Table of Contents جدول المحتويات

Highlights

Cumulative figures
-The cumulative total from 27 April 2017 to 8 April 2018 is 1,088,030 suspected cholera cases and 2,272 associated deaths, (CFR 0.21%), 1113 have been confirmed by culture.
- The total proportion of severe cases among the suspected cases is 15.4%
- The national attack rate is 389.2 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (904), Al Mahwit (880), Al Dhale'e (639), Sana'a (528) and Dhamar (526).
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 40,544 rapid diagnostic tests (RDT).
- 3,027 cultures have been performed which represents 22% coverage.
- The last positive culture was on 9 Mar 2018 in Al Hali district in Al Hudeideh governorate
- Since 1st of Jan 2018 the districts with highest cumulative suspected cases are Al Hali (4281), Maqbanah (1,795), Radman Al Awad (1,621), Al Sabaeen (1,616), Bani Al Harith (1,478)
- 158 districts are still reporting suspected cholera cases since last 3 weeks
- 147 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 W11 –W13 decrease or was stable in all governorates.

Trends
- The trend of weekly number of cases is decreasing since week 36.
- The weekly proportion of severe cases has significantly decreased (now 15%).

Week 14 2018
- 1,721 suspected cases and 1 associated deaths were reported
- The districts reporting the highest number of cases are Radman Al Awad (125), Al Hali (120), Dhamar City (76), Ash Sharyah (72).
- 15 % are severe cases
- 1,721 RDTs were performed, 180 were positive
- no culture results received this week

📈 **Cholera Response** | Cumulative figures from 27/04/2017 to 8/4/2018

1,088,030	**2,272**	**0.21%**	**96%**	**92%**
حالات الاشتباه	الوفيات	معدل الاماته بين الحالات	المحافظات المتأثرة بالوباء	المديريات المتأثرة بالوباء
Suspected cases	Associated deaths	Case Fatality Rate	Governorates affected	Districts affected
حالة اشتباه في الأسبوع الحالي 1,721	حالة وفاة في الأسبوع الحالي 1		(محافظة 22 / 23)	(مديرية 305 / 333)
1,721 suspected cases in current week	1 associated deaths in current week		(22 / 23 governorates)	(305 / 333 districts)

B. المنحنى الوبائي **Epidemic curve**

الشكل (1) المنحنى الوبائي على المستوى الوطني
Figure 1 | Epidemic curve (Country)

حالات الاشتباه الأسبوعية **Weekly number of cases**
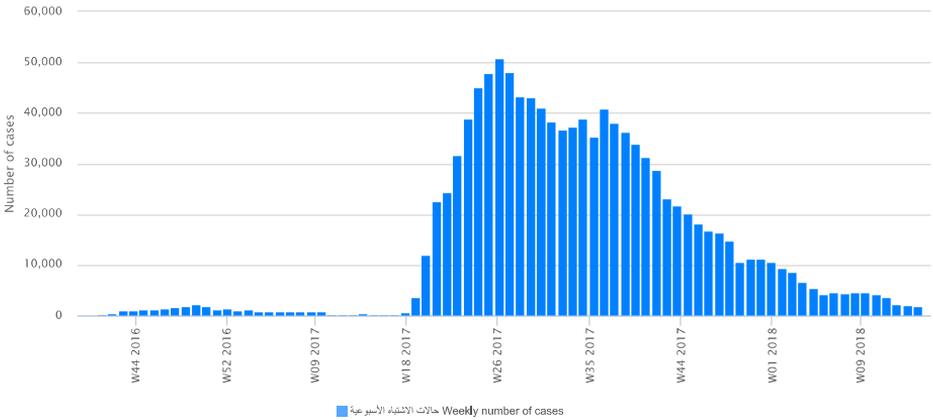
الشكل (2 أ) حالات الكوليرا على مستوى الجنس
Figure 2a Cases by sex (Cumul.)

