

I. National Notifiable Infectious Diseases

1. Reported cases, week ending October 5, 2019 (40th Week)*

Unit: no. of cases[†]

Classification of disease [‡]	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category I									
Cholera	0	0	0	2	5	4	0	0	Malaysia(1)
Typhoid fever	4	103	2	213	128	121	121	251	
Paratyphoid fever	3	54	1	47	73	56	44	37	
Shigellosis	5	112	2	191	112	113	88	110	Vietnam(1)
EHEC	9	143	2	121	138	104	71	111	Philippines(2)
Viral hepatitis A	355	16,068	43	2,437	4,419	4,679	1,804	1,307	Kyrgyzstan(1)
Category II									
Pertussis	9	355	8	980	318	129	205	88	Thailand(2)
Tetanus	0	32	0	31	34	24	22	23	
Measles	10	285	1	15	7	18	7	442	
Mumps	340	13,175	375	19,237	16,924	17,057	23,448	25,286	
Rubella	1	12	0	0	7	11	11	11	
Viral hepatitis B (Acute)	10	292	5	392	391	359	155	173	
Japanese encephalitis	0	7	2	17	9	28	40	26	
Varicella	985	60,543	797	96,467	80,092	54,060	46,330	44,450	
<i>Haemophilus influenza</i> type b	0	0	0	2	3	0	0	0	
<i>Streptococcus pneumoniae</i>	7	381	4	670	523	441	228	36	
Category III									
Malaria	9	517	15	576	515	673	699	638	
Scarlet fever [§]	135	6,145	169	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	12	0	14	17	6	6	5	
Legionellosis	17	346	3	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis	3	31	3	47	46	56	37	61	
Murine typhus	1	11	0	16	18	18	15	9	
Scrub typhus	34	932	217	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	8	86	5	118	103	117	104	58	
Brucellosis	0	2	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	7	212	11	433	531	575	384	344	
Syphilis	10	1,379	30	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	2	49	1	53	36	42	33	65	
Tuberculosis	494	19,129	525	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS [†]	9	723	15	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	150	7,602	-	10,811	6,396	-	-	-	
VRSA	0	2	-	0	0	-	-	-	
CRE	293	11,419	-	11,954	5,717	-	-	-	

1. (Continued) Reported cases, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Classification of disease‡	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category IV									
Dengue fever	10	211	4	159	171	313	255	165	Malaysia(2), Vietnam(2), Philippines(2), Laos(1), India(1), Cambodia(1), Thailand(1)
Q fever	1	179	1	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	7	76	0	23	31	27	9	13	
Melioidosis	0	5	0	2	2	4	4	2	
Chikungunya fever	0	14	0	3	5	10	2	1	
SFTS	4	172	12	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	10	-	3	11	16	-	-	

Abbreviation: EHEC= Enterohemorrhagic *Escherichia coli*, HFRS= Hemorrhagic fever with renal syndrome, CJD/vCJD= Creutzfeldt-Jacob Disease / variant Creutzfeldt-Jacob Disease, VRSA = Vancomycin-resistant *Staphylococcus aureus*, CRE = Carbapenem-resistant Enterobacteriaceae, SFTS = Severe fever with thrombocytopenia syndrome, MERS-CoV= Middle East Respiratory Syndrome Coronavirus.

Cum: Cumulative counts from 1st week to current week in a year.

* The reported data for year 2019 are provisional but the data from 2014 to 2018 are finalized.

† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

‡ The reported surveillance data excluded Hansen's disease and no incidence data such as Diphtheria, Poliomyelitis, Epidemic typhus, Anthrax, Plague, Yellow fever, Viral hemorrhagic fever, Smallpox, Severe Acute Respiratory Syndrome, Animal influenza infection in humans, Novel Influenza, Tularemia, Newly emerging infectious disease syndrome and Tick-borne Encephalitis.

§ Data on scarlet fever included both cases of confirmed and suspected since September 27, 2012.

2. Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category I											
	Cholera			Typhoid fever			Paratyphoid fever			Shigellosis		
	Current week	Cum. 2019	Cum. 5-year average‡	Current week	Cum. 2019	Cum. 5-year average‡	Current week	Cum. 2019	Cum. 5-year average‡	Current week	Cum. 2019	Cum. 5-year average‡
Overall	0	0	2	4	103	138	3	54	39	5	112	97
Seoul	0	0	0	0	17	26	1	10	8	0	35	22
Busan	0	0	1	1	8	10	0	4	5	1	7	6
Daegu	0	0	0	0	2	4	0	2	2	0	6	5
Incheon	0	0	0	0	7	7	0	1	3	2	8	13
Gwangju	0	0	0	0	0	5	0	3	2	0	3	2
Daejeon	0	0	0	0	8	6	0	2	1	0	1	2
Ulsan	0	0	0	0	3	2	0	1	0	1	3	1
Sejong	0	0	0	0	0	1	0	1	0	0	0	0
Gyeonggi	0	0	0	1	31	27	1	11	7	1	30	16
Gangwon	0	0	0	0	0	3	0	2	1	0	1	2
Chungbuk	0	0	0	0	2	4	0	3	2	0	1	2
Chungnam	0	0	0	0	5	6	0	0	1	0	2	6
Jeonbuk	0	0	0	0	4	3	0	2	2	0	1	3
Jeonnam	0	0	0	1	2	6	0	0	2	0	6	4
Gyeongbuk	0	0	0	1	5	6	0	3	1	0	1	5
Gyeongnam	0	0	1	0	9	19	1	8	2	0	5	6
Jeju	0	0	0	0	0	3	0	1	0	0	2	2

Cum: Cumulative counts from 1st week to current week in a year

* The reported data for year 2019 are provisional but the data from 2014 to 2018 are finalized.

† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

‡ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category I						Diseases of Category II					
	Enterohemorrhagic <i>Escherichia coli</i>			Viral hepatitis A			Pertussis			Tetanus		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	9	143	93	355	16,068	2,364	9	355	253	0	32	21
Seoul	2	36	12	45	2,886	457	0	51	31	0	2	2
Busan	2	4	3	5	465	109	0	25	25	0	2	2
Daegu	0	4	9	4	167	53	0	15	6	0	4	1
Incheon	0	10	7	22	910	196	0	16	15	0	0	1
Gwangju	0	8	14	5	144	68	0	17	12	0	2	0
Daejeon	0	1	2	64	2,477	106	1	13	4	0	2	0
Ulsan	0	4	5	3	71	24	0	6	7	0	2	0
Sejong	0	3	1	6	376	14	0	6	3	0	1	0
Gyeonggi	2	28	15	114	4,942	718	6	55	41	0	5	2
Gangwon	1	6	3	8	229	56	0	6	2	0	0	1
Chungbuk	0	7	2	23	990	69	0	7	6	0	1	0
Chungnam	2	5	3	32	1,323	151	0	4	8	0	2	1
Jeonbuk	0	4	1	11	472	116	0	9	4	0	1	1
Jeonnam	0	11	6	2	144	80	0	24	8	0	2	4
Gyeongbuk	0	6	3	4	209	57	0	36	16	0	4	3
Gyeongnam	0	3	3	4	201	76	2	57	61	0	2	3
Jeju	0	3	4	3	62	14	0	8	4	0	0	0

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† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Measles			Mumps			Rubella			Viral hepatitis B (Acute)		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	10	285	102	340	13,175	15,389	1	12	11	10	292	218
Seoul	3	41	24	39	1,676	1,499	0	2	2	2	45	38
Busan	0	9	4	28	745	1,116	0	0	1	1	29	13
Daegu	1	15	2	16	586	491	0	0	0	1	8	7
Incheon	0	11	12	17	652	653	0	2	0	2	14	13
Gwangju	1	3	1	7	414	1,117	0	0	0	0	4	5
Daejeon	0	38	4	4	402	339	0	0	1	0	12	8
Ulsan	0	4	1	14	423	494	0	0	0	0	2	6
Sejong	0	2	0	4	78	51	0	0	0	0	0	0
Gyeonggi	2	102	31	92	3,753	3,646	1	2	4	2	70	55
Gangwon	0	5	1	21	423	485	0	1	0	1	11	7
Chungbuk	0	2	2	10	342	302	0	0	0	0	16	7
Chungnam	0	6	4	19	597	565	0	0	1	0	17	11
Jeonbuk	0	9	1	6	600	1,314	0	0	0	0	11	14
Jeonnam	2	12	9	21	514	792	0	1	0	0	13	10
Gyeongbuk	1	13	5	15	682	680	0	3	2	0	21	10
Gyeongnam	0	9	1	22	1,058	1,645	0	0	0	1	14	13
Jeju	0	4	0	5	230	200	0	1	0	0	5	1

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† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II						Diseases of Category III					
	Japanese encephalitis			Varicella			Malaria			Scarlet fever‡		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	7	14	985	60,543	42,282	9	517	574	135	6,145	9,651
Seoul	0	0	5	123	6,987	4,502	1	85	78	28	1,045	1,208
Busan	0	0	0	57	3,024	2,604	1	12	8	11	354	717
Daegu	0	1	1	49	3,422	2,349	0	2	8	3	187	384
Incheon	0	0	1	40	2,921	2,232	2	84	89	11	308	435
Gwangju	0	1	1	43	2,142	1,310	0	4	4	7	333	436
Daejeon	0	1	0	16	1,489	1,195	0	5	3	3	257	352
Ulsan	0	0	0	22	1,706	1,341	0	1	4	2	244	411
Sejong	0	0	0	10	635	372	0	1	1	0	38	47
Gyeonggi	0	0	2	315	17,335	11,902	5	280	322	46	1,765	2,800
Gangwon	0	0	0	49	1,078	1,325	0	15	16	1	104	152
Chungbuk	0	1	1	48	1,292	1,080	0	5	5	1	102	171
Chungnam	0	1	0	30	2,410	1,630	0	6	8	4	276	436
Jeonbuk	0	0	0	22	2,105	1,899	0	2	5	1	203	340
Jeonnam	0	1	1	41	2,222	1,814	0	0	4	3	191	375
Gyeongbuk	0	1	1	36	3,934	2,021	0	4	8	6	243	519
Gyeongnam	0	0	1	71	6,761	3,494	0	8	8	6	420	758
Jeju	0	0	0	13	1,080	1,212	0	3	3	2	75	110

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§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Meningococcal meningitis			Legionellosis			<i>Vibrio vulnificus</i> sepsis			Murine typhus		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	12	7	17	346	101	3	31	41	1	11	8
Seoul	0	2	2	5	99	29	0	4	5	0	2	1
Busan	0	0	1	0	14	6	1	4	4	0	0	1
Daegu	0	0	1	2	12	4	0	0	1	0	0	0
Incheon	0	1	0	2	26	8	0	0	3	0	3	1
Gwangju	0	0	0	0	11	0	0	0	1	0	0	1
Daejeon	0	0	0	0	4	1	0	0	0	0	0	0
Ulsan	0	0	0	0	1	2	0	0	1	0	0	0
Sejong	0	1	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	4	1	6	95	20	2	6	7	1	2	1
Gangwon	0	2	0	1	9	6	0	0	0	0	0	0
Chungbuk	0	0	0	0	10	5	0	2	0	0	1	0
Chungnam	0	1	0	1	12	3	0	1	2	0	0	1
Jeonbuk	0	0	0	0	6	2	0	2	1	0	0	0
Jeonnam	0	0	0	0	13	2	0	5	7	0	1	1
Gyeongbuk	0	0	1	0	23	7	0	1	3	0	0	0
Gyeongnam	0	1	1	0	8	4	0	5	5	0	0	1
Jeju	0	0	0	0	3	2	0	1	1	0	2	0

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§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Scrub typhus			Leptospirosis			Brucellosis			Hemorrhagic fever with renal syndrome		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	34	932	1,026	8	86	50	0	2	1	7	212	219
Seoul	0	37	41	0	7	3	0	2	1	0	5	10
Busan	4	33	39	0	2	2	0	0	0	1	10	6
Daegu	0	4	13	0	1	1	0	0	0	0	2	1
Incheon	1	16	17	1	4	1	0	0	0	1	5	3
Gwangju	1	16	27	0	2	1	0	0	0	0	3	3
Daejeon	0	21	26	0	2	1	0	0	0	0	1	4
Ulsan	2	23	29	0	1	1	0	0	0	0	1	2
Sejong	0	3	4	0	0	0	0	0	0	0	0	1
Gyeonggi	3	81	103	3	11	9	0	0	0	1	28	58
Gangwon	1	6	30	1	8	3	0	0	0	0	10	11
Chungbuk	0	12	20	1	2	2	0	0	0	0	7	14
Chungnam	4	103	96	0	16	6	0	0	0	1	29	25
Jeonbuk	5	117	103	1	5	3	0	0	0	1	35	19
Jeonnam	6	230	235	0	8	6	0	0	0	1	42	30
Gyeongbuk	2	37	66	1	10	5	0	0	0	0	22	19
Gyeongnam	5	171	169	0	6	6	0	0	0	1	12	12
Jeju	0	22	8	0	1	0	0	0	0	0	0	1

