



اليمن Yemen

الاستجابة للكوليرا Cholera Response

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

النشرة الوبائية الأسبوعية
Weekly Epidemiological Bulletin
W39 2017 (Sep 25-Oct 01)

Printed: 15:54 Tuesday, 03 October 2017 UTC

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Highlights

- The cumulative total from 27 April 2017 to 1st October 2017 is 780,886 suspected cholera cases and 2,137 associated deaths, (CFR 0.27%). 27,773 suspected cases and 15 associated deaths were reported in W39.
- The national attack rate is 274.41 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 are Amran (666), Al Mahwit (611), Al Dhale'e (580), Abyan (466) and Sanaa (392).
- In September, the districts with higher numbers of deaths are Al qafr (4), As Sabrah (4), Hazm al Udayn(3) and Hubaysh(3).
- Children under 5 years old represent 26.2% of total suspected cases. Children under 18 years old represent 56.3%.
- In total, 13,352 rapid diagnostic tests (RDT) have been performed which represents 17.1% coverage. 1,660 cultures have been performed which represents 19.1% coverage. In September, 28 culture were reported positive in 10 districts. Ash Shaikh reported 10 positive cultures in September. The last positive laboratory confirmation was on the 21st September in Al Mualla district.

Governorate and District level

- The trend at country level over the past 3 weeks is considered stable.
- At governorate level, the trend from W36-W38 increased in 2 governorates: Saada (+25%), Marib (+12%).
- Those districts are still under particular surveillance: As Safra (Saada); Al marawit, Az Zuhra, Ad Dahi (Al Hudaydah).

Conclusions and actions

- In response to the continued increases in numbers of suspected cholera cases week 37 and 38 in Al Hudaydah, WHO is strengthening RDT use in DTC's and daily surveillance of cases in this governorate.



Cholera Response | Cumulative figures from 27/04/2017 to 1/10/2017

780,886

حالات الاشتباه
Suspected cases

2,137

الوفيات
Associated deaths

0.27%

معدل الاماته بين
الحالات
Case Fatality Rate

96%

المحافظات المتأثرة
بالوباء
Governorates affected
(محافظة 23 / 22)
(22 / 23 governorates)

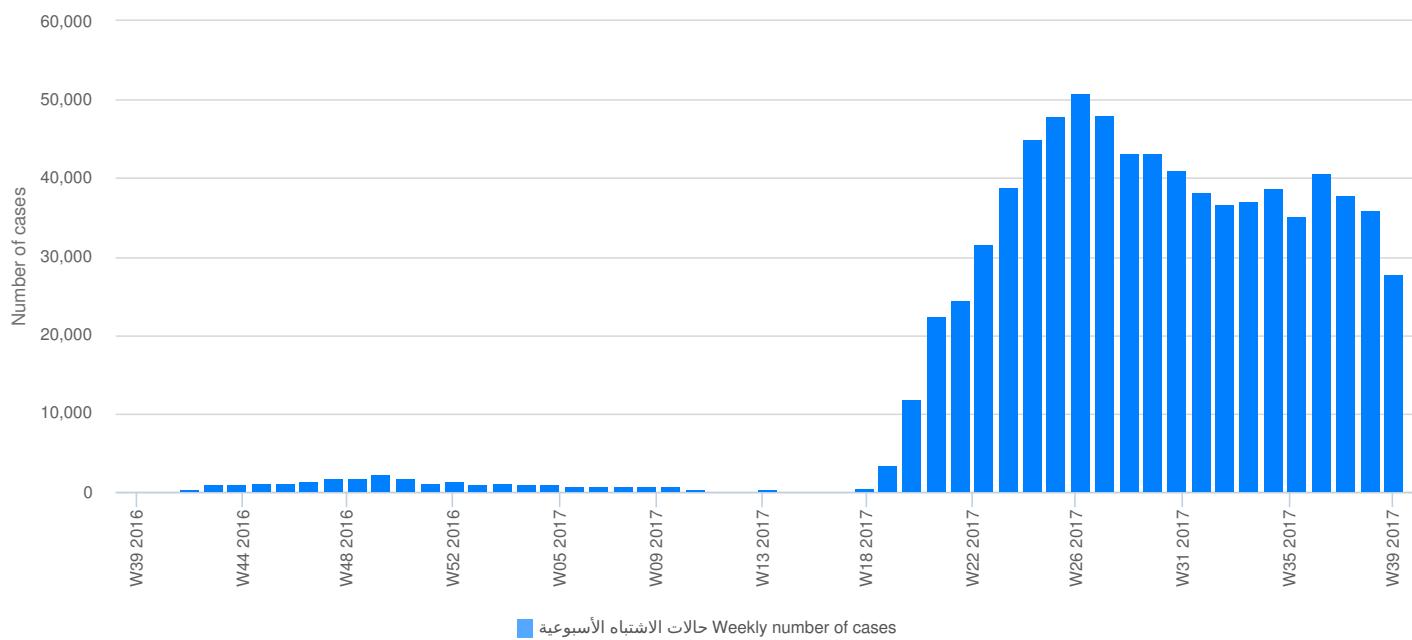
92%

المديريات المتأثرة
بالوباء
Districts affected
(مديرية 333 / 305)
(305 / 333 districts)

B. المحنى الوبائي Epidemic curve

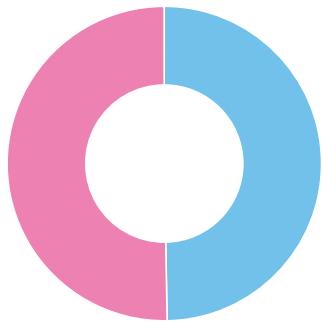
الشكل (1) المحنى الوبائي على المستوى الوطني

Figure 1 | Epidemic curve (Country)



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

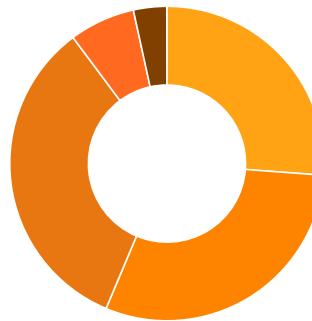
Figure 2a Cases by sex (Cumul.)



