



اليمن Yemen

الاستجابة للكوليرا Cholera Response

برنامج الترصد الالكتروني للأمراض

Electronic Disease Early Warning System (eDEWS)

النشرة الوبائية الأسبوعية

Weekly Epidemiological Bulletin
W22 2018 (May 28-Jun 03)

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التوزيع الجغرافي مع مرور الوقت هـ

المديرية ذات الأولوية و

المنحنى الوبائي حسب المحافظة ز

Highlights

Cumulative figures

-The cumulative total from 27 April 2017 to 3 June 2018 is 1,105,371 suspected cholera cases and 2,300 associated deaths, (CFR 0.21%), 1132 have been confirmed by culture.

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

- The national attack rate is 394.3 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (921), Al Mahwit (896), Al Dhale'e (639), Sana'a (539), Dhamar (537),

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

- In total, 57,863 rapid diagnostic tests (RDT).

- 4,137 cultures have been performed which represents 26% coverage.

- The last positive culture was on 30 May 2018 in Al Mudhaffar district in Taizz governorate and in Ad Durayhimi district in Al Hudaydah governorate

- Since 1st of Jan 2018 the districts with highest cumulative suspected cases are Al Hali (5379), Radman Al Awad (2,115), Al Mighlaf (2,036), Al Sabaeen (1,986), Maqbanah (1,962),

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

- 158 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 W19 –W21 decrease or was stable in all governorates, except Al Mahwith (+27%), Al Baydha (+44%), Amanat Al Asimah (+25%), Ibb (+21%).

Trends

- The weekly proportion of severe cases has significantly decreased (now 15%).

Week 22 2018

- 2,089 suspected cases and 3 associated deaths were reported

- The districts reporting the highest number of cases are Al Hali (100), At Tawilah(85), Hamdan (79), At Taffah (75)

- 15 % are severe cases

- 2,086 RDTs were performed, 276 were positive

- 6 confirmed results and 7 negative results received this week

A. ملخص المؤشرات Summary indicators



Cholera Response | Cumulative figures from 27/04/2017 to 3/6/2018

1,105,371

حالات الاشتباه
Suspected cases

حالة في
الاسبوع الحالي
2,089 suspected cases
in current week

2,300

الوفيات
Associated deaths

حالة وفاة في
الاسبوع الحالي
3 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%

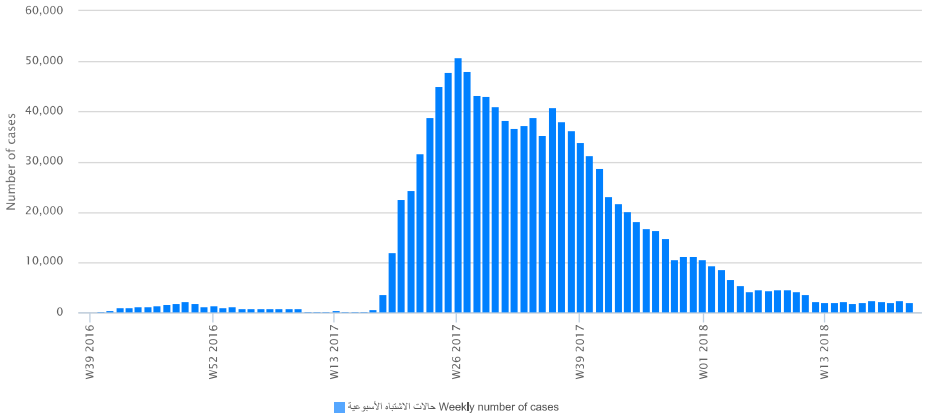
المدريات المتأثرة بالوباء
Districts
affected

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

B. المنحنى الوبائي Epidemic curve

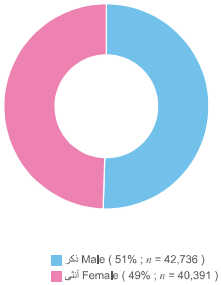
الشكل (1) المنحنى الوبائي على المستوى الوطني

Figure 1 | Epidemic curve (Country)



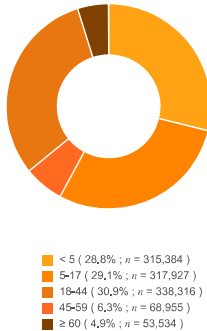
الشكل (2 أ) حالات الكوليرا على مستوى الجنس

Figure 2a Cases by sex (Cumul.)



