اليمن Yemen

الاستجابة للكوليرا
Cholera Response

Table of Contents جدول المحتويات

Highlights

Cumulative figures
-The cumulative total from 27 April 2017 to 31 December 2017 is 1,019,044 suspected cholera cases and 2,237 associated deaths, (CFR 0.22%), 1094 have been confirmed by culture.
- 59.3 % of death were severe cases at admission
- The total proportion of severe cases among the suspected cases is 16.9%
- The national attack rate is 370 per 10,000. The five governorates with the highest cumulative attack rates per 10,000 remain Amran (870), Al Mahwit (824), Al Dhale'e (644), Hajjah (498) and Abyan (494).
- Children under 5 years old represent 28.6% of total suspected cases.
- In total, 25,889 rapid diagnostic tests (RDT) have been performed which represents 24.3% coverage.
- 2,651 cultures have been performed which represents 25.4% coverage.
- The last positive culture was on 19 Dec 2017 in Al-Sabeen distric in Amanat Al-Asimah
- 70 districts did not report any suspected case the last three consecutive 3 weeks

Governorate and District level
- At governorate level, the trend from W50-W52 decrease or was stable in all governorates except (Sana'a governorate (+25%), Hajjah governorate (+16%), Sada'a (+17%) .

Trends
- The weekly number of cases is decreasing for the 16 consecutive weeks.
- The weekly proportion of severe cases has significantly decreased representing now 10% of the admitted cases.

Week 52
- 9,169 suspected cases and 4 associated deaths were reported
- 11 % are severe cases
- 740 RDTs were performed, 136 were positive
- 0 Positive culture

A. ملخص المؤشرات Summary indicators

Cholera Response | Cumulative figures from 27/04/2017 to 31/12/2017

1,019,044	**2,237**	**0.22%**	**96%**	**92%**
حالات الاشتباه Suspected cases	الوفيات Associated deaths	معدل الاماته بين الحالات Case Fatality Rate	المحافظات المتأثرة بالوباء Governorates affected	المديريات المتأثرة بالوباء Districts affected
حالة اشتباه في الأسبوع الحالي 9,169 9,169 suspected cases in current week	حالة وفاة في الأسبوع الحالي 4 4 associated deaths in current week		(محافظة 22 / 23) (22 / 23 governorates)	(مديرية 305 / 333) (305 / 333 districts)

B. المنحنى الوبائي Epidemic curve

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

Weekly number of cases حالات الاشتباه الأسبوعية
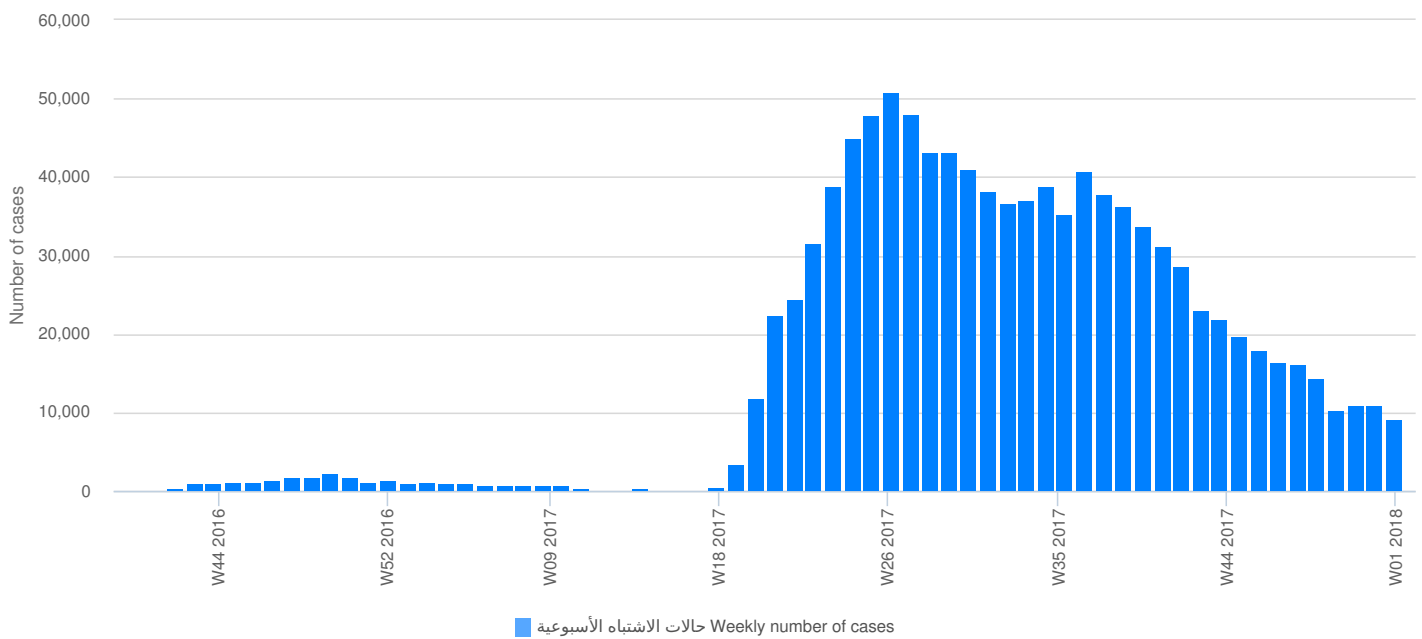
الشكل (2 أ) حالات الكوليرا على مستوى الجنس
Figure 2a Cases by sex (Cumul.)
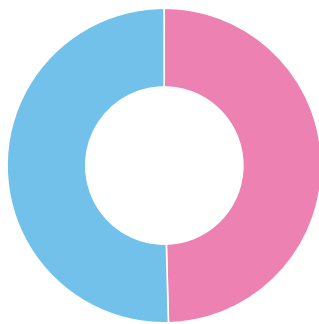
- ذكر Male (50% ; *n* = 519,247)
- أنثى Female (50% ; *n* = 510,269)

الشكل (2 ب) حالات الكوليرا على مستوى الفئة العمرية
Figure 2b Cases by age (Cumul.)
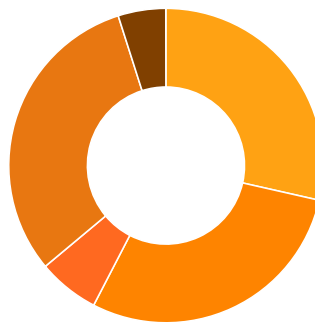
- < 5 (28.6% ; *n* = 287,803)
- 5-17 (29.1% ; *n* = 292,977)
- 18-44 (31.2% ; *n* = 314,102)
- 45-59 (6.3% ; *n* = 63,849)
- ≥ 60 (4.9% ; *n* = 49,515)

