



اليمن Yemen

الاستجابة للكوليرا Cholera Response

برنامج الترصد الإلكتروني للأمراض

Electronic Disease Early Warning System (eDEWS)

الفترة الوبائية الأسبوعية

Weekly Epidemiological Bulletin

W15 2018 (Apr 09-Apr 15)

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Highlights

Cumulative figures

-The cumulative total from 27 April 2017 to 15 April 2018 is 1,090,280 suspected cholera cases and 2,275 associated deaths, (CFR 0.21%), 1115 have been confirmed by culture.

- The total proportion of severe cases among the suspected cases is 15.3%

- The national attack rate is 389.8 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (905), Al Mahwit (882), Al Dhale'e (639), Sana'a (528) and Dhamar (527).

- Children under 5 years old represent 28.8% of total suspected cases.

- In total, 42,793 rapid diagnostic tests (RDT).

- 3,056 cultures have been performed which represents 22% coverage.

- The last positive culture was on 3 April 2018 in Ma'ain district in Amanat Al Asimah

- Since 1st of Jan 2018 the districts with highest cumulative suspected cases are Al Hali (4482), Maqbanah (1,809), Radman Al Awad (1,753), Al Sabaeen (1,689), Al Mighlaf (1,506)

- 148 districts are still reporting suspected cholera cases since last 3 weeks

- 157 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 W12 –W14 decrease or was stable in all governorates, except Amran +22% and Ibb +17%.

Trends

- The trend of weekly number of cases is decreasing since week 36.

- The weekly proportion of severe cases has significantly decreased (now 14%).

Week 15 2018

- 1,942 suspected cases and 2 associated deaths were reported

- The districts reporting the highest number of cases are Al Hali (149), Radman Al Awad (120), Dhamar City (107), Al Mighlaf (101).

- 14 % are severe cases

- 1,941 RDTs were performed, 194 were positive

- no culture results received this week

A. ملخص المؤشرات Summary indicators



Cholera Response | Cumulative figures from 27/04/2017 to 15/4/2018

1,090,280

حالات الاشتباه
Suspected cases

حالة الاشتباه في
الاسبوع الحالي
1,942 suspected cases
in current week

2,275

الوفيات
Associated deaths

حالة وفاة في
الاسبوع الحالي
2 associated deaths
in current week

0.21%

معدل الاماته بين الحالات
Case Fatality Rate

96%

المحافظات المتأثرة بالوباء
Governorates
affected

(23 / 22 محافظة)
(22 / 23 governorates)

92%

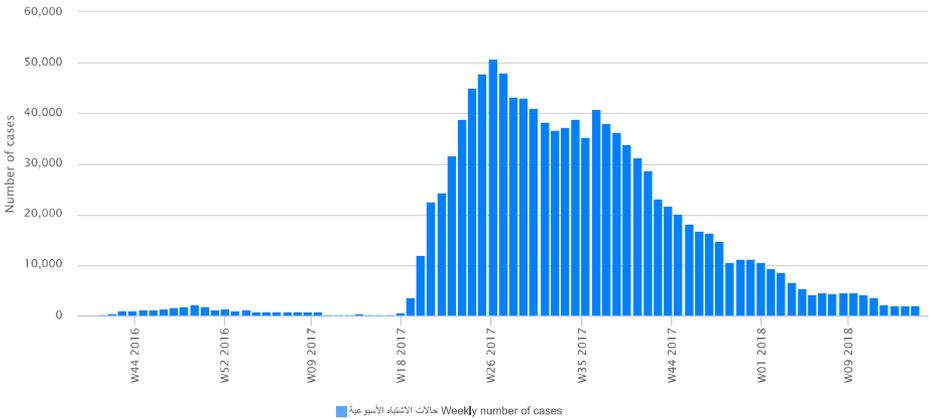
المديريات المتأثرة بالوباء
Districts
affected

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

B. المنحنى الوبائي Epidemic curve

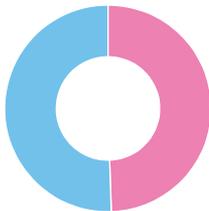
الشكل (1) المنحنى الوبائي على المستوى الوطني

Figure 1 | Epidemic curve (Country)



الشكل (2 أ) حالات الكوليرا على مستوى الجنس

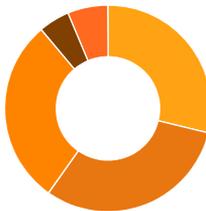
Figure 2a Cases by sex (Cumul.)



