



اليمن Yemen

الاستجابة للكوليرا Cholera Response

برنامج الترصد الالكتروني للأمراض
Electronic Disease Early Warning System (eDEWS)

النشرة الوبائية الأسبوعية
Weekly Epidemiological Bulletin
W43 2017 (Oct 23-Oct 29)

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Highlights

Cumulative figures

- The cumulative total from 27 April 2017 to 29 October 2017 is 890,017 suspected cholera cases and 2,185 associated deaths, (CFR 0.25%). 960 have been confirmed by culture.
- The total proportion of severe cases among the suspected cases is 19%
- The national attack rate is 323.1 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (750), Al Mahwit (706), Al Dhale'e (633), Abyan (487) and Sana'a (440).
- Children under 5 years old represent 27.1% of total suspected cases.
- In total, 17,896 rapid diagnostic tests (RDT) have been performed which represents 20.1% coverage. 2,219 cultures have been performed which represents 22.3% coverage.
- The last positive culture was on 21 Oct 2017 in Dar Sad district (Aden governorate)
- Among the 305 affected districts, 39 districts did not report any suspected case the last three consecutive 3 weeks.

Governorate and District level

- The trend at country level over the past 3 weeks is considered decreased.
- At governorate level, the trend from W40-W42 decrease or was stable in all governorates.
- No governorate is reporting a CFR higher than 1%.

Trends

- The weekly number of cases is decreasing for the 7th consecutive week.
- The weekly proportion of children under 5 is as twice as week 26 (18% in week 26 and 39% in week 43).
- The weekly proportion of sever cases has significantly decreased representing now 9% of the admitted cases.
- The use of RDTs has significantly increased since week 40.

Week 43

- 26,137 suspected cases and 5 associated deaths were reported.
- 9 % are severe cases
- 1252 RDTs were performed, 301 were positive

A. ملخص المؤشرات Summary indicators



Cholera Response | Cumulative figures from 27/04/2017 to 29/10/2017

890,747

حالات الاشتباه
Suspected cases

حالة اشتباه في
الأسبوع الحالي
20,674 suspected cases
in current week

2,186

الوفيات
Associated deaths

حالة وفاة في
الأسبوع الحالي
6 associated deaths
in current week

0.25%

معدل الاماته بين
الحالات
Case Fatality Rate

96%

المحافظات المتأثرة
بالوباء
Governorates
affected

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

92%

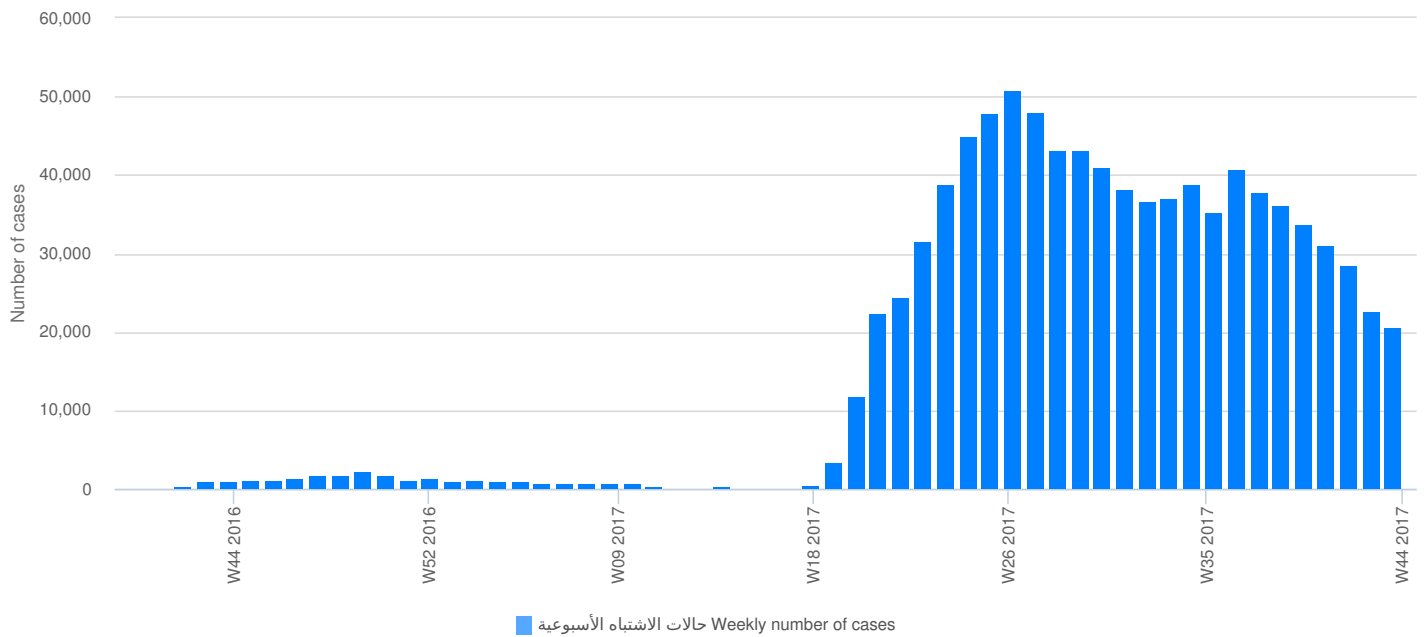
المديريات المتأثرة
بالوباء
Districts
affected

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

B. المنحنى الوبائي Epidemic curve

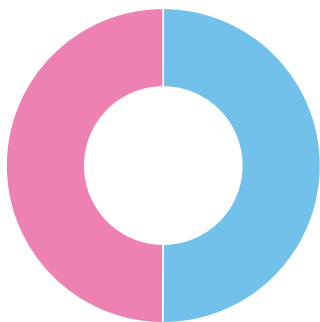
الشكل (1) المنحنى الوبائي على المستوى الوطني

Figure 1 | Epidemic curve (Country)



الشكل (2 أ) حالات الكوليرا على مستوى الجنس

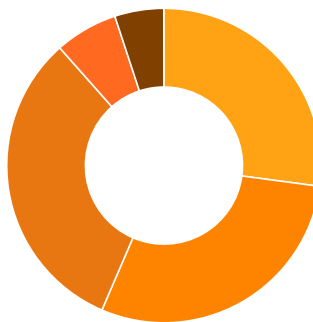
Figure 2a Cases by sex (Cumul.)



Male (50% ; n = 453,182)
Female (50% ; n = 451,090)

الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية

Figure 2b Cases by age (Cumul.)



