

I. National Notifiable Infectious Diseases

1. Reported cases, week ending June 15, 2019 (24th 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	Vietnam(1) Cambodia(1)
	Typhoid fever	6	72	5	213	128	121	121	251	
	Paratyphoid fever	3	28	1	47	73	56	44	37	
	Shigellosis	3	40	2	191	111	113	88	110	
	EHEC	13	53	4	121	138	104	71	111	
	Viral hepatitis A	567	7,374	66	2,437	4,419	4,679	1,804	1,307	
Category II										
	Pertussis	6	217	5	980	318	129	205	88	
	Tetanus	0	21	1	31	34	24	22	23	
	Measles	9	360	4	15	7	18	7	442	
	Mumps	599	8,252	552	19,237	16,924	17,057	23,448	25,286	
	Rubella	1	12	0	0	7	11	11	11	
	Viral hepatitis B (Acute)	8	177	6	392	391	359	155	173	
	Japanese encephalitis	0	0	0	17	9	28	40	26	
	Varicella	2,100	41,071	1,520	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>	12	275	8	670	523	441	228	36	
Category III										
	Malaria	23	117	26	576	515	673	699	638	Laos(1), Liberia(1)
	Scarlet fever [§]	191	4,040	311	15,777	22,838	11,911	7,002	5,809	
	Meningococcal meningitis	0	8	0	14	17	6	6	5	
	Legionellosis	7	167	2	305	198	128	45	30	
	<i>Vibrio vulnificus</i> sepsis	0	1	0	47	46	56	37	61	
	Murine typhus	0	3	0	16	18	18	15	9	
	Scrub typhus	35	379	34	6,668	10,528	11,105	9,513	8,130	
	Leptospirosis	5	34	1	118	103	117	104	58	
	Brucellosis	0	32	0	5	6	4	5	8	
	Rabies	0	0	0	0	0	0	0	0	
	HFRS	7	106	8	433	531	575	384	344	
	Syphilis	33	839	31	2,280	2,148	1,569	1,006	1,015	
	CJD/vCJD	1	50	1	53	36	42	33	65	
	Tuberculosis	574	11,887	624	26,433	28,161	30,892	32,181	34,869	
	HIV/AIDS	25	406	20	989	1,009	1,062	1,018	1,081	
	Viral hepatitis C	211	4,644	-	10,811	6,396	-	-	-	
	VRSA	0	0	-	0	0	-	-	-	
	CRE	257	5,894	-	11,954	5,716	-	-	-	

1. (Continued) Reported cases, week ending June 15, 2019 (24th 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	5	79	4	159	171	313	255	165	Malaysia(1), Bangladesh(1), Vietnam(1), Indonesia(1), Cambodia(1)
Q fever	2	137	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	19	62	0	23	31	27	9	13	
Melioidosis	0	2	0	2	2	4	4	2	
Chikungunya fever	0	5	0	3	5	10	2	1	
SFTS	5	25	5	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	6	-	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 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 15, 2019 (24th 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	0	6	72	95	3	28	19	3	40	59
Seoul	0	0	0	1	14	18	2	5	4	1	14	11
Busan	0	0	0	1	7	7	0	2	2	1	1	4
Daegu	0	0	0	1	2	4	0	2	1	0	1	4
Incheon	0	0	0	0	6	5	0	1	1	0	3	10
Gwangju	0	0	0	1	1	3	0	0	1	0	2	1
Daejeon	0	0	0	1	7	4	0	1	0	0	0	1
Ulsan	0	0	0	0	3	1	0	1	0	0	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	0	18	17	0	5	5	0	9	11
Gangwon	0	0	0	0	0	2	0	0	0	0	0	1
Chungbuk	0	0	0	0	1	2	0	1	1	0	0	1
Chungnam	0	0	0	1	4	5	0	0	1	0	0	2
Jeonbuk	0	0	0	0	1	2	0	2	1	0	1	2
Jeonnam	0	0	0	0	1	4	0	0	1	0	4	3
Gyeongbuk	0	0	0	0	3	4	0	3	1	0	1	4
Gyeongnam	0	0	0	0	4	14	0	4	0	1	3	3
Jeju	0	0	0	0	0	2	1	1	0	0	0	1