الشكل (2 ج) حالات الكوليرا بالنسبة لحالة المريض
Figure 2c Cases by outcome (Cumul.)
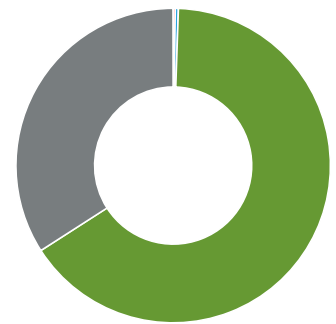
- شفاء Discharged (65.52% ; *n* = 667,691)
- إحالة Referred (0.33% ; *n* = 3,331)
- وفاة Died (0.22% ; *n* = 2,237)
- غير معرف Unknown (34.15% ; *n* = 348,022)

Trends in cases by age distribution and dehydration status

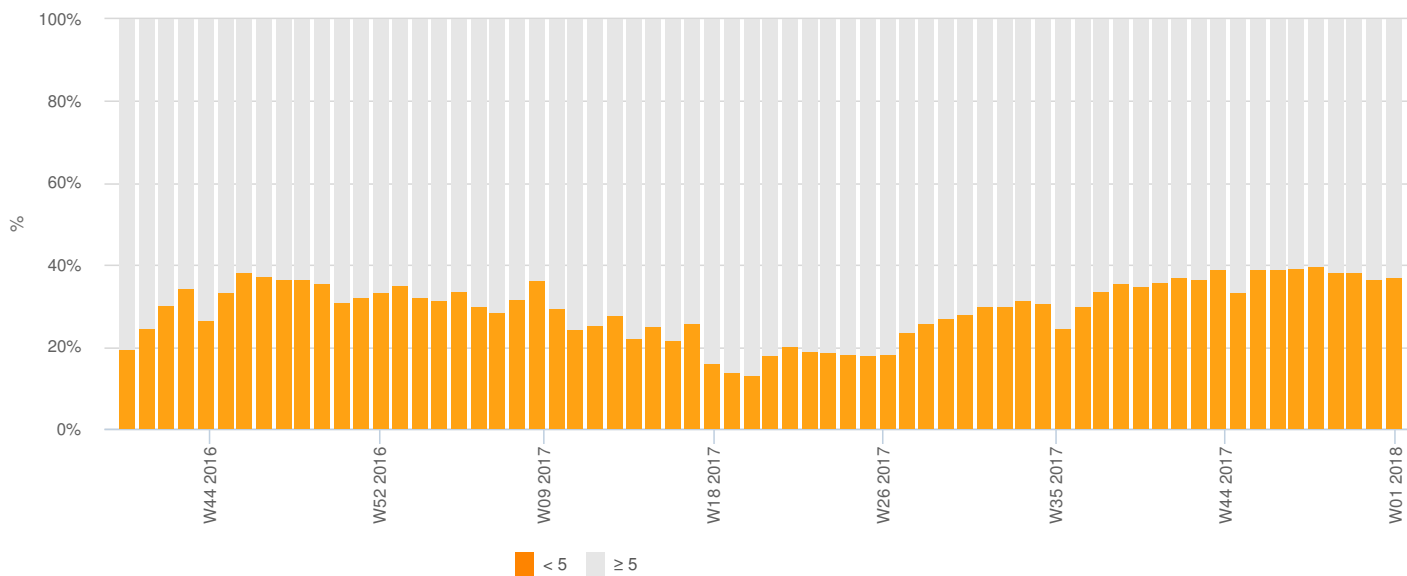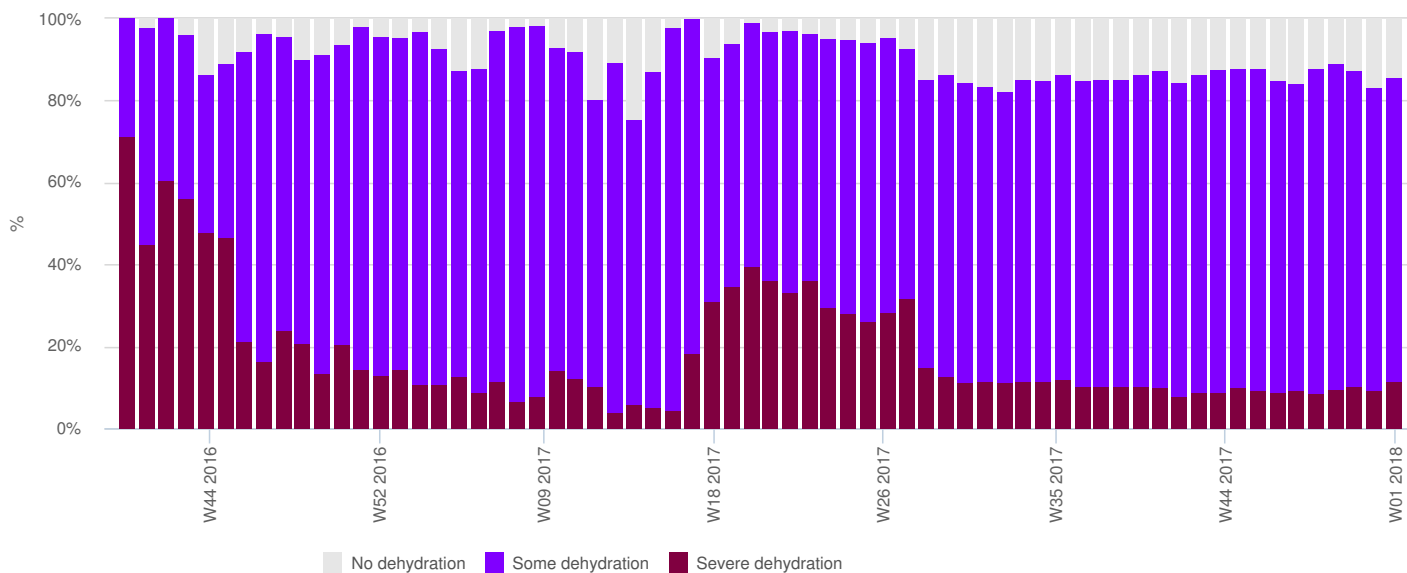**Figure 2d** | Trend in proportion of cases aged under 5[1]