♂ Male (52% ; n = 35,182)
♀ Female (48% ; n = 32,821)

الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية

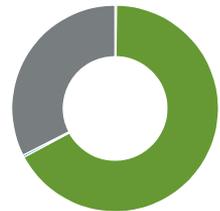
Figure 2b Cases by age (Cumul.)



< 5 (28,8% ; n = 311,130)
5-17 (29,1% ; n = 313,466)
18-44 (30,9% ; n = 333,744)
45-59 (6,3% ; n = 67,983)
≥ 60 (4,9% ; n = 52,704)

الشكل (2 ج) حالات الكوليرا بالنسبة لمحة المرضى

Figure 2c Cases by outcome (Cumul.)



Discharged (67,13% ; n = 731,915)
Referred (0,32% ; n = 3,497)
Died (0,21% ; n = 2,275)
Unknown غير معرف (32,55% ; n = 354,868)

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

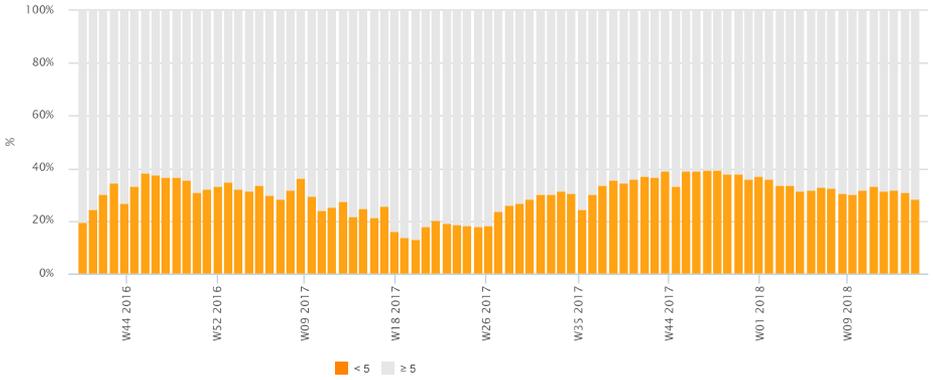
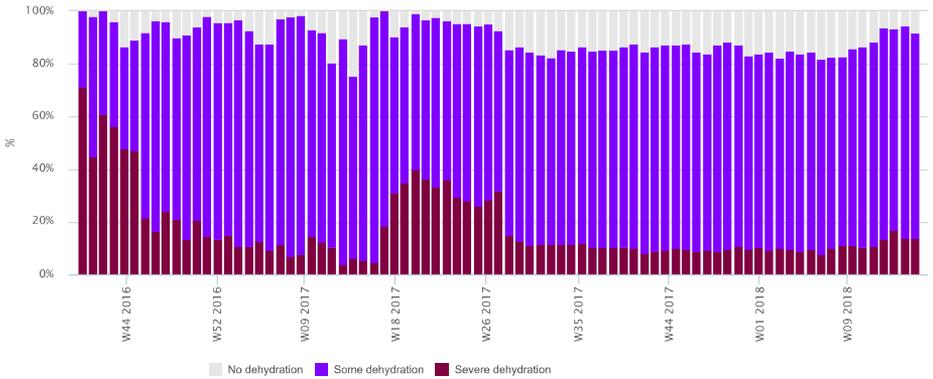


Figure 2e | Trend in proportion of cases by dehydration status¹



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. المحافظة Key indicators by governorate

