Yemen اليمن

الاستجابة للكوليرا
Cholera Response

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

النشرة الوبائية الأسبوعية
Weekly Epidemiological Bulletin
W20 2018 (May 14-May 20)

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Highlights

Cumulative figures
-The cumulative total from 27 April 2017 to 20 May 2018 is 1,100,720 suspected cholera cases and 2,291 associated deaths, (CFR 0.21%), 1119 have been confirmed by culture.
- The total proportion of severe cases among the suspected cases is 15.3%
- The national attack rate is 392.8 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (916), Al Mahwit (891), Al Dhale'e (639), Dhamar (535), Sana'a (535)
- Children under 5 years old represent 28.8% of total suspected cases.
- In total, 53,220 rapid diagnostic tests (RDT).
- 3,988 cultures have been performed which represents 26% coverage.
- The last positive culture was on 4 May 2018 in Al Hali district in Al Hudeideh governorate
- Since 1st of Jan 2018 the districts with highest cumulative suspected cases are Al Hali (5154), Radman Al Awad (2,019), Al Sabaeen (1,940), Maqbanah (1,912) , Al Mighlaf (1,834)
- 155 districts are still reporting suspected cholera cases since last 3 weeks
- 150 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 W17 –W19 decrease or was stable in all governorates, except Sana'a +42%,Al Hudeideh +12%, Raymeh +19% , Ibb +21%, Taizz +23%.

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

Week 20 2018
- 1,874 suspected cases and 2 associated deaths were reported
- The districts reporting the highest number of cases are Amran (87), Al Hali (81), Al Mighlaf (74), Mukayras (65),
- 18 % are severe cases
- 1,872 RDTs were performed, 244 were positive
- no culture results received this week

A. ملخص المؤشرات Summary indicators

1,100,720	**2,291**	**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 1,874	حالة وفاة في الأسبوع الحالي 2		(محافظة 22 / 23)	(مديرية 305 / 333)
1,874 suspected cases in current week	2 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
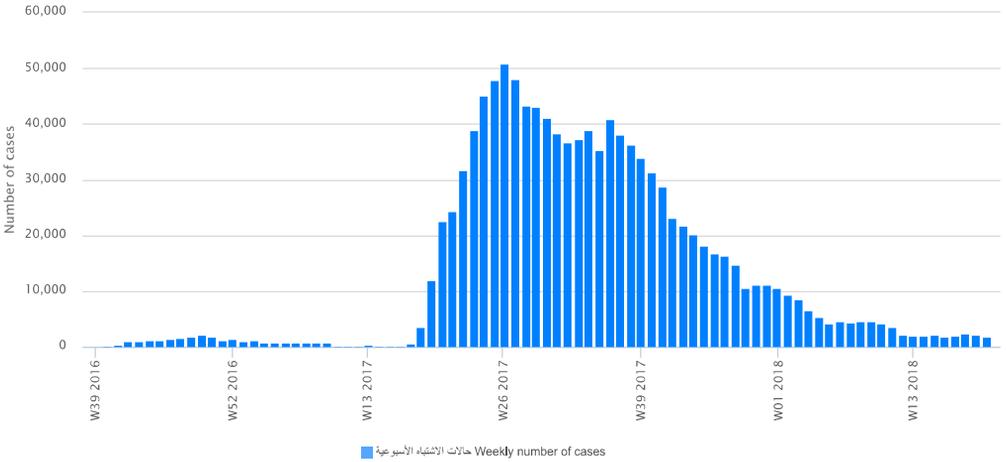
الشكل (2 أ) حالات الكوليرا على مستوى الجنس
Figure 2a Cases by sex (Cumul.)
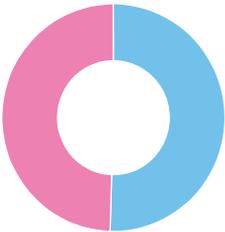
- Male ذكر (51% ; n = 40,394)
- Female أنثى (49% ; n = 38,094)

الشكل (2 ب) حالات الكوليرا على مستوى الفئات العمرية
Figure 2b Cases by age (Cumul.)