< 5 (27.1% ; n = 239,455)
5-17 (29.3% ; n = 259,005)
18-44 (32.0% ; n = 282,596)
45-59 (6.5% ; n = 57,211)
≥ 60 (5.1% ; n = 44,607)

الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض

Figure 2c Cases by outcome (Cumul.)



Discharged (62.48% ; n = 556,558)
Referred (0.31% ; n = 2,793)
Died (0.25% ; n = 2,186)
Unknown (37.20% ; n = 331,396)

Trends in cases by age distribution and dehydration status

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

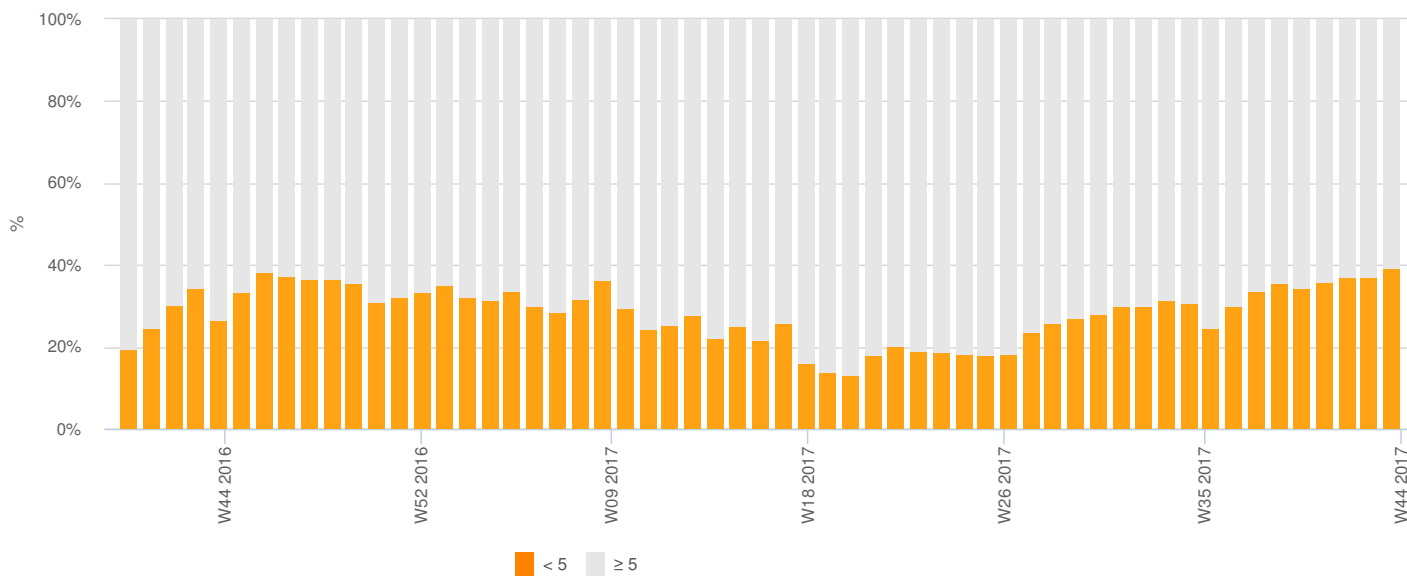
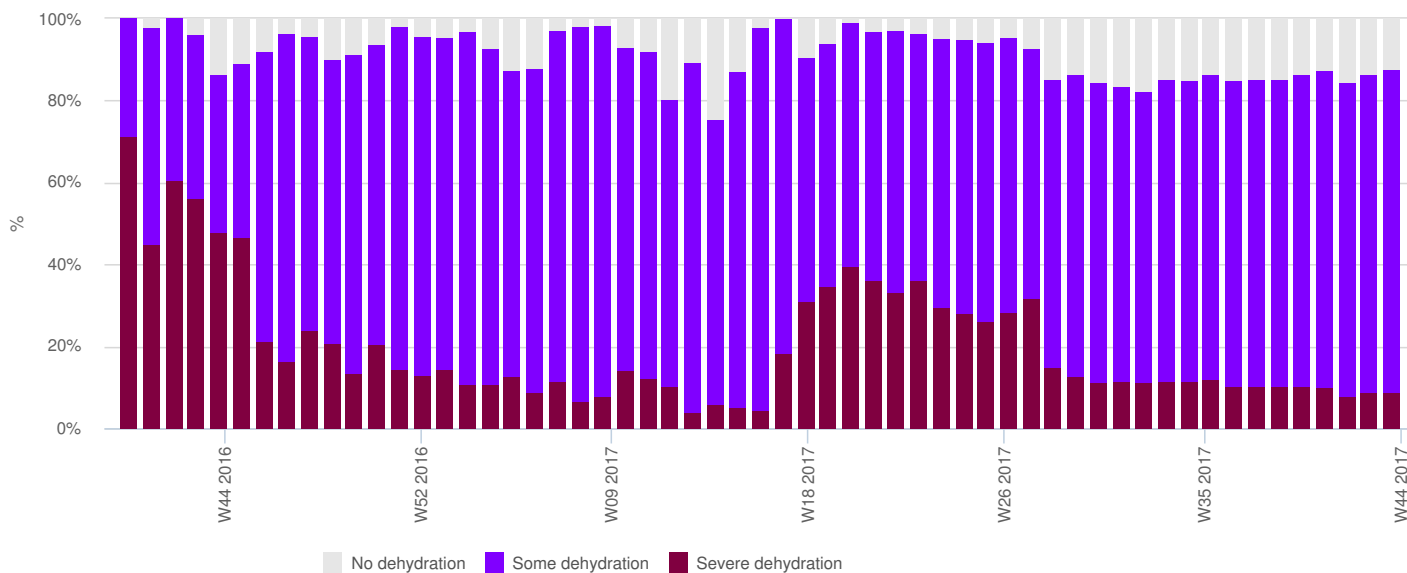


