



Yemen اليمن

الاستجابة للكوليرا Cholera Response

برنامج الترصد الإلكتروني للأمراض

Electronic Disease Early Warning System (eDEWS)

النشرة الوبائية الأسبوعية

Weekly Epidemiological Bulletin

W19 2018 (May 07-May 13)

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Highlights

Cumulative figures

- The cumulative total from 27 April 2017 to 13 May 2018 is 1,098,737 suspected cholera cases and 2,288 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 392.3 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (913), Al Mahwit (889), Al Dhale'e (639), Dhamar (534), Sana'a (532)
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 51,240 rapid diagnostic tests (RDT).
- 3,711 cultures have been performed which represents 24.9% 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 (5044), Radman Al Awad (1,983), Al Sabaeen (1,907), Maqbanah (1,890), Al Mighlaf (1,759)
- 154 districts are still reporting suspected cholera cases since last 3 weeks
- 151 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 W16 –W18 decrease or was stable in all governorates, except Al Mahwit +23%, Dhamar +63%, Sana'a +28%, Ibb +43%.

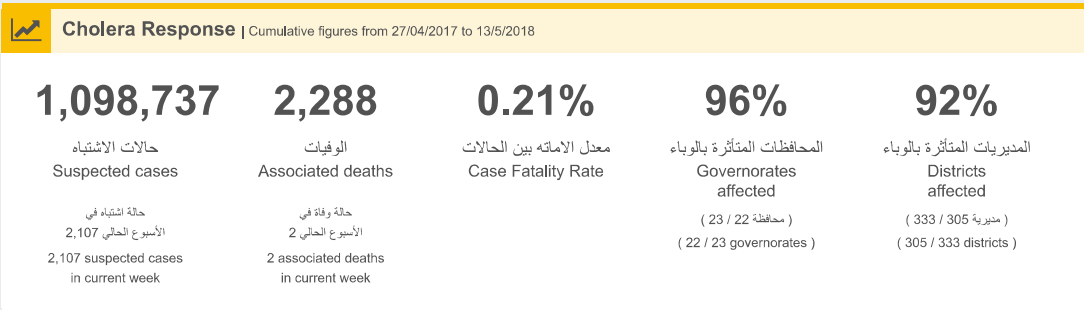
Trends

- The weekly proportion of severe cases has significantly decreased (now 18%).

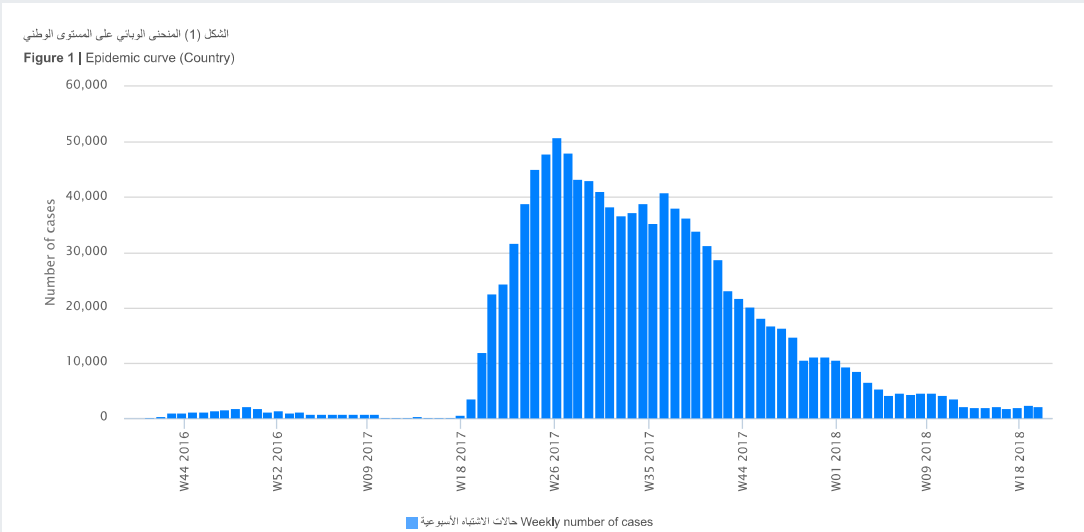
Week 19 2018

- 2,107 suspected cases and 2 associated deaths were reported
- The districts reporting the highest number of cases are Al Hali (100), Dhamar City (85), Al Mighlaf (77), Mukayras (74),
- 18 % are severe cases
- 2,105 RDTs were performed, 283 were positive
- no culture results received this week