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

* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 15, 2019 (24th 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	13	53	35	567	7,374	1,642	6	217	90	0	21	9
Seoul	4	15	4	100	1,335	312	0	36	17	0	2	1
Busan	1	2	1	4	136	91	0	11	5	0	1	1
Daegu	0	1	6	4	68	38	0	11	1	0	3	1
Incheon	2	5	1	53	461	135	0	11	7	0	0	0
Gwangju	0	1	3	5	62	51	0	13	6	0	2	0
Daejeon	0	0	1	69	1,100	75	0	10	2	0	2	0
Ulsan	0	1	1	3	27	19	0	4	1	0	2	0
Sejong	0	0	0	4	154	9	0	6	1	0	0	0
Gyeonggi	2	9	5	196	2,301	474	1	21	17	0	3	1
Gangwon	0	1	2	6	124	36	0	2	1	0	0	1
Chungbuk	0	2	2	40	488	42	0	6	3	0	1	0
Chungnam	0	1	1	49	608	110	1	4	3	0	0	0
Jeonbuk	1	1	0	19	190	75	1	7	3	0	0	0
Jeonnam	0	7	4	4	94	67	1	18	5	0	1	2
Gyeongbuk	1	1	1	3	105	38	0	20	8	0	3	1
Gyeongnam	1	3	1	5	94	59	1	33	9	0	1	1
Jeju	1	3	2	3	27	11	1	4	1	0	0	0

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

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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 June 15, 2019 (24th 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	9	360	88	599	8,252	9,382	1	12	7	8	177	129
Seoul	6	48	23	82	1,071	911	1	2	2	1	26	21
Busan	0	14	3	49	497	685	0	0	1	3	22	9
Daegu	0	22	1	23	353	304	0	0	0	0	5	5
Incheon	1	13	9	27	396	398	0	1	0	0	10	9
Gwangju	0	1	1	36	272	656	0	0	0	0	1	3
Daejeon	0	85	4	17	257	223	0	0	1	0	7	4
Ulsan	0	3	1	17	318	289	0	0	0	0	2	4
Sejong	0	2	0	4	55	31	0	0	0	0	0	0
Gyeonggi	2	109	27	159	2,326	2,217	0	2	2	1	42	30
Gangwon	0	7	1	16	247	307	0	1	0	0	7	4
Chungbuk	0	2	2	13	231	187	0	0	0	0	7	4
Chungnam	0	3	3	26	356	348	0	0	0	0	11	7
Jeonbuk	0	10	1	23	371	794	0	0	0	0	8	8
Jeonnam	0	8	8	26	298	524	0	1	0	3	11	6
Gyeongbuk	0	24	4	30	424	419	0	4	1	0	10	6
Gyeongnam	0	6	0	41	645	971	0	1	0	0	6	8
Jeju	0	3	0	10	135	118	0	0	0	0	2	1

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

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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 June 15, 2019 (24th 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	0	0	2,100	41,071	28,543	23	117	141	191	4,040	6,729
Seoul	0	0	0	248	4,623	2,964	6	17	21	35	663	861
Busan	0	0	0	76	2,082	1,825	0	3	2	17	261	530
Daegu	0	0	0	161	2,179	1,581	1	1	2	8	120	262
Incheon	0	0	0	119	2,026	1,479	2	13	19	4	205	298
Gwangju	0	0	0	48	1,561	810	0	1	1	10	238	282
Daejeon	0	0	0	66	878	831	0	3	1	13	149	236
Ulsan	0	0	0	67	974	865	0	1	1	6	177	300
Sejong	0	0	0	26	465	235	0	0	1	1	22	31
Gyeonggi	0	0	0	565	11,849	8,176	11	65	80	52	1,132	1,933
Gangwon	0	0	0	22	681	894	1	6	5	1	66	107
Chungbuk	0	0	0	53	800	712	0	3	1	4	72	116
Chungnam	0	0	0	92	1,623	1,128	0	0	2	6	196	297
Jeonbuk	0	0	0	90	1,434	1,278	1	1	1	5	145	249
Jeonnam	0	0	0	67	1,473	1,209	0	0	0	2	139	255
Gyeongbuk	0	0	0	139	2,796	1,349	0	0	1	11	151	364
Gyeongnam	0	0	0	230	4,917	2,363	1	3	2	13	263	529
Jeju	0	0	0	31	710	844	0	0	1	3	41	79

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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 June 15, 2019 (24th 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	8	5	7	167	51	0	1	1	0	3	3
Seoul	0	1	2	2	48	14	0	1	0	0	0	1
Busan	0	0	1	1	8	4	0	0	0	0	0	0
Daegu	0	0	0	0	5	3	0	0	0	0	0	0
Incheon	0	1	0	0	11	4	0	0	0	0	0	0
Gwangju	0	0	0	0	4	0	0	0	0	0	0	0
Daejeon	0	0	0	0	2	1	0	0	0	0	0	0
Ulsan	0	0	0	0	1	1	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	4	1	2	43	10	0	0	1	0	2	0
Gangwon	0	2	0	0	4	2	0	0	0	0	0	0
Chungbuk	0	0	0	0	4	2	0	0	0	0	0	0
Chungnam	0	0	0	0	5	2	0	0	0	0	0	1
Jeonbuk	0	0	0	0	1	1	0	0	0	0	0	0
Jeonnam	0	0	0	0	9	1	0	0	0	0	0	1
Gyeongbuk	0	0	0	1	14	4	0	0	0	0	0	0
Gyeongnam	0	0	1	1	7	1	0	0	0	0	0	0
Jeju	0	0	0	0	1	1	0	0	0	0	1	0