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§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III									Diseases of Category IV		
	Syphilis			CJD/vCJD			Tuberculosis			Dengue fever		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	10	1,379	1,189	2	49	36	494	19,129	23,602	10	211	162
Seoul	4	278	248	0	8	8	83	3,385	4,410	2	56	52
Busan	0	145	76	0	3	2	36	1,327	1,683	1	8	10
Daegu	0	66	54	1	2	2	19	853	1,155	1	14	8
Incheon	1	106	105	0	1	1	23	1,031	1,224	2	17	7
Gwangju	0	35	41	0	1	0	13	456	579	0	2	2
Daejeon	0	44	35	0	4	1	14	414	543	0	5	4
Ulsan	0	16	17	0	1	1	5	392	493	0	8	2
Sejong	0	5	5	0	0	0	0	53	70	0	0	1
Gyeonggi	0	350	322	0	11	8	109	4,166	4,994	3	65	44
Gangwon	1	35	28	0	3	2	15	820	1,012	0	5	3
Chungbuk	0	31	29	0	1	1	18	560	719	0	6	2
Chungnam	0	49	40	0	1	2	27	904	1,093	0	5	5
Jeonbuk	1	36	26	0	2	1	26	740	901	0	6	2
Jeonnam	2	29	31	0	2	1	23	1,038	1,190	0	2	4
Gyeongbuk	0	64	47	0	4	3	39	1,457	1,694	0	2	6
Gyeongnam	1	66	56	1	5	3	41	1,273	1,562	0	7	8
Jeju	0	24	29	0	0	0	3	260	279	1	3	2

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§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending October 5, 2019 (40th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category IV											
	Q fever			Lyme Borreliosis			SFTS			Zika virus infection		
	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]
Overall	1	179	57	7	76	11	4	172	129	0	10	-
Seoul	0	18	3	1	30	4	0	6	6	0	3	-
Busan	0	2	1	0	2	1	0	1	2	0	1	-
Daegu	0	3	1	0	1	0	1	7	3	0	0	-
Incheon	1	7	1	0	4	1	0	3	2	0	2	-
Gwangju	0	3	3	0	4	0	0	1	0	0	0	-
Daejeon	0	4	1	0	0	1	0	2	2	0	0	-
Ulsan	0	0	2	2	3	0	0	3	2	0	0	-
Sejong	0	0	0	0	0	0	0	3	0	0	0	-
Gyeonggi	0	33	7	2	16	2	1	29	21	0	2	-
Gangwon	0	0	0	0	2	0	0	28	17	0	0	-
Chungbuk	0	28	14	0	0	0	1	2	6	0	0	-
Chungnam	0	16	8	0	4	0	0	22	12	0	0	-
Jeonbuk	0	17	3	0	1	1	0	16	4	0	0	-
Jeonnam	0	24	5	2	6	0	0	15	10	0	2	-
Gyeongbuk	0	13	3	0	2	1	0	14	20	0	0	-
Gyeongnam	0	10	5	0	1	0	0	12	12	0	0	-
Jeju	0	1	0	0	0	0	1	8	10	0	0	-

Cum: Cumulative counts from 1st week to current week in a year

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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending October 5, 2019 (40th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.9 cases (=0.39%)
- Variation: increase from 3.8 cases in 39th week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

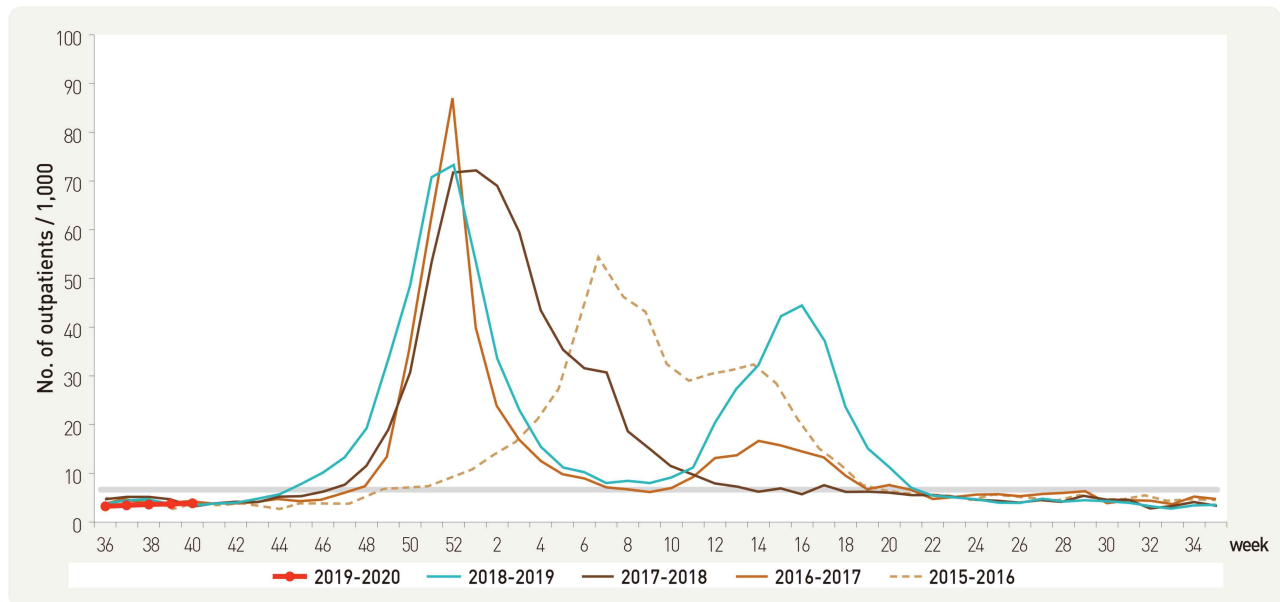


Figure 1. The weekly proportion of Influenza-Like Illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending October 5, 2019 (40th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 8.2 cases
- Variation: decrease from 8.3 cases in 39th week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