A. ملخص المؤشرات Summary indicators

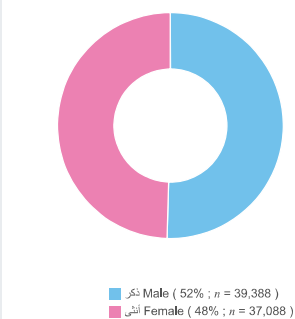


B. المنحنى الوبائي Epidemic curve



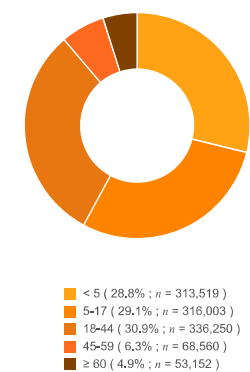
الشكل (2 أ) حالات الكوليرا على مستوى الجنس

Figure 2a Cases by sex (Cumul.)



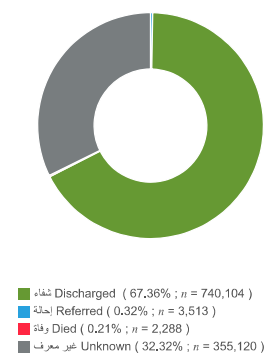
الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية

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

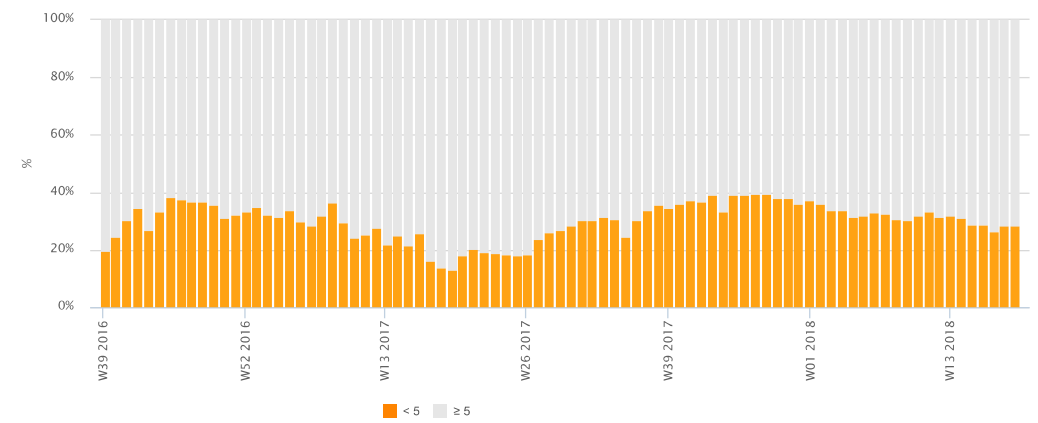
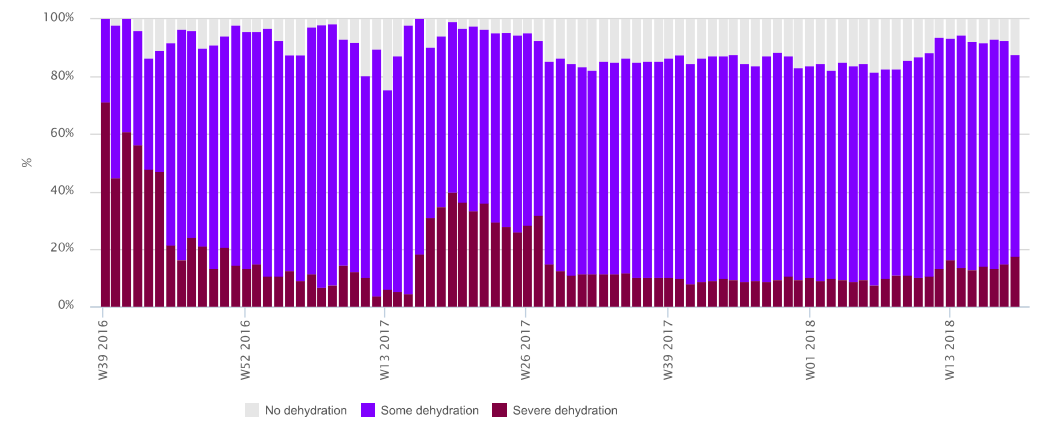


