



اليمن Yemen

الاستجابة للكوليرا Cholera Response

برنامج الترصد الالكتروني للأمراض

Electronic Disease Early Warning System (eDEWS)

النشرة الوبائية الأسبوعية

Weekly Epidemiological Bulletin

W7 2018 (Feb 12-Feb 18)

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المديرية ذات الأولوية هـ.

المنحنى الوبائي حسب المحافظة هـ.

Highlights

Cumulative figures

- The cumulative total from 27 April 2017 to 18 Feb 2018 is 1,063,786 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 383.5 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (895), Al Mahwit (861), Al Dhale'e (644), Hajjah (520) and Sana'a (518).
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 30,305 rapid diagnostic tests (RDT) have been performed which represents 28 % coverage.
- 2,763 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
- 174 districts are still reporting suspected cholera cases since last 3 weeks
- 132 districts (out of 306 affected districts) did not report any suspected cases for the last three consecutive weeks

Governorate and District level

- At governorate level, the trend from W5 –W7 decrease or was stable in all governorates

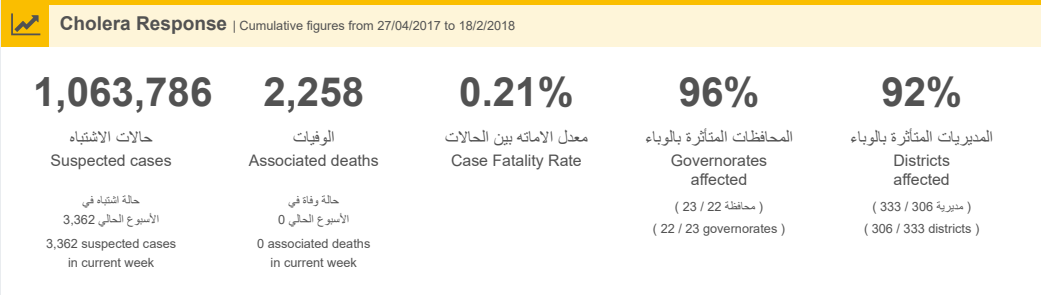
Trends

- The weekly number of cases is decreasing for the 23 consecutive weeks.
- The weekly proportion of severe cases has significantly decreased representing now 11% of the admitted cases.

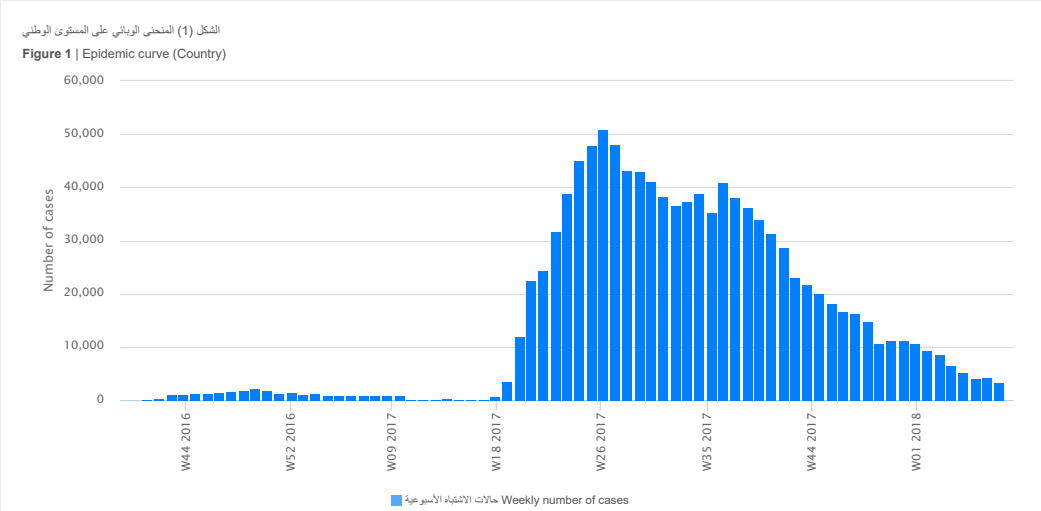
Week 7 2018

- 3,362 suspected cases and 0 associated deaths were reported
- 11 % are severe cases
- 731 RDTs were performed, 151 were positive
- No culture test was performed this week