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

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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 June 15, 2019 (24th 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	35	379	446	5	34	14	0	32	0	7	106	106
Seoul	2	22	20	0	5	0	0	7	0	0	3	5
Busan	0	13	18	0	1	1	0	0	0	0	4	2
Daegu	0	0	5	0	1	0	0	0	0	0	1	1
Incheon	1	7	10	1	1	0	0	2	0	0	2	1
Gwangju	0	7	10	0	2	1	0	0	0	0	1	1
Daejeon	0	5	12	0	0	1	0	2	0	0	0	2
Ulsan	3	15	9	0	0	0	0	0	0	0	0	1
Sejong	0	1	1	0	0	0	0	0	0	0	0	0
Gyeonggi	2	20	45	2	11	3	0	9	0	1	19	33
Gangwon	1	4	14	0	2	1	0	0	0	0	3	6
Chungbuk	0	3	9	1	2	0	0	4	0	0	3	6
Chungnam	2	35	42	1	5	1	0	0	0	3	15	11
Jeonbuk	4	35	40	0	0	1	0	0	0	1	16	8
Jeonnam	13	113	105	0	3	2	0	3	0	1	24	13
Gyeongbuk	1	9	33	0	0	1	0	1	0	0	10	10
Gyeongnam	6	78	68	0	1	2	0	4	0	1	5	5
Jeju	0	12	5	0	0	0	0	0	0	0	0	1

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

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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 June 15, 2019 (24th 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	33	839	684	1	50	21	574	11,887	14,281	5	79	76
Seoul	3	174	142	0	11	5	106	2,076	2,678	0	18	24
Busan	3	85	42	0	5	1	35	849	1,032	1	3	4
Daegu	2	36	33	0	1	2	31	518	707	0	5	4
Incheon	1	68	63	0	2	1	39	658	745	0	7	3
Gwangju	3	18	25	0	0	0	14	312	356	0	1	1
Daejeon	0	30	18	0	1	0	5	259	337	0	1	2
Ulsan	0	11	10	0	2	0	12	248	301	1	5	1
Sejong	0	2	4	0	1	0	2	36	43	0	0	0
Gyeonggi	14	206	184	0	10	5	138	2,602	2,985	1	19	23
Gangwon	0	22	18	0	2	1	28	500	623	1	5	1
Chungbuk	1	22	14	0	1	1	17	350	445	0	4	1
Chungnam	2	28	24	0	1	1	26	541	654	0	2	2
Jeonbuk	0	25	14	0	3	1	21	441	555	1	2	1
Jeonnam	2	14	18	0	2	0	30	663	720	0	2	2
Gyeongbuk	1	45	25	1	6	2	41	887	1,002	0	1	3
Gyeongnam	1	40	32	0	2	1	26	782	935	0	3	3
Jeju	0	13	18	0	0	0	3	165	164	0	1	1

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

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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 June 15, 2019 (24th 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	2	137	33	19	62	3	5	25	21	0	6	-
Seoul	0	22	3	4	21	2	0	0	0	0	1	-
Busan	0	2	1	0	3	0	0	0	0	0	1	-
Daegu	0	1	1	0	1	0	0	1	0	0	0	-
Incheon	0	5	1	2	3	0	0	0	0	0	1	-
Gwangju	0	3	1	3	6	0	0	1	0	0	0	-
Daejeon	0	5	1	0	3	0	0	0	0	0	1	-
Ulsan	0	0	1	0	2	0	0	0	0	0	0	-
Sejong	0	0	0	1	1	0	0	0	0	0	0	-
Gyeonggi	0	21	5	4	11	0	2	4	3	0	2	-
Gangwon	0	1	0	2	2	0	1	4	3	0	0	-
Chungbuk	1	17	6	1	1	0	0	0	0	0	0	-
Chungnam	0	10	4	1	2	0	0	3	3	0	0	-
Jeonbuk	0	15	1	1	3	0	1	5	2	0	0	-
Jeonnam	0	16	2	0	3	0	0	1	2	0	0	-
Gyeongbuk	0	6	2	0	0	1	1	2	3	0	0	-
Gyeongnam	1	12	4	0	0	0	0	3	2	0	0	-
Jeju	0	1	0	0	0	0	0	1	3	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 June 15, 2019 (24th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 4.7 cases (=0.47%)
- Variation: decrease from 5.1 cases in 23rd week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2018-2019 outbreak standard: 6.3 cases (/1,000)