Figure 2e | Trend in proportion of cases by dehydration status¹



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 بالموشرات الرئيسية بالنسبة للمحافظات

Table 1 | Summary of key cholera indicators by Governorate

المحافظات Governorate	تراكمي Cumulative (27/04/2017 to 13/5/2018)	الاتجاه 3 اسابيع 3 week trend								
	حالات الاشتباه Cases	الوفيات Deaths	معدل الامانة CFR ¹	السكان Population	معدل الإصابة AR ²	اسباعي -3 -3W	اسباعي -2 -2W	اسباعي -1 -1W	الاسبوع الحالي W	اتجاه Trend ³
Amran عمران	106,448	183	0.17%	1,165,044	913.68	197	254	244	263	► 5%
Al Mahwit المحويت	65,571	152	0.23%	737,037	889.66	106	175	194	153	▲ +23%
Al Dhale'e الضالع	47,190	82	0.17%	739,093	638.49	6	7	8	4	▲ +14%
Dhamar ذمار	108,480	163	0.15%	2,030,321	534.30	176	322	593	370	▲ +63%
Sana'a صنعاء	78,852	123	0.16%	1,479,715	532.89	120	128	185	279	▲ +28%
Hajjah حجة	121,406	424	0.35%	2,368,714	512.54	6	12	19	18	▲ +54%
Al Hudaydah الحديدة	161,412	285	0.18%	3,265,011	494.37	419	347	363	375	► -4%
Abyan أبين	28,243	35	0.12%	575,120	491.08	0	0	0	0	■ Interrupt
Al Bayda البيضاء	34,679	38	0.11%	763,178	454.40	279	237	200	175	▼ -16%
Amanat Al Asimah العاصمة	108,385	72	0.07%	2,874,899	377.00	255	262	223	148	▼ -10%
Raymah ريمة	18,762	123	0.66%	612,072	306.53	32	24	44	44	▲ +32%
Al Jawf الجوف	16,197	22	0.14%	582,293	278.16	0	12	6	18	► 0%
Lahj لحج	24,345	22	0.09%	1,015,515	239.73	0	0	0	1	■ Interrupt
Ibb إب	70,203	294	0.42%	2,977,819	235.75	82	66	135	137	▲ +43%
Aden عدن	20,993	62	0.30%	934,060	224.75	0	0	0	0	■ Interrupt
Taizz تعز	66,402	190	0.29%	3,018,310	220.00	110	77	106	122	► 9%
Marib مارب	7,296	7	0.10%	362,021	201.54	0	0	0	0	■ Interrupt
Sa'ada صنععة	10,713	5	0.05%	922,202	116.17	0	0	1	0	▲ +200%
Al Maharah المهرية	1,169	1	0.09%	150,516	77.67	0	0	0	0	■ Interrupt
Shabwah شبوة	1,399	3	0.21%	608,811	22.98	0	0	0	0	■ Interrupt
Mokla المكلا	568	2	0.35%	445,001	12.76	0	0	0	0	■ Interrupt
Say'on سيئون	24	0	0.00%	379,828	0.63	0	0	0	0	■ Interrupt
Yemen اليمن	1,098,737	2,288	0.21%	28,006,579	392.31	1,788	1,923	2,321	2,107	▲ +15%

¹ معدل الإماتة بين الحالات

² معدل الإصابة لكل 10,000 من السكان

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

(لم يتم تضمين الاسبوع الحالي في حساب المتغير 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)

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

▲ متغير يرتفع	≥ +10%
► متغير مستقر	> -10% to < +10%
▼ متغير منخفض	≤ -10%
■ انقطاع في الإرسال	عدد 0 حالة خلال 3 اسابيع متتالية