- Male ذكر (52% ; n = 33,990)
- Female أنثى (48% ; n = 31,626)
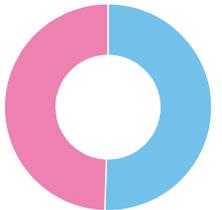
الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية
Figure 2b Cases by age (Cumul.)
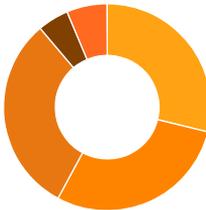
- < 5 (28.8% ; n = 310,476)
- 5-17 (29.0% ; n = 312,771)
- 18-44 (30.9% ; n = 333,111)
- 45-59 (6.3% ; n = 67,861)
- ≥ 60 (4.9% ; n = 52,565)

الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض
Figure 2c Cases by outcome (Cumul.)
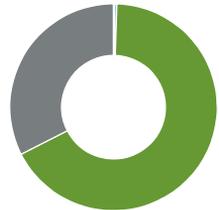
- Discharged شفاء (67.08% ; n = 729,888)
- Referred احالة (0.32% ; n = 3,483)
- Died وفاة (0.21% ; n = 2,272)
- Unknown غير معرف (32.60% ; n = 354,659)

Trends in cases by age distribution and dehydration status

Figure 2d | Trend in proportion of cases aged under 5[1]

Legend: ■ < 5 ■ ≥ 5
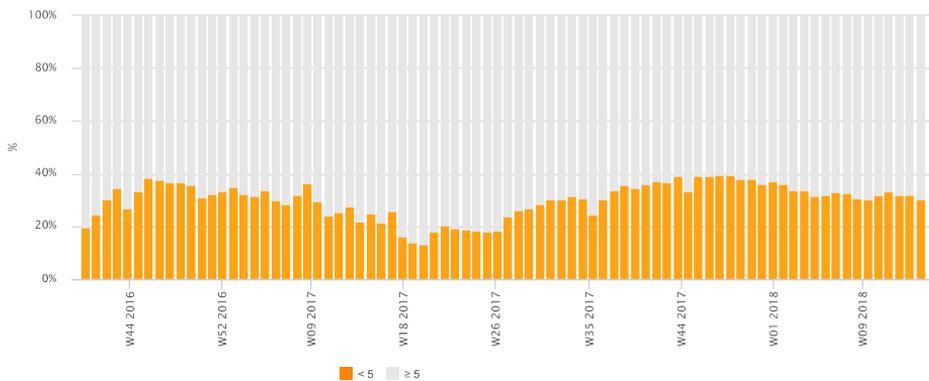
Figure 2e | Trend in proportion of cases by dehydration status[1]

Legend: ■ No dehydration ■ Some dehydration ■ Severe dehydration
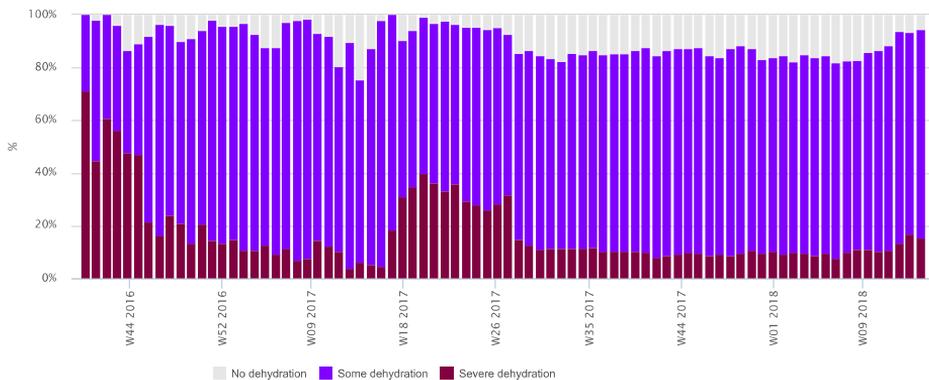
[1] Trends in proportional age distribution and dehydration status always add up to 100% and do not give any indication of the number of cases reported. For this reason, these may reflect cases that are not visible in the epidemic curve due to the scale of the y-axis and the huge difference in the case counts between the first and second waves of the outbreak.