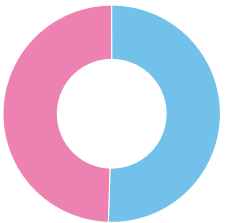
A. ملخص المؤشرات Summary indicators



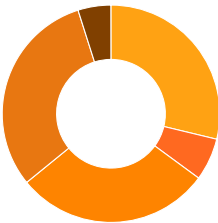
B. المنحنى الوبائي Epidemic curve



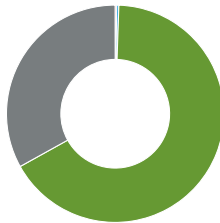
الشكل (2 أ) حالات الكوليرا على مستوى الجنس
Figure 2a Cases by sex (Cumul.)



الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية
Figure 2b Cases by age (Cumul.)



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



Trends in cases by age distribution and dehydration status

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

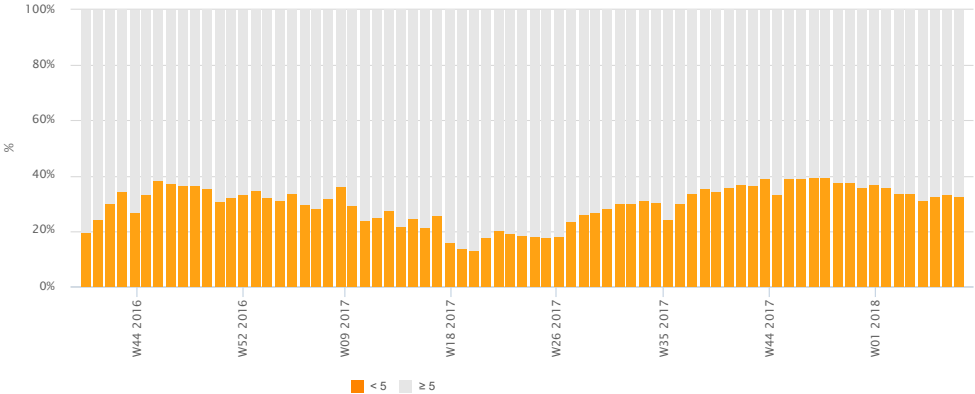
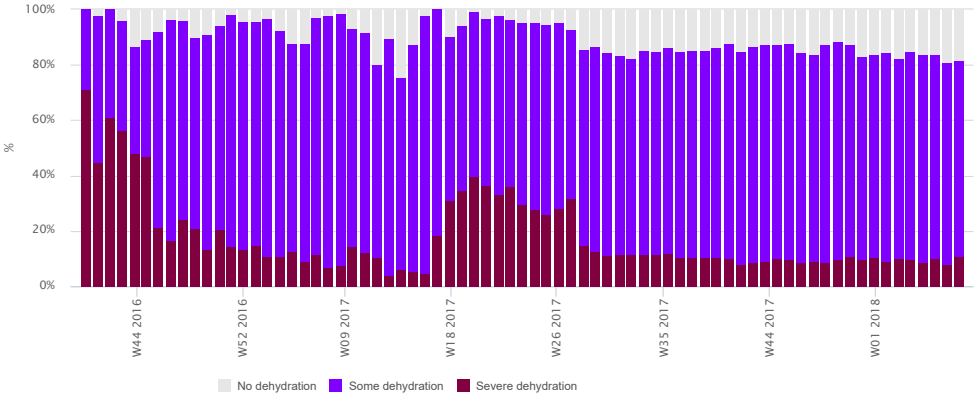