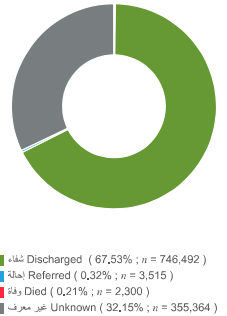
الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية

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

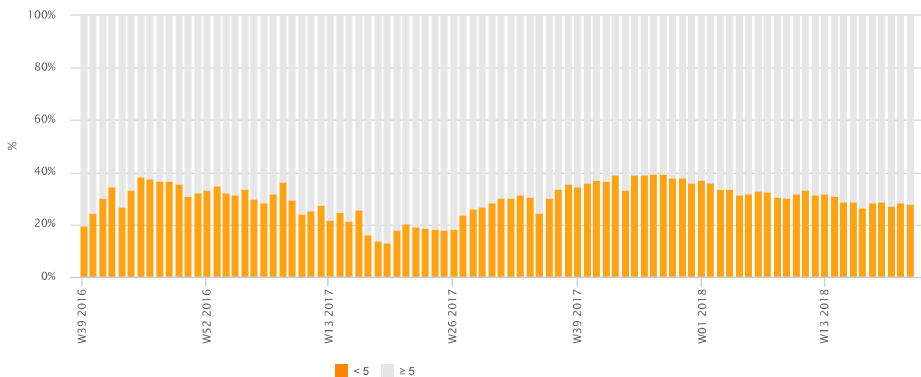
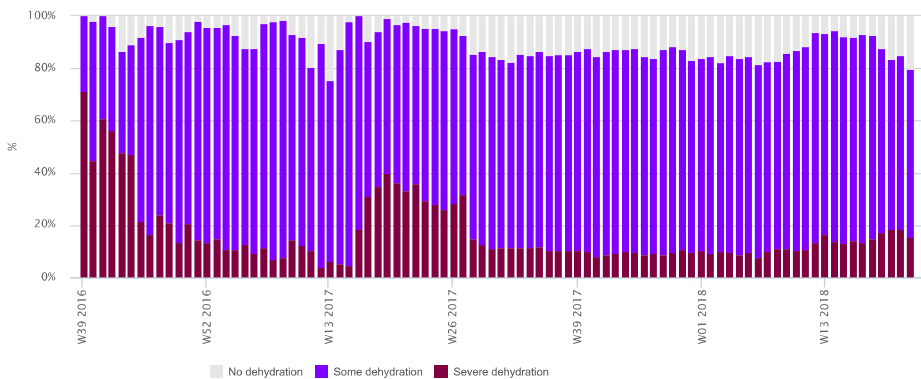


Figure 2e | Trend in proportion of cases by dehydration status¹



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. المحافظات 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 3/6/2018)				الاجزاء 3 اسابيع 3 week trend						
	حالات الاصابة Cases	الوفيات Deaths	معدل الامتته CFR ¹	السكان Population	معدل الإصابة AR ²	3 اسابيع -3W	2 اسابيع -2W	1 اسابيع -1W	الأسبوع الحالي W	التجاه Trend ³	
عمران Amran	107,383	184	0.17%	1,165,483	921.36	271	316	312	299	► 4%	
Al Mahwit المخويت	66,170	152	0.23%	737,706	896.97	154	157	229	212	▲ +27%	
Al Dhale'e الضلع	47,227	83	0.18%	739,837	638.34	7	7	11	16	▲ +32%	
Sana'a صنعاء	79,951	123	0.15%	1,480,633	539.98	280	335	350	413	► 9%	
Dhamar ذمار	109,192	165	0.15%	2,032,090	537.34	371	265	281	165	► -8%	
Hajjah حجة	121,439	424	0.35%	2,372,533	511.85	22	3	18	8	▲ +26%	
Al Hudaydah الحدودية	162,504	285	0.18%	3,267,639	497.31	421	276	387	379	► 7%	
Abyan أبين	28,243	35	0.12%	575,540	490.72	0	0	0	0	■ Interrupt	
Al Bayda البيضاء	35,412	40	0.11%	763,549	463.78	182	162	317	246	▲ +44%	
Amanat Al Asimah العاصمية	109,015	72	0.07%	2,879,513	378.59	176	171	247	182	▲ +25%	
Raymah ريمة	18,890	124	0.66%	612,591	308.36	46	39	34	53	▼ -14%	
Al Jawf الجوف	16,207	22	0.14%	582,657	278.16	18	1	5	4	▼ -37%	
Lahj لحج	24,351	22	0.09%	1,016,167	239.64	1	3	3	0	▲ +29%	
Ibb إب	70,566	299	0.42%	2,979,846	236.81	144	113	173	68	▲ +21%	
Aden عدن	20,995	62	0.30%	935,144	224.51	0	0	1	0	▲ +200%	
Taiz تيزع	66,657	190	0.29%	3,020,271	220.70	128	87	118	44	► 6%	
Marib مأرب	7,296	7	0.10%	362,362	201.35	0	0	0	0	■ Interrupt	
Sa'ada صعدة	10,713	5	0.05%	923,873	115.96	0	0	0	0	■ Interrupt	
Al Maharah المهرة	1,169	1	0.09%	150,716	77.56	0	0	0	0	■ Interrupt	
Shabwah شبوة	1,399	3	0.21%	609,259	22.96	0	0	0	0	■ Interrupt	
Mokilla المكلا	568	2	0.35%	445,396	12.75	0	0	0	0	■ Interrupt	
Say'on سيئون	24	0	0.00%	380,180	0.63	0	0	0	0	■ Interrupt	
Yemen اليمن	1,105,371	2,300	0.21%	28,032,985	394.31	2,221	1,935	2,486	2,089	▲ +12%	