C. المؤشرات الرئيسية حسب المحافظة Key indicators by governorate

Table 1 | Summary of key cholera indicators by Governorate

للمحافظات Governorate	تراكمي Cumulative (27/04/2017 to 8/4/2018)					الاتجاه 3 أسابيع 3 week trend				
	حالات الاشتباه Cases	الوفيات Deaths	معدل الاماتة CFR[1]	السكان Population	معدل الإصابة AR[2]	3- أسابيع -3W	2- أسابيع -2W	1- أسابيع -1W	الأسبوع الحالي W	اتجاه Trend[3]
Amran عمران	105,273	179	0.17%	1,164,194	904.26	204	128	111	145	▼ -25%
Al Mahwit المحويت	64,768	151	0.23%	735,743	880.31	203	119	128	123	▼ -15%
Al Dhale'e الضالع	47,162	82	0.17%	737,653	639.35	7	1	9	3	▲ +59%
Sana'a صنعاء	78,054	123	0.16%	1,477,940	528.13	290	87	99	98	▼ -38%
Dhamar ذمار	106,689	162	0.15%	2,026,899	526.37	699	542	389	323	▼ -28%
Hajjah حجة	121,342	423	0.35%	2,361,329	513.87	10	7	10	6	▲ +11%
Abyan أبين	28,243	35	0.12%	574,307	491.77	0	0	0	0	■ Interrupt
Al Hudaydah الحديدة	159,334	284	0.18%	3,259,931	488.76	421	357	408	298	► 3%
Al Bayda البيضاء	33,362	37	0.11%	762,460	437.56	442	408	434	402	► 1%
Amanat Al Asimah أمانة العاصمة	107,059	71	0.07%	2,865,980	373.55	522	399	246	178	▼ -37%
Raymah ريمة	18,558	120	0.65%	611,068	303.70	38	19	16	16	▼ -34%
Al Jawf الجوف	16,161	22	0.14%	581,591	277.88	25	4	0	0	▼ -100%
Lahj لحج	24,344	22	0.09%	1,014,255	240.02	0	0	0	0	■ Interrupt
Ibb إب	69,679	291	0.42%	2,973,900	234.30	491	39	65	74	▼ -67%
Aden عدن	20,993	62	0.30%	931,963	225.26	0	0	0	0	■ Interrupt
Taizz تعز	65,841	190	0.29%	3,014,519	218.41	170	69	63	55	▼ -37%
Marib مأرب	7,296	7	0.10%	361,362	201.90	0	0	0	0	■ Interrupt
Sa'ada صعدة	10,712	5	0.05%	918,970	116.57	1	0	0	0	▼ -100%
Al Maharah المهرة	1,169	1	0.09%	150,130	77.87	0	0	1	0	▲ +200%
Shabwah شبوة	1,399	3	0.21%	607,945	23.01	0	0	0	0	■ Interrupt
Moklla المكلا	568	2	0.35%	444,238	12.79	0	0	0	0	■ Interrupt
Say'on سيئون	24	0	0.00%	379,147	0.63	1	0	0	0	▼ -100%
Yemen اليمن	**1,088,030**	**2,272**	**0.21%**	**27,955,526**	**389.20**	**3,524**	**2,179**	**1,979**	**1,721**	▼ **-23%**

D. Laboratory

Figure 4 | RDT results by week

■ RDT positive ■ RDT negative
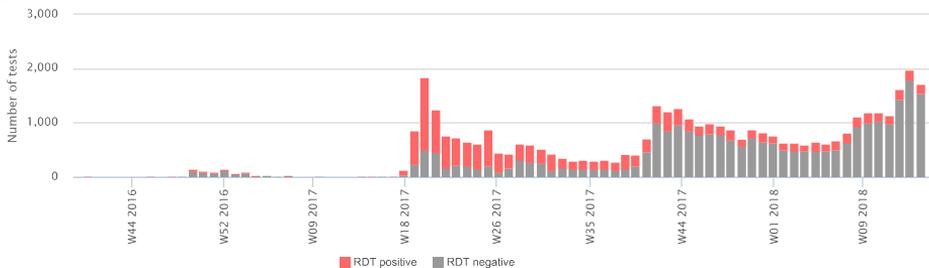
Figure 5 | Rapid Diagnostic Kit (RDT)

■ Coverage (3.7% ; *n* = 40,544)   ■ Positivity (33.9% ; *n* = 13,737)

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

Figure 6 | Culture

■ Coverage (22.0% ; *n* = 3,027)   ■ Positivity (36.8% ; *n* = 1,113)