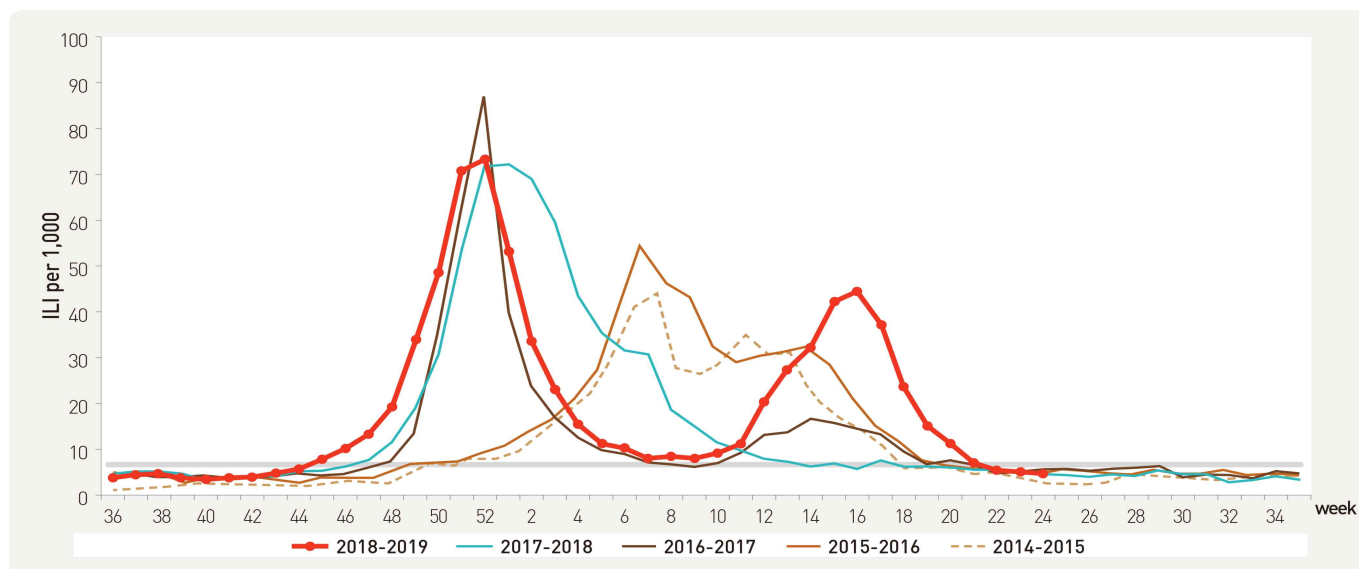


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending June 15, 2019 (24th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 29.0 cases
- Variation: increase from 21.5 cases in 23rd week of 2019
- Sentinel reporting sites: 95 hospitals/clinics

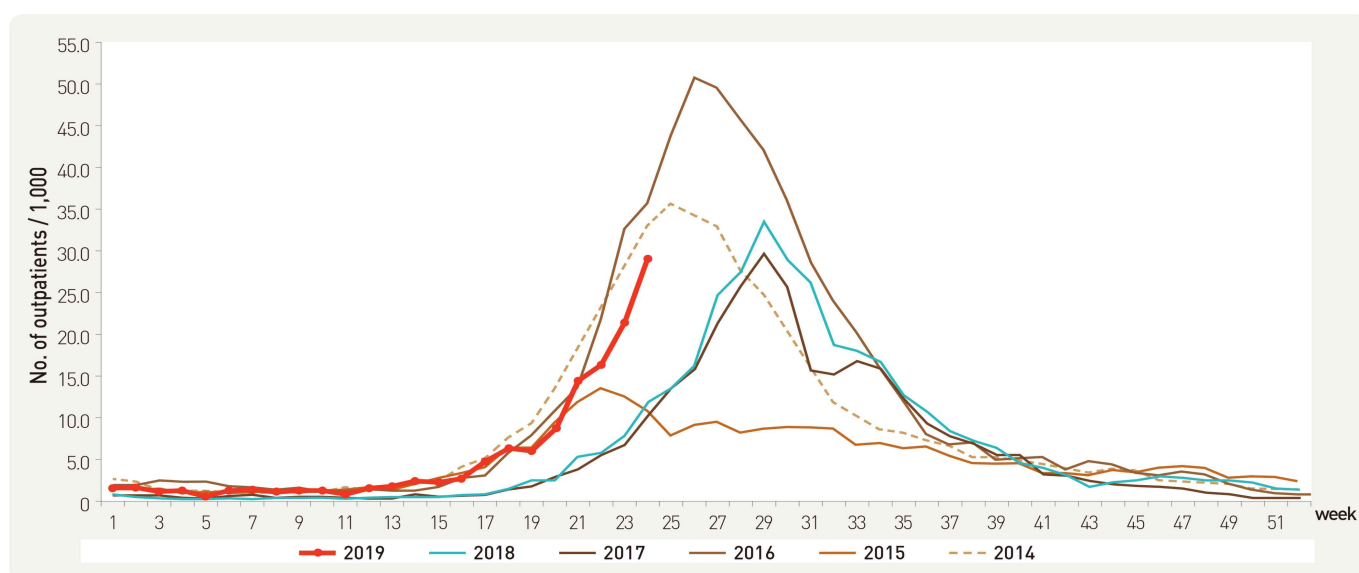


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending June 15, 2019 (24th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 11.6 cases
- Variation: decrease from 12.2 cases in 23rd week of 2019
- Sentinel reporting sites: 92 hospitals/clinics