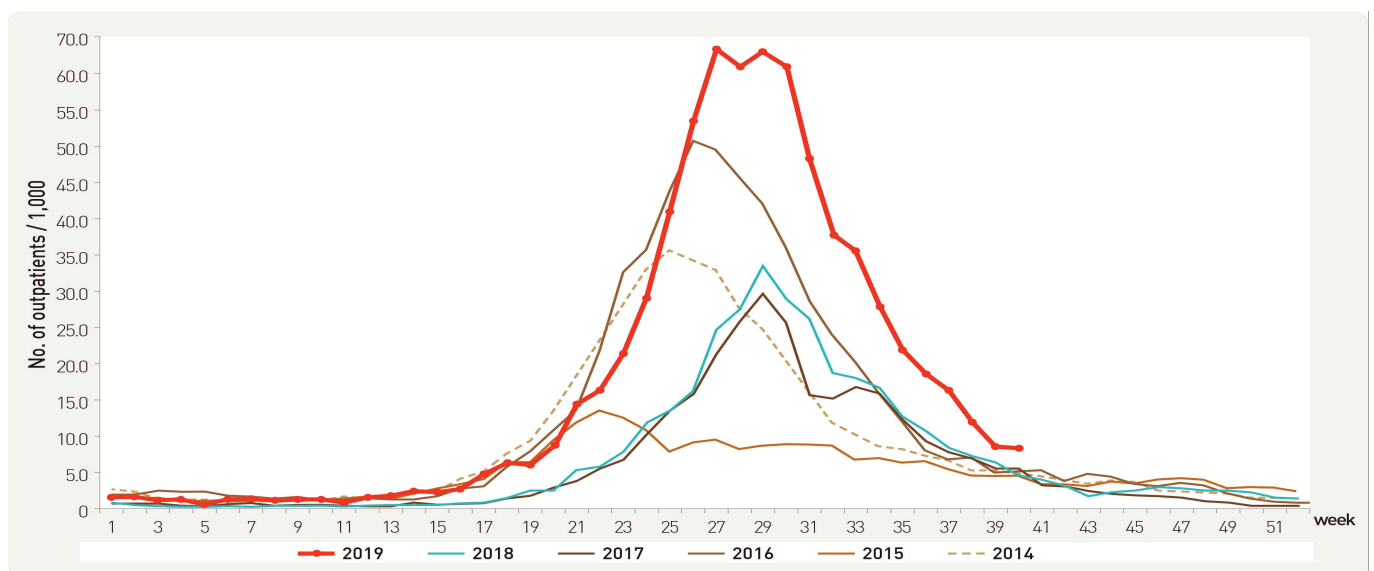


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending October 5, 2019 (40th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 21.5 cases
- Variation: increase from 18.0 cases in 39th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

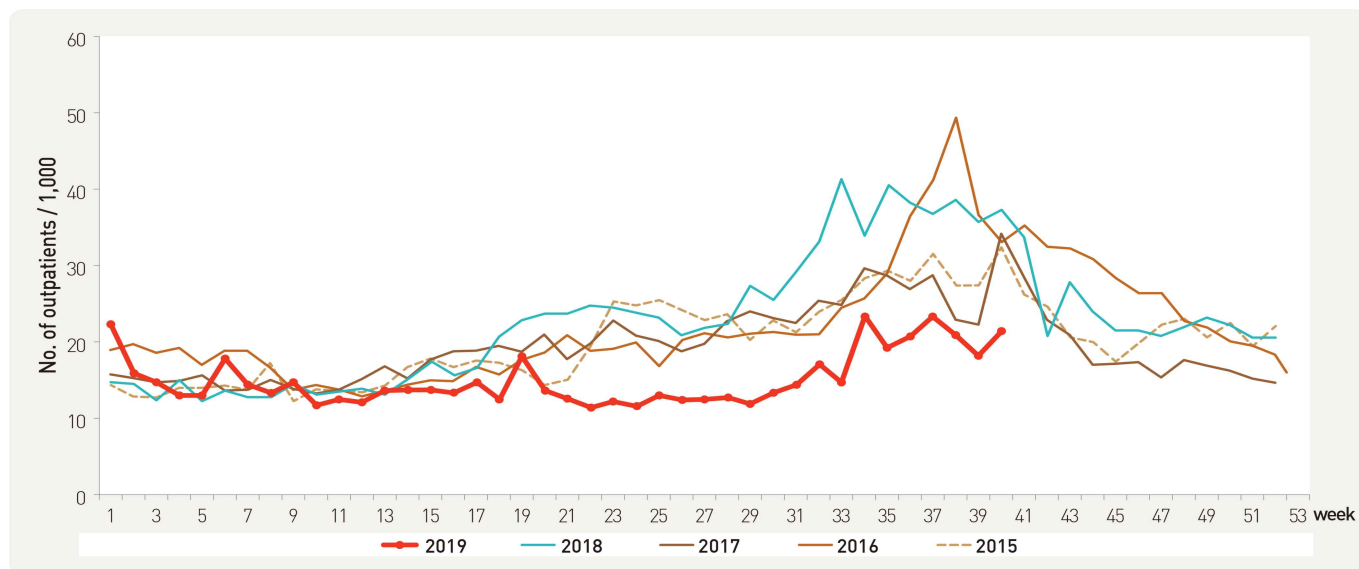


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.8 case
- Variation: no change from 0.8 case in 39th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