*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	20,993	587	28.0%	366	62.4%	173	47.3%	118	68.2%
Al Bayda البيضاء	33,362	3336	100.0%	995	29.8%	194	19.5%	9	4.6%
Al Dhale'e الضالع	47,162	372	7.9%	134	36.0%	43	32.1%	3	7.0%
Al Hudaydah الحديدة	159,334	5897	37.0%	1461	24.8%	547	37.4%	234	42.8%
Al Jawf الجوف	16,161	1525	94.4%	924	60.6%	72	7.8%	12	16.7%
Al Maharah المهرة	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%
Al Mahwit المحويت	64,768	2599	40.1%	1079	41.5%	123	11.4%	13	10.6%
Amanat Al Asimah أمانة العاصمة	107,059	7291	68.1%	2497	34.2%	495	19.8%	191	38.6%
Amran عمران	105,273	2961	28.1%	794	26.8%	109	13.7%	23	21.1%
Dhamar ذمار	106,689	5120	48.0%	554	10.8%	127	22.9%	23	18.1%
Hajjah حجة	121,342	819	6.7%	199	24.3%	46	23.1%	14	30.4%
Ibb إب	69,679	1001	14.4%	555	55.4%	107	19.3%	13	12.1%
Lahj لحج	24,344	1160	47.7%	588	50.7%	44	7.5%	18	40.9%
Marib مأرب	7,296	197	27.0%	128	65.0%	2	1.6%	0	0.0%
Moklla المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
Raymah ريمة	18,558	659	35.5%	409	62.1%	36	8.8%	5	13.9%
Sa'ada صعدة	10,712	921	86.0%	752	81.7%	12	1.6%	0	0.0%
Sana'a صنعاء	78,054	3795	48.6%	897	23.6%	313	34.9%	45	14.4%
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	65,841	1546	23.5%	992	64.2%	402	40.5%	314	78.1%
Yemen اليمن	**1,088,030**	**40,544**	**37.3%**	**13,737**	**33.9%**	**3,027**	**22.0%**	**1,113**	**36.8%**

E. التوزيع الجغرافي مع مرور الوقت Geographic distribution over time

الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
Map 1a | Number of cases by governorate (Jan 2017 – Apr 2017)
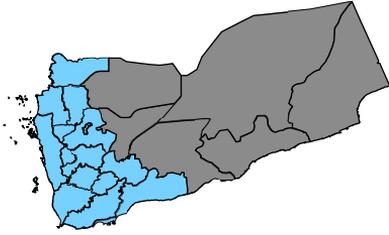
الخريطة (1 ب) معدل الإصابة للمحافظات
Map 1b | Attack rate by governorate (Jan 2017 – Apr 2017)
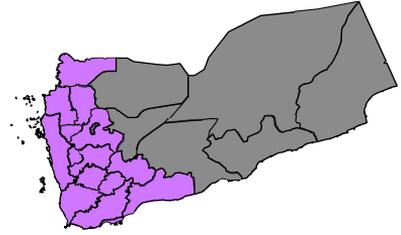
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
**Map 1c** | Number of cases by governorate (Jan 2017 – Jun 2017)
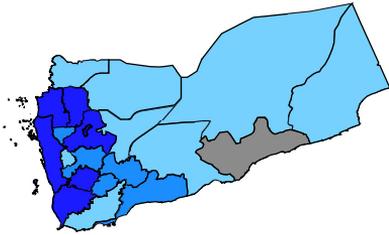
الخريطة (1 ب) معدل الإصابة للمحافظات
Map 1d | Attack rate by governorate (Jan 2017 – Jun 2017)
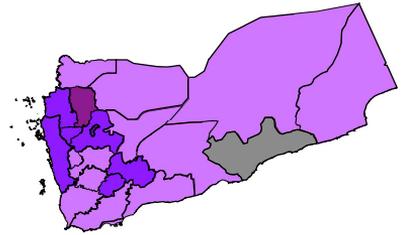
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
Map 1e | Number of cases by governorate (Jan 2017 – present)
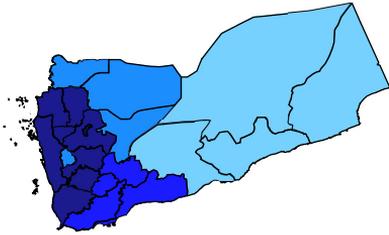
الخريطة (1 ب) معدل الإصابة للمحافظات
Map 1f | Attack rate by governorate (Jan 2017 – present)
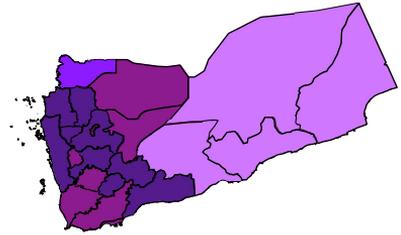
عدد حالات الكوليرا
Number of cholera cases