Figure 2e | Trend in proportion of cases by dehydration status¹



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. Key indicators by governorate

جدول (1) خلاصة بالمؤشرات الرئيسية بالنسبة للمحافظات
Table 1 | Summary of key cholera indicators by Governorate

المحافظات Governorate	تراكمي Cumulative (27/04/2017 to 18/2/2018)	الاتجاه 3 أسابيع 3 week trend								
		حالات الإسهال Cases	الوفيات Deaths	معدل الإصابة CFR ¹	السكان Population	معدل الإصابة AR ²	أسابيع -3 -3W	أسابيع -2W -2W	أسابيع -1W -1W	الأسبوع الحالي W
عمران Amran	103,965	176	0.17%	1,160,559	895.82	360	271	260	140	▼ -12%
Al Mahwit المحويت	62,887	151	0.24%	730,209	861.22	425	280	324	275	► -6%
Al Dhale'e الضالع	47,136	81	0.17%	731,496	644.38	0	3	0	1	▼ -100%
Hajjah حجة	121,287	422	0.35%	2,329,741	520.60	29	1	3	0	▼ -73%
Sana'a صنعاء	76,250	123	0.16%	1,470,346	518.59	400	351	329	389	► -9%
Dhamar ذمار	103,214	161	0.16%	2,012,264	512.92	699	651	582	437	▼ -10%
Abyan أبين	28,243	35	0.12%	570,832	494.77	0	0	2	0	▲ +200%
Al Hudaydah الحديدة	155,908	282	0.18%	3,238,199	481.47	942	826	1,005	522	► 9%
Al Bayda البيضاء	30,568	36	0.12%	759,388	402.53	448	267	289	290	▼ -14%
Amanat Al Asimah أمانة العاصمة	103,184	71	0.07%	2,827,824	364.89	793	568	692	489	► 1%
Raymah ريمة	17,841	120	0.67%	606,776	294.03	344	224	202	191	▼ -21%
Al Jawf الجوف	16,018	22	0.14%	578,585	276.85	64	21	12	49	▼ -63%
Lahj لحج	24,342	22	0.09%	1,008,864	241.28	0	1	0	0	▼ -100%
Aden عدن	20,966	62	0.30%	922,996	227.15	21	24	22	12	► -1%
Ibb إب	67,129	288	0.43%	2,957,138	227.01	513	320	433	461	► 3%
Taizz تعز	63,696	188	0.30%	2,998,300	212.44	242	163	129	103	▼ -28%
Marib مارب	7,288	7	0.10%	358,542	203.27	1	0	0	2	▼ -100%
Sa'ada صعدة	10,706	5	0.05%	905,145	118.28	1	0	0	0	▼ -100%
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	0	0	0	0	■ Interrupt
Mokila المكلا	569	2	0.35%	440,972	12.90	0	0	0	1	■ Interrupt
Say'on سيئون	22	0	0.00%	376,237	0.58	0	0	0	0	■ Interrupt
Yemen اليمن	1,063,786	2,258	0.21%	27,737,134	383.52	5,282	3,971	4,284	3,362	► -5%

¹ معدل الإماتة بين الحالات

² معدل الإصابة لكل 10,000 من السكان

³ تم حساب المضيء بناء على متوسط عدد الحالات خلال ثلاثة أسابيع سابقة
(لم يتم تضمين الأسبوع الحالي في حساب المضيء بسبب عدم اكتمال البيانات)

▲ مضيء مرتفع	غير بمعدل $\geq +10\%$
► مضيء مستقر	غير بمعدل $> -10\%$ to $< +10\%$
▼ مضيء منخفض	غير بمعدل $\leq -10\%$
■ انقطاع في الإرسال	عدد 0 حالة خلال 3 أسابيع متتالية

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)