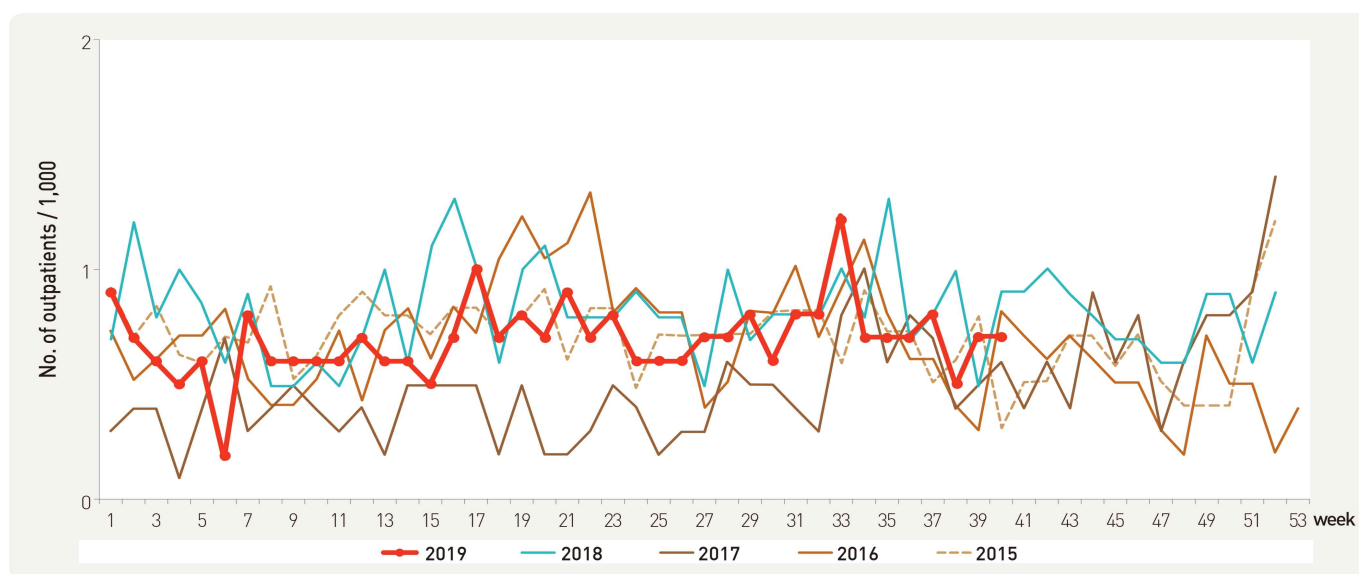


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending October 5, 2019 (40th Week)

- Cases per sentinel: 3.2 for genital herpes, 2.5 for condyloma acuminata, 2.0 for chlamydia, 1.4 for gonorrhea
- Variation from 39th week of 2019
Increase: genital herpes (2.8 → 3.2), condyloma acuminata (1.9 → 2.5)
No change: gonorrhea (1.4 → 1.4)
Decrease: chlamydia (2.6 → 2.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 40th week: 10 for gonorrhea, 20 for chlamydia, 19 for genital herpes, 13 for condyloma acuminata

									Unit: no. of cases/sentinels		
Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]
1.4	7.3	8.8	2.0	27.4	22.9	3.2	39.5	26.8	2.5	21.4	16.3

Cum: Cumulative counts from 1st week to current week in a year

[†] According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

[§] Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

III. Waterborne and Foodborne Infectious Diseases

1. Waterborne and foodborne disease outbreaks, weeks ending October 5, 2019 (40th Week)

- No. of reported outbreaks: 7 with 76 patients (cumulative no. of outbreaks: 491 with 5,844 patients)
- Variation: decrease from 12 in 39th week of 2019
- Reporting sites: 254 health centers

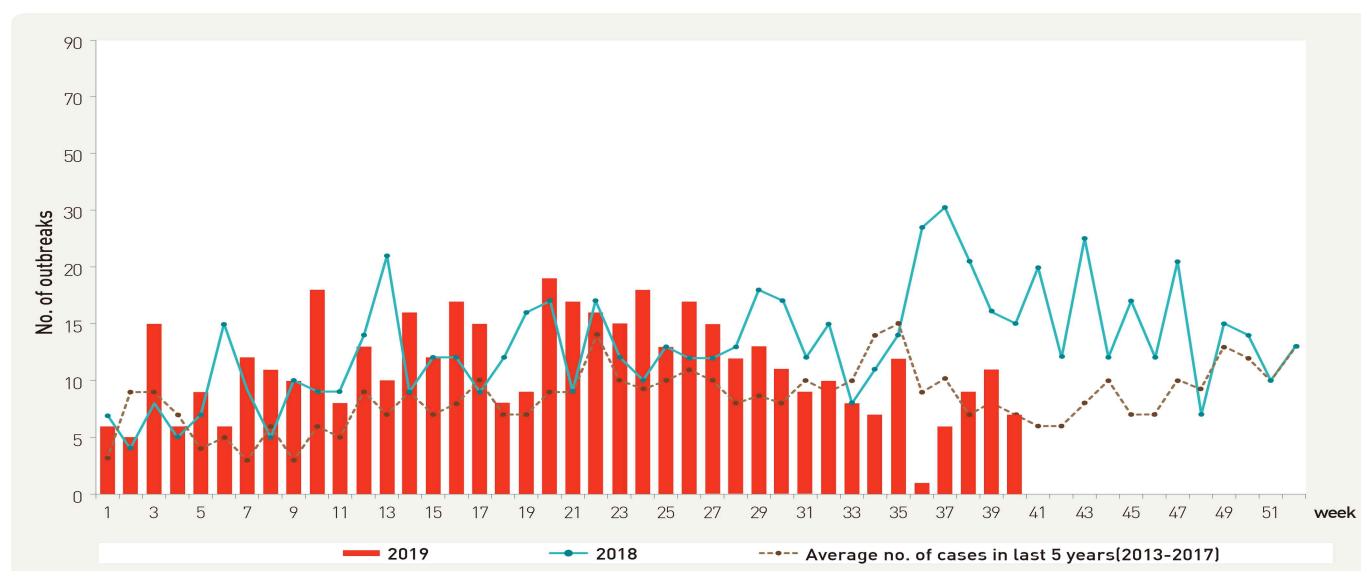


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

IV. Laboratory-based Pathogen Surveillance: Influenza and Respiratory Viruses

1. Influenza viruses, weeks ending October 5, 2019 (40th Week)

- Weekly reported number of specimens positive for influenza: 3 cases (1.4%) / 209 specimens [influenza subtype: A(H1N1)pdm09 3 case, A(H3N2) 0 cases, B 0 case]
- Variation (%p): no change from 3 cases (1.4%) / 220 specimens in 39th week of 2019
- Sentinel reporting sites: 52 hospitals/clinics



Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending October 5, 2019 (40th Week)

- Detection rate: 51.7% (cumulative mean proportion during preceding three weeks plus current week: 48.5% out of 804 specimens)
- Variation (%p): increase from 48.2% in 39th week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2019 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
37	161	49.1	11.2	6.8	1.9	0.0	1.9	21.1	1.9	4.4
38	214	45.3	8.4	7.9	2.3	0.0	1.4	22.0	2.3	0.9
39	220	48.2	9.5	7.3	1.4	1.4	0.9	24.5	1.8	1.4
40	209	51.7	11.5	5.3	1.0	1.4	3.3	24.4	2.9	1.9
Cum.*	804	48.5	10.1	6.8	1.6	0.7	1.9	23.1	2.2	2.0
2018 Cum.†	11,966	63.0	6.8	6.1	4.4	17.0	5.7	16.3	1.7	4.9