0   1   10,000   20,000   50,000

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

0   0.1   100.0   200.0   400.0

الخريطة (2 أ) عدد حالات الاشتباه الأولوية
Map 2 | Number of cases by district (W14 2018)

عدد حالات الكوليرا
Number of cholera cases

| 0 | 1 | 500 | 1,000 | 2,000 |
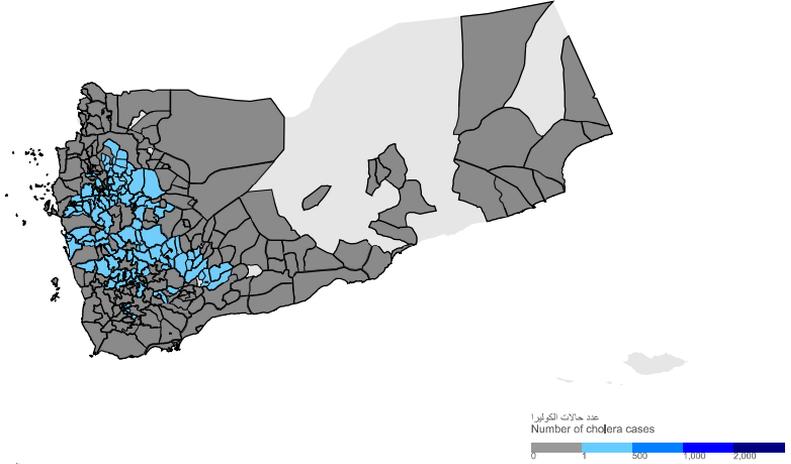
الخريطة (3 ب) معدل الاصابة الأولوية
Map 3 | Attack rate by district (W14 2018)

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

| 0 | 0.1 | 1.0 | 5.0 | 10.0 |
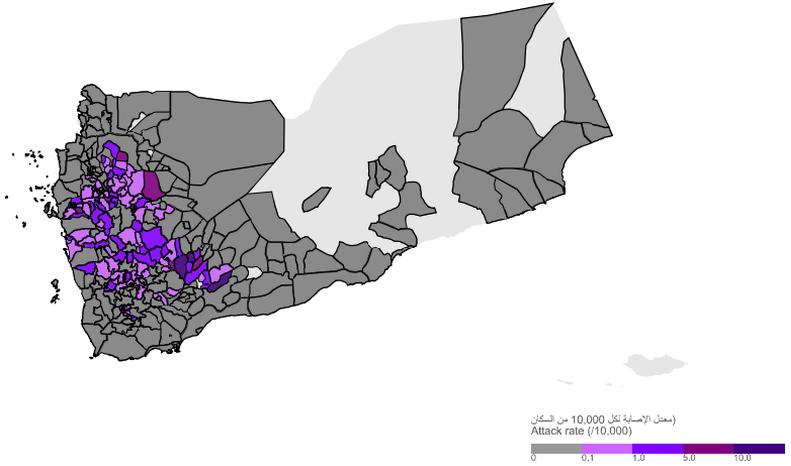
G. المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين
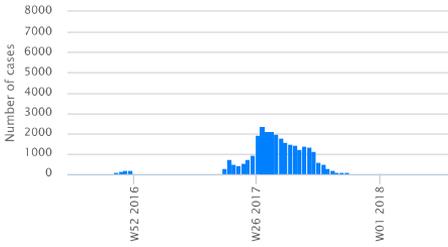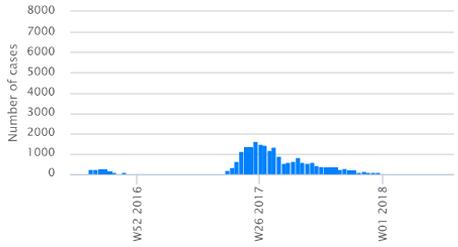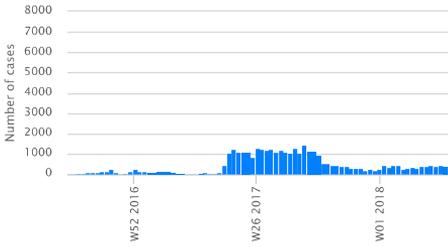
Figure 3b | Aden عدن