¹ معدل الإماتة بين الحالات

² معدل الإصابة لكل 10,000 من السكان

³ تم حساب الاتجاه بناء على متوسط عدد الحالات خلال ثلاثة أسابيع سابقة (لم يتم تضمين الأسبوع الحالي في حساب الاتجاه 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 متبادل $\geq +10\%$
► مستقر	غير متبادل $> -10\%$ to $\leq +10\%$
▼ متناقص	غير متبادل $\leq -10\%$
■ انقطاع في الإرسال	عدد 0 حالة خلال 3 أسابيع متتالية

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

D. Laboratory

Figure 4 | RDT results by week

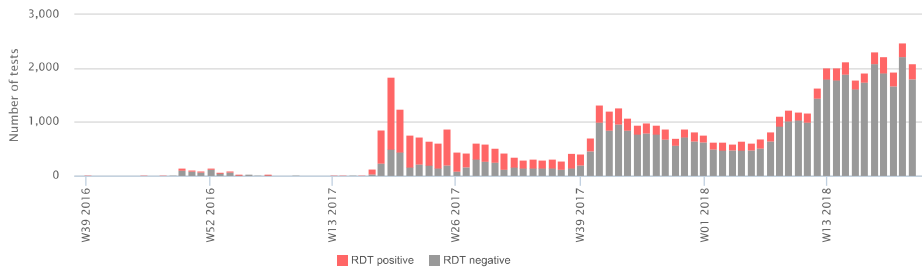
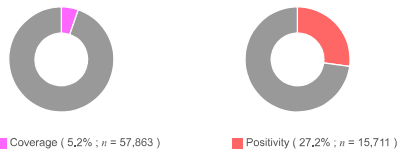
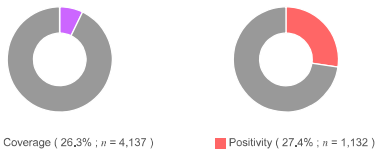


Figure 5 | Rapid Diagnostic Kit (RDT)



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

Figure 6 | Culture



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

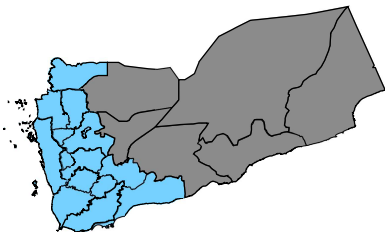
Table 2 | Summary of key laboratory indicators by Governorate