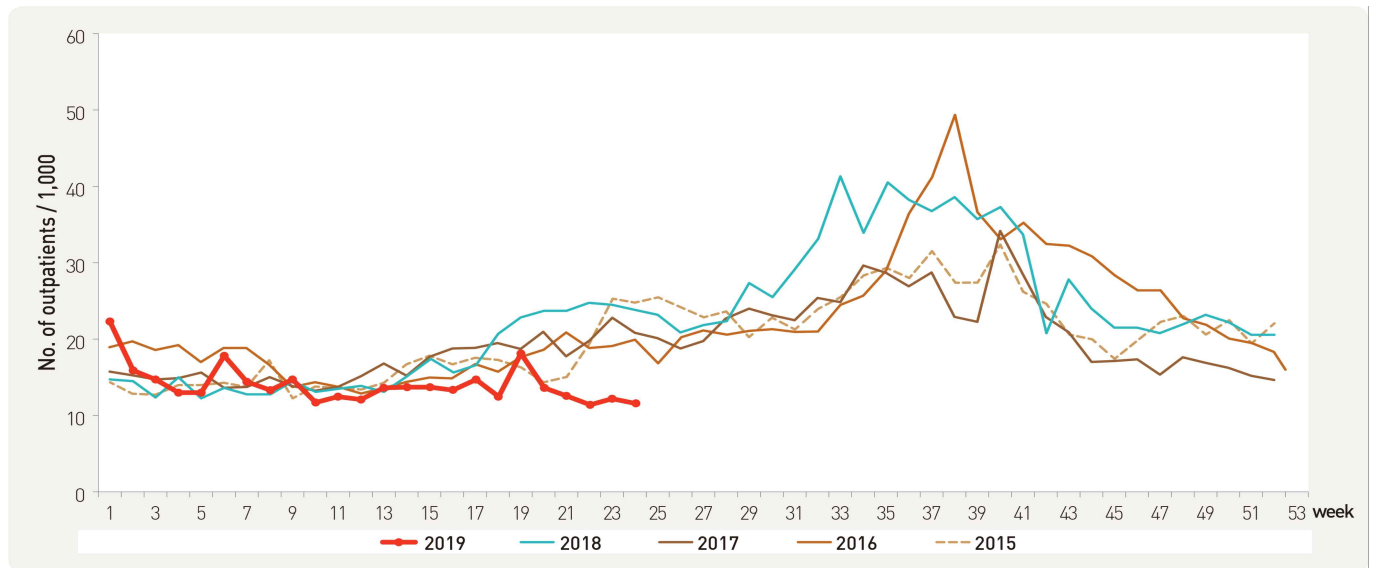


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.8 case
- Variation: no change from 0.8 case in 23rd week of 2019
- Sentinel reporting sites: 92 hospitals/clinics