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

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

للمحافظات Governorate	تراكمي Cumulative (27/04/2017 to 31/12/2017)					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	100,981	174	0.17%	1,160,559	870.11	1,029	1,266	1,146	1,140	▶ 0%
Al Mahwit المحويت	60,212	149	0.25%	730,209	824.59	726	682	649	560	▶ -5%
Al Dhale'e الضالع	47,115	81	0.17%	731,496	644.09	21	25	19	6	▼ -12%
Hajjah حجة	116,247	419	0.36%	2,329,741	498.97	1,415	1,467	1,820	1,008	▲ +16%
Abyan أبين	28,241	35	0.12%	570,832	494.73	37	25	11	1	▼ -55%
Sana'a صنعاء	72,300	123	0.17%	1,470,346	491.72	512	778	925	1,043	▲ +25%
Dhamar ذمار	97,741	160	0.16%	2,012,264	485.73	1,280	1,385	1,330	1,339	▶ 0%
Al Hudaydah الحديدة	149,041	277	0.19%	3,238,199	460.26	1,770	1,818	1,736	1,337	▶ -2%
Al Bayda البيضاء	27,990	33	0.12%	759,388	368.59	199	260	213	219	▶ -5%
Amanat Al Asimah أمانة العاصمة	98,105	70	0.07%	2,827,824	346.93	1,039	1,263	1,242	1,148	▶ 5%
Al Jawf الجوف	15,792	22	0.14%	578,585	272.94	214	245	174	127	▼ -18%
Raymah ريمة	15,456	120	0.78%	606,776	254.72	163	194	180	185	▶ 1%
Aden عدن	20,819	62	0.30%	922,996	225.56	108	91	107	69	▶ 5%
Lahj لحج	22,669	21	0.09%	1,008,864	224.70	14	13	11	10	▼ -13%
Ibb إب	63,625	286	0.45%	2,957,138	215.16	785	689	590	477	▼ -14%
Taizz تعز	61,631	187	0.30%	2,998,300	205.55	758	560	500	339	▼ -17%
Marib مأرب	7,277	7	0.10%	358,542	202.96	63	74	44	21	▼ -27%
Sa'ada صعدة	10,647	5	0.05%	905,145	117.63	199	107	196	139	▲ +17%
Al Maharah المهرة	1,168	1	0.09%	148,478	78.66	0	1	0	0	▼ -100%
Shabwah شبوة	1,399	3	0.21%	604,243	23.15	1	0	1	1	▲ +50%
Moklla المكلا	568	2	0.35%	400,788	14.17	0	0	0	0	■ Interrupt
Say'on سيئون	20	0	0.00%	219,953	0.91	0	1	0	0	▼ -100%
Yemen اليمن	**1,019,044**	**2,237**	**0.22%**	**27,540,666**	**370.01**	**10,333**	**10,944**	**10,894**	**9,169**	▶ **2%**

[1] معدل الاماته بين الحالات
[2] معدل الإصابة لكل 10,000 من السكان
[3] تم حساب المنحنى 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:

منحنى مرتفع ▲	غير بمعدل 10%+ ≤
منحنى مستقر ▶	> -10% to +10% غير بمعدل >
منحنى منخفض ▼	غير بمعدل 10%- ≤
انقطاع 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
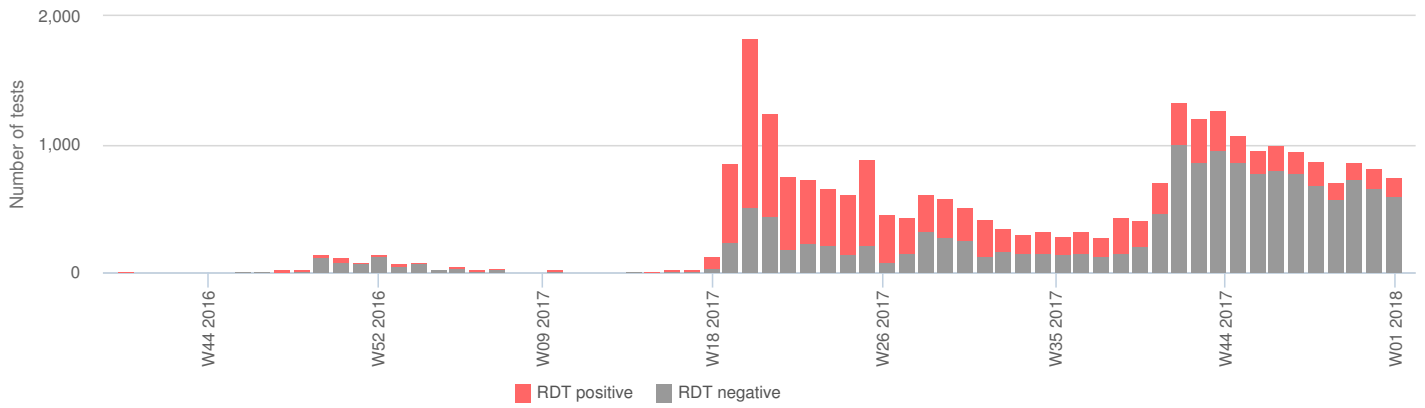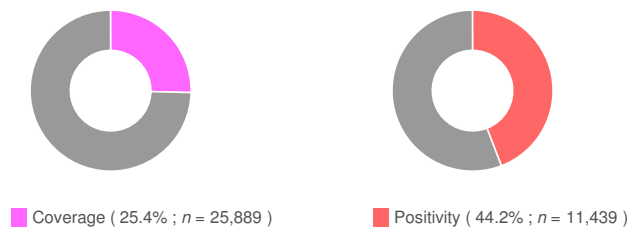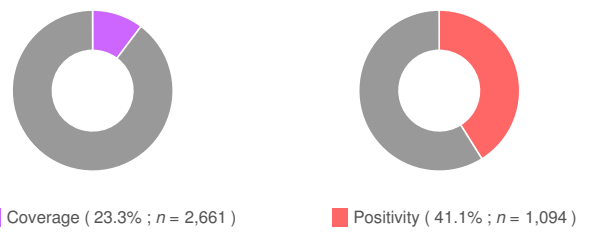
Figure 4 | RDT results by week

Figure 5 | Rapid Diagnostic Kit (RDT)

■ Coverage (25.4% ; *n* = 25,889)   ■ Positivity (44.2% ; *n* = 11,439)

*Coverage of RDT is calculated based on (10% of the suspected cases)