Figure 3c | Al Bayda البيضاء

Figure 3d | Al Dhale'e الضالع
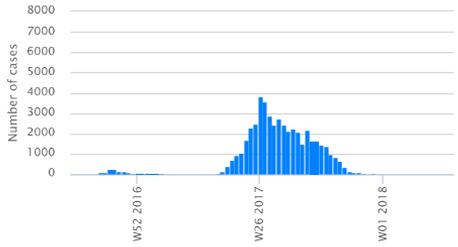
Figure 3e | Al Hudaydah الحديدة
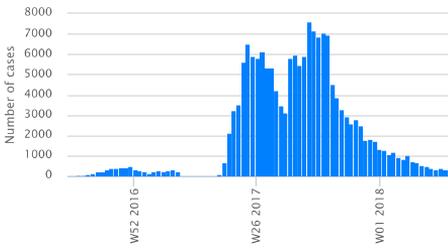
Figure 3f | Al Jawf الجوف
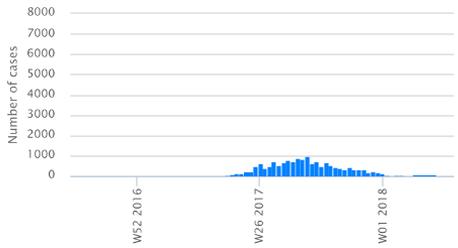
Figure 3g | Al Maharah المهرة
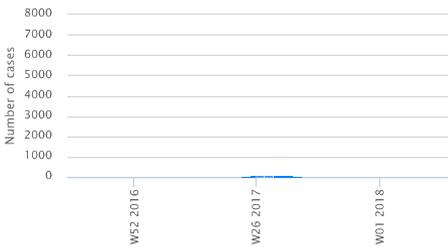
Figure 3h | Al Mahwit المحويت
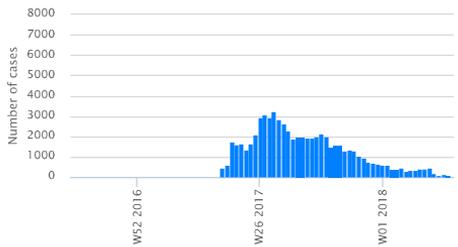
Figure 3i | Amanat Al Asimah أمانة العاصمة
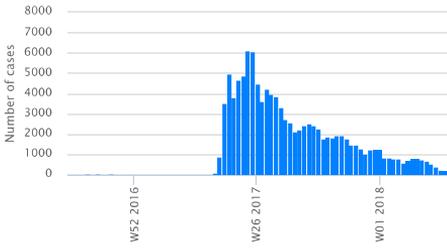
Figure 3j | Amran عمران
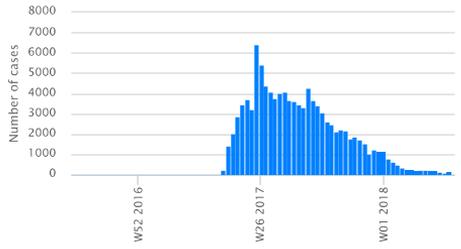
Figure 3k | Dhamar ذمار
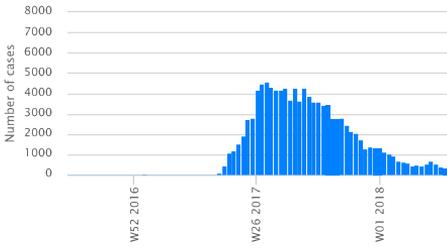
Figure 3l | Hajjah حجة
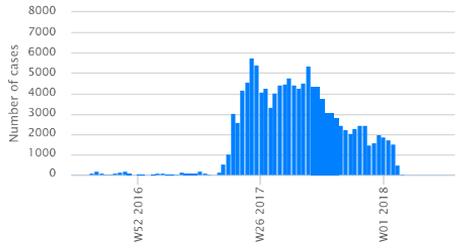
Figure 3m | Ibb إب
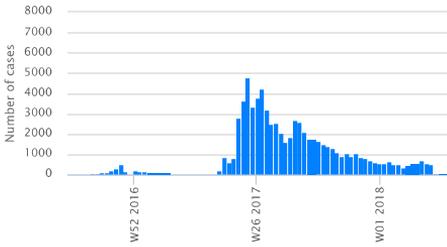