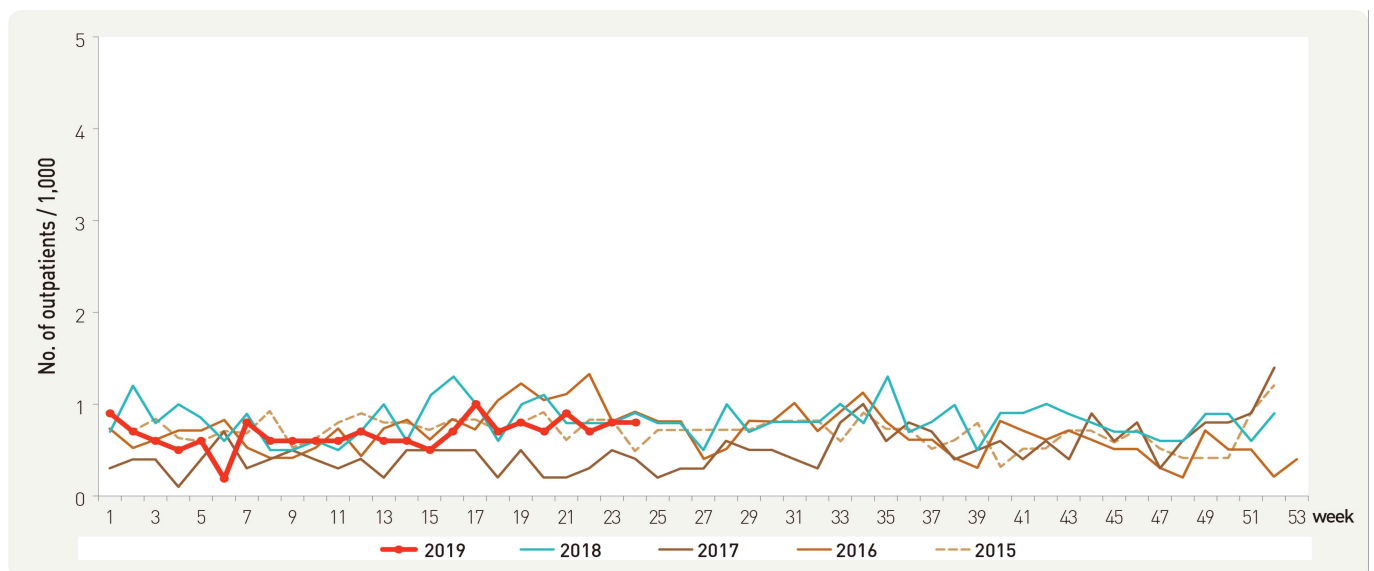


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending June 15, 2019 (24th Week)

- Cases per sentinel: 2.5 for genital herpes, 2.2 for chlamydia, 1.8 for condyloma acuminata, 1.5 for gonorrhea
- Variation from 23rd week of 2019
Increase: genital herpes (2.1 → 2.5)
No change: gonorrhea (1.5 → 1.5)
Decrease: chlamydia (2.3 → 2.2), condyloma acuminata (2.5 → 1.8)
- Sentinel reporting sites: 590 hospitals/clinics
※ No. of reported sites in 24th week: 13 for gonorrhea, 47 for chlamydia, 43 for genital herpes, 30 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 [§]
1.5	4.9	6.0	2.2	16.3	15.2	2.5	24.4	17.8	1.8	12.6	11.3

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 June 15, 2019 (24th Week)

- No. of reported outbreaks: 16 with 218 patients (cumulative no. of outbreaks: 307 with 4,083 patients)
- Variation: increase from 15 in 23rd week of 2019
- Reporting sites: 254 health centers

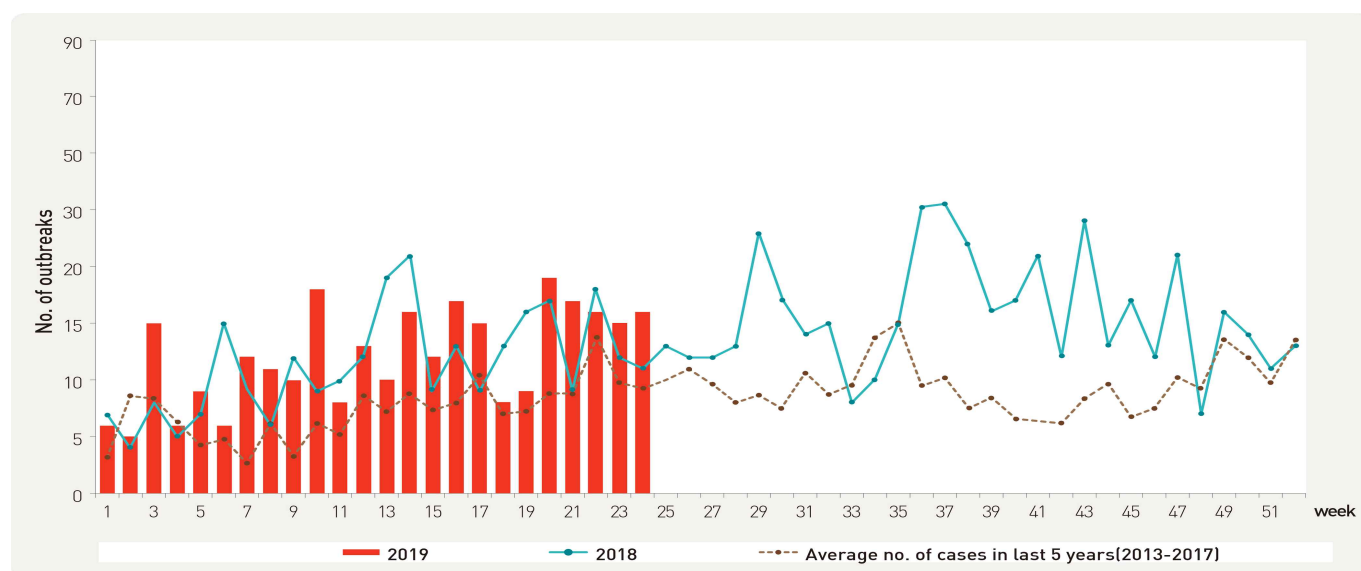


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending June 15, 2019 (24th Week)