D. Laboratory

Figure 4 | RDT results by week

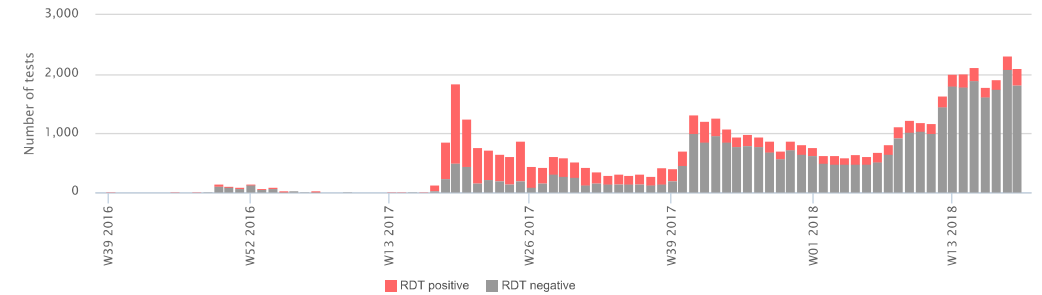
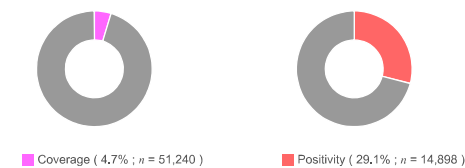


Figure 5 | Rapid Diagnostic Kit (RDT)

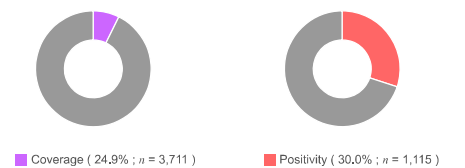


*Coverage of RDT is calculated based on (Number of RDT performed/Number of suspected cases)

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	20,993	587	28.0%	366	62.4%	173	47.3%	118	68.2%	
Al Bayda البعيدة	34,679	4653	134.2%	1084	23.3%	293	27.0%	9	3.1%	
Al Dhale'e الضالع	47,190	400	8.5%	140	35.0%	45	32.1%	3	6.7%	
Al Hudaydah الحديدة	161,412	7975	49.4%	1688	21.2%	549	32.5%	235	42.8%	
Al Jawf الجوف	16,197	1561	96.4%	928	59.4%	74	8.0%	12	16.2%	
Al Maharah المهره	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%	
Al Mahwit المحويت	65,571	3401	51.9%	1186	34.9%	200	16.9%	13	6.5%	
Amanat Al Asimah امنه العاصمة	108,385	8617	79.5%	2660	30.9%	803	30.2%	192	23.9%	
Amran عمران	106,448	4133	38.8%	950	23.0%	173	18.2%	23	13.3%	
Dhamar ذمار	108,480	6911	63.7%	612	8.9%	168	27.5%	23	13.7%	
Hajjah حجة	121,406	882	7.3%	212	24.0%	68	32.1%	14	20.6%	
Ibb إب	70,203	1522	21.7%	621	40.8%	129	20.8%	13	10.1%	
Lahj لحج	24,345	1161	47.7%	588	50.6%	44	7.5%	18	40.9%	
Marib مأرب	7,296	197	27.0%	128	65.0%	2	1.6%	0	0.0%	
Mokila المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%	
Raymah ريمة	18,762	860	45.8%	447	52.0%	50	11.2%	5	10.0%	
Sa'ada صنعاء	10,713	922	86.1%	752	81.6%	12	1.6%	0	0.0%	
Sana'a صنعاء	78,852	4593	58.2%	1015	22.1%	341	33.6%	45	13.2%	
Say'on سلون	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	66,402	2107	31.7%	1108	52.6%	405	36.6%	314	77.5%	
Yemen اليمن	1,098,737	51,240	46.6%	14,898	29.1%	3,711	24.9%	1,115	30.0%	

Figure 6 | Culture

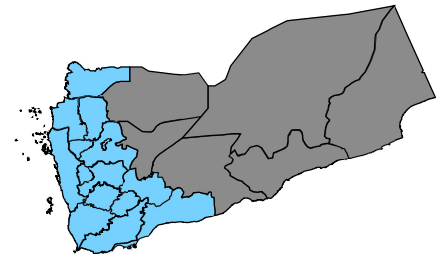


*Coverage of culture is calculated based on (Number of culture performed/Number of positive RDT)

E. التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

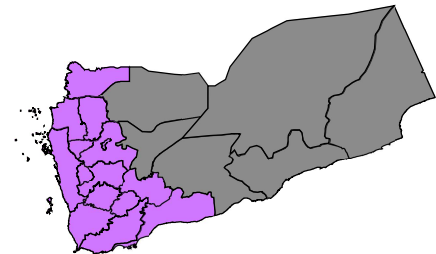
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



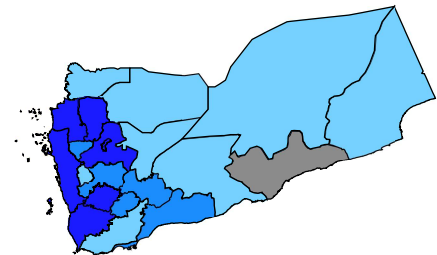
الخريطة (1 ب) معدل الإصابة للمحافظات

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



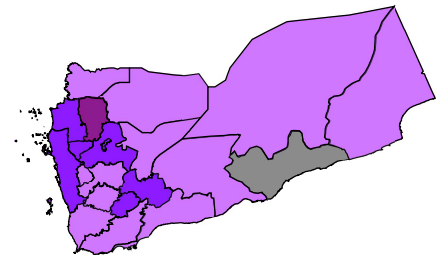
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



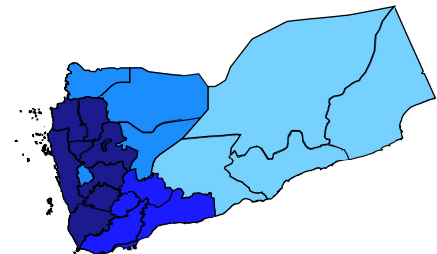
الخريطة (1 ب) معدل الإصابة للمحافظات

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



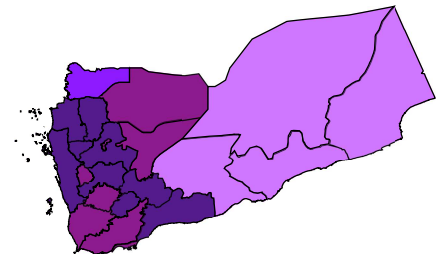
الخريطة (1 أ) عدد حالات الإسهال للمحافظات