- < 5 (28.8% ; n = 314,075)
- 5-17 (29.1% ; n = 316,576)
- 18-44 (30.9% ; n = 336,849)
- 45-59 (6.3% ; n = 68,682)
- ≥ 60 (4.9% ; n = 53,284)

الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض
Figure 2c Cases by outcome (Cumul.)
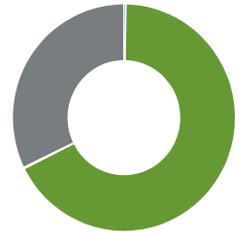
- Discharged شفاء (67.42% ; n = 742,051)
- Referred إحالة (0.32% ; n = 3,514)
- Died وفاة (0.21% ; n = 2,291)
- Unknown غير معرف (32.27% ; n = 355,155)

Trends in cases by age distribution and dehydration status

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

Figure 2e | Trend in proportion of cases by dehydration status[1]

[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

جدول (1) خلاصة بالمؤشرات الرئيسية بالنسبة للمحافظات
Table 1 | Summary of key cholera indicators by Governorate

للمحافظات Governorate	تراكمي Cumulative (27/04/2017 to 20/5/2018)					الاتجاه 3 أسابيع 3 week trend				
	حالات الاشتباه Cases	الوفيات Deaths	معدل الاماتة 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	106,758	183	0.17%	1,165,195	916.22	254	244	271	302	► 6%
Al Mahwit المحويت	65,728	152	0.23%	737,268	891.51	175	194	154	156	▼ -12%
Al Dhale'e الضالع	47,199	83	0.18%	739,350	638.39	7	8	7	6	► -5%
Dhamar ذمار	108,743	163	0.15%	2,030,932	535.43	322	593	371	262	▼ -13%
Sana'a صنعاء	79,188	123	0.16%	1,480,032	535.04	128	185	280	335	▲ +42%
Hajjah حجة	121,411	424	0.35%	2,370,032	512.28	12	19	22	1	▲ +25%
Al Hudaydah الحديدة	161,716	285	0.18%	3,265,918	495.16	347	364	421	257	▲ +12%
Abyan أبين	28,243	35	0.12%	575,265	490.96	0	0	0	0	■ Interrupt
Al Bayda البيضاء	34,848	39	0.11%	763,306	456.54	237	201	181	162	▼ -12%
Amanat Al Asimah أمانة العاصمة	108,577	72	0.07%	2,876,492	377.46	262	225	175	163	▼ -21%
Raymah ريمة	18,800	124	0.66%	612,251	307.06	24	44	45	37	▲ +19%
Al Jawf الجوف	16,198	22	0.14%	582,419	278.12	12	6	18	1	▲ +50%
Lahj لحج	24,345	22	0.09%	1,015,740	239.68	0	0	1	0	▲ +200%
Ibb إب	70,311	294	0.42%	2,978,519	236.06	67	135	137	107	▲ +21%
Aden عدن	20,993	62	0.30%	934,434	224.66	0	0	0	0	■ Interrupt
Taizz تعز	66,493	190	0.29%	3,018,987	220.25	77	106	128	85	▲ +23%
Marib مأرب	7,296	7	0.10%	362,139	201.47	0	0	0	0	■ Interrupt
Sa'ada صعدة	10,713	5	0.05%	922,779	116.09	0	1	0	0	▼ -100%
Al Maharah المهرة	1,169	1	0.09%	150,585	77.63	0	0	0	0	■ Interrupt
Shabwah شبوة	1,399	3	0.21%	608,966	22.97	0	0	0	0	■ Interrupt
Moklla المكلا	568	2	0.35%	445,138	12.76	0	0	0	0	■ Interrupt
Say'on سيئون	24	0	0.00%	379,949	0.63	0	0	0	0	■ Interrupt
Yemen اليمن	**1,100,720**	**2,291**	**0.21%**	**28,015,695**	**392.89**	**1,924**	**2,325**	**2,211**	**1,874**	► 3%