Figure 2e | Trend in proportion of cases by dehydration status¹



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. المحافظة 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	تراكمي Cumulative (27/04/2017 to 29/10/2017)					الاتجاه 3 أسابيع 3 week trend				
	حالات الاشتباه Cases	الوفيات Deaths	معدل الامانه CFR ¹	السكان Population	معدل الإصابة AR ²	أسابيع -3 -3W	أسابيع -2 -2W	أسابيع -1 -1W	الأسبوع الحالي W	اتجاه Trend ³
Amran عمران	87,218	170	0.19%	1,160,559	751.52	2,628	2,461	2,114	2,188	▼ -12%
Al Mahwit المحويت	51,573	143	0.28%	730,209	706.28	1,996	1,512	1,596	1,513	► -6%
Al Dhale'e الصالح	46,316	80	0.17%	731,496	633.17	1,371	999	827	659	▼ -22%
Abyan أبين	27,810	35	0.13%	570,832	487.18	507	303	213	119	▼ -38%
Sana'a صعاء	64,711	122	0.19%	1,470,346	440.11	2,139	1,909	1,529	1,376	▼ -18%
Hajjah حجة	98,572	411	0.42%	2,329,741	423.10	3,095	3,041	2,690	2,020	► -9%
Dhamar ذمار	81,237	156	0.19%	2,012,264	403.71	3,409	3,494	2,791	2,801	▼ -14%
Al Hudaydah الحديدة	128,145	268	0.21%	3,238,199	395.73	6,982	6,941	4,488	3,800	▼ -27%
Al Bayda البيضاء	25,446	30	0.12%	759,388	335.09	561	558	437	429	▼ -16%
Amanat Al Asimah العاصمة	85,344	68	0.08%	2,827,824	301.80	1,797	1,870	1,814	1,918	► -1%
Al Jawf الجوف	13,201	21	0.16%	578,585	228.16	681	558	455	393	▼ -19%
Raymah ريمة	13,569	116	0.85%	606,776	223.62	371	401	278	280	▼ -21%
Lahj لحج	22,488	21	0.09%	1,008,864	222.90	888	548	71	21	▼ -86%
Aden عدن	19,448	62	0.32%	922,996	210.71	369	336	322	262	► -6%
Ibb إب	56,187	281	0.50%	2,957,138	190.00	1,466	1,381	1,282	1,015	► -7%
Taizz تعز	52,474	184	0.35%	2,998,300	175.01	1,761	1,271	1,041	991	▼ -23%
Marib مأرب	5,987	7	0.12%	358,542	166.98	267	254	244	335	► -4%
Sa'ada صعدة	7,887	5	0.06%	905,145	87.14	805	583	513	549	▼ -19%
Al Maharah المهرة	1,164	1	0.09%	148,478	78.40	1	0	1	0	▲ +50%
Shabwah شبوثة	1,384	3	0.22%	604,243	22.90	15	34	12	0	▼ -41%
Moklla المكلا	568	2	0.35%	400,788	14.17	27	16	4	3	▼ -74%
Say'on سينون	18	0	0.00%	219,953	0.82	0	1	1	2	▲ +50%
Yemen اليمن	890,747	2,186	0.25%	27,540,666	323.43	31,136	28,471	22,723	20,674	▼ -17%

¹ معدل الامانه بين الحالات

² معدل الإصابة لكل 10,000 من السكان

³ تم حساب المنحنى بناء على متوسط عدد الحالات خلال ثلاثة أسابيع سابقة

¹ Case Fatality Rate

² Attack Rate (/10,000 population)

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

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

▲ 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

D. Laboratory

Figure 4 | RDT results by week

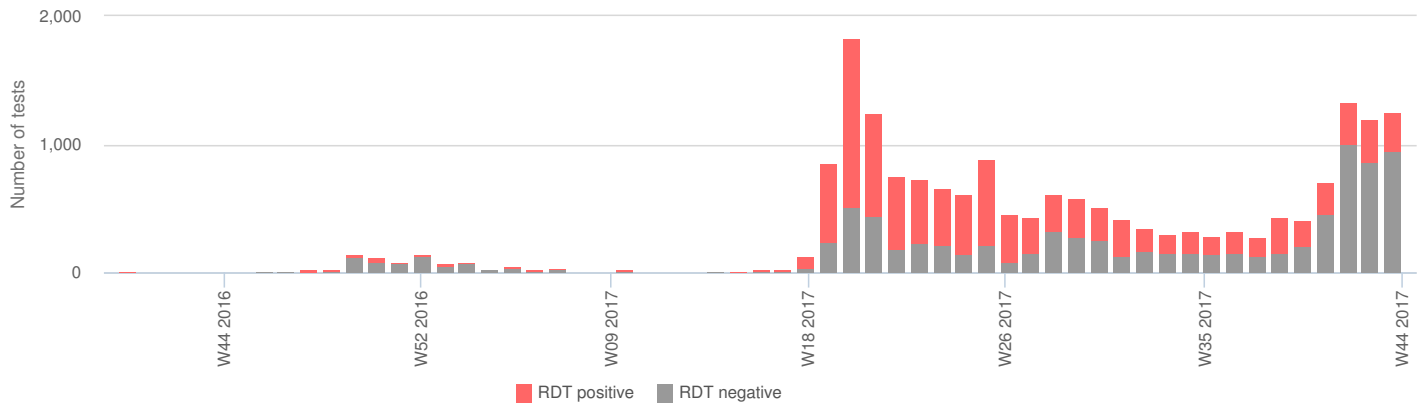


Figure 5 | Rapid Diagnostic Kit (RDT)

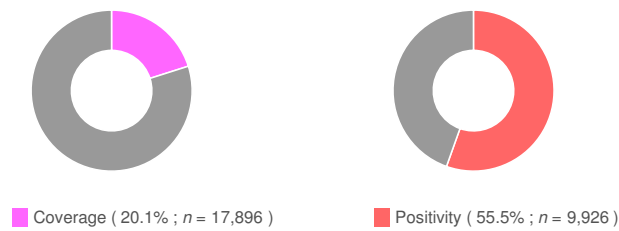


Figure 6 | Culture

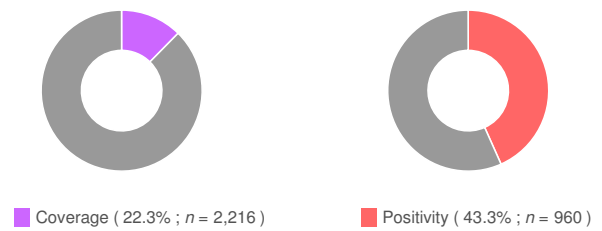


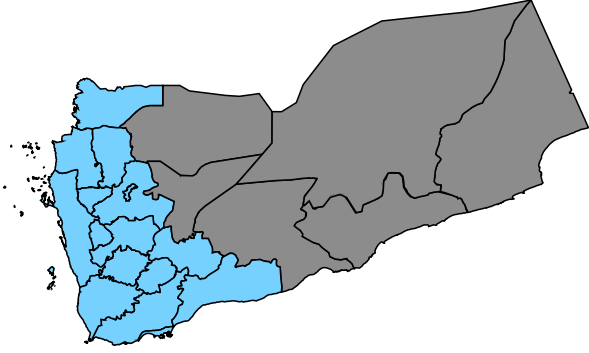
Table 2 | Summary of key laboratory indicators by Governorate