Figure 6 | Culture

■ Coverage (23.3% ; *n* = 2,661)   ■ Positivity (41.1% ; *n* = 1,094)

*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	Cases	Rapid Diagnostic Kit (RDT)				Culture			
		Total tested	Coverage	Total +ve	+vity rate	Total tested	Coverage	Total +ve	+vity rate
Abyan أبين	28,241	238	8.4%	151	63.4%	39	25.8%	23	59.0%
Aden عدن	20,819	568	27.3%	358	63.0%	173	48.3%	118	68.2%
Al Bayda البيضاء	27,990	1682	60.1%	763	45.4%	194	25.4%	9	4.6%
Al Dhale'e الضالع	47,115	328	7.0%	120	36.6%	41	34.2%	3	7.3%
Al Hudaydah الحديدة	149,041	2641	17.7%	963	36.5%	392	40.7%	227	57.9%
Al Jawf الجوف	15,792	1283	81.2%	886	69.1%	48	5.4%	12	25.0%
Al Maharah المهرة	1,168	263	225.2%	118	44.9%	25	21.2%	14	56.0%
Al Mahwit المحويت	60,212	1776	29.5%	902	50.8%	53	5.9%	12	22.6%
Amanat Al Asimah أمانة العاصمة	98,105	4619	47.1%	2010	43.5%	488	24.3%	187	38.3%
Amran عمران	100,981	1711	16.9%	614	35.9%	89	14.5%	23	25.8%
Dhamar ذمار	97,741	2185	22.4%	331	15.1%	109	32.9%	23	21.1%
Hajjah حجة	116,247	752	6.5%	173	23.0%	45	26.0%	14	31.1%
Ibb إب	63,625	634	10.0%	430	67.8%	98	22.8%	13	13.3%
Lahj لحج	22,669	1137	50.2%	577	50.7%	38	6.6%	12	31.6%
Marib مأرب	7,277	192	26.4%	124	64.6%	2	1.6%	0	0.0%
Moklla المكلا	568	105	184.9%	80	76.2%	55	68.8%	32	58.2%
Raymah ريمة	15,456	579	37.5%	383	66.1%	32	8.4%	5	15.6%
Sa'ada صعدة	10,647	919	86.3%	752	81.8%	12	1.6%	0	0.0%
Sana'a صنعاء	72,300	2818	39.0%	706	25.1%	264	37.4%	44	16.7%
Say'on سيئون	20	19	950.0%	9	47.4%	11	122.2%	0	0.0%
Shabwah شبوة	1,399	127	90.8%	53	41.7%	51	96.2%	9	17.6%
Taizz تعز	61,631	1313	21.3%	936	71.3%	402	42.9%	314	78.1%
Yemen اليمن	**1,019,044**	**25,889**	**25.4%**	**11,439**	**44.2%**	**2,661**	**23.3%**	**1,094**	**41.1%**