- HAdV : human Adenovirus, HPIV : human Parainfluenza virus, HRSV : human Respiratory syncytial virus, IFV : Influenza virus,

HCoV : human Coronavirus, HRV : human Rhinovirus, HBoV : human Bocavirus, HMPV : human Metapneumovirus

* Cum. : the rate of detected cases between September 8, 2019 – October 5, 2019 (Average No. of detected cases is 201 last 4 weeks)

† 2018 Cum. : the rate of detected cases between January 01, 2018 – December 29, 2018

V. Laboratory-based Pathogen Surveillance: Acute Gastroenteritis Viruses/Bacteria

1. Acute gastroenteritis-causing virus, weeks ending September 28, 2019 (39th Week)

- Detection rate: 14.3% [cumulative mean proportion in 2019: 688 cases (30.9%) out of 2,230 specimens]
- Variation (%p): increase from 9.8% in 38th week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week	No. of sample	No. of detection (Detection rate, %)											
		Norovirus		Group A Rotavirus		Enteric Adenovirus		Astrovirus		Sapovirus		Total	
2019 36	57	2	(3.5)	0	(0.0)	0	(0.0)	1	(1.8)	1	(1.8)	4	(7.0)
37	48	1	(2.1)	2	(4.2)	1	(2.1)	0	(0.0)	0	(0.0)	4	(8.3)
38	41	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(9.8)	4	(9.8)
39	21	0	(0.0)	0	(0.0)	0	(0.0)	2	(9.5)	1	(4.8)	3	(14.3)
Cum. 2019	2,230	450	(20.2)	119	(5.3)	35	(1.6)	46	(2.1)	38	(1.7)	688	(30.9)

* The samples were collected from children ≤ 5 years of sporadic acute gastroenteritis in Korea.

2. Acute gastroenteritis-causing bacteria, weeks ending September 28, 2019 (39th Week)

- Detection rate: 25.5% [cumulative mean proportion in 2019: 1,000 cases (15.0%) out of 6,659 specimens]
- Variation (%p): no change from 25.5% in 38th week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week		No. of Sample	No. of isolation (Isolation rate, %)									
			<i>Salmonella</i> spp.	Pathogenic <i>E.coli</i>	<i>Shigella</i> spp.	<i>V.parahae molyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C.perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2019	36	166	6 (3.6)	21 (12.7)	1 (0.6)	0 (0)	0 (0)	3 (1.8)	2 (1.2)	1 (0.6)	4 (2.4)	38 (22.9)
	37	114	7 (6.1)	14 (12.3)	0 (0)	1 (0.9)	0 (0)	1 (0.9)	1 (0.9)	2 (1.8)	1 (0.9)	27 (23.7)
	38	137	12 (8.8)	9 (6.6)	0 (0)	1 (0.7)	0 (0)	3 (2.2)	5 (3.6)	3 (2.2)	2 (1.5)	35 (25.5)
	39	98	2 (2.0)	14 (14.3)	0 (0)	0 (0)	0 (0)	2 (2.0)	1 (1.0)	2 (2.0)	4 (4.1)	25 (25.5)
Cum. 2019		6,659	208 (3.1)	347 (5.2)	1 (0.02)	4 (0.06)	0 (0)	87 (1.3)	126 (1.9)	125 (1.9)	96 (1.4)	1,000 (15.0)

* Bacterial Pathogens: *Salmonella* spp., *E. coli* (EHEC, ETEC, EPEC, EIEC), *Shigella* spp., *Vibrio parahaemolyticus*, *Vibrio cholerae*, *Campylobacter* spp., *Clostridium perfringens*, *Staphylococcus aureus*, *Bacillus cereus*, *Listeria monocytogenes*, *Yersinia enterocolitica*.

* Hospitals participating in Laboratory surveillance in 2019 (70 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending September 28, 2019 (39th Week)

- Detection rate: 52.9% (9 cases / 17 specimens) [cumulative mean proportion in 2019: 39.7% (617 cases / 1,554 specimens)]
 - Aseptic meningitis: 1 case (Cum. 2019: 236 cases)
 - HFMD and herpangina: 1 case (Cum. 2019: 236 cases)
 - HFMD with complications: 0 case (Cum. 2019: 12 cases)
 - Other: 7 cases (Cum. 2019: 133 cases)
- Variation (%p): increase from 43.2% in 38th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