Governorate	Rapid Diagnostic Kit (RDT)					Culture			
	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate
أبين أبين	27,810	213	7.7%	146	68.5%	38	26.0%	23	60.5%
عدن عدن	19,448	451	23.2%	316	70.1%	150	47.5%	113	75.3%
البيضاء البيضاء	25,446	1039	40.8%	626	60.3%	175	28.0%	9	5.1%
الضالع الضالع	46,316	235	5.1%	95	40.4%	35	36.8%	3	8.6%
الحديدة الحديدة	128,145	1333	10.4%	582	43.7%	211	36.3%	120	56.9%
الجوف الجوف	13,201	1249	94.6%	864	69.2%	46	5.3%	12	26.1%
المهرة المهرة	1,164	260	223.4%	115	44.2%	23	20.0%	14	60.9%
المحويت المحويت	51,573	1232	23.9%	785	63.7%	35	4.5%	10	28.6%
أمانة العاصمة Amanat Al Asimah	85,344	3613	42.3%	1831	50.7%	429	23.4%	181	42.2%
عمران عمران	87,218	870	10.0%	531	61.0%	80	15.1%	22	27.5%
ذمار ذمار	81,237	627	7.7%	251	40.0%	101	40.2%	21	20.8%
حجة حجة	98,572	609	6.2%	143	23.5%	42	29.4%	13	31.0%
إب إب	56,187	460	8.2%	348	75.7%	55	15.8%	12	21.8%
لحج لحج	22,488	1109	49.3%	570	51.4%	36	6.3%	12	33.3%
مأرب مأرب	5,987	151	25.2%	121	80.1%	2	1.7%	0	0.0%
المكلا المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
ريمة ريمة	13,569	558	41.1%	370	66.3%	31	8.4%	5	16.1%
صعدة صعدة	7,887	910	115.4%	752	82.6%	12	1.6%	0	0.0%
صنعاة صنعاة	64,711	1880	29.1%	579	30.8%	231	39.9%	43	18.6%
سنيون سنيون	18	17	944.4%	8	47.1%	10	125.0%	0	0.0%
شبابوة شبوة	1,384	119	86.0%	46	38.7%	44	95.7%	6	13.6%
تعز تعز	52,474	856	16.3%	767	89.6%	375	48.9%	309	82.4%
اليمن اليمن	890,747	17,896	20.1%	9,926	55.5%	2,216	22.3%	960	43.3%

E. التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

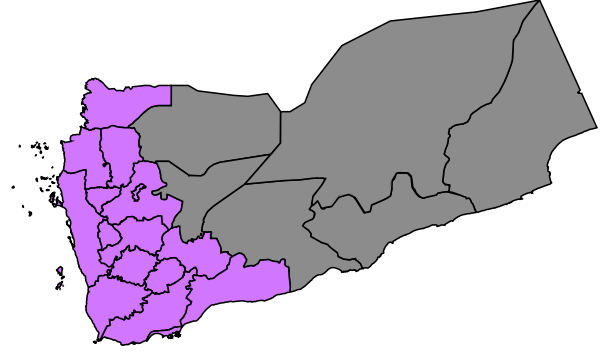
الخريطة (أ 1) عدد حالات الاشتباه للمحافظات

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



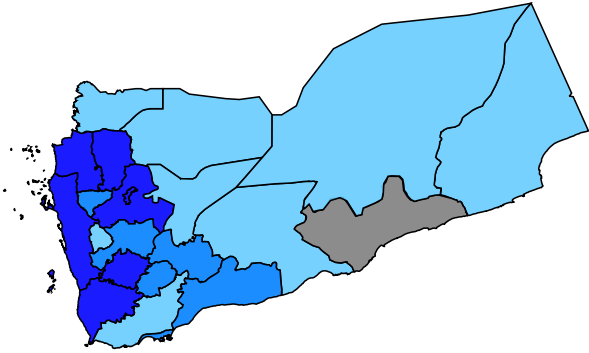
الخريطة (ب 1) معدل الإصابة للمحافظات

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



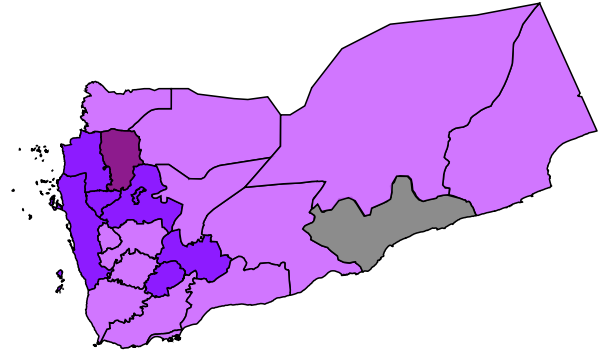
الخريطة (أ 1) عدد حالات الاشتباه للمحافظات

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



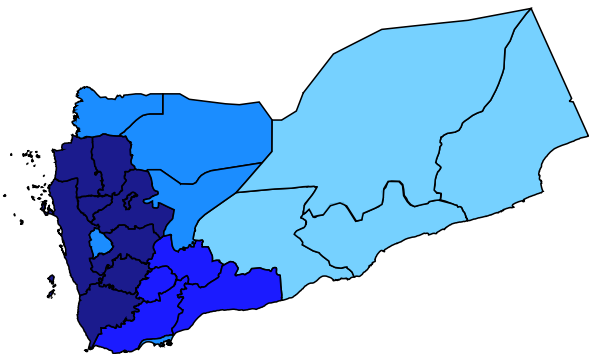
الخريطة (ب 1) معدل الإصابة للمحافظات

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



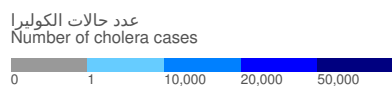
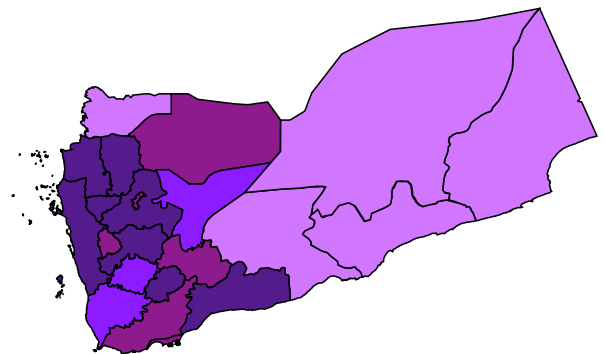
الخريطة (أ 1) عدد حالات الاشتباه للمحافظات