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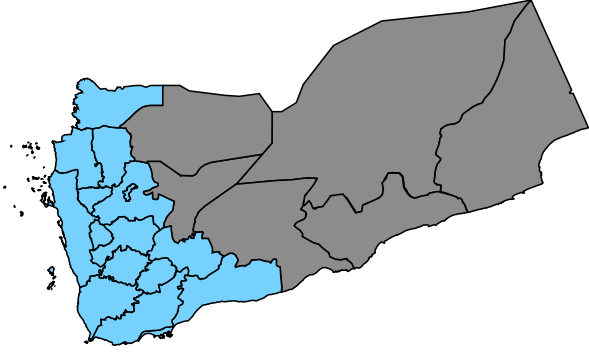
الخريطة (1 ب) معدل الاصابة للمحافظات
Map 1b | Attack rate by governorate (Jan 2017 - Apr 2017)
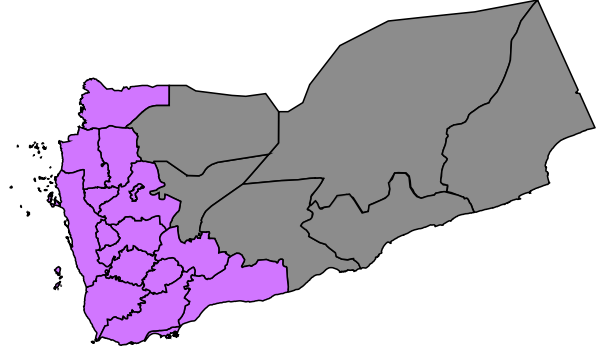
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
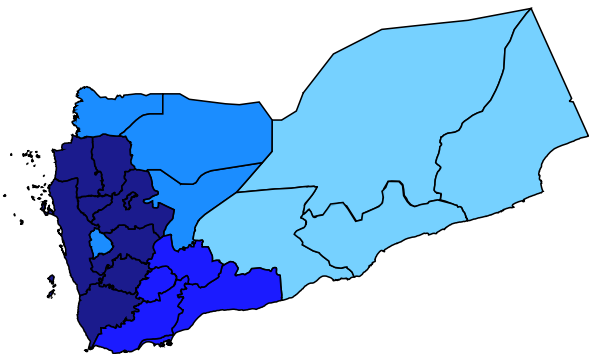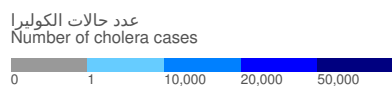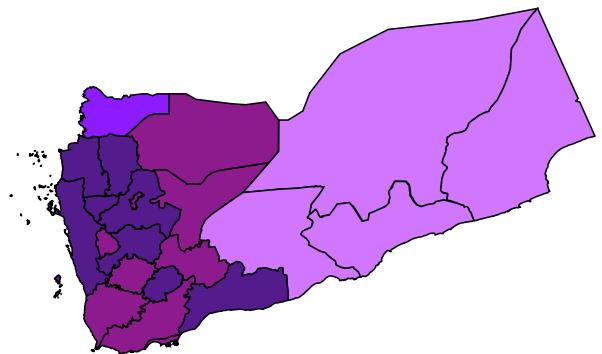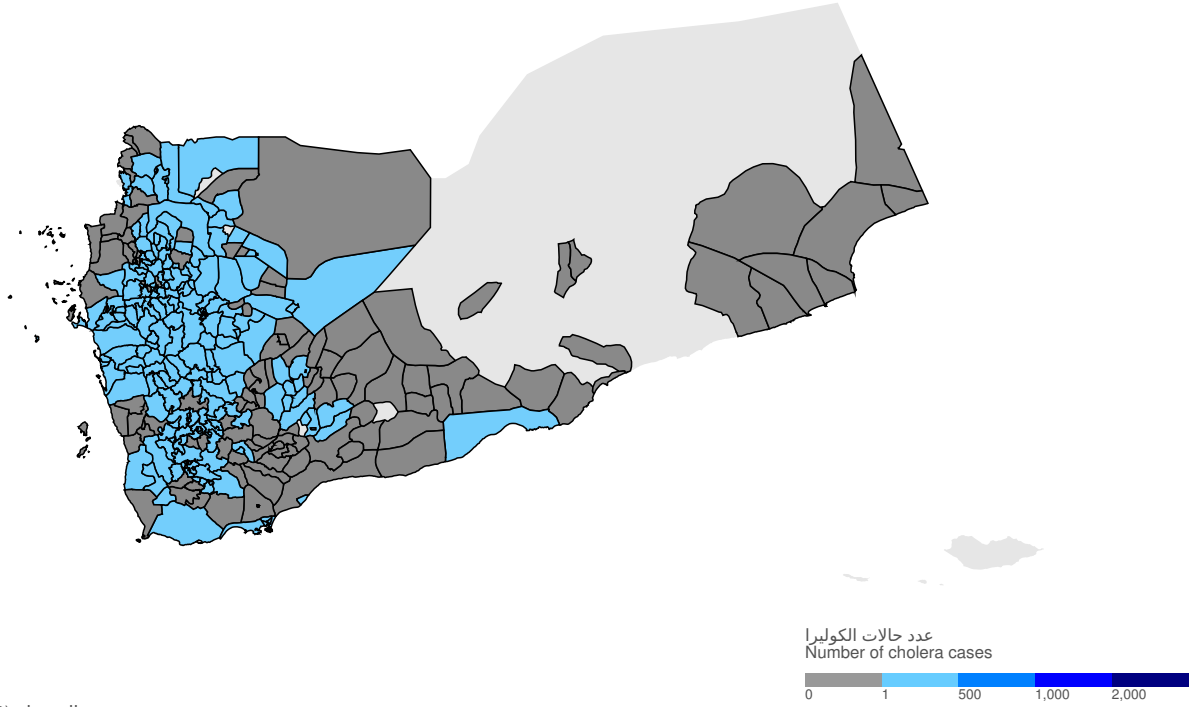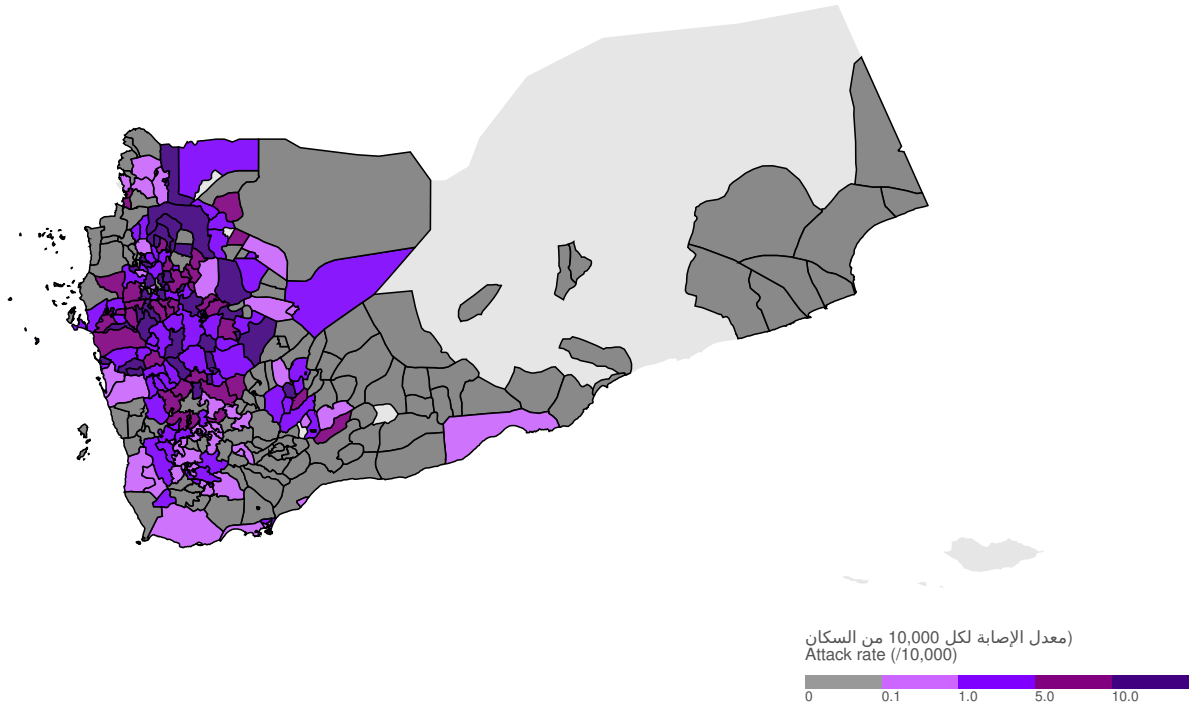**Map 1c** | Number of cases by governorate (Jan 2017 - Jun 2017)
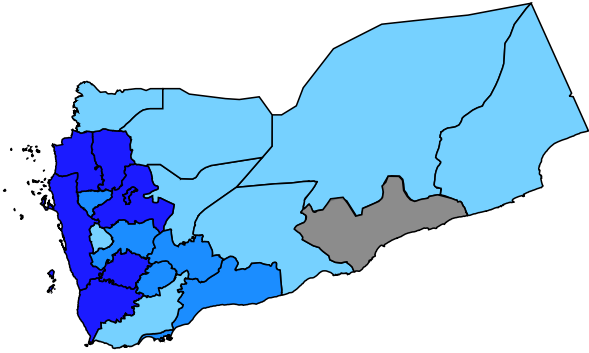
الخريطة (1 ب) معدل الاصابة للمحافظات
Map 1d | Attack rate by governorate (Jan 2017 - Jun 2017)
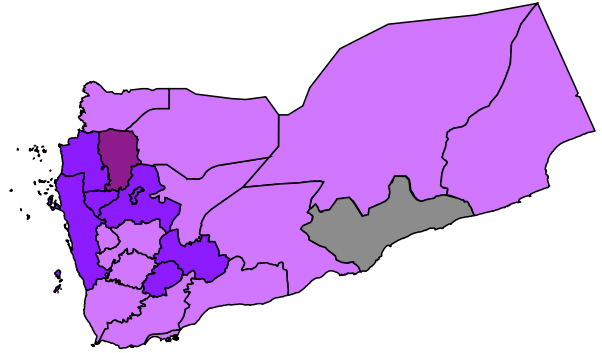
الخريطة (1 أ) عدد حالات الاشتباه للمحافظات
Map 1e | Number of cases by governorate (Jan 2017 - present)