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

Figure 4 | RDT results by week

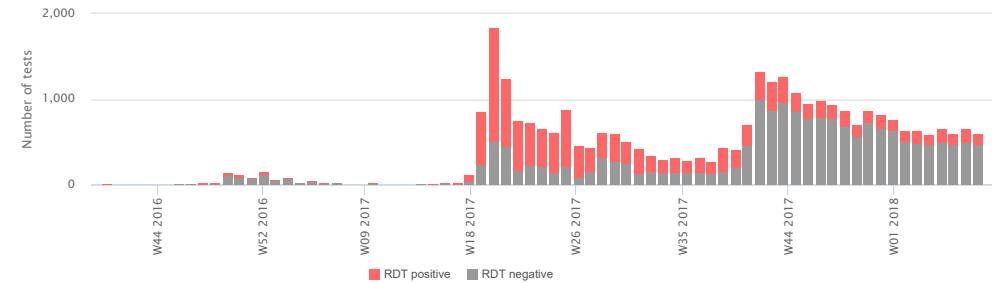
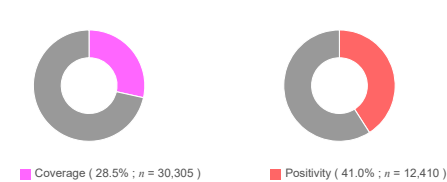
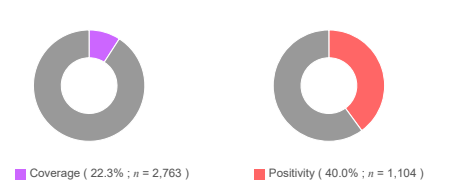


Figure 5 | Rapid Diagnostic Kit (RDT)



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

Figure 6 | Culture



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

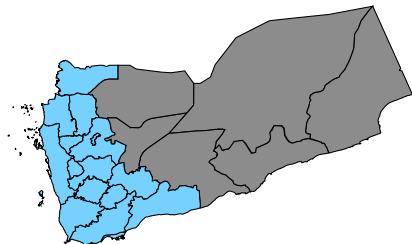
Table 2 | Summary of key laboratory indicators by Governorate

Governorate	Rapid Diagnostic Kit (RDT)					Culture				
	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate	
Abyan أبين	28,243	239	8.5%	152	63.6%	39	25.7%	23	59.0%	
Aden عدن	20,966	586	28.0%	365	62.3%	173	47.4%	118	68.2%	
Al Bayda البيضاء	30,568	1966	64.3%	838	42.6%	194	23.2%	9	4.6%	
Al Dhale'e الضالع	47,136	348	7.4%	126	36.2%	42	33.3%	3	7.1%	
Al Hudaydah الحديدة	155,908	3283	21.1%	1152	35.1%	393	34.1%	227	57.8%	
Al Jawf الجوف	16,018	1453	90.7%	913	62.8%	63	6.9%	12	19.0%	
Al Maharah المهرة	1,168	263	225.2%	118	44.9%	25	21.2%	14	56.0%	
Al Mahwit المحويت	62,887	2013	32.0%	978	48.6%	60	6.1%	13	21.7%	
Amnat Al Asimah امنة العاصمة	103,184	5472	53.0%	2241	41.0%	491	21.9%	190	38.7%	
Amran عمران	103,965	2235	21.5%	685	30.6%	108	15.8%	23	21.3%	
Dhamar ذمار	103,214	3191	30.9%	425	13.3%	127	29.9%	23	18.1%	
Hajjah حجة	121,287	767	6.3%	178	23.2%	46	25.8%	14	30.4%	
Ibb إب	67,129	735	10.9%	485	66.0%	99	20.4%	13	13.1%	
Lahj لحج	24,342	1160	47.7%	588	50.7%	44	7.5%	18	40.9%	
Marib مارب	7,288	192	26.3%	124	64.6%	2	1.6%	0	0.0%	
Mokila المكلا	569	106	186.3%	80	75.5%	55	68.8%	32	58.2%	
Raymah ريمة	17,841	592	33.2%	387	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%	
Sana'a صنعاء	76,250	3282	43.0%	808	24.6%	294	36.4%	44	15.0%	
Say'on سيئون	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	63,696	1354	21.3%	953	70.4%	402	42.2%	314	78.1%	
Yemen اليمن	1,063,786	30,305	28.5%	12,410	41.0%	2,763	22.3%	1,104	40.0%	