معدل الاماتة بين الحالات [1]
معدل الإصابة لكل 10,000 من السكان [2]
تم حساب المنحى بناء على متوسط عدد الحالات خلال ثلاثة أسابيع سابقة [3]
(لم يتم تضمين الأسبوع الحالي في حساب المنحى 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)

▲	منحنى مرتفع	غيير بمعدل 10%+ ≤
►	منحنى مستقر	> -10% to < +10% بمعدل غيير
▼	منحنى منخفض	غيير بمعدل -10% ≥
■	الانقطاع في الارسال	عدد 0 حالة خلال 3 أسابيع متتالية

▲	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
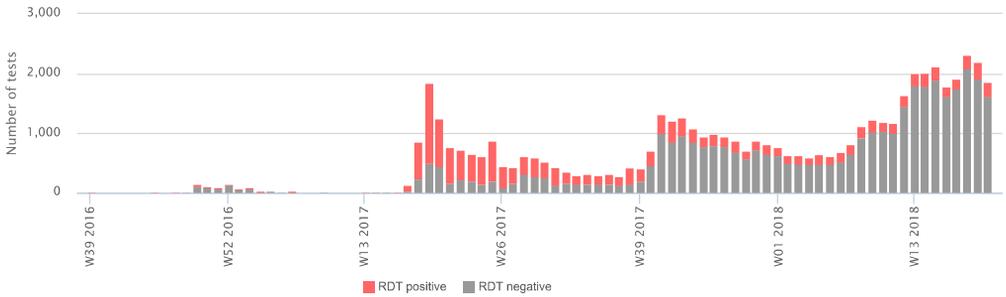
Figure 5 | Rapid Diagnostic Kit (RDT)

Coverage (4.8% ; *n* = 53,220)   Positivity (28.5% ; *n* = 15,157)
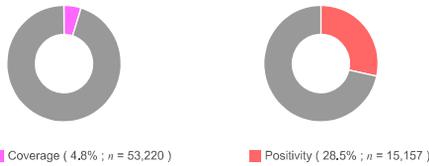
*Coverage of RDT is calculated based on (Number of RDT performed/Number of suspected cases)

Figure 6 | Culture

Coverage (26.3% ; *n* = 3,988)   Positivity (28.1% ; *n* = 1,119)
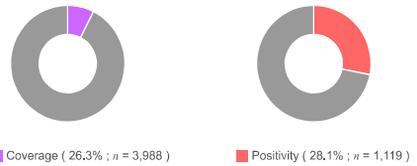
*Coverage of culture is calculated based on (Number of culture performed/Number of positive RDT)

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	34,848	4821	138.3%	1098	22.8%	293	26.7%	9	3.1%
Al Dhale'e الضالع	47,199	408	8.6%	144	35.3%	45	31.3%	3	6.7%
Al Hudaydah الحديدة	161,716	8279	51.2%	1715	20.7%	752	43.8%	239	31.8%
Al Jawf الجوف	16,198	1562	96.4%	928	59.4%	74	8.0%	12	16.2%
Al Maharah المهرة	1,169	264	225.8%	119	45.1%	25	21.0%	14	56.0%
Al Mahwit المحويت	65,728	3558	54.1%	1219	34.3%	221	18.1%	13	5.9%
Amanat Al Asimah أمانة العاصمة	108,577	8809	81.1%	2686	30.5%	803	29.9%	192	23.9%
Amran عمران	106,758	4443	41.6%	988	22.2%	199	20.1%	23	11.6%
Dhamar ذمار	108,743	7174	66.0%	626	8.7%	168	26.8%	23	13.7%
Hajjah حجة	121,411	887	7.3%	214	24.1%	68	31.8%	14	20.6%
Ibb إب	70,311	1630	23.2%	636	39.0%	135	21.2%	13	9.6%
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%
Moklla المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
Raymah ريمة	18,800	897	47.7%	456	50.8%	50	11.0%	5	10.0%
Sa'ada صعدة	10,713	922	86.1%	752	81.6%	12	1.6%	0	0.0%
Sana'a صنعاء	79,188	4929	62.2%	1076	21.8%	362	33.6%	45	12.4%
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	66,493	2198	33.1%	1124	51.1%	405	36.0%	314	77.5%
Yemen اليمن	**1,100,720**	**53,220**	**48.4%**	**15,157**	**28.5%**	**3,988**	**26.3%**	**1,119**	**28.1%**

