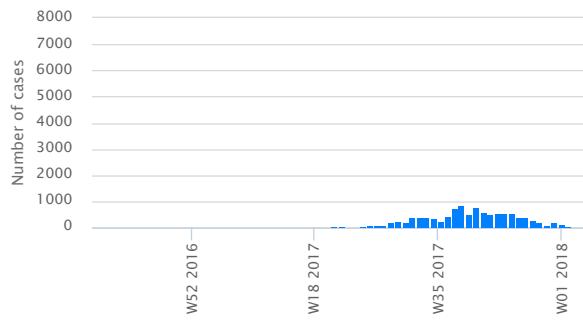


Figure 3s | Say'on سيون

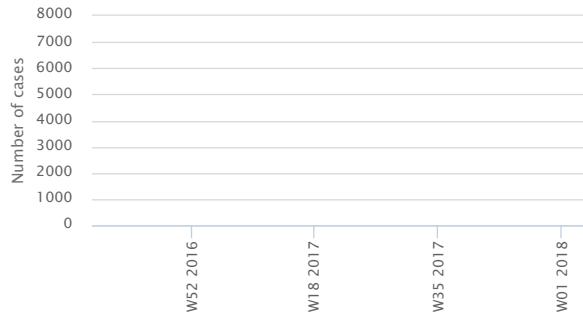


Figure 3v | Taizz تعز

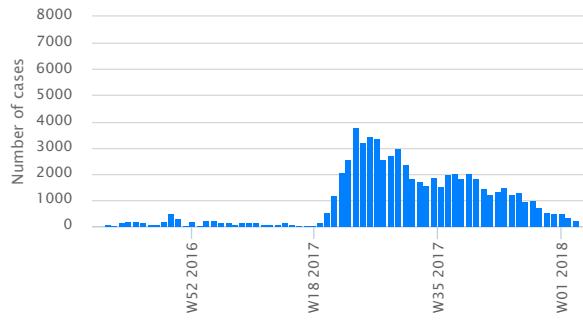


Figure 3r | Sana'a صنعاء

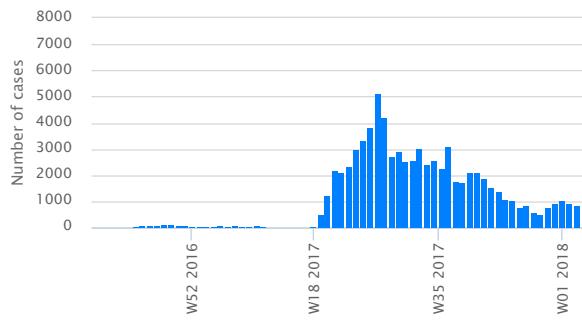
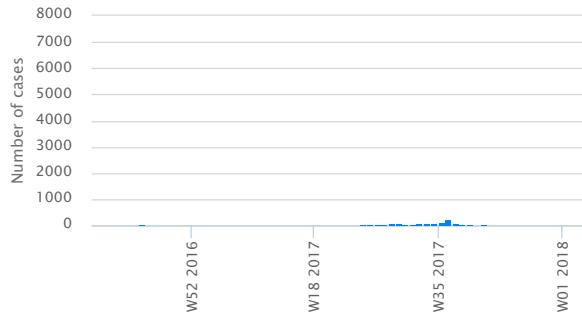


Figure 3t | Shabwah شبوة



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

Sadeq Al-Wesabi
Communications Officer
WHO Country Office
Sana'a, Yemen
Email: hasansa@who.int

Powered by



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 لموباء الكوليرا في اليمن

تم التوفير بتاريخ 10 يوليو 2017 لتعزيز الترصد والاستجابة لموباء الكوليرا في اليمن

<http://ye.ewars.ws/login>



World Health Organization