Figure 3n | Lahj لحج
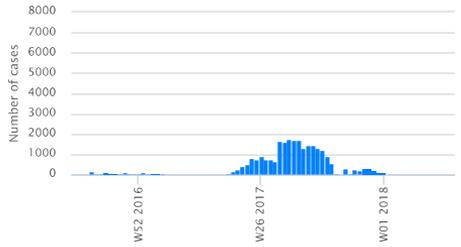
Figure 3o | Marib مأرب
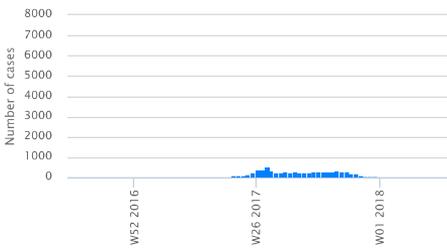
Figure 3p | Raymah ريمة
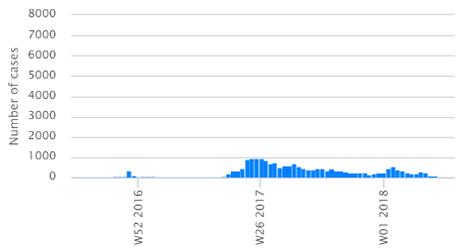
Figure 3q | Sa'ada صعدة
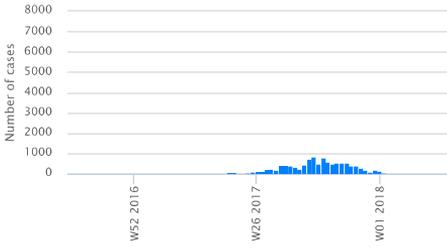
Figure 3r | Sana'a صنعاء
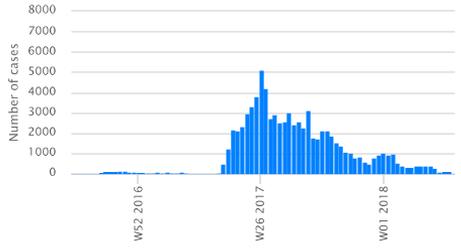
Figure 3s | Say'on سيئون
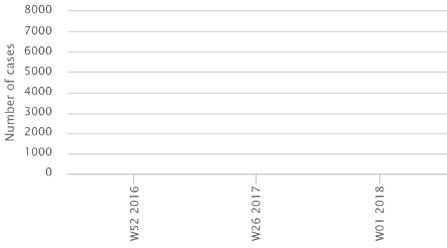
Figure 3t | Shabwah شبوة
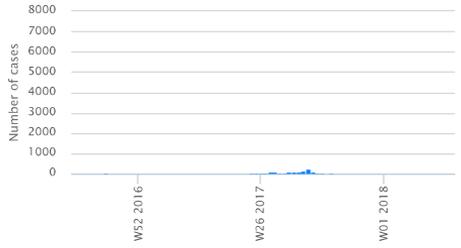
Figure 3v | Taizz تعز
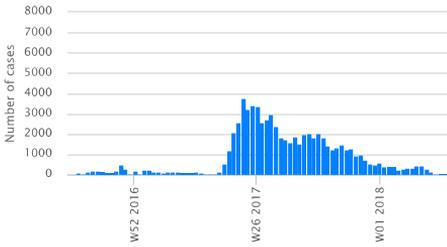
للتواصل
Contact Information

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

Christine (Tiff) Cool
Emergency Communications Lead
WHO Country Office
Sana'a, Yemen
Email: coolc@who.int