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



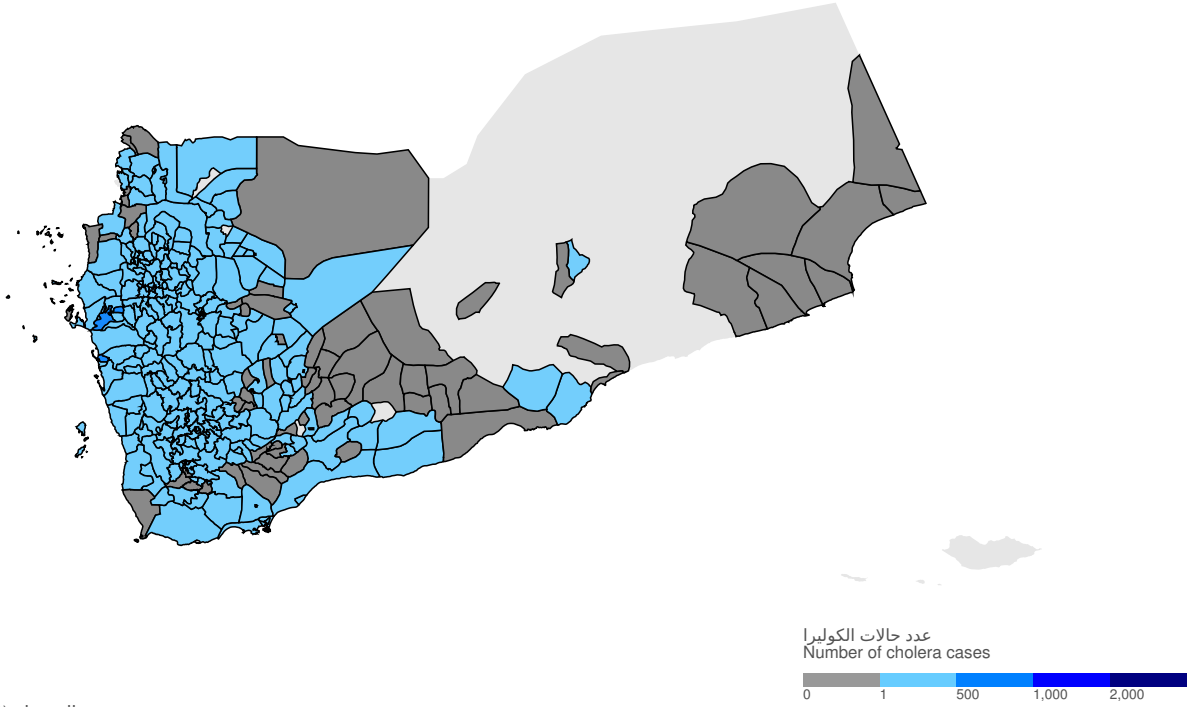
الخريطة (ب 1) معدل الإصابة للمحافظات

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

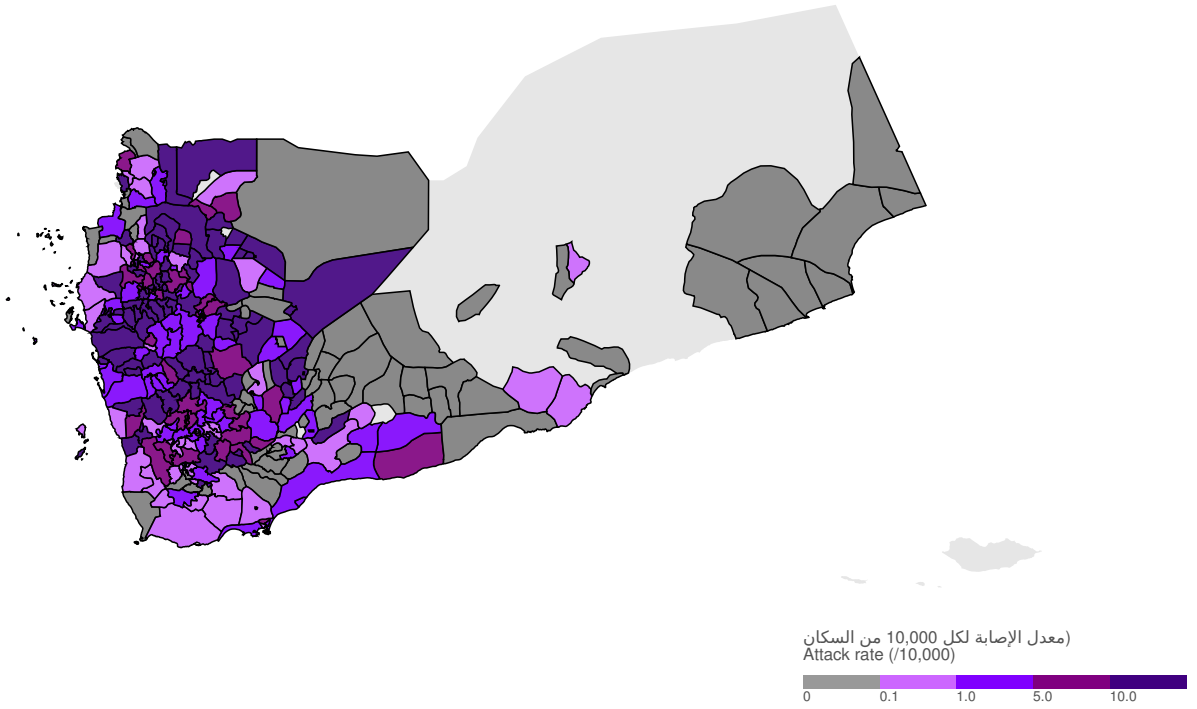


F. المديريات ذات الأولوية Districts reporting in current week

الخريطة (2 أ) عدد حالات الاشتباه الأولوية
Map 2 | Number of cases by district (W43 2017)



الخريطة (3 ب) معدل الإصابة الأولوية
Map 3 | Attack rate by district (W43 2017)