Governorate	Rapid Diagnostic Kit (RDT)					Culture			
	Cases	Total tested	Coverage	Total +ve	+ivity rate	Total tested	Coverage	Total +ve	+ivity rate
Abyan أبين	28,243	239	8.5%	152	63.6%	39	25.7%	23	59.0%
Aden عدن	20,995	589	28.1%	368	62.5%	174	47.3%	118	67.8%
Al Bayda البيضاء	35,412	5385	152.1%	1165	21.6%	298	25.6%	14	4.7%
Al Dhale'e الضالع	47,227	436	9.2%	160	36.7%	53	33.1%	3	5.7%
Al Hudaydah الحديدة	162,504	9067	55.8%	1787	19.7%	760	42.5%	244	32.1%
Al Jawf الجوف	16,207	1571	96.9%	929	59.1%	77	8.3%	12	15.6%
Al Maharah المحرة	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%
Al Mahwit المحويت	66,170	4000	60.5%	1255	31.4%	241	19.2%	13	5.4%
Amanat Al Asimah العاصمة	109,015	9247	84.8%	2765	29.9%	866	31.3%	193	22.3%
Amran عمران	107,383	5067	47.2%	1090	21.5%	205	18.8%	23	11.2%
Dhamar ذمار	109,192	7621	69.8%	650	8.5%	168	25.8%	23	13.7%
Hajjah حجة	121,439	915	7.5%	218	23.8%	68	31.2%	14	20.6%
Ibb إب	70,566	1880	26.6%	671	35.7%	139	20.7%	13	9.4%
Lahj لحج	24,351	1167	47.9%	593	50.8%	44	7.4%	18	40.9%
Marib مأرب	7,296	197	27.0%	128	65.0%	2	1.6%	0	0.0%
Mokilla المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
Raymah ريمة	18,890	987	52.2%	469	47.5%	55	11.7%	5	9.1%
Sa'ada صنعاء	10,713	922	86.1%	752	81.6%	12	1.6%	0	0.0%
Sana'a صنعاء	79,951	5692	71.2%	1163	20.4%	386	33.2%	45	11.7%
Say'on سيئون	24	23	958.3%	9	39.1%	12	133.3%	0	0.0%
Shabwah شبوة	1,399	127	90.8%	53	41.7%	51	96.2%	9	17.6%
Taizz تعز	66,657	2362	35.4%	1135	48.1%	407	35.9%	316	77.6%
Yemen اليمن	1,105,371	57,863	52.3%	15,711	27.2%	4,137	26.3%	1,132	27.4%

E. Geographic distribution over time

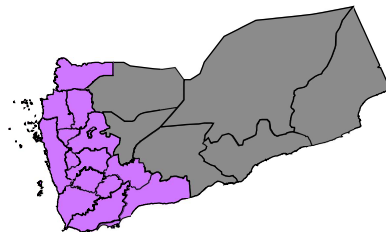
الخريطة (1 أ) عدد حالات الإصابة للمحافظات

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



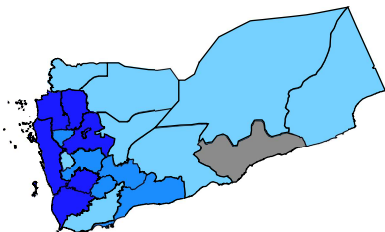
الخريطة (1 ب) معدل الإصابة للمحافظات

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



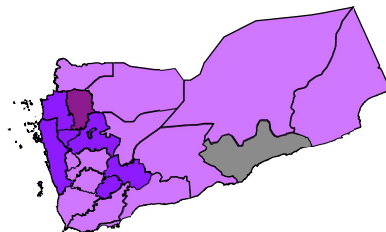
الخريطة (1 ج) عدد حالات الإصابة للمحافظات

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



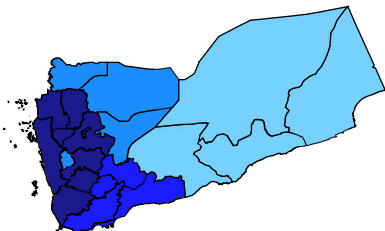
الخريطة (1 د) معدل الإصابة للمحافظات

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



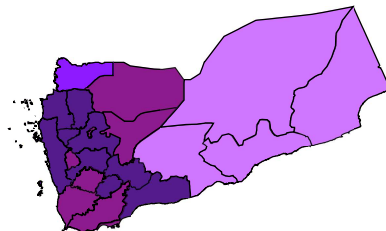
الخريطة (1 هـ) عدد حالات الإصابة للمحافظات

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



الخريطة (1 و) 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

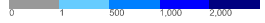
الخريطة (2) عدد حالات الإصابة الأولوية

Map 2 | Number of cases by district (W22 2018)

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عدد حالات الكوليرا

Number of cholera cases



الخريطة (3) معدل الإصابة الأولوية

Map 3 | Attack rate by district (W22 2018)

Loading...