جدول (1) خلاصة بالموشرات الرئيسية بالسياسة للمحافظات

Table 1 | Summary of key cholera indicators by Governorate

المحافظات Governorate	تراكمي Cumulative (27/04/2017 to 15/4/2018)	الاتجاه 3 اسابيع 3 week trend								
		حالات الاصابة Cases	الوفيات Deaths	معدل الامانة CFR ¹	السكان Population	معدل الإصابة AR ²	أسابيع -3 -3W	أسابيع -2 -2W	أسابيع -1 -1W	الأسبوع الحالي W
عمران Amran	105,461	180	0.17%	1,164,377	905.73	128	112	165	167	▲ +22%
المحوت Al Mahwit	64,942	151	0.23%	736,022	882.34	119	128	139	158	▶ 8%
الضالع Al Dhale'e	47,164	82	0.17%	737,964	639.11	1	9	3	2	▼ -31%
صنعاء Sana'a	78,125	123	0.16%	1,478,322	528.47	87	99	100	69	▶ 5%
ذمار Dhamar	107,018	162	0.15%	2,027,637	527.80	542	390	329	322	▼ -22%
حجة Hajjah	121,350	423	0.35%	2,362,922	513.56	7	10	12	2	▲ +24%
أبين Abyan	28,243	35	0.12%	574,483	491.62	0	0	0	0	■ Interrupt
الحديدة Al Hudaydah	159,876	284	0.18%	3,261,027	490.26	357	408	395	445	▶ 2%
البيضاء Al Bayda	33,779	38	0.11%	762,614	442.94	408	436	424	393	▶ 0%
أمانة Al Asimah	107,360	72	0.07%	2,867,904	374.35	399	247	265	213	▼ -13%
ريمة Raymah	18,585	120	0.65%	611,285	304.03	19	16	18	25	▶ 2%
الجوف Al Jawf	16,161	22	0.14%	581,742	277.80	4	0	0	0	▼ -100%
لحج Lahj	24,344	22	0.09%	1,014,527	239.95	0	0	0	0	■ Interrupt
إب Ibb	69,778	291	0.42%	2,974,746	234.57	49	72	77	69	▲ +17%
عدن Aden	20,993	62	0.30%	932,415	225.15	0	0	0	0	■ Interrupt
تعز Taizz	65,933	190	0.29%	3,015,336	218.66	72	67	63	77	▶ -6%
مأرب Marib	7,296	7	0.10%	361,504	201.82	0	0	0	0	■ Interrupt
صعدة Sa'ada	10,712	5	0.05%	919,667	116.48	0	0	0	0	■ Interrupt
المهرة Al Maharah	1,169	1	0.09%	150,213	77.82	0	1	0	0	▼ -100%
شبابوة Shabwah	1,399	3	0.21%	608,132	23.00	0	0	0	0	■ Interrupt
المكلا Mokla	568	2	0.35%	444,403	12.78	0	0	0	0	■ Interrupt
سيئون Say'on	24	0	0.00%	379,294	0.63	0	0	0	0	■ Interrupt
اليمن Yemen	1,090,280	2,275	0.21%	27,966,537	389.85	2,192	1,995	1,990	1,942	▶ -3%

¹ معدل الإماتة بين الحالات

² معدل الإصابة لكل 10,000 من السكان

تم حساب المتوسط بناءً على متوسط عدد الحالات خلال ثلاثة أسابيع سابقة

(لم يتم تضمين الأسبوع الحالي في حساب المتوسط بسبب عدم اكتمال البيانات)

¹ Case Fatality Rate

² Attack Rate (/10,000 population)

³ Trend based on average number of cases in previous 3 weeks (current week excluded due to incomplete data)

▲ متزايد	غير معدل > +10%
▶ مستقر	غير معدل > -10% to < +10%
▼ متناقص	غير معدل ≤ -10%
■ انقطاع في الإرسال	عدد 0 حالة خلال 3 أسابيع 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

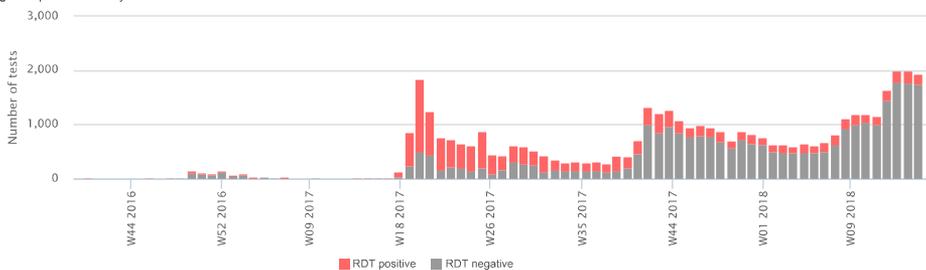


Figure 5 | Rapid Diagnostic Kit (RDT)