Male (50% ; n = 393,734)
Female (50% ; n = 397,584)

الشكل (2) (ب) حالات الكوليرا على مستوى الفئرية

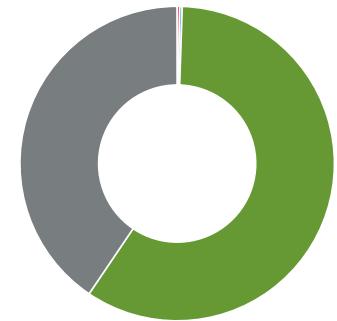
Figure 2b Cases by age (Cumul.)



< 5 (26.2% ; n = 198,811)
5-17 (30.1% ; n = 228,802)
18-44 (33.5% ; n = 254,075)
45-59 (6.8% ; n = 51,281)
≥ 60 (3.4% ; n = 26,061)

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

Figure 2c Cases by outcome (Cumul.)



Discharged (59.11% ; n = 461,594)
Referred (0.26% ; n = 2,009)
Died (0.27% ; n = 2,137)
Unknown (40.63% ; n = 317,283)

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 1/10/2017)	الاتجاه 3 أسابيع 3 week trend									
		حالات الاشتياه Cases	الوفيات Deaths	معدل الامانة CFR ¹	السكان Population	معدل الاصابة AR ²	أسابيع -3W	أسابيع -2W	أسابيع -1W	أسابيع 1W	اتجاه Trend ³
Amran عمران	77,353	167	0.22%	1,160,559	666.52	4,271	3,677	3,383	2,664	▼ -10%	
Al Mahwit المحويت	44,671	140	0.31%	730,209	611.76	1,961	1,961	1,973	1,835	► 0%	
Al Dhale'e الصالع	42,428	79	0.19%	731,496	580.02	2,180	1,642	1,621	1,410	▼ -11%	
Abyan أبين	26,656	35	0.13%	570,832	466.97	1,408	1,354	1,145	569	▼ -12%	
Sana'a صنعاء	57,724	122	0.21%	1,470,346	392.59	3,120	1,790	1,726	2,091	▼ -22%	
Hajjah حجة	86,587	401	0.46%	2,329,741	371.66	5,351	4,361	4,281	2,722	► -8%	
Dhamar ذمار	68,336	153	0.22%	2,012,264	339.60	4,252	3,859	3,570	3,167	► -8%	
Al Hudaydah الحديدة	103,286	254	0.25%	3,238,199	318.96	5,929	7,614	7,144	4,341	► 4%	
Al Bayda البيضاء	23,430	28	0.12%	759,388	308.54	1,444	1,145	1,141	935	► -8%	
Amanat Al Asimah أمانة العاصمة	77,457	66	0.09%	2,827,824	273.91	2,428	2,555	2,430	1,774	► -2%	
Lahj لحج	20,854	20	0.10%	1,008,864	206.71	1,442	1,431	1,297	1,088	► -7%	
Raymah ريمة	12,229	113	0.92%	606,776	201.54	411	405	424	440	► 3%	
Aden عدن	18,153	62	0.34%	922,996	196.67	543	578	445	387	▼ -15%	
Al Jawf الجوف	11,111	21	0.19%	578,585	192.04	973	663	759	496	► -5%	
Ibb إب	50,350	276	0.55%	2,957,138	170.27	2,027	1,664	1,648	1,394	► -7%	
Taizz تعز	46,922	182	0.39%	2,998,300	156.50	1,973	1,980	1,770	1,577	► -7%	
Marib مأرب	4,887	7	0.14%	358,542	136.30	256	240	294	275	▲ +12%	
Al Maharah المهرة	1,162	1	0.09%	153,306	75.80	21	8	3	0	▼ -72%	
Sa'ada صعدة	5,435	5	0.09%	911,467	59.63	432	737	830	515	▲ +25%	
Shabwah شبوة	1,321	3	0.23%	636,008	20.77	239	84	52	50	▼ -58%	
Mokalla المكلا	520	2	0.38%	774,430	6.71	74	95	60	43	▼ -21%	
Say'on سيون	14	0	0.00%	654,921	0.21	0	1	0	0	▼ -100%	
Yemen اليمن	780,886	2,137	0.27%	28,457,130	274.41	40,735	37,844	35,996	27,773	► -6%	

¹ معدل الامانة بين الحالات

² معدل الاصابة لكل 10,000 من السكان

³ تم حساب المخزن 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:

▲ مخزن مرتفع	≥ +10% change
► مخزن مستقر	> -10% to < +10% change
▼ مخزن منخفض	≤ -10% change
■ انقطاع في الارسال	عدد 0 حالة خلال 3 أسابيع متالية