## 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)
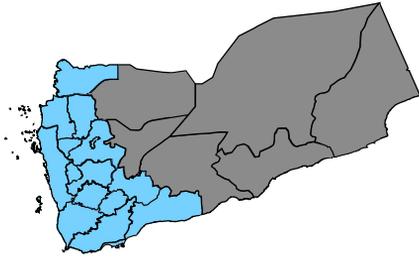
الخريطة (1 ب) معدل الاصابة للمحافظات
Map 1b | Attack rate by governorate (Jan 2017 - Apr 2017)
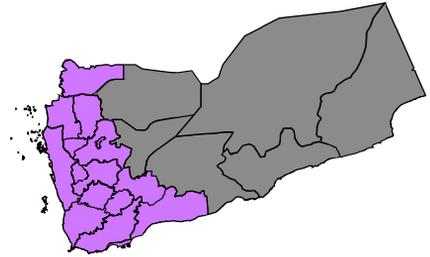
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
**Map 1c |** Number of cases by governorate (Jan 2017 - Jun 2017)
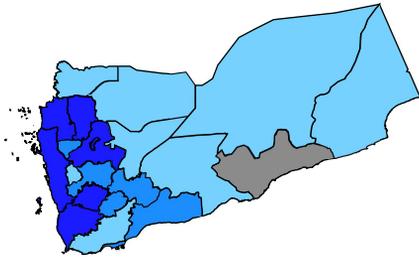
الخريطة (1 ب) معدل الاصابة للمحافظات
Map 1d | Attack rate by governorate (Jan 2017 - Jun 2017)
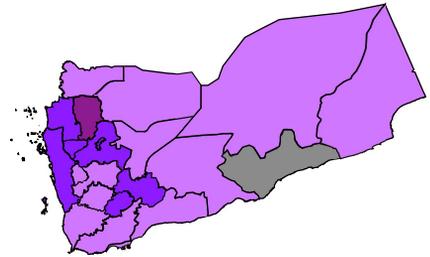
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
Map 1e | Number of cases by governorate (Jan 2017 - present)
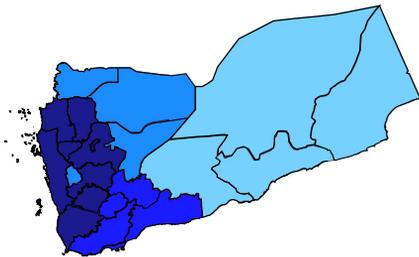
الخريطة (1 ب) معدل الاصابة للمحافظات
Map 1f | Attack rate by governorate (Jan 2017 - present)
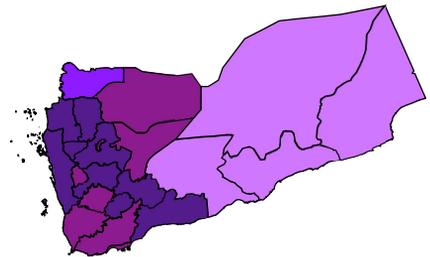

عدد حالات الكوليرا
Number of cholera cases

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 (W20 2018)