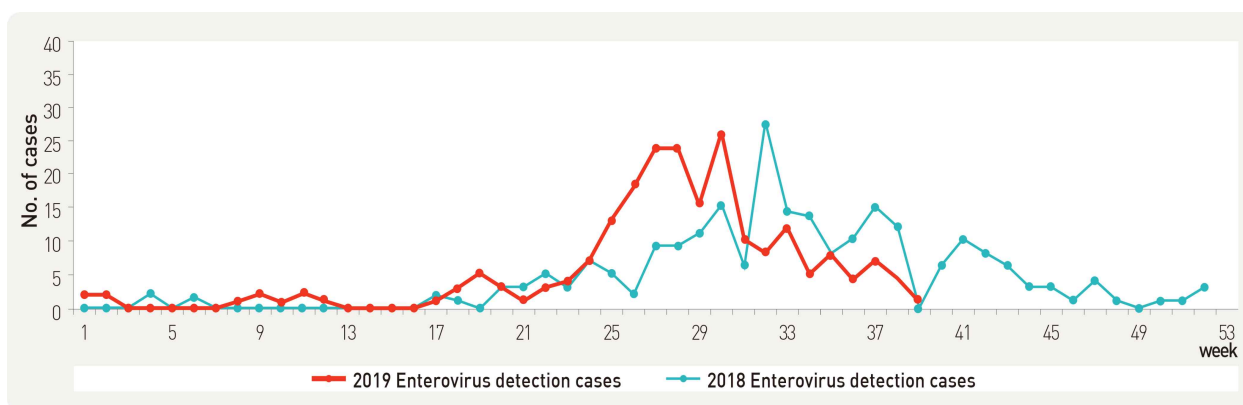


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2018 to 2019

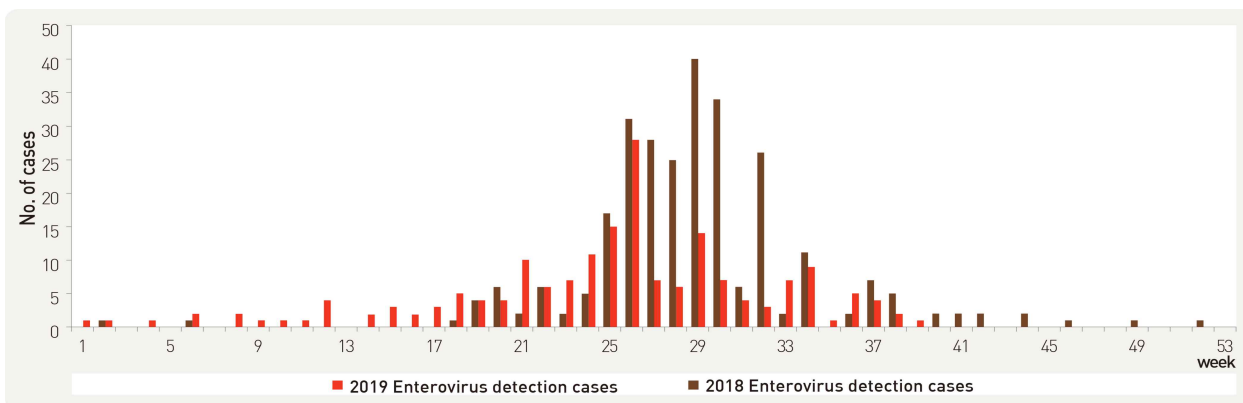


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2018 to 2019

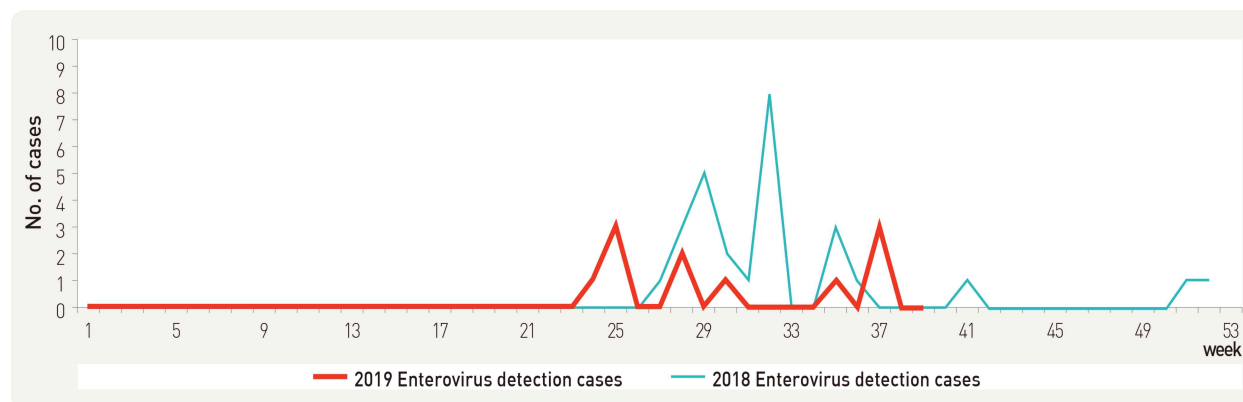


Figure 9. Detection of enterovirus in HFMD with complications patients from 2018 to 2019

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending September 28, 2019 (39th Week)

- No. of malaria vector mosquitoes: 1
- Variation: decrease from 3 in 38th week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

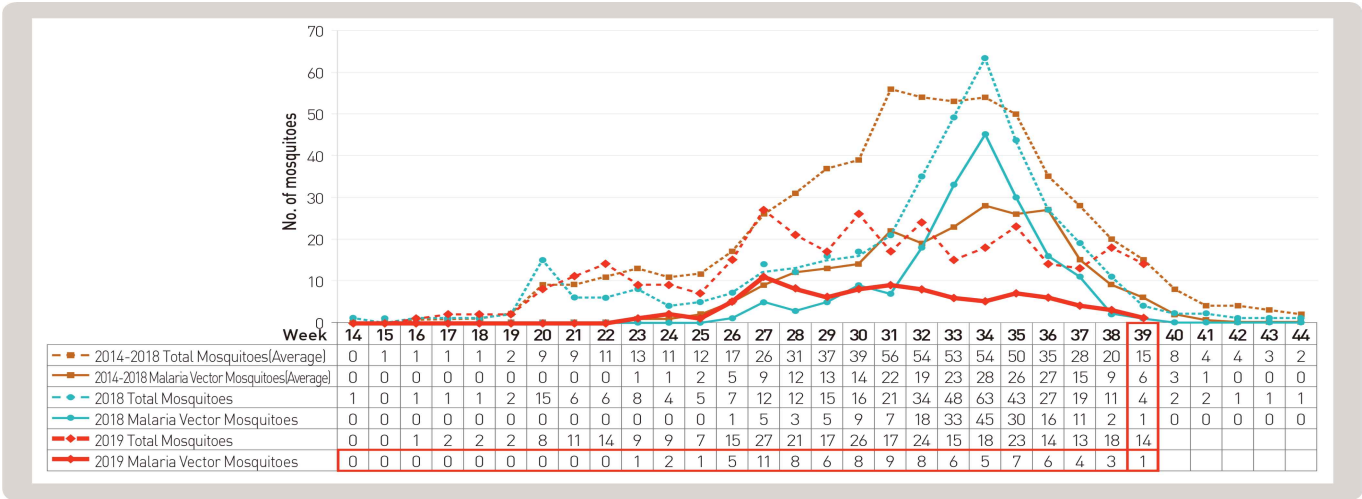


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending October 5, 2019 (40th Week)

- No. of Japanese encephalitis vector mosquitoes: 91
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 59 in 39th week of 2019
- Sentinel reporting sites: 10 city/provincial health and environmental institutes and health centers (10 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