E. Geographic distribution over time

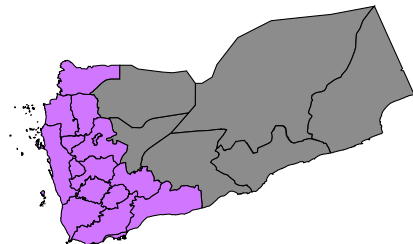
الخريطة (1 أ) عدد حالات الإصابة للمحافظات

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



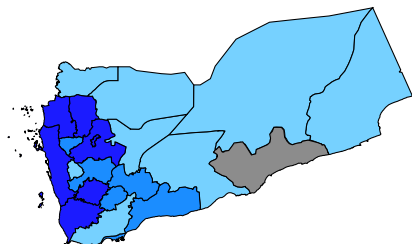
الخريطة (1 ب) معدل الإصابة للمحافظات

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



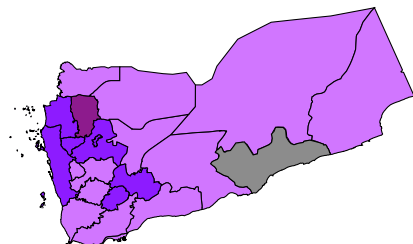
الخريطة (1 أ) عدد حالات الإصابة للمحافظات

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



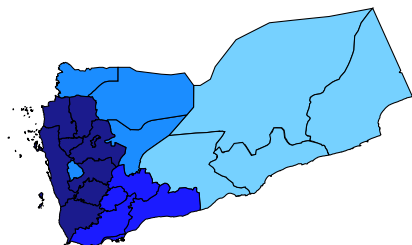
الخريطة (1 ب) معدل الإصابة للمحافظات

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



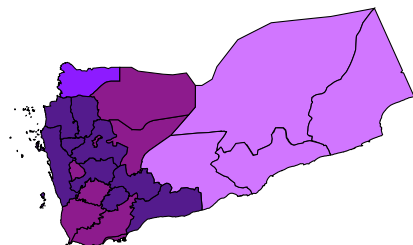
الخريطة (1 أ) عدد حالات الإصابة للمحافظات

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

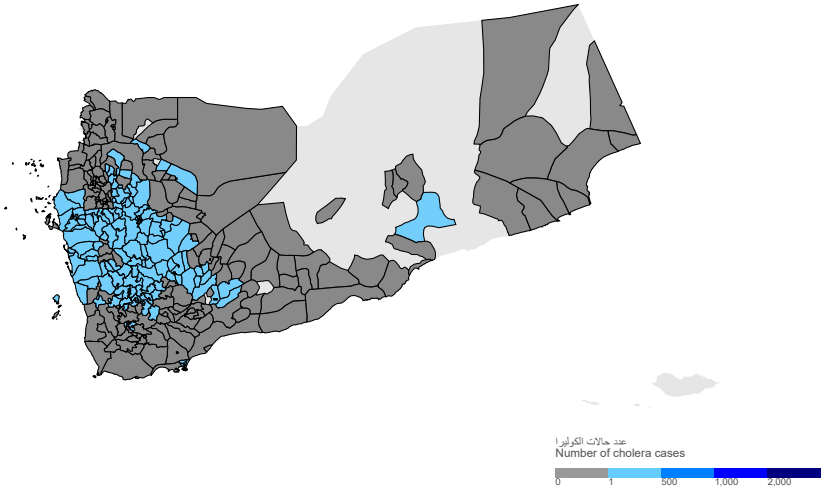


معدل الإصابة لكل 10,000 من السكان
Attack rate (/10,000)