عدد حالات الكوليرا
Number of cholera cases

| 0 | 1 | 500 | 1,000 | 2,000 |
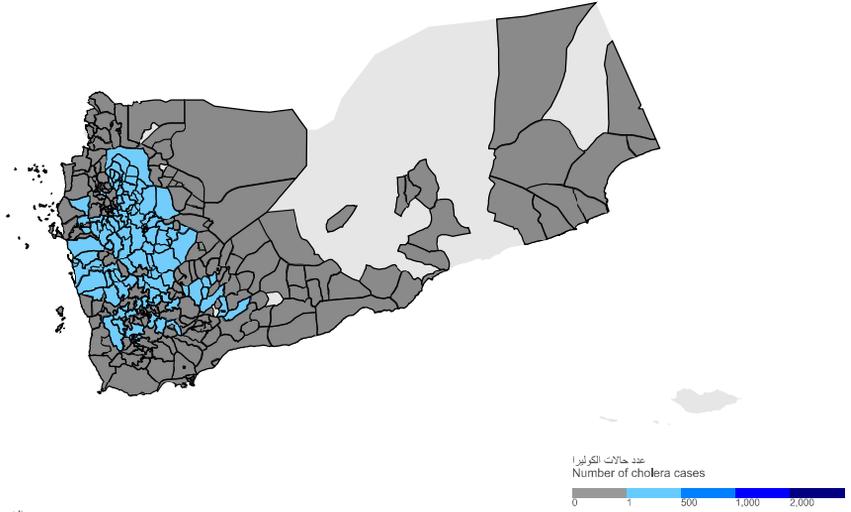
الخريطة (3 ب) معدل الاصابة الأولوية
Map 3 | Attack rate by district (W20 2018)

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

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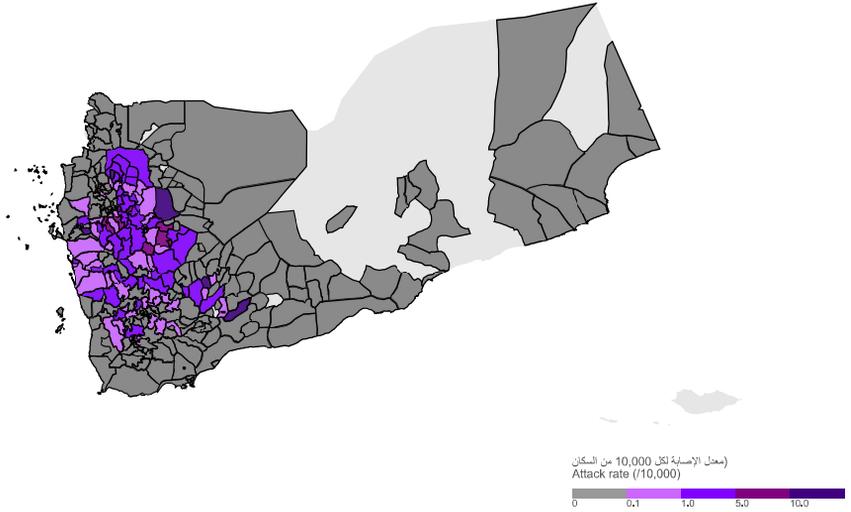
G. المنحنى الوبائي حسب المحافظة Epidemic curves by Governorate