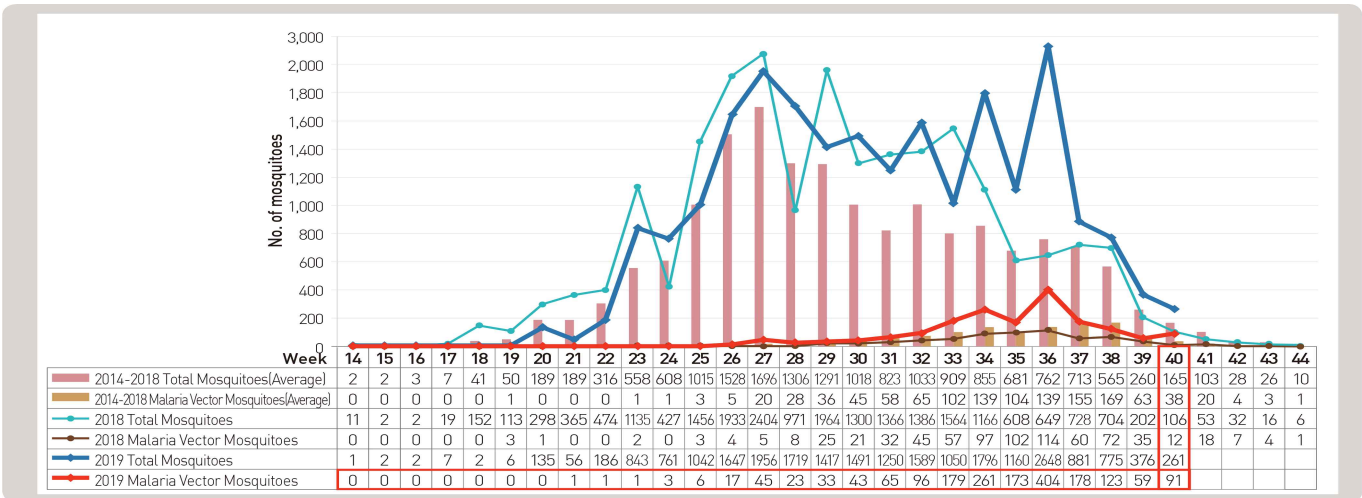


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2019

IX. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending October 5, 2019 (40th Week)

- No. of chigger mites: 9
- Variation: increase from 5 in 39th week of 2019
- Sentinel reporting sites: 11 city/province (16 sites)
 - ※ No. of chigger mites: total number of chigger in 320 traps

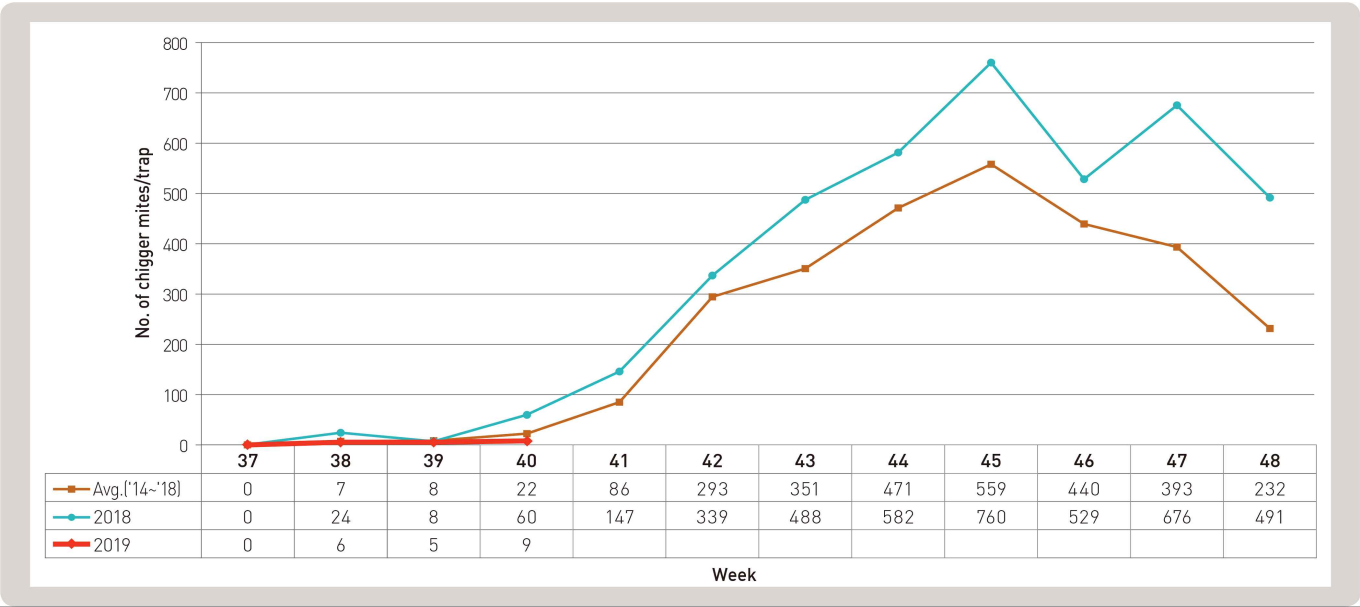


Figure 12. Weekly incidences of scrub typhus vector chiggers in 2019

About PHWR Disease Surveillance Statistics

The Public Health Weekly Report (PHWR) Disease Surveillance Statistics is prepared by the Korea Centers for Disease Control and Prevention (Korea CDC). These provisional surveillance data on the reported occurrence of national notifiable diseases and conditions are compiled through population-based or sentinel-based surveillance systems and published weekly, except for data on infrequent or recently-designated diseases. These surveillance statistics are informative for analyzing infectious disease or condition numbers and trends. However, the completeness of data might be influenced by some factors such as a date of symptom or disease onset, diagnosis, laboratory result, reporting of a case to a jurisdiction, or notification to Korea Centers for Disease Control and Prevention. The official and final disease statistics are published in infectious disease surveillance yearbook annually.

Using and Interpreting These Data in Tables

- **Current Week** – The number of cases under current week denotes cases who have been reported to Korea CDC at the central level via corresponding jurisdictions(health centers, and health departments) during that week and accepted/approved by surveillance staff.
- **Cum. 2018** – For the current year, it denotes the cumulative(Cum) year-to-date provisional counts for the specified condition.
- **5-year weekly average** – The 5-year weekly average is calculated by summing, for the 5 proceeding years, the provisional incidence counts for the current week, the two weeks preceding the current week, and the two weeks following the current week. The total sum of cases is then divided by 5 weeks. It gives help to discern the statistical aberration of the specified disease incidence by comparing difference between counts under current week and 5-year weekly average.

For example,

		Week Number				
		10	11	12	13	14
Year	2018			Current week		
	2017	X1	X2	X3	X4	X5
	2016	X6	X7	X8	X9	X10
	2015	X11	X12	X13	X14	X15
	2014	X16	X17	X18	X19	X20
	2013	X21	X22	X23	X24	X25

5-year weekly average for current week

$$= (X1 + X2 + \dots + X25) / 5$$

- **Cum. 5-year average** – Mean value calculated by cumulative counts from 1st week to current week for 5 preceding years. It gives help to understand the increasing or decreasing pattern of the specific disease incidence by comparing difference between cum. 2018 and cum. 5-year average.

Contact Us

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