▲ 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

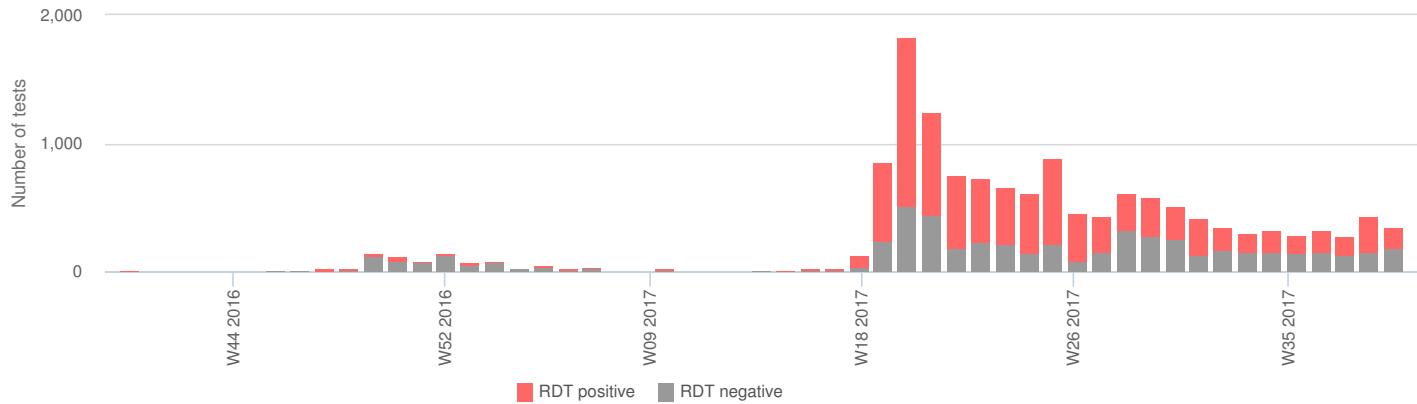


Figure 5 | Rapid Diagnostic Kit (RDT)

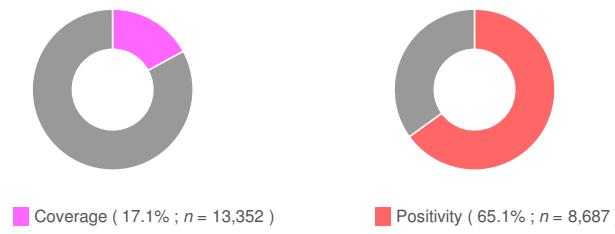


Figure 6 | Culture

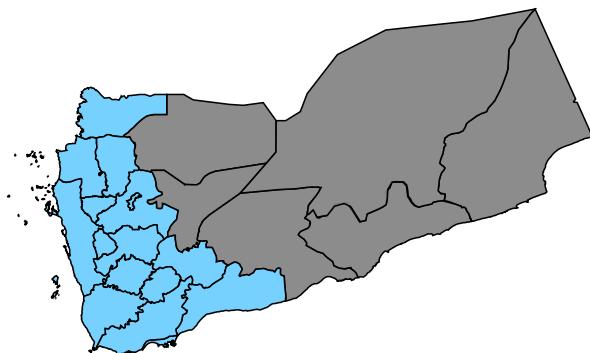


Table 2 | Summary of key laboratory indicators by Governorate

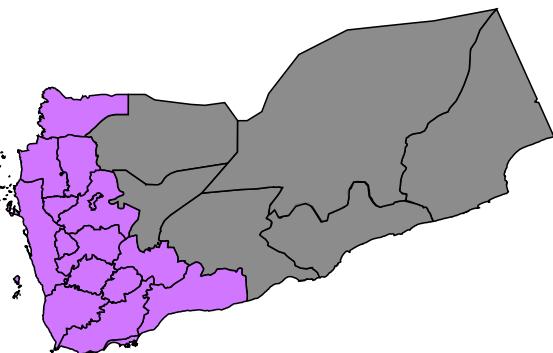
Governorate	Rapid Diagnostic Kit (RDT)					Culture			
	Cases	Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate
Abyan أبين	26,656	183	6.9%	134	73.2%	36	26.9%	23	63.9%
Aden عدن	18,153	380	20.9%	263	69.2%	122	46.4%	97	79.5%
Al Bayda البيضاء	23,430	774	33.0%	555	71.7%	114	20.5%	9	7.9%
Al Dhale'e الصالع	42,428	202	4.8%	83	41.1%	20	24.1%	3	15.0%
Al Hudaydah الحديدة	103,286	307	3.0%	139	45.3%	27	19.4%	8	29.6%
Al Jawf الجوف	11,111	1213	109.2%	854	70.4%	39	4.6%	12	30.8%
Al Maharah المهرة	1,162	259	222.9%	114	44.0%	22	19.3%	14	63.6%
Al Mahwit المحويت	44,671	1008	22.6%	706	70.0%	33	4.7%	10	30.3%
Amanat Al Asimah أمانة العاصمة	77,457	2903	37.5%	1764	60.8%	312	17.7%	170	54.5%
Amran عمران	77,353	842	10.9%	513	60.9%	59	11.5%	21	35.6%
Dhamar ذمار	68,336	323	4.7%	232	71.8%	96	41.4%	21	21.9%
Hajjah حجة	86,587	520	6.0%	113	21.7%	29	25.7%	10	34.5%
Ibb إب	50,350	345	6.9%	287	83.2%	38	13.2%	13	34.2%
Lahj لحج	20,854	1064	51.0%	552	51.9%	35	6.3%	12	34.3%
Marib مأرب	4,887	149	30.5%	121	81.2%	2	1.7%	0	0.0%
Mokha المكلا	520	84	161.5%	67	79.8%	47	70.1%	29	61.7%
Raymah ريمة	12,229	523	42.8%	346	66.2%	27	7.8%	5	18.5%
Sa'ada صعدة	5,435	907	166.9%	750	82.7%	12	1.6%	0	0.0%
Sana'a صنعاء	57,724	551	9.5%	425	77.1%	175	41.2%	43	24.6%
Say'on سيئون	14	13	928.6%	7	53.8%	9	128.6%	0	0.0%
Shabwah شبوة	1,321	108	81.8%	36	33.3%	39	108.3%	4	10.3%
Taizz تعز	46,922	694	14.8%	626	90.2%	367	58.6%	301	82.0%
Yemen اليمن	780,886	13,352	17.1%	8,687	65.1%	1,660	19.1%	805	48.5%

E. التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

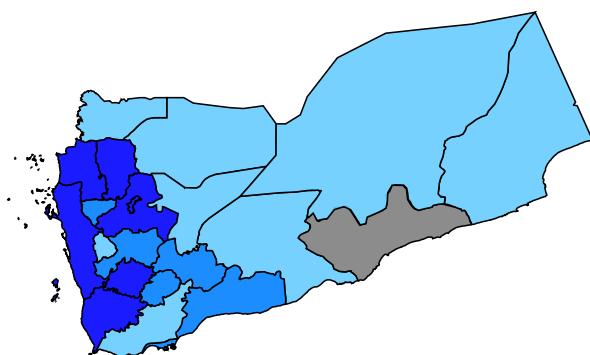
الخريطة (1أ) عدد حالات الاشتياه للمحافظات
Map 1a | Number of cases by governorate (Jan 2017 - Apr 2017)



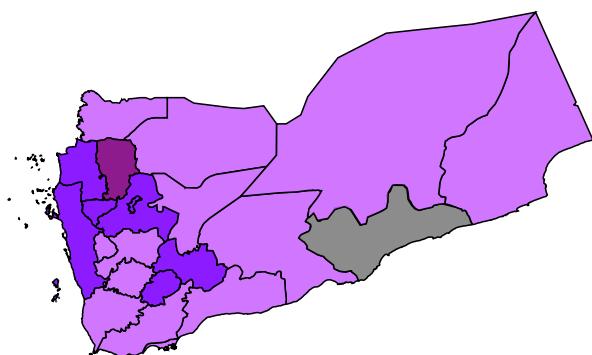
الخريطة (1ب) معدل الاصابة للمحافظات
Map 1b | Attack rate by governorate (Jan 2017 - Apr 2017)



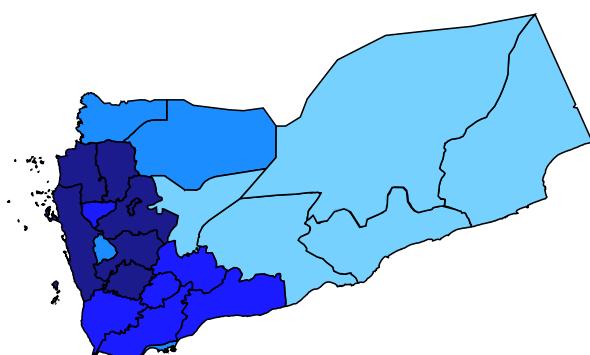
الخريطة (1أ) عدد حالات الاشتياه للمحافظات
Map 1c | Number of cases by governorate (Jan 2017 - Jun 2017)



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



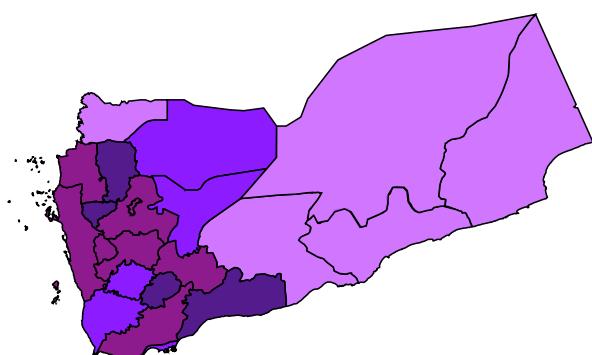
الخريطة (1أ) عدد حالات الاشتياه للمحافظات
Map 1e | Number of cases by governorate (Jan 2017 - present)



عدد حالات الكوليرا
Number of cholera cases

0	1	10,000	20,000	50,000
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الخريطة (1ب) معدل الاصابة للمحافظات
Map 1f | Attack rate by governorate (Jan 2017 - present)

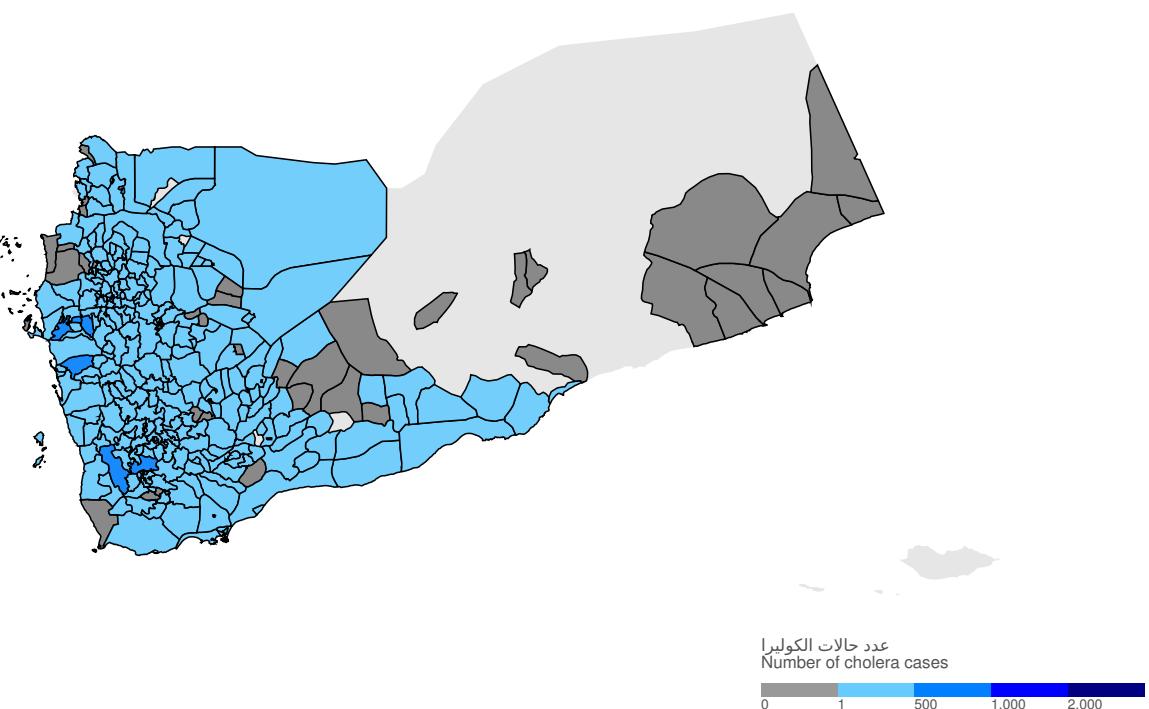


معدل الاصابة لكل 10,000 من السكان
Attack rate (/10,000)