Figure 3a | Abyan أبين
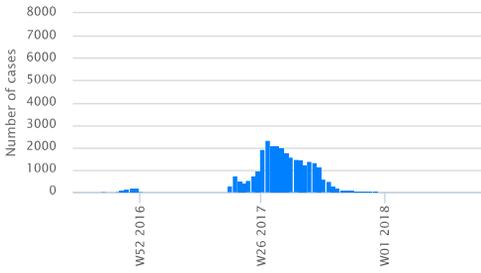
Figure 3b | Aden عدن
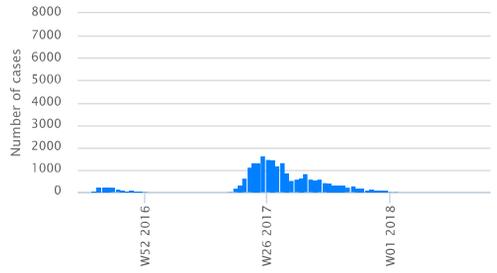
Figure 3c | Al Bayda البيضاء
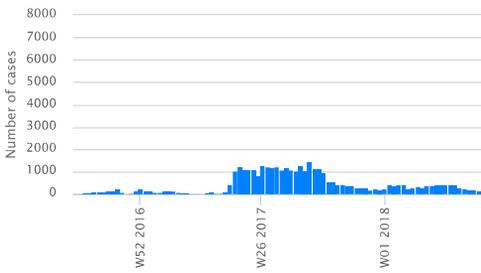
Figure 3d | Al Dhale'e الضالع
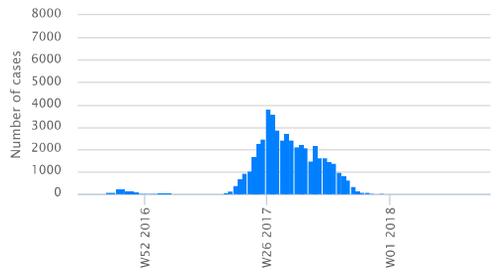
Figure 3e | Al Hudaydah الحديدة
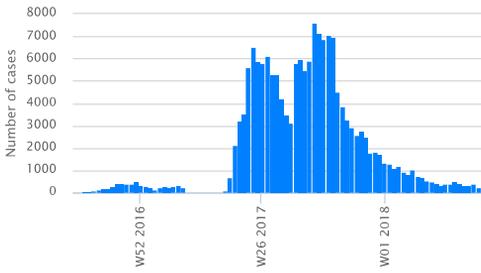
Figure 3f | Al Jawf الجوف
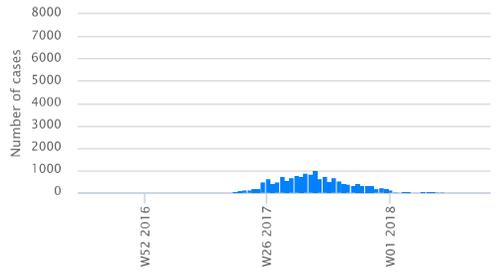
Figure 3g | Al Maharah المهرة
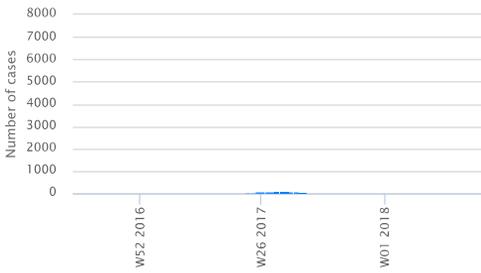
Figure 3h | Al Mahwit المحويت
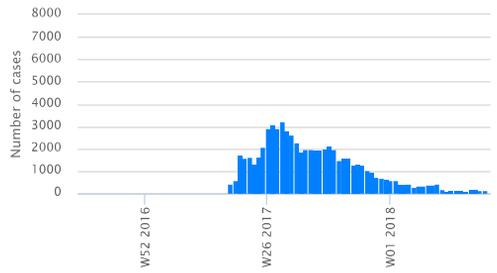
Figure 3i | Amanat Al Asimah أمانة العاصمة
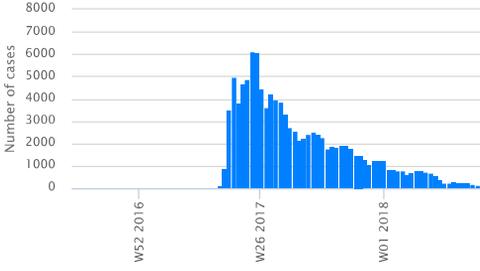