معدل الإصابة لكل 10,000 من السكان

Attack rate (/10,000)



G. المحافظة المنحني الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين

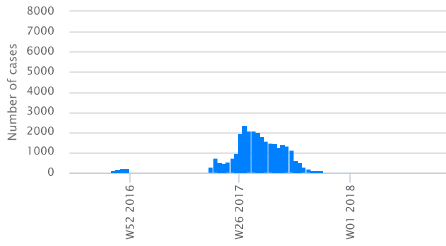


Figure 3b | Aden عدن

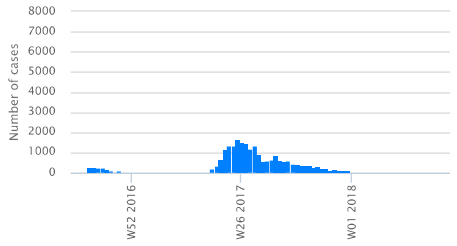


Figure 3c | Al Bayda البيضاء

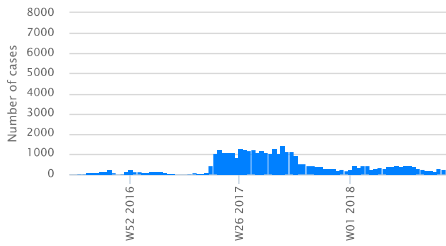


Figure 3d | Al Dhale'e الذوالعي

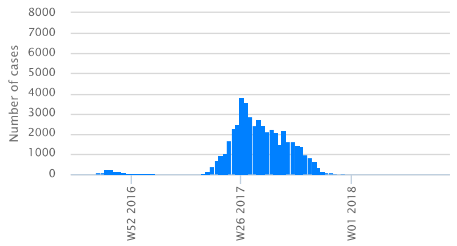


Figure 3e | Al Hudaydah الحديدة

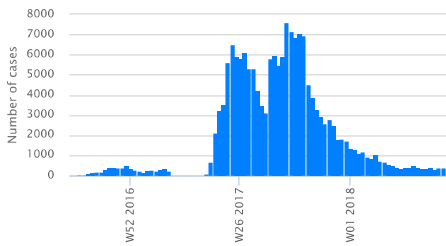


Figure 3f | Al Jawf الجوف

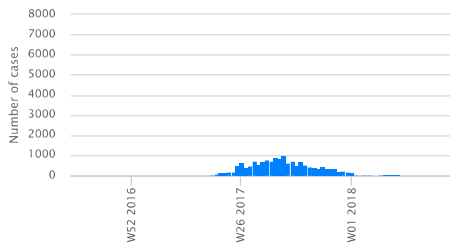


Figure 3g | Al Maharah المهرة

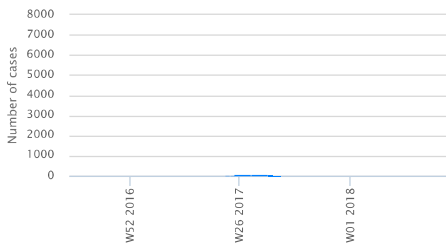


Figure 3h | Al Mahwit المحويت

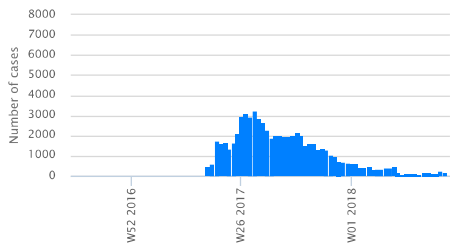


Figure 3i | Amanat Al Asimah أمانة العاصمة

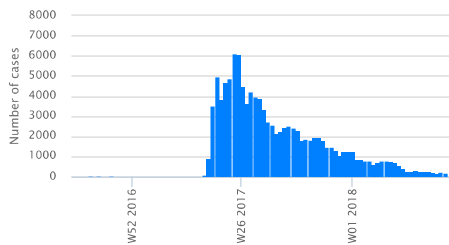


Figure 3j | Amran عمران