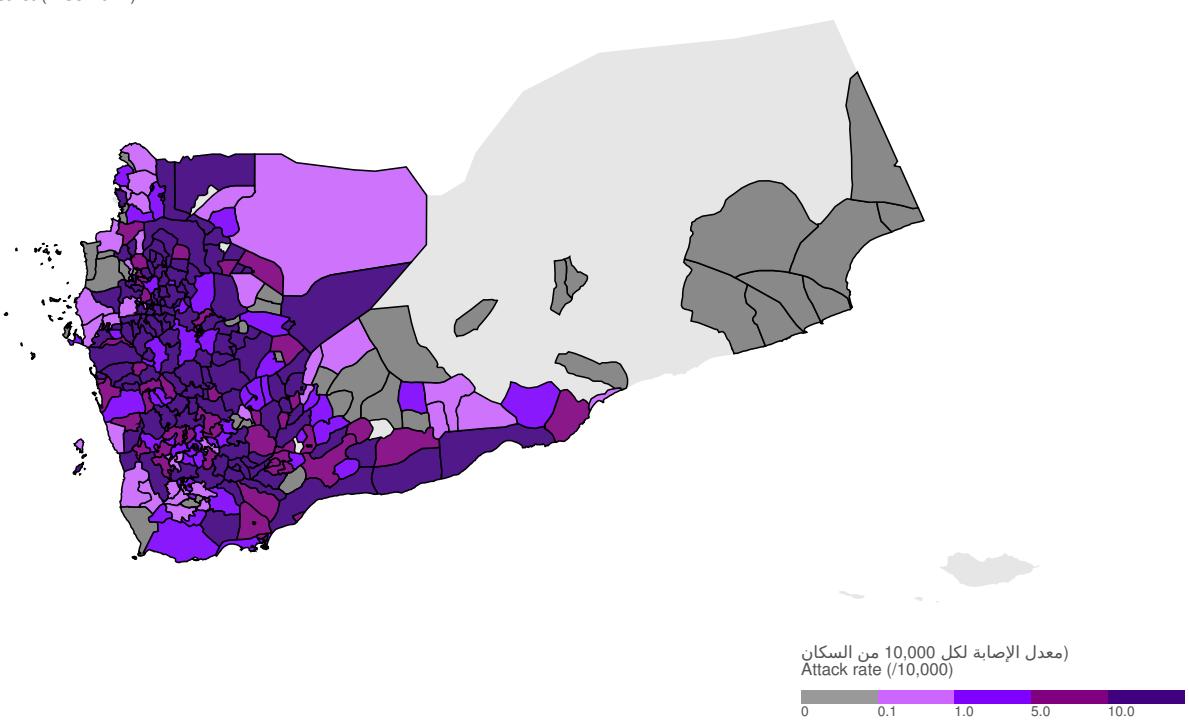
0	0.1	100.0	200.0	400.0
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F. المديريات ذات الأولوية Districts reporting in current week

الخريطة (2) (أ) عدد حالات الاشتباه الأولوية
Map 2 | Number of cases by district (W39 2017)



الخريطة (3) (ب) معدل الاصابة الأولوية
Map 3 | Attack rate by district (W39 2017)



المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين

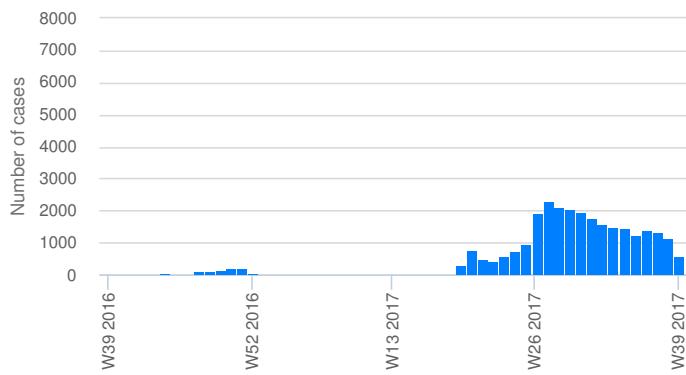


Figure 3b | Aden عدن

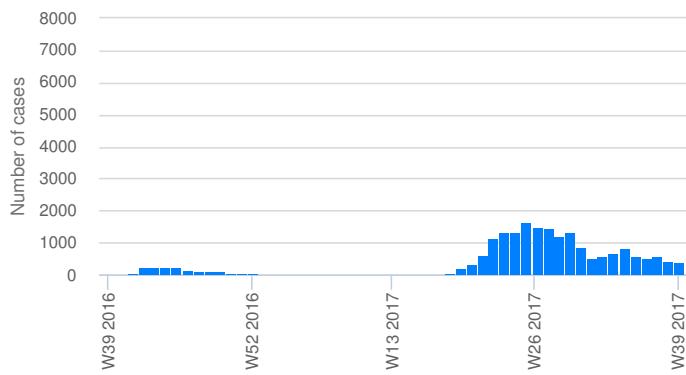


Figure 3c | Al Bayda البيضاء

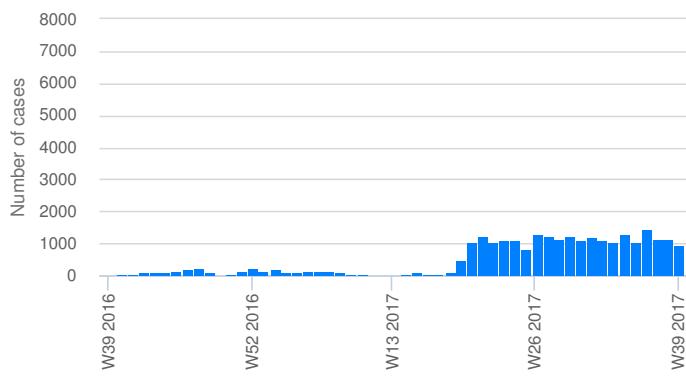


Figure 3d | Al Dhale'e الصالع

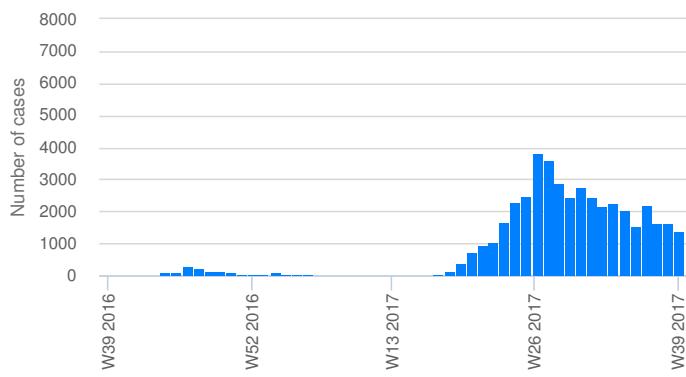


Figure 3e | Al Hudaydah الحديدة

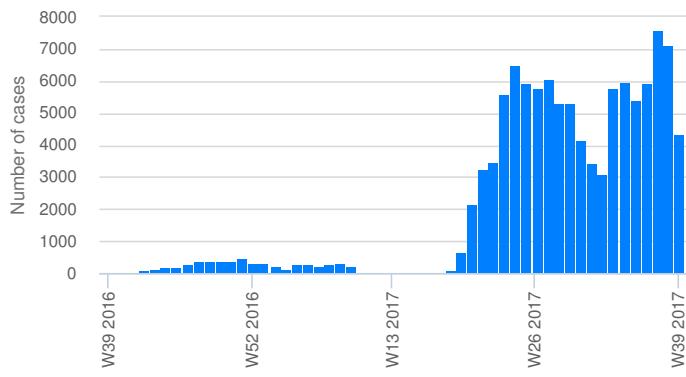


Figure 3f | Al Jawf الجوف

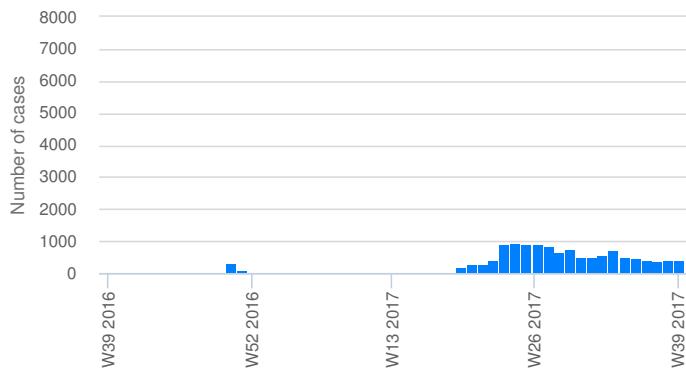


Figure 3g | Al Maharah المهرة

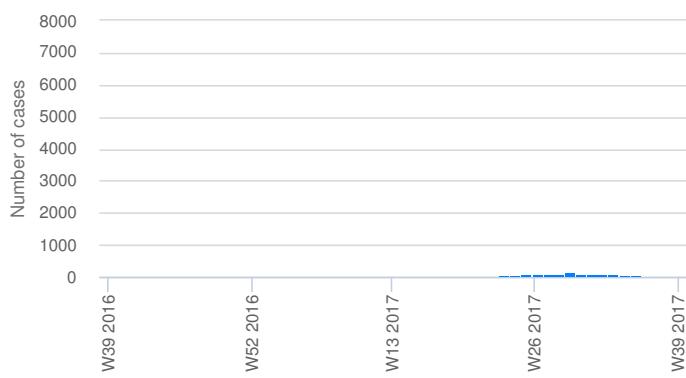