- Weekly reported number of specimens positive for influenza: 6 cases (3.0%) / 201 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 1 case, B 5 cases]
- Variation (%p): increase from 5 cases (2.2%) / 224 specimens in 23rd week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

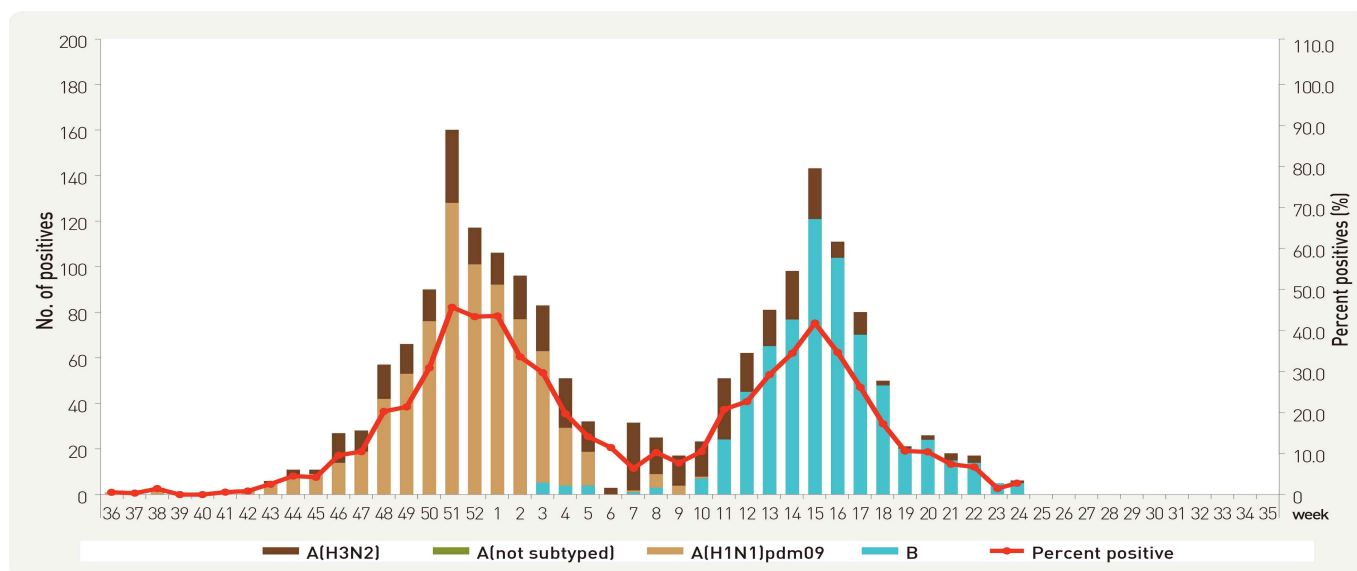


Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending June 15, 2019 (24th Week)

- Detection rate: 72.6% (cumulative mean proportion during preceding three weeks plus current week: 74.0% out of 928 specimens)
- Variation (%p): decrease from 75.4% in 23rd 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
21	243	71.2	7.0	15.2	0.0	7.4	1.6	19.8	8.2	11.9
22	260	76.2	8.1	20.0	0.4	6.5	0.0	20.4	5.0	15.8
23	224	75.4	11.6	21.9	0.4	2.2	0.9	17.4	8.0	12.9
24	201	72.6	10.0	17.4	0.0	3.0	2.0	17.4	15.9	7.0
Cum.*	928	74.0	9.1	18.6	0.2	5.0	1.1	18.9	8.9	12.2
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 May 19, 2019 – June 15, 2019 (Average no. of detected cases is 232 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 June 8, 2019 (23rd Week)

- Detection rate: 18.4% [cumulative mean proportion in 2019: 571 cases (40.8%) out of 1,400 specimens]
- Variation (%p): decrease from 28.6% in 22nd 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 20	65	13	(20.0)	5	(7.7)	2	(3.1)	2	(3.1)	0	(0.0)	22	(33.8)
21	53	11	(20.8)	5	(9.4)	1	(1.9)	0	(0.0)	0	(0.0)	17	(32.1)
22	42	10	(23.8)	1	(2.4)	1	(2.4)	0	(0.0)	0	(0.0)	12	(28.6)
23	38	5	(13.2)	0	(0.0)	0	(0.0)	0	(0.0)	2	(5.3)	7	(18.4)
Cum. 2019	1,400	405	(28.9)	109	(7.8)	19	(1.4)	27	(1.9)	11	(0.8)	571	(40.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending June 8, 2019 (23rd Week)