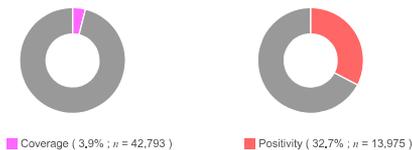


Figure 6 | Culture



*Coverage of RDT is calculated based on (Number of RDT performed/Number of suspected cases)

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

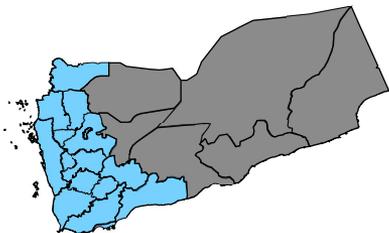
Table 2 | Summary of key laboratory indicators by Governorate

Governorate	Rapid Diagnostic Kit (RDT)					Culture			
	Cases	Total tested	Coverage	Total +ve	+ivity rate	Total tested	Coverage	Total +ve	+ivity rate
أبين Abin	28,243	239	8.5%	152	63.6%	39	25.7%	23	59.0%
أدن Aden	20,993	587	28.0%	366	62.4%	173	47.3%	118	68.2%
البيضاء Al Bayda	33,779	3753	111.1%	1010	26.9%	194	19.2%	9	4.6%
الحدائق Al Dhale'e	47,164	374	7.9%	134	35.8%	43	32.1%	3	7.0%
الحديدة Al Hudaydah	159,876	6439	40.3%	1514	23.5%	549	36.3%	235	42.8%
الجوف Al Jawf	16,161	1525	94.4%	924	60.6%	72	7.8%	12	16.7%
المهرة Al Maharah	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%
المحويت Al Mahwit	64,942	2773	42.7%	1105	39.8%	146	13.2%	13	8.9%
أمانة العاصمة Amanat Al Asimah	107,360	7592	70.7%	2540	33.5%	496	19.5%	192	38.7%
عمران Amran	105,461	3148	29.8%	824	26.2%	109	13.2%	23	21.1%
ذمار Dhamar	107,018	5449	50.9%	572	10.5%	127	22.2%	23	18.1%
حجة Hajjah	121,350	827	6.8%	202	24.4%	46	22.8%	14	30.4%
إب Ibb	69,778	1100	15.8%	571	51.9%	108	18.9%	13	12.0%
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 Mokla	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
ريمة Raymah	18,585	686	36.9%	410	59.8%	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	78,125	3866	49.5%	911	23.6%	315	34.6%	45	14.3%
سيئون 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%
تعز Taizz	65,933	1638	24.8%	1011	61.7%	402	39.8%	314	78.1%
اليمن Yemen	1,090,280	42,793	39.2%	13,975	32.7%	3,056	21.9%	1,115	36.5%

E. التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

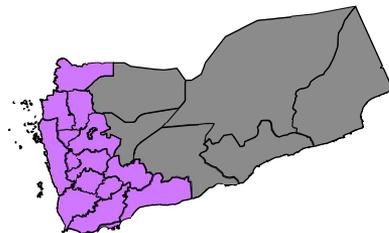
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



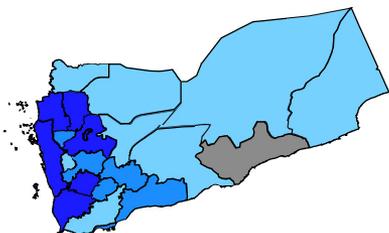
الخريطة (1 ب) معدل الإصابة للمحافظات

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



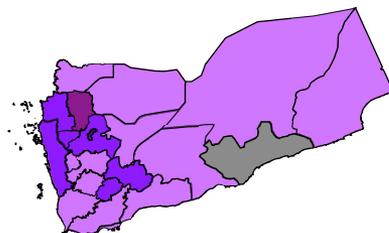
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