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



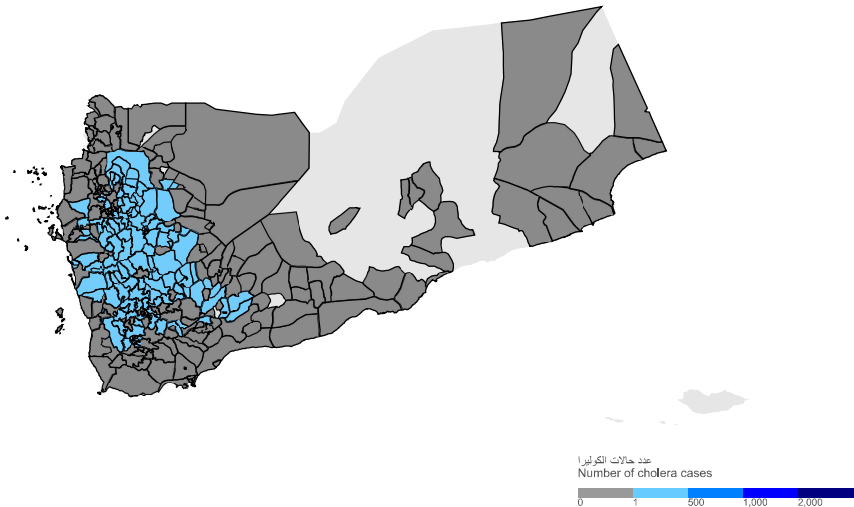
الخريطة (1 ب) معدل الإصابة للمحافظات

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

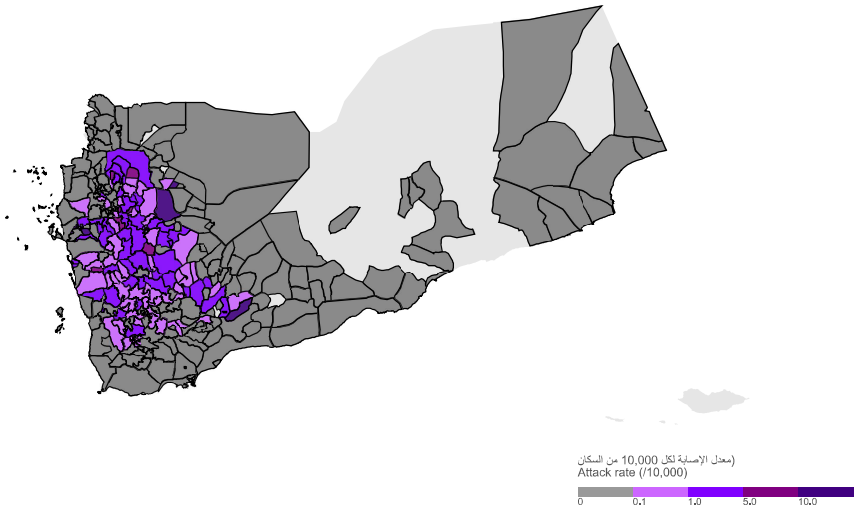


F. المديريات ذات الأولوية Districts reporting in current week

الخريطة (2) عدد حالات الإسهال الأولوية
Map 2 | Number of cases by district (W19 2018)



الخريطة (3) معدل الإصابة الأولوية
Map 3 | Attack rate by district (W19 2018)