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 |

F. المديريات ذات الأولوية Districts reporting in current week

عدد حالات الكوليرا
Number of cholera cases

| 0 | 1 | 500 | 1,000 | 2,000 |

(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
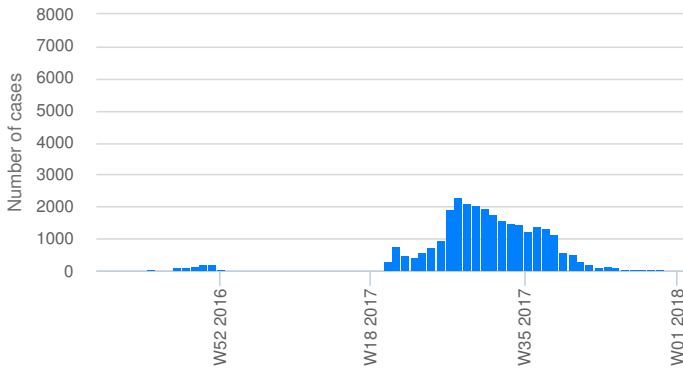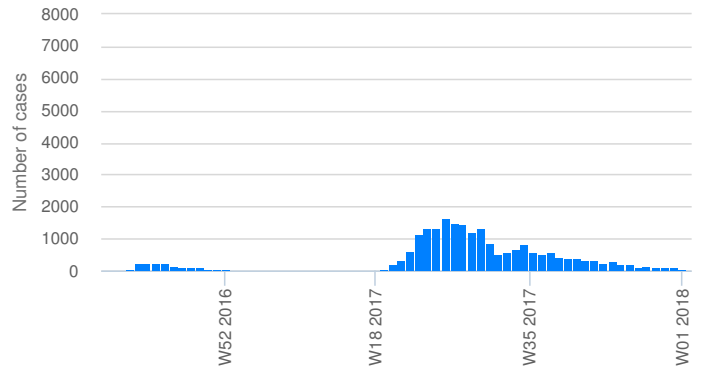
Figure 3a | Abyan أبين