G. Epidemic curves by Governorate

Figure 3a | أبين Abyan

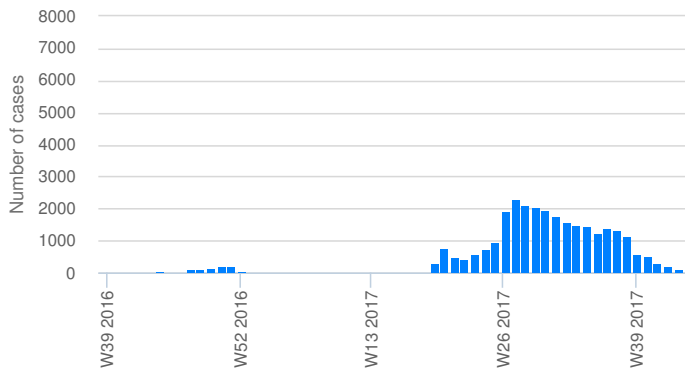


Figure 3b | عدن Aden

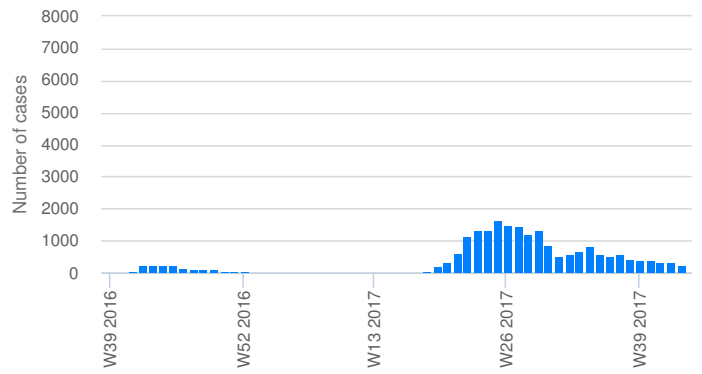


Figure 3c | البيضاء Al Bayda

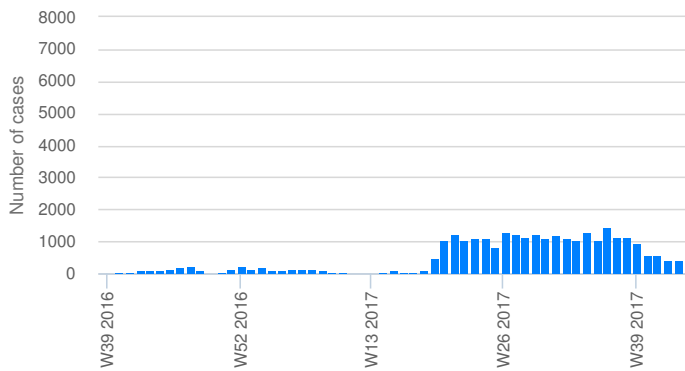


Figure 3d | الضالع Al Dhale'e

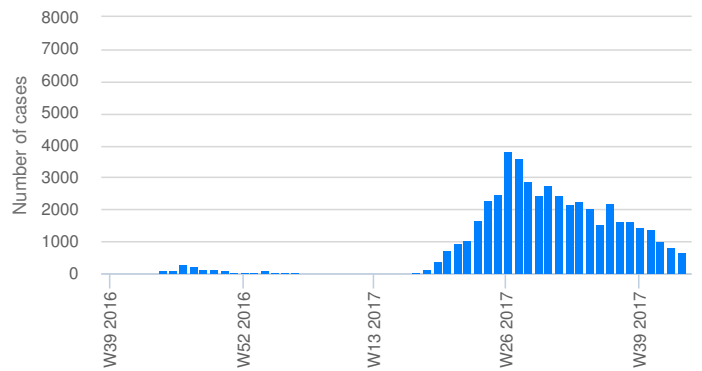


Figure 3e | الحديدة Al Hudaydah

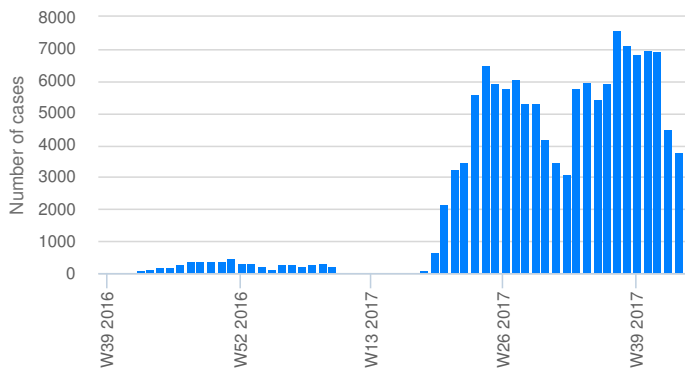


Figure 3f | الجوف Al Jawf

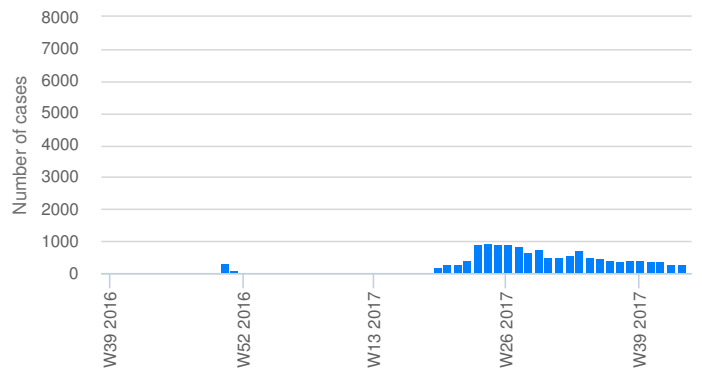


Figure 3g | المهرة Al Maharah

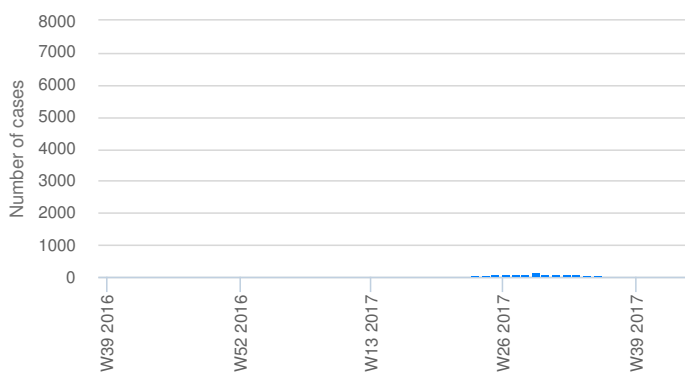


Figure 3h | المحويت Al Mahwit