- Detection rate: 13.2% [cumulative mean proportion in 2019: 397 cases (10.4%) out of 3,809 specimens]
- Variation (%p): decrease from 21.0% in 22nd 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	20	179	6 (3.4)	10 (5.6)	0 (0)	0 (0)	0 (0)	3 (1.7)	3 (1.7)	6 (3.4)	0 (0)	29 (16.2)
	21	208	5 (2.4)	9 (4.3)	0 (0)	1 (0.5)	0 (0)	2 (1.0)	2 (1.0)	6 (2.9)	5 (2.4)	30 (14.4)
	22	138	8 (5.8)	8 (5.8)	0 (0)	0 (0)	0 (0)	2 (1.4)	6 (4.3)	4 (2.9)	1 (0.7)	29 (21.0)
	23	91	3 (3.3)	3 (3.3)	0 (0)	0 (0)	0 (0)	1 (1.1)	4 (4.4)	1 (1.1)	0 (0)	12 (13.2)
Cum. 2019		3,809	78 (2.0)	90 (2.4)	0 (0)	1 (0.03)	0 (0)	29 (0.8)	83 (2.2)	79 (2.1)	32 (0.8)	397 (10.4)

* 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 June 8, 2019 (23rd Week)

- Detection rate: 30.6% (11 cases / 36 specimens) [cumulative mean proportion in 2019: 19.3% (123 cases / 636 specimens)]
 - Aseptic meningitis: 4 cases (Cum. 2019: 35 cases)
 - HFMD and herpangina: 7 cases (Cum. 2019: 67 cases)
 - HFMD with complications: 0 case (Cum. 2019: 0 case)
 - Other: 0 case (Cum. 2019: 21 cases)
- Variation (%p): decrease from 32.3% in 22nd week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

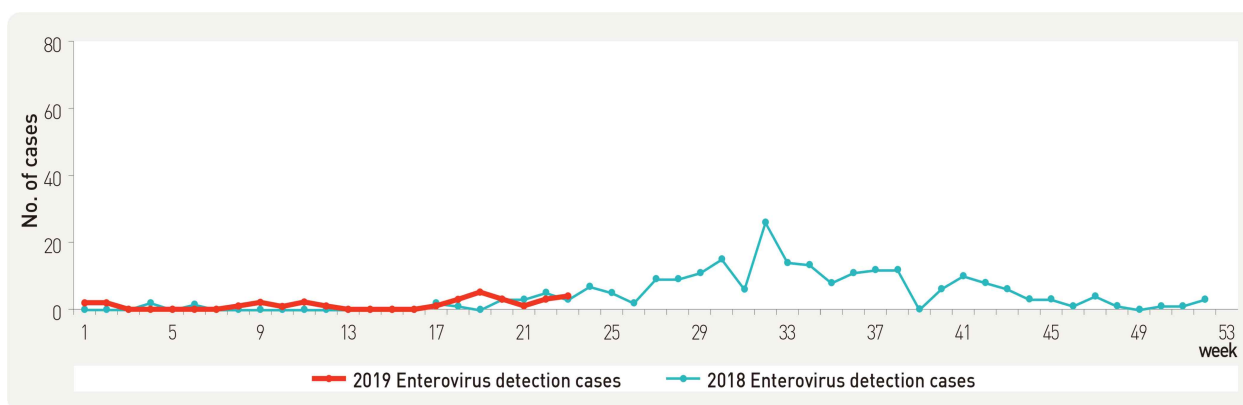


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

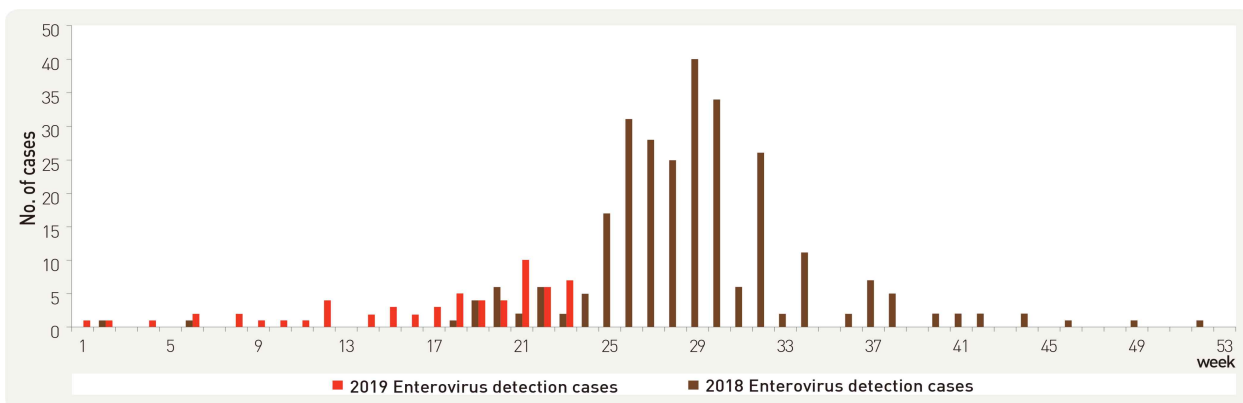


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