Figure 3b | Aden عدن

Figure 3c | Al Bayda البيضاء

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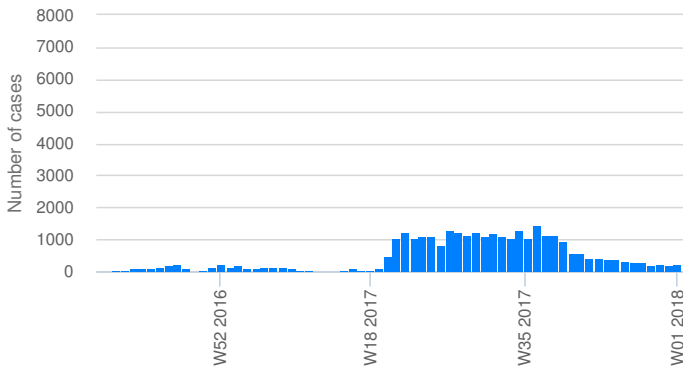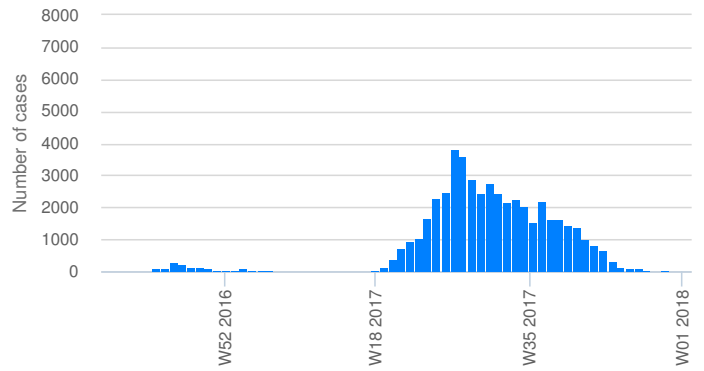
Figure 3e | Al Hudaydah الحديدة
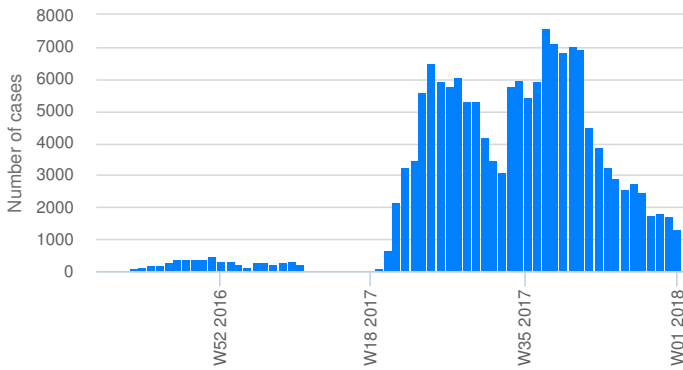
Figure 3f | Al Jawf الجوف
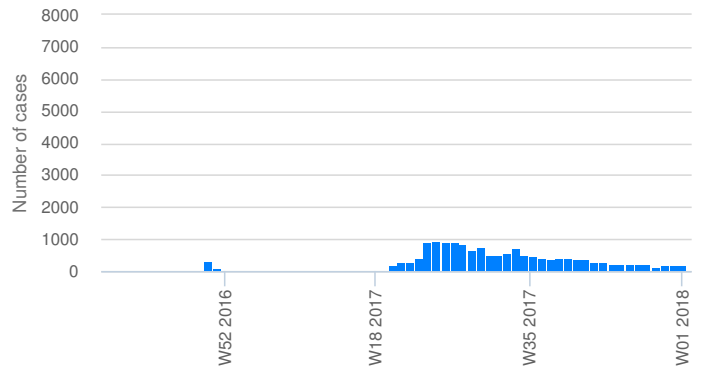
Figure 3g | Al Maharah المهرة
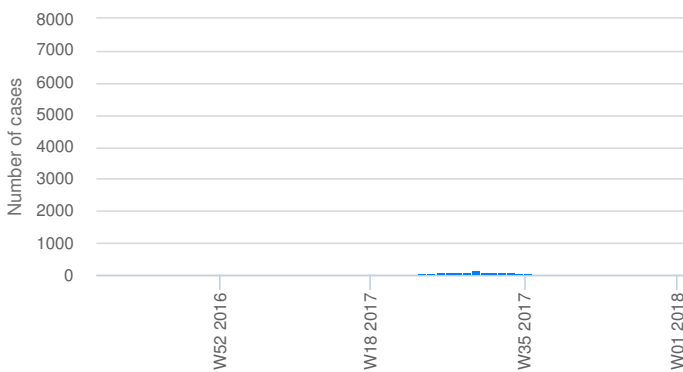
Figure 3h | Al Mahwit المحويت
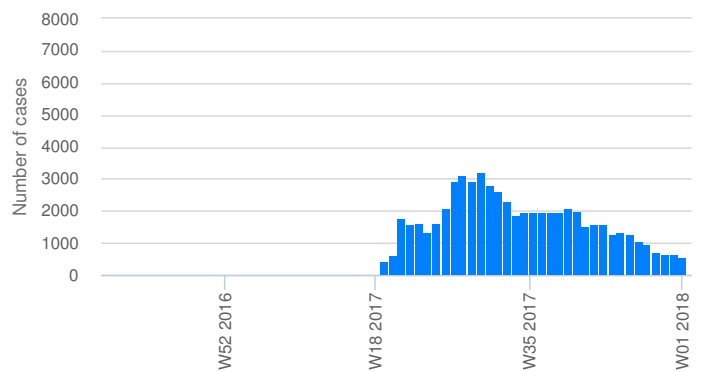
Figure 3i | Amanat Al Asimah أمانة العاصمة
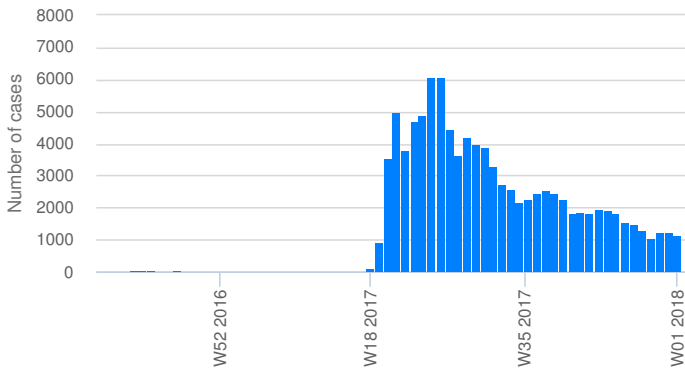
Figure 3j | Amran عمران
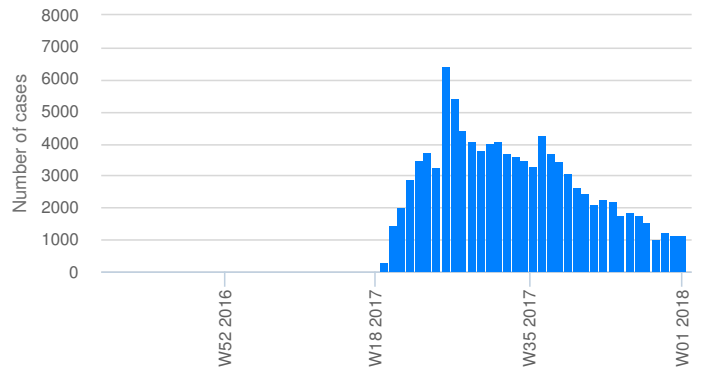
Figure 3k | Dhamar ذمار