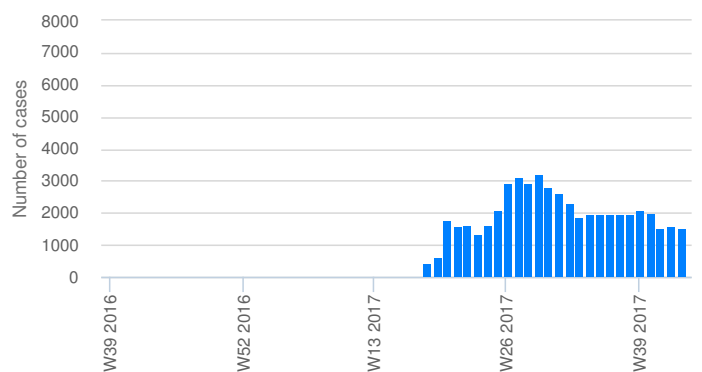


Figure 3i | Amanat Al Asimah أمانة العاصمة

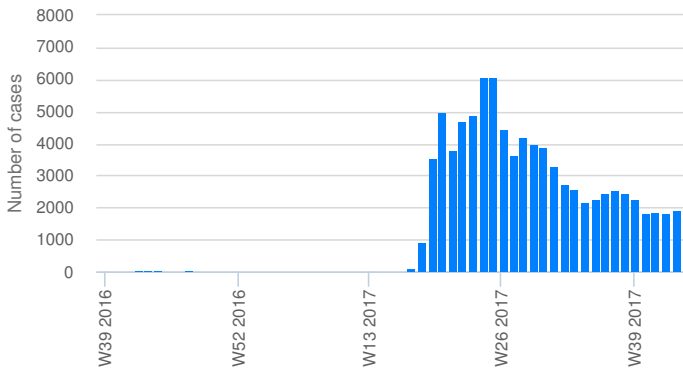


Figure 3j | Amran عمران

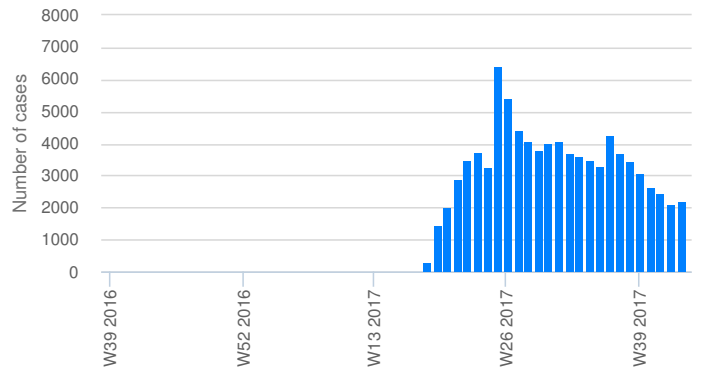


Figure 3k | Dhamar ذمار

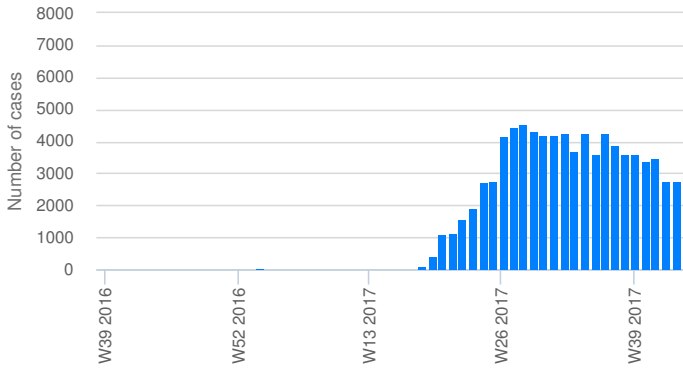


Figure 3l | Hajjah حجة

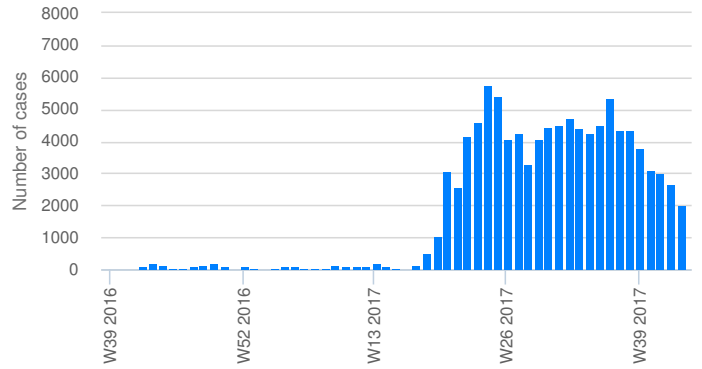


Figure 3m | Ibb إب

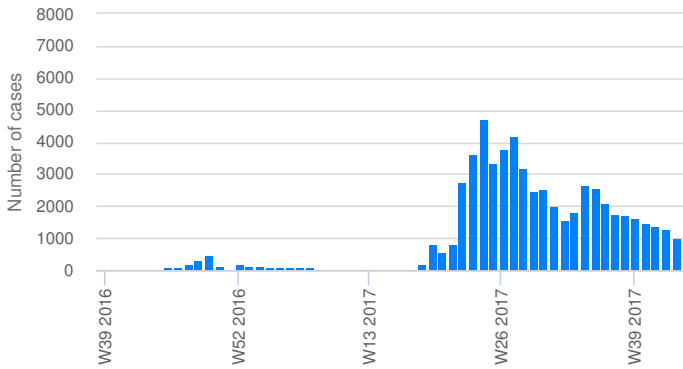


Figure 3n | Lahj لبح

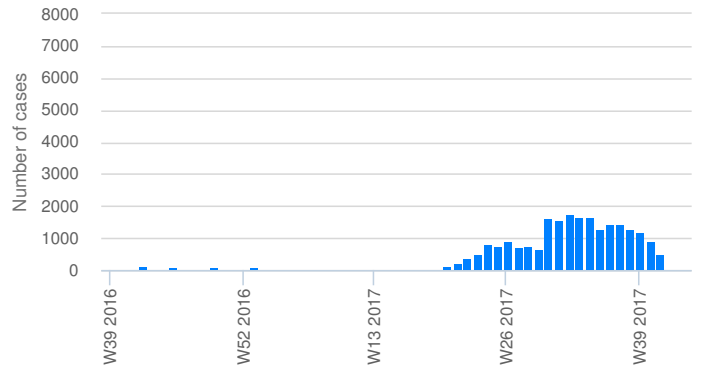


Figure 3o | Marib مأرب

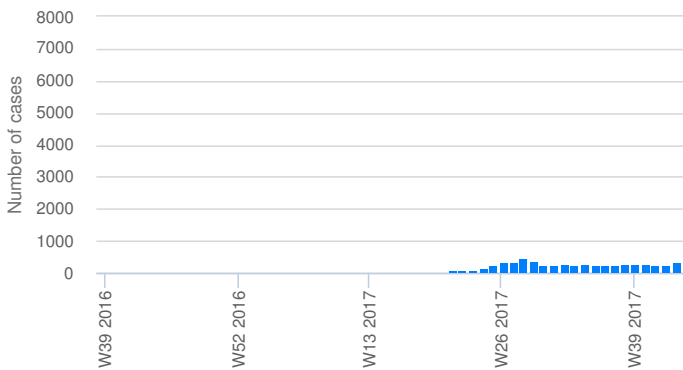


Figure 3p | Raymah ريمة