Figure 3h | Al Mahwit المحويت

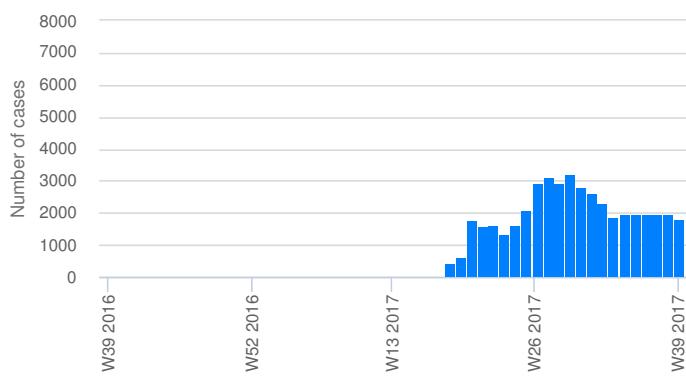


Figure 3i | Amanat Al Asimah أمانة العاصمة

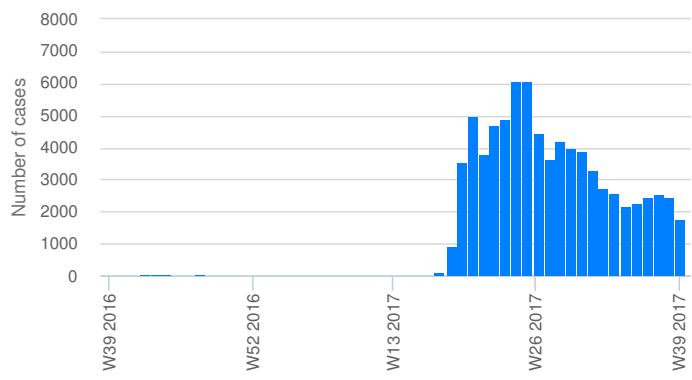


Figure 3j | Amran عمران

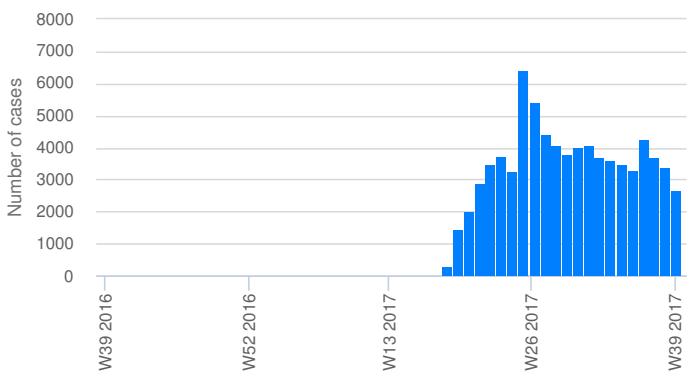


Figure 3k | Dhamar ذمار

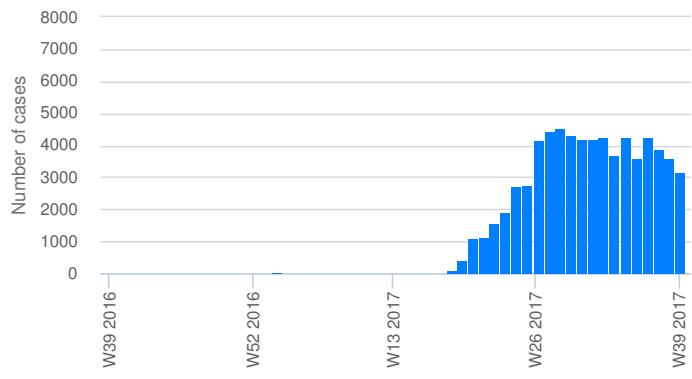


Figure 3l | Hajjah حجـة

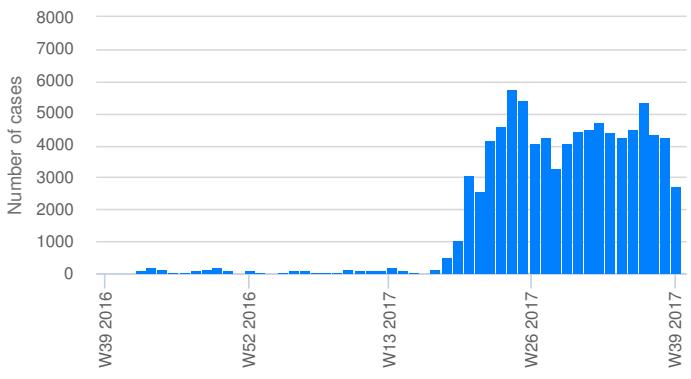


Figure 3m | Ibb إب

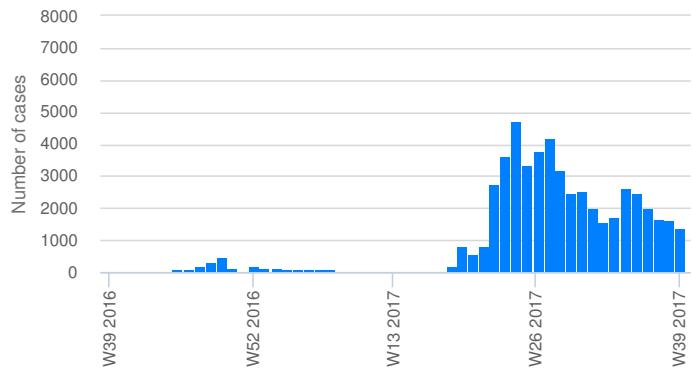


Figure 3n | Lahj لحج

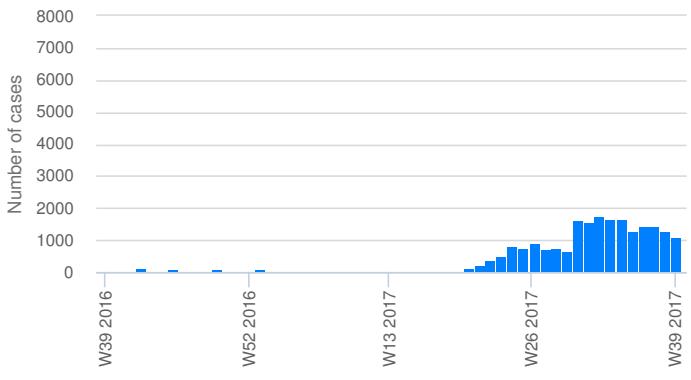


Figure 3o | Marib مأرب

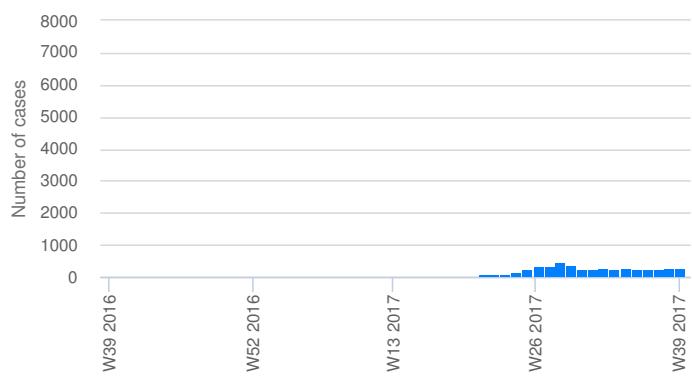