Figure 3j | Amran عمران
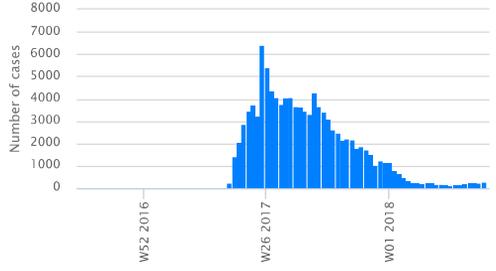
Figure 3k | Dhamar ذمار
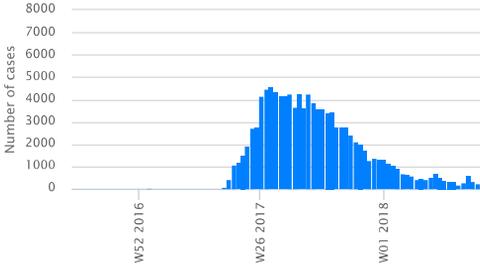
Figure 3l | Hajjah حجة
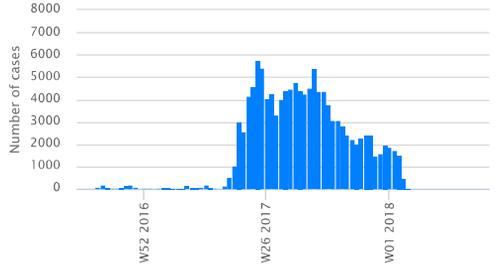
Figure 3m | Ibb إب
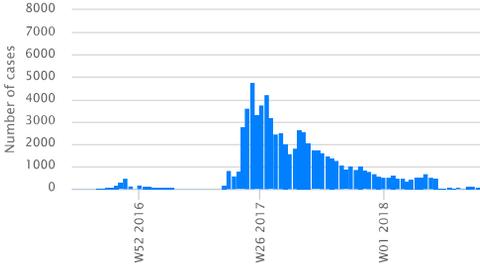
Figure 3n | Lahj لحج
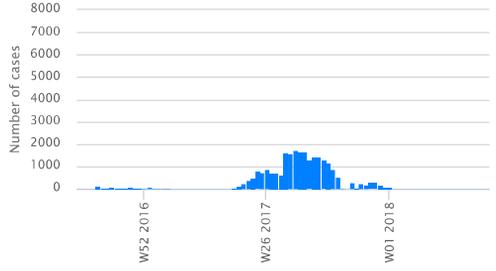
Figure 3o | Marib مأرب
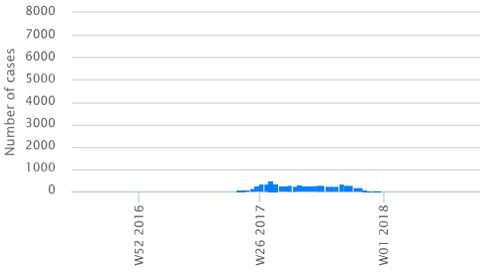
Figure 3p | Raymah ريمة
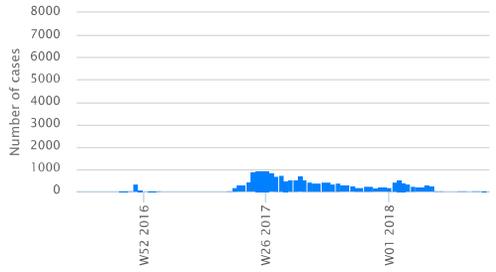
Figure 3q | Sa'ada صعدة
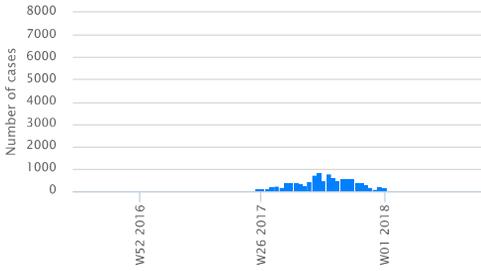
Figure 3r | Sana'a صنعاء
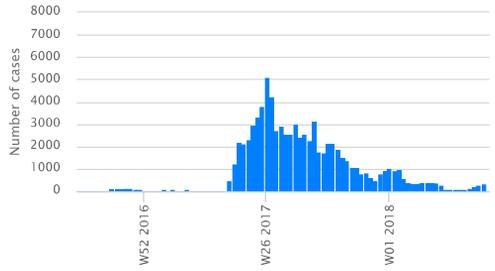
Figure 3s | Say'on سيئون

Figure 3t | Shabwah شبوة

Figure 3v | Taizz تعز