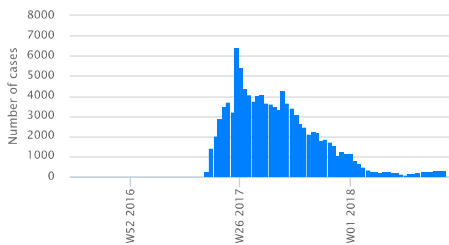


Figure 3k | Dhamar ذمار

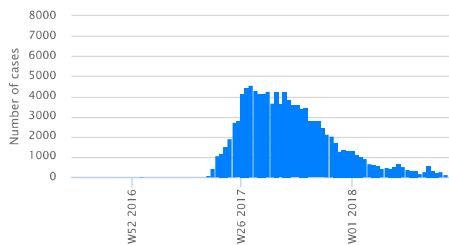


Figure 3l | Hajjah حجة

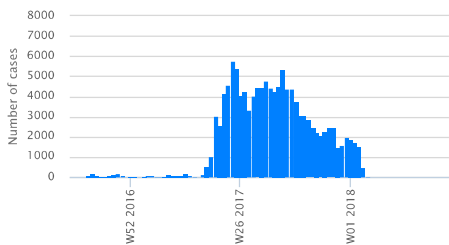


Figure 3m | Ibb إب

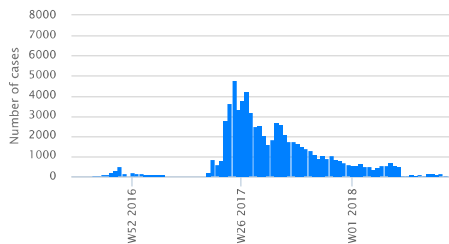


Figure 3n | Lahj لَحْج

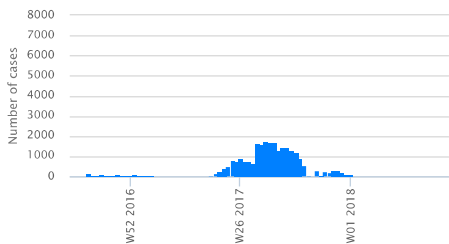


Figure 3o | Marib مارب

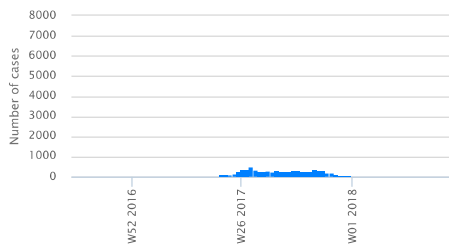


Figure 3p | Raymah ريمة

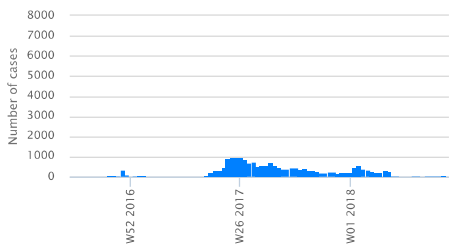


Figure 3q | Sa'ada صنعاء

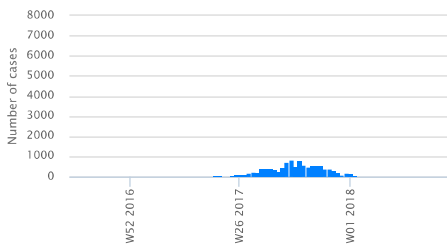


Figure 3r | Sana'a صنعاء

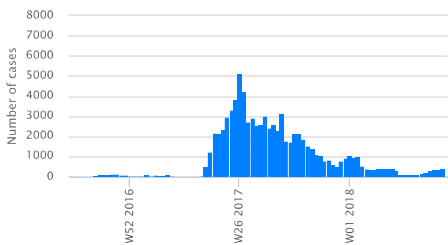


Figure 3s | Say'on سينون

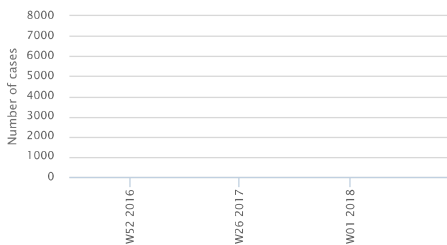


Figure 3t | Shabwah شبوة

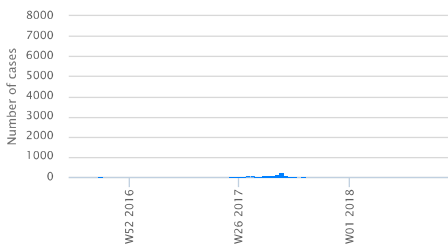
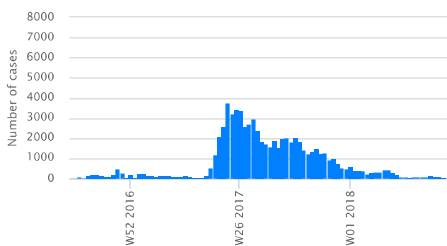


Figure 3v | Taizz تعز



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