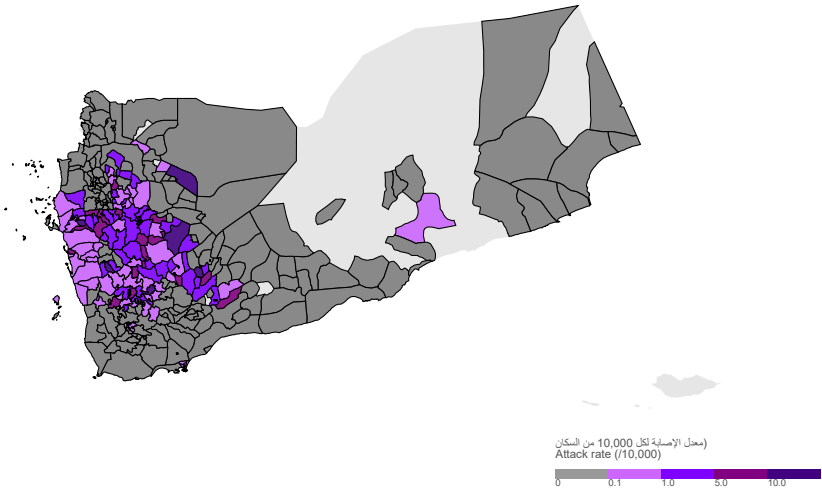


F. المديريات ذات الأولوية Districts reporting in current week

الخريطة (2) أ) عدد حالات الإصابة الأولية
Map 2 | Number of cases by district (W7 2018)



الخريطة (3) ب) معدل الإصابة الأولية
Map 3 | Attack rate by district (W7 2018)



G. المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | أبين Abyan

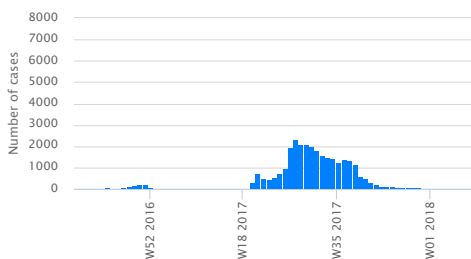


Figure 3b | عدن Aden

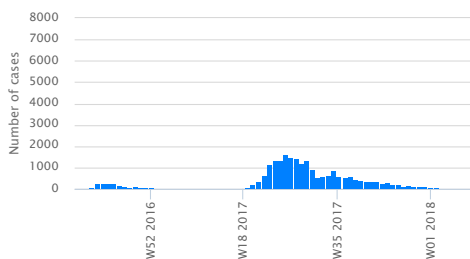


Figure 3c | البوذية Al Bayda

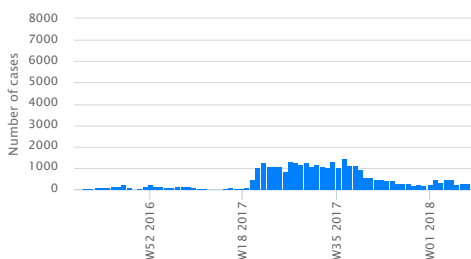


Figure 3d | الذليع Al Dhale'e

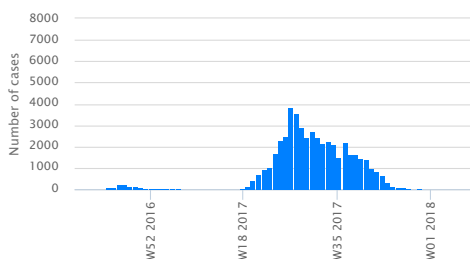


Figure 3e | الحديدة Al Hudaydah

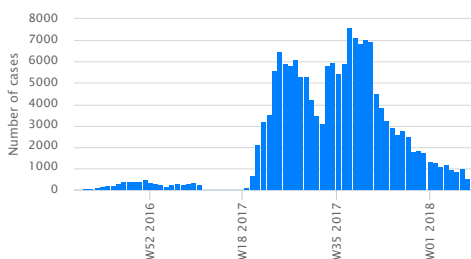


Figure 3f | الجوف Al Jawf

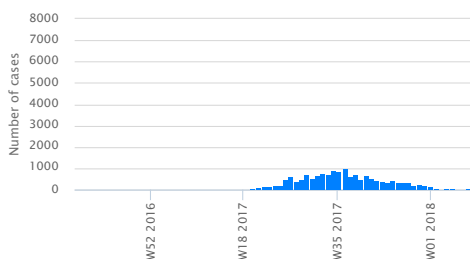


Figure 3g | المهرة Al Maharah

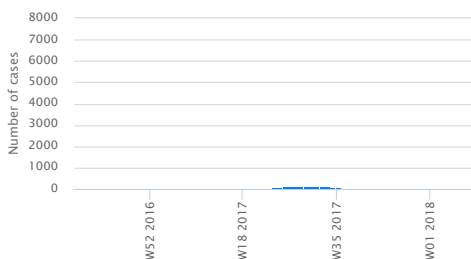


Figure 3h | المحويت Al Mahwit

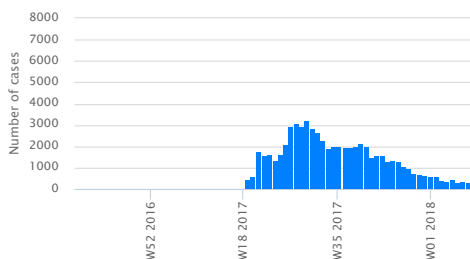


Figure 3i | Amanat Al Asimah أمانة العاصمة

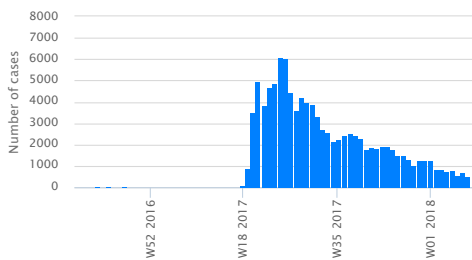


Figure 3j | Amran عمران

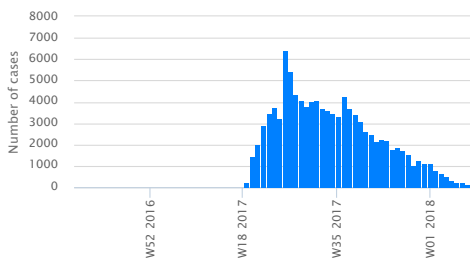


Figure 3k | Dhamar ذمار