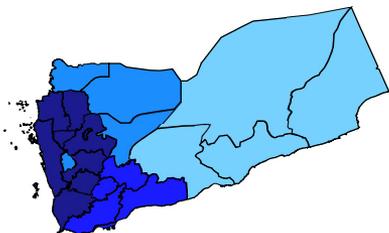
الخريطة (1 ب) معدل الإصابة للمحافظات

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



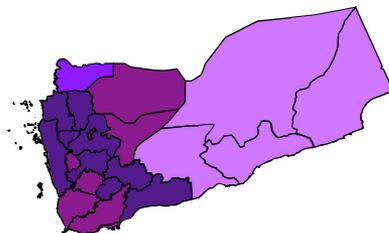
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



الخريطة (1 ب) معدل الإصابة للمحافظات

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



عدد حالات الكوليرا

Number of cholera cases



معدل الإصابة لكل 10,000 من السكان

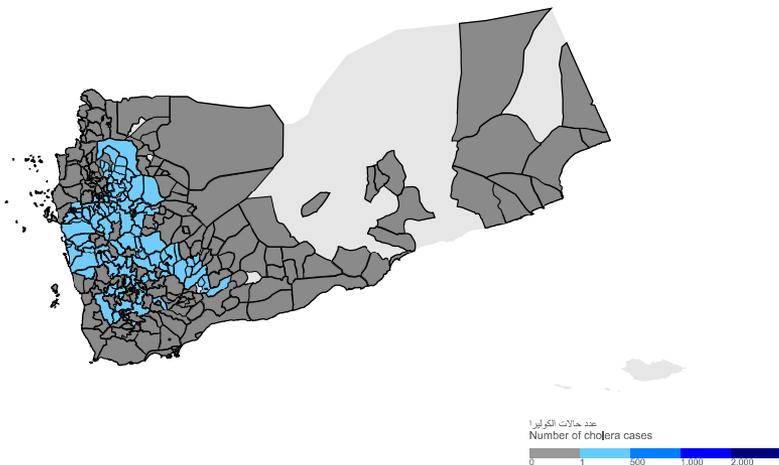
Attack rate (/10,000)



F. المديریات ذات الأولوية Districts reporting in current week

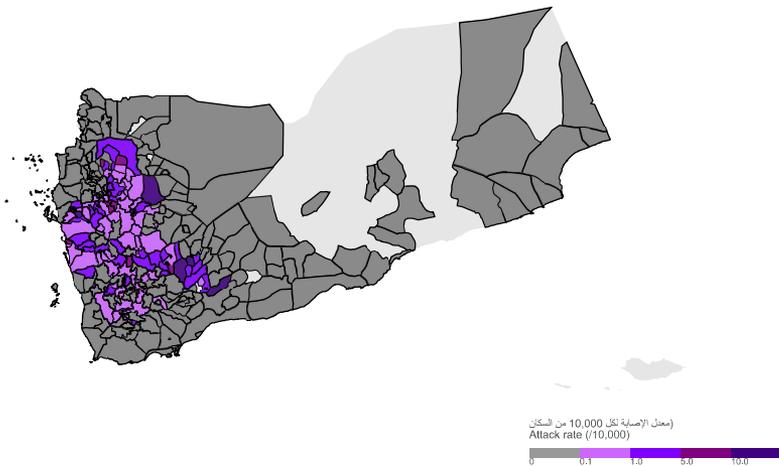
الخريطة (2) عدد حالات الإصابة الأولية

Map 2 | Number of cases by district (W15 2018)



الخريطة (3) معدل الإصابة الأولية

Map 3 | Attack rate by district (W15 2018)



G. المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين

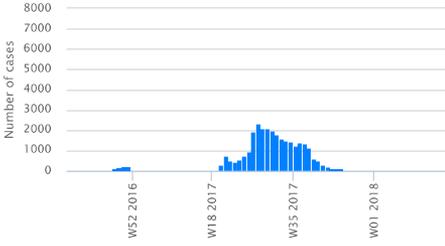


Figure 3b | Aden عدن

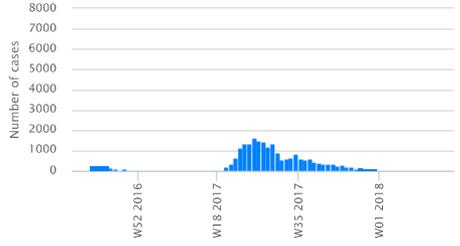


Figure 3c | Al Bayda البيضاء

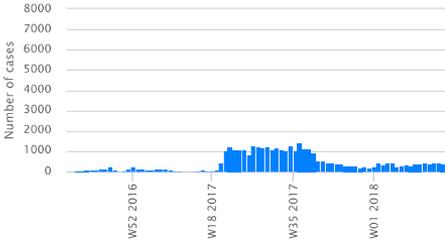


Figure 3d | Al Dhale'e الضالع

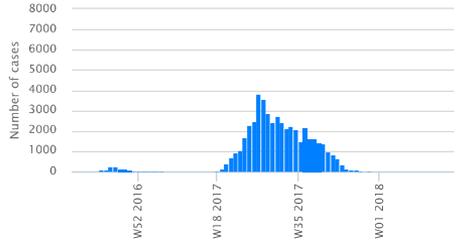


Figure 3e | Al Hudaydah الحديدة

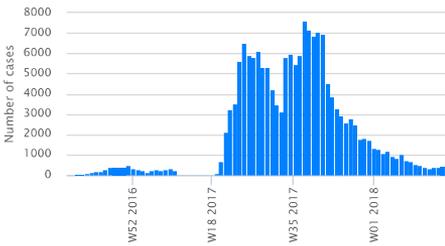


Figure 3f | Al Jawf الجوف

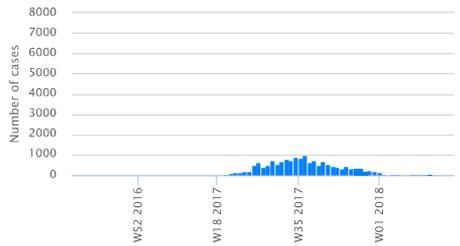


Figure 3g | Al Maharah المهرة

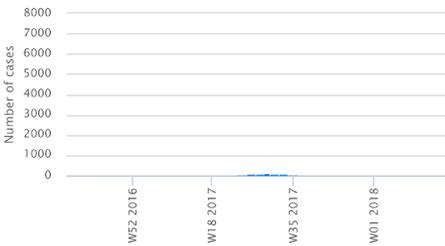


Figure 3h | Al Mahwit المحويت

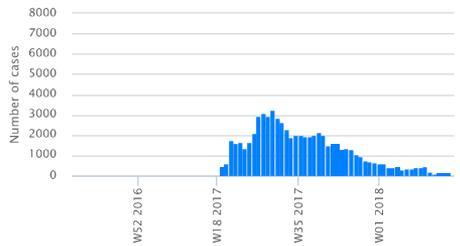


Figure 3i | Amanat Al Asimah | أمانة العاصمة

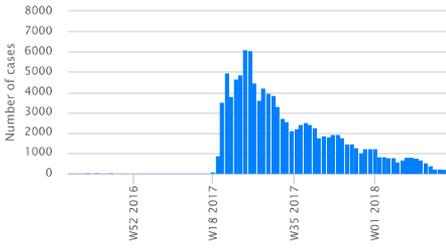


Figure 3j | Amran | عمران

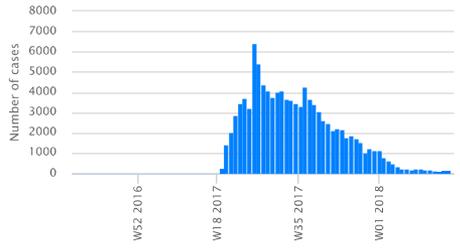


Figure 3k | Dhamar | ذمار

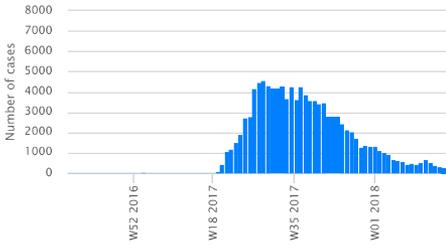