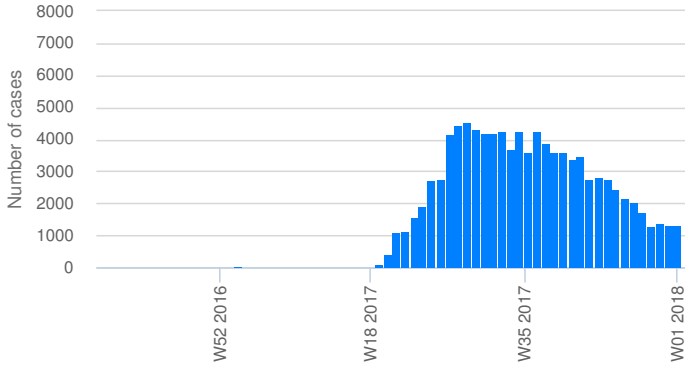
Figure 3l | Hajjah حجة
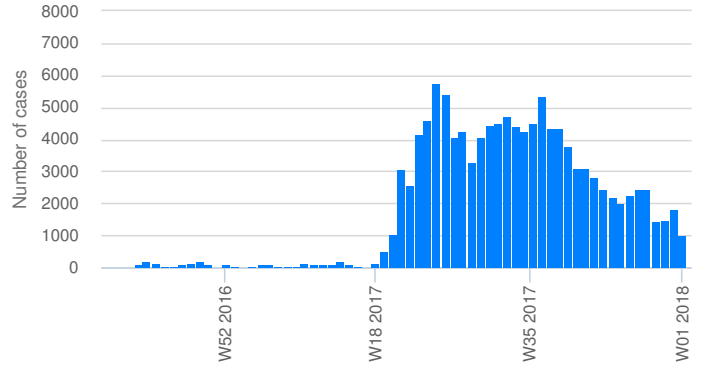
Figure 3m | Ibb إب
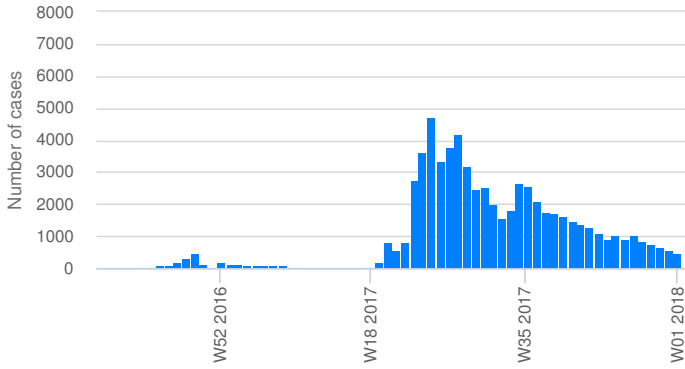
Figure 3n | Lahj لحج
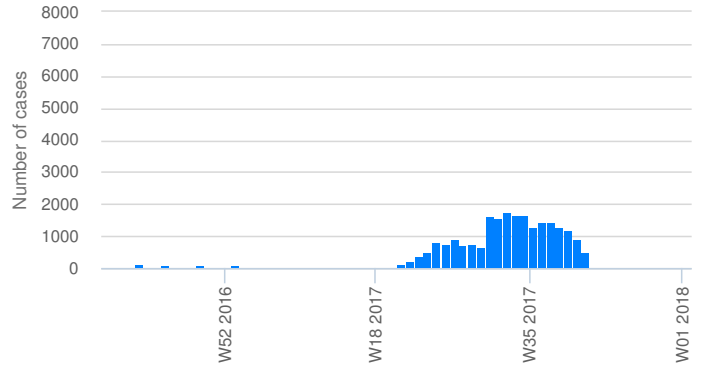
Figure 3o | Marib مأرب
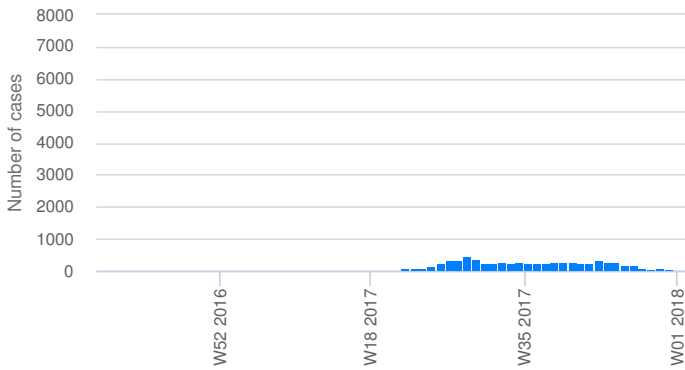
Figure 3p | Raymah ريمة
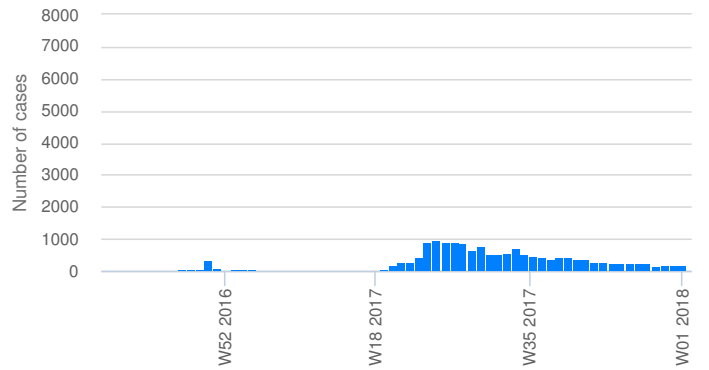
Figure 3q | Sa'ada صعدة
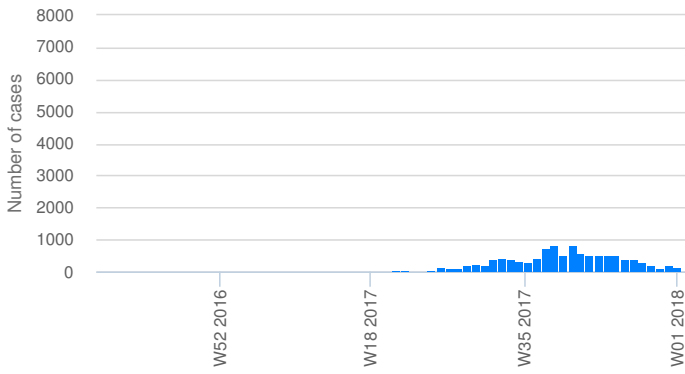
Figure 3r | Sana'a صنعاء
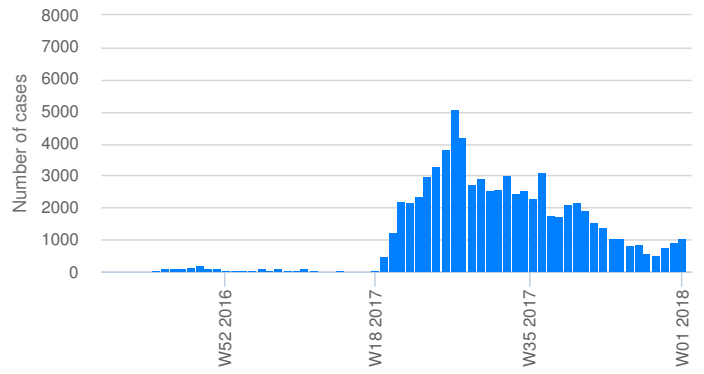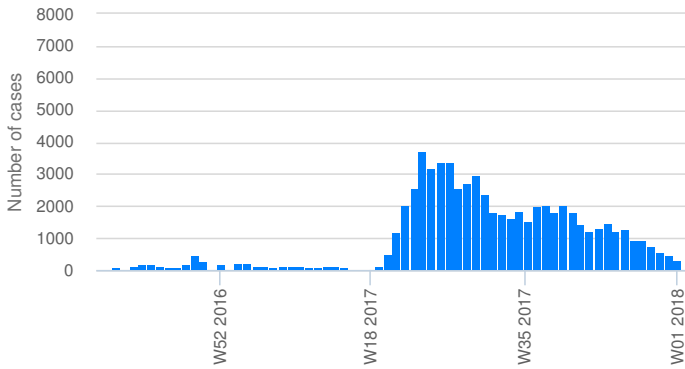

Figure 3s | Say'on سيئون
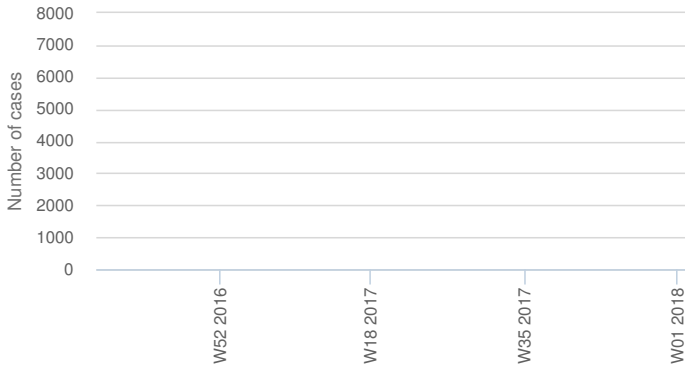
Figure 3t | Shabwah شبوة

Figure 3v | Taizz تعز