Figure 3p | Raymah رمـهـة

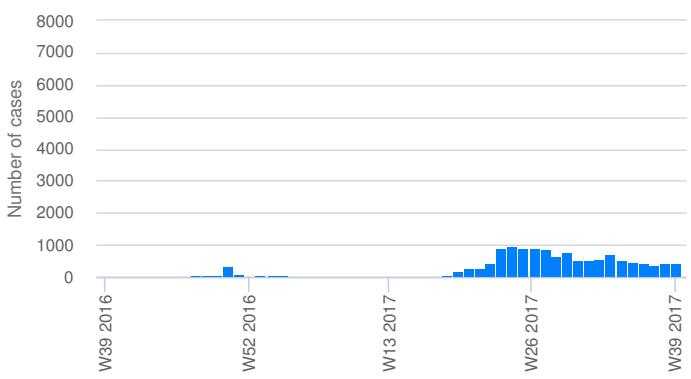


Figure 3q | Sa'ada سعده

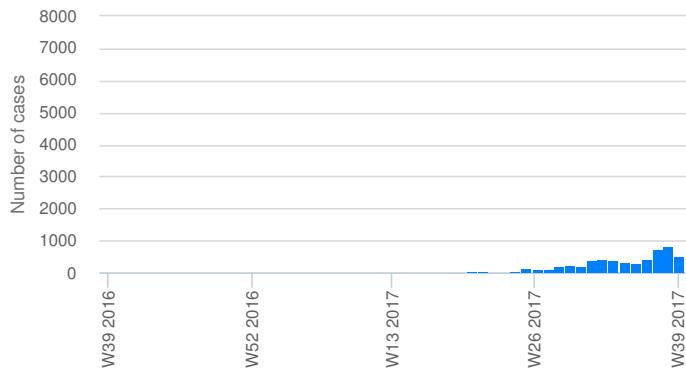


Figure 3s | Say'on سيون

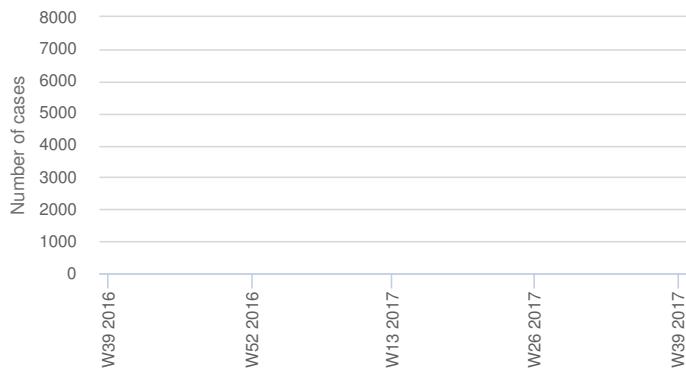


Figure 3v | Taizz تعز

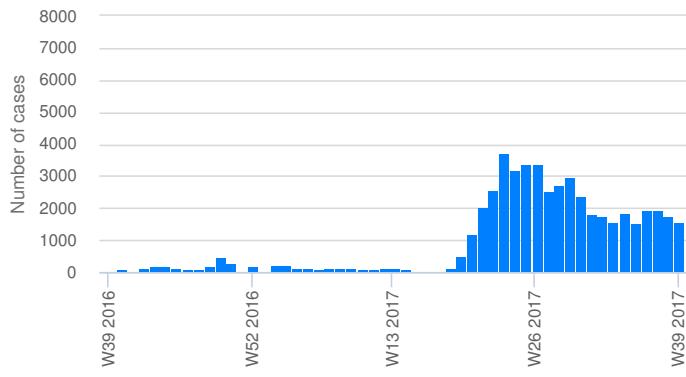


Figure 3r | Sana'a صنعاء

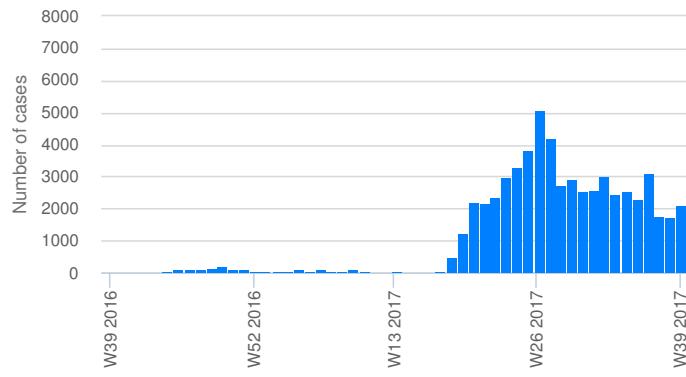
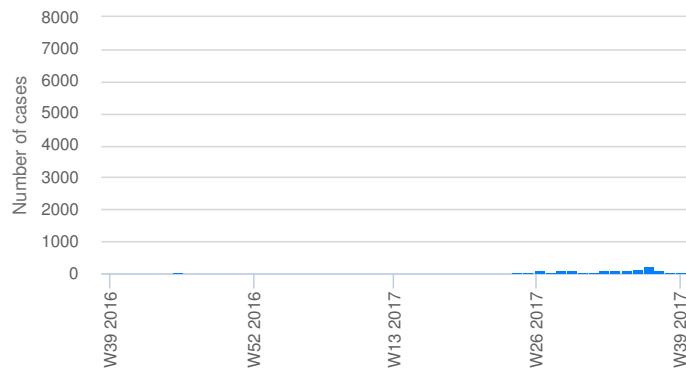


Figure 3t | Shabwah شبوه



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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>