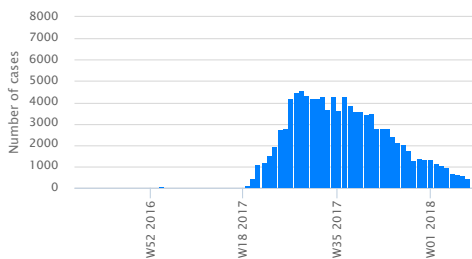


Figure 3l | Hajjah حجة

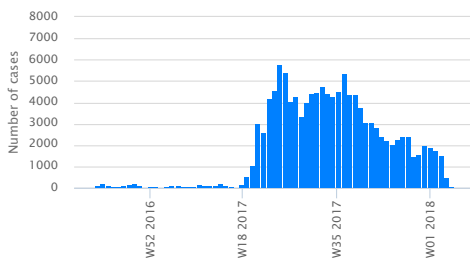


Figure 3m | Ibb إب

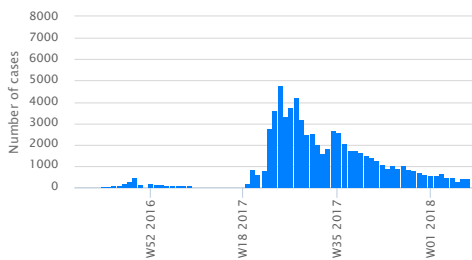


Figure 3n | Lahj لحج

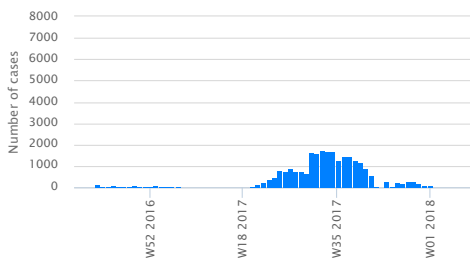


Figure 3o | Marib مارب

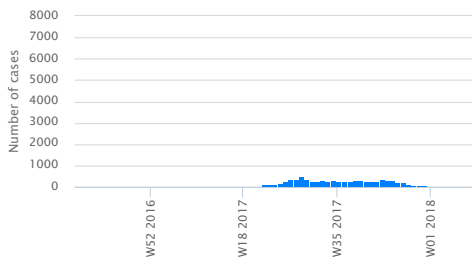


Figure 3p | Raymah ريمة

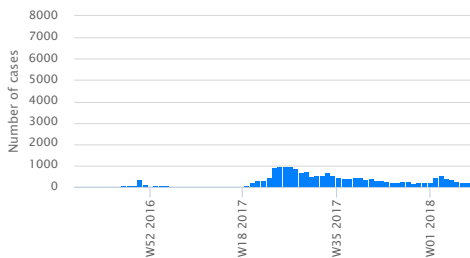


Figure 3q | Sa'ada صنعاء

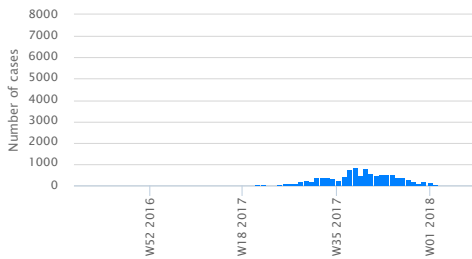


Figure 3r | Sana'a صنعاء

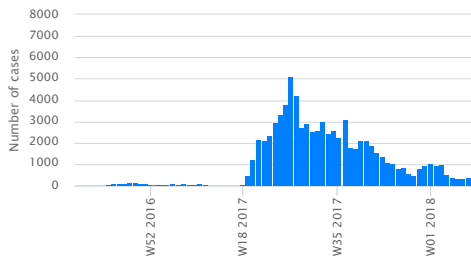


Figure 3s | Say'un سيئون

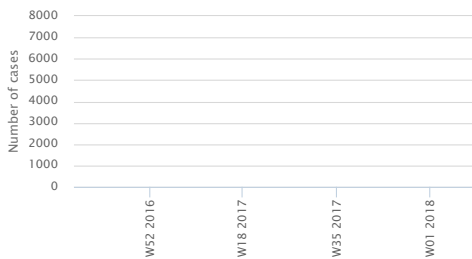


Figure 3t | Shabwah شبوة

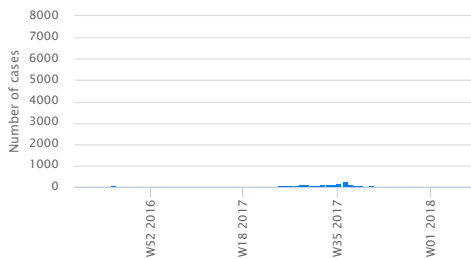
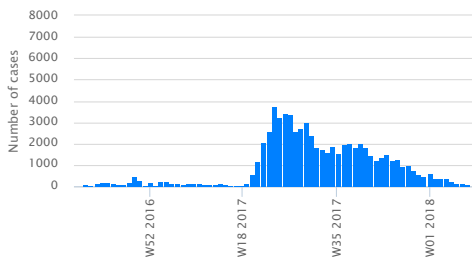


Figure 3v | Taizz تعز



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



World Health Organization