Figure 3l | Hajjah | حجة

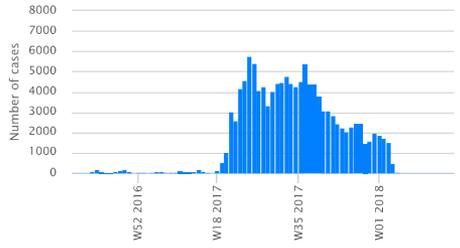


Figure 3m | Ibb | إب

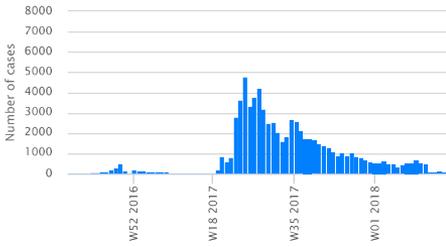


Figure 3n | Lahj | لاهج

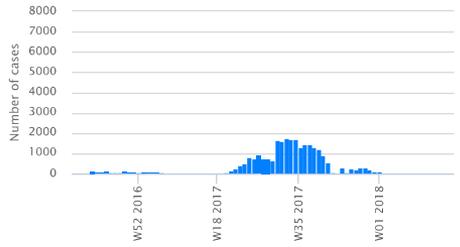


Figure 3o | Marib | مارب

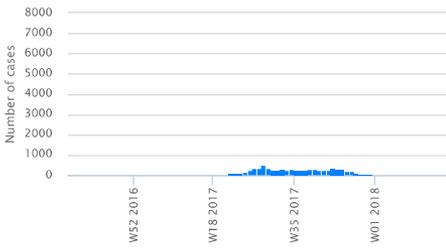


Figure 3p | Raymah | ريمة

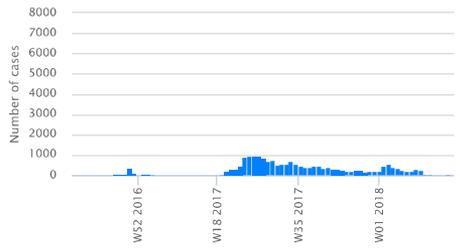


Figure 3q | Sa'ada صنعَة

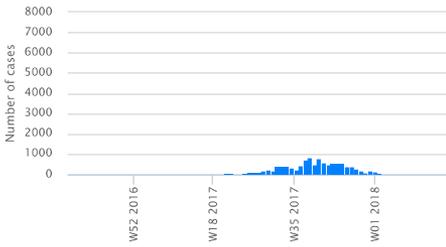


Figure 3r | Sana'a صنعَة

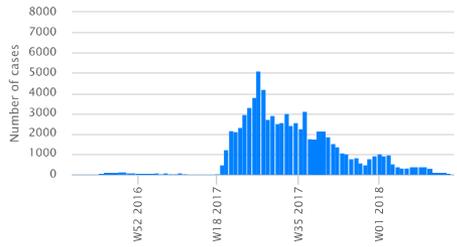


Figure 3s | Say'on سَيُون

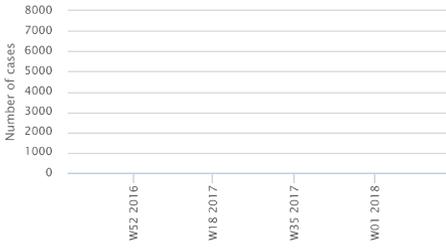
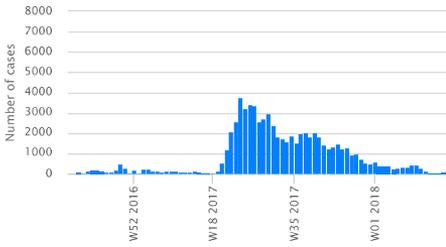


Figure 3t | Shabwah شَبْوَة



Figure 3v | Taizz تَعِز



للتواصل
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<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
الكوليرا في اليمن <http://ye.ewars.ws/login>