G. Epidemic curves by Governorate المنحى الوبائي حسب المحافظة

Figure 3a | Abyan أبين

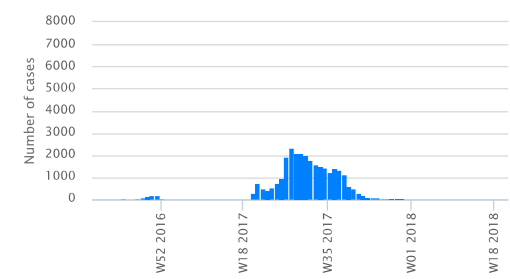


Figure 3b | Aden عدن

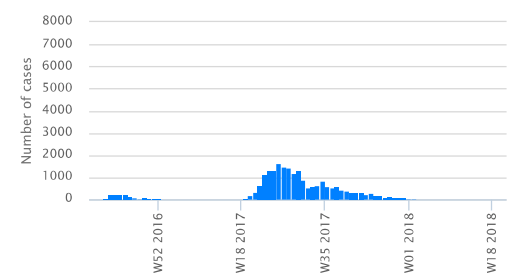


Figure 3c | Al Bayda البيضاء

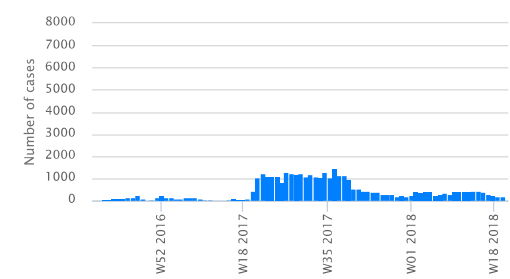


Figure 3d | Al Dhale'e الضالع

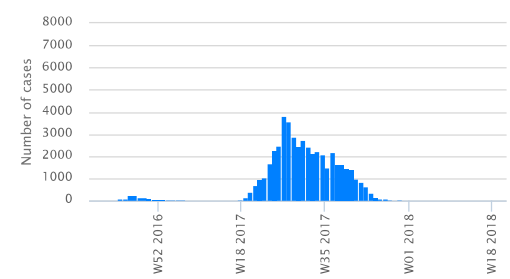


Figure 3e | Al Hudaydah الحديدة

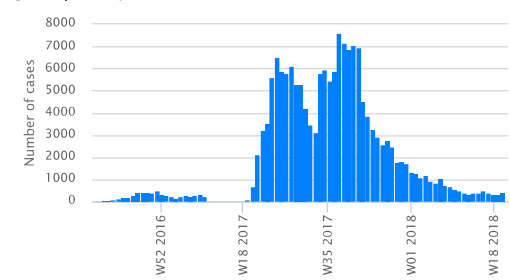


Figure 3f | Al Jawf الجوف

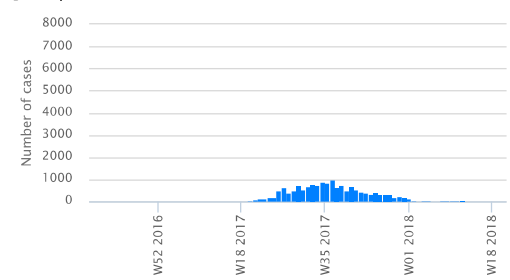


Figure 3g | Al Maharah المهرة

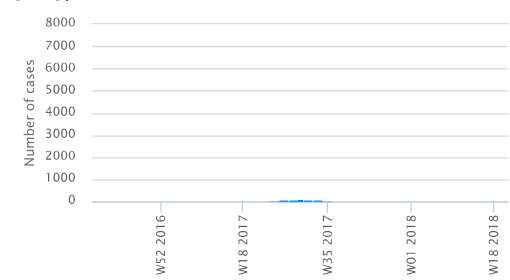


Figure 3h | Al Mahwit المحويت

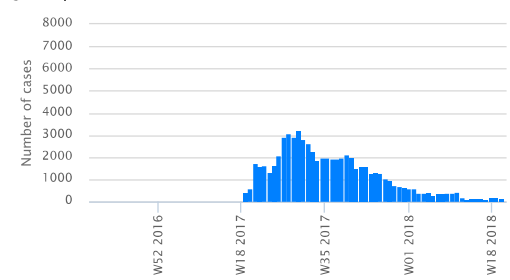


Figure 3i | Amanat Al Asimah أمانة العاصمة

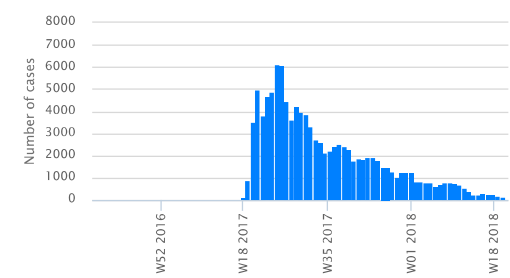


Figure 3j | Amran عمران

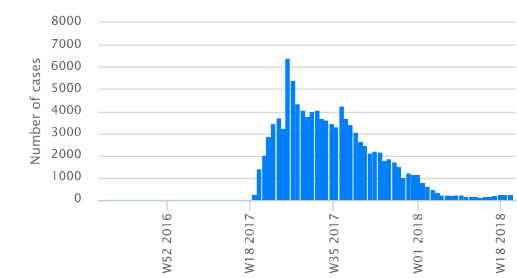


Figure 3k | Dhamar ذمار

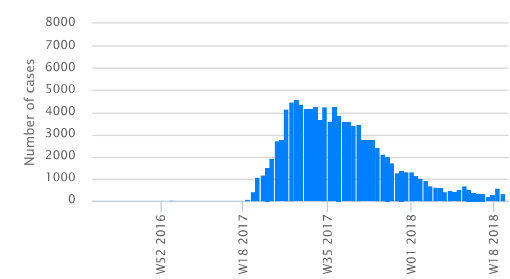