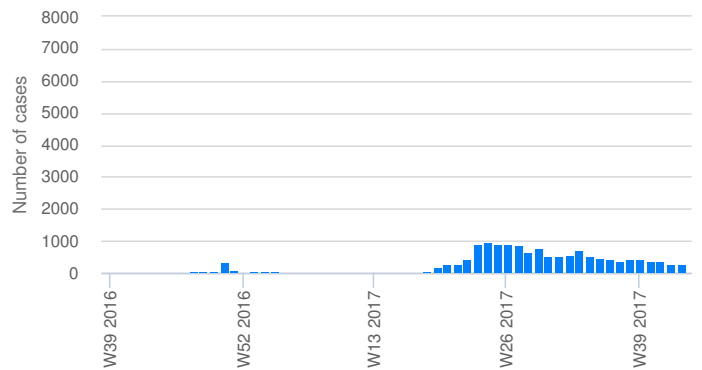


Figure 3q | Sa'ada صعدة

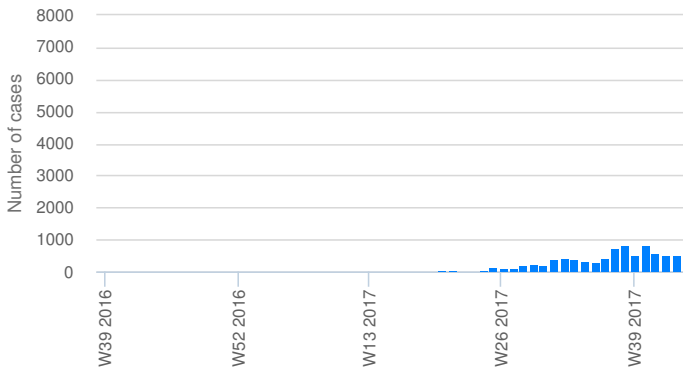


Figure 3r | Sana'a صنعاء

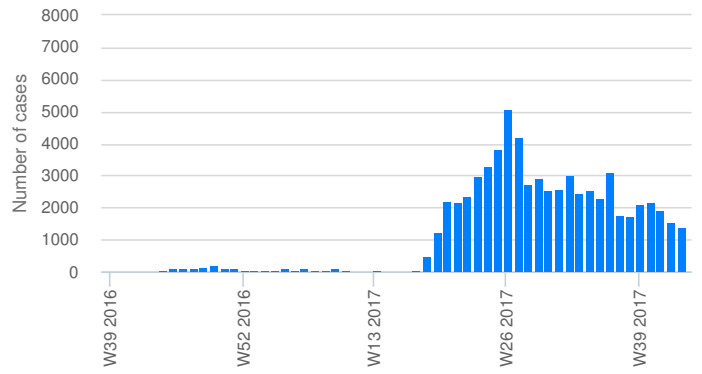


Figure 3s | Say'on سيئون

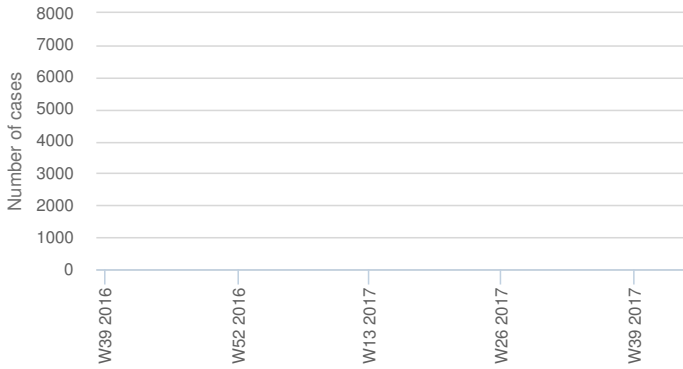


Figure 3t | Shabwah شبوة

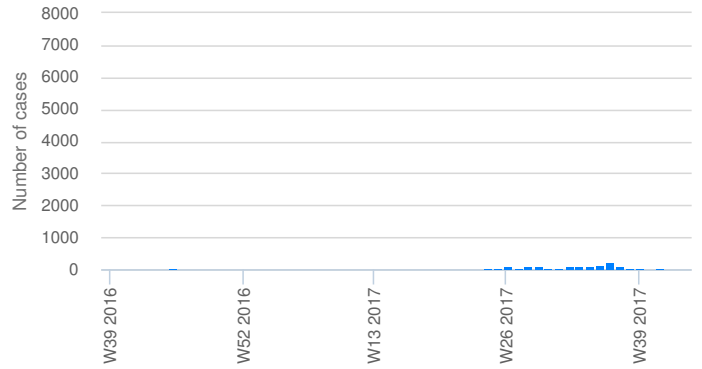
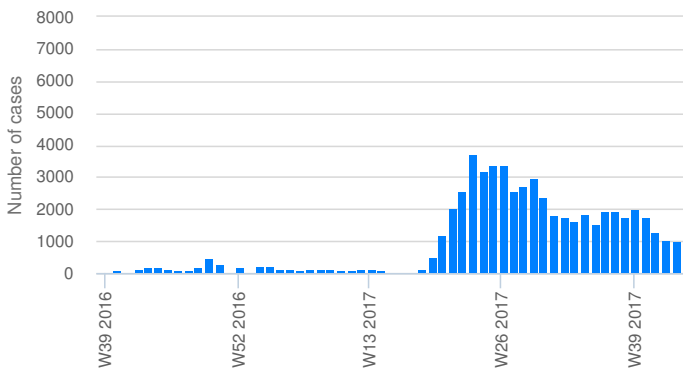


Figure 3v | Taizz تعز



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



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>



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