Figure 3l | Hajjah حجة

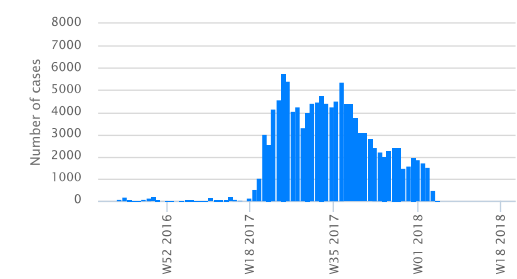


Figure 3m | Ibb إب

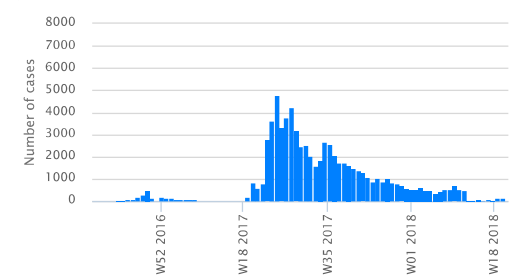


Figure 3n | Lahj لحج

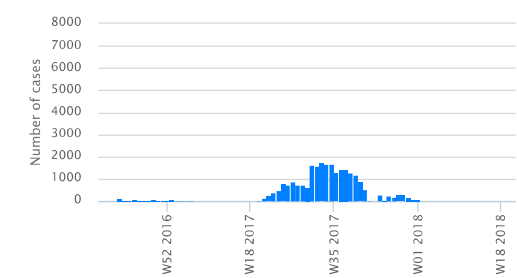


Figure 3o | Marib مأرب

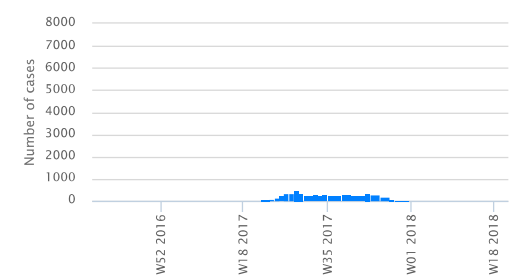


Figure 3p | Raymah ريمة

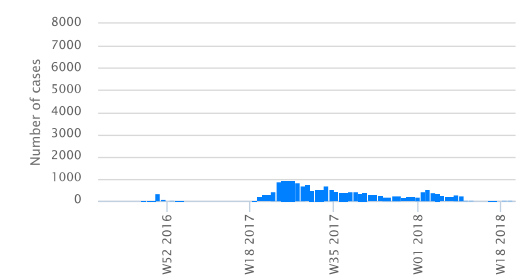


Figure 3q | Sa'ada صنعاء

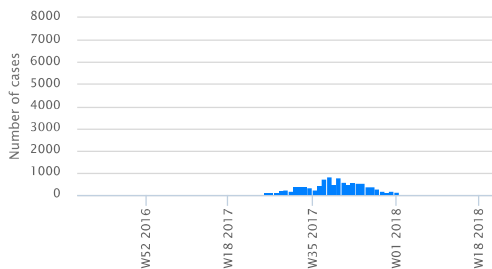


Figure 3r | Sana'a صنعاء

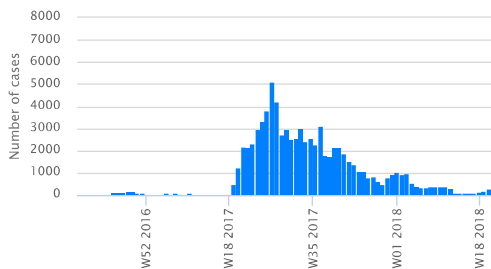


Figure 3s | Say'un سيئون

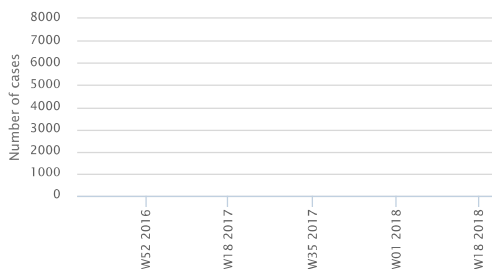


Figure 3t | Shabwah شبوة

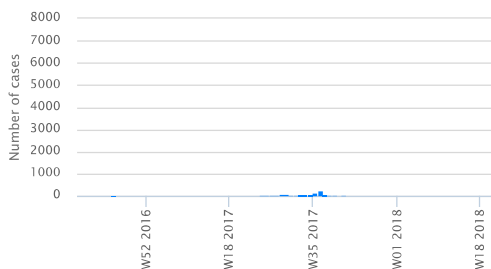
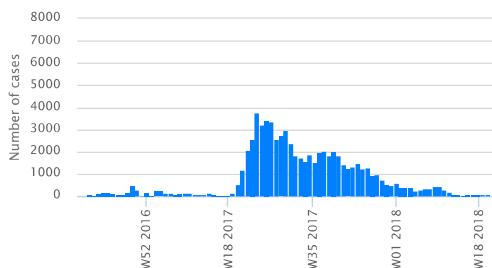


Figure 3v | Taizz تعز



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 الرصد والاستجابة لوباء
الكوليرا في اليمن <http://ye.ewars.ws/login>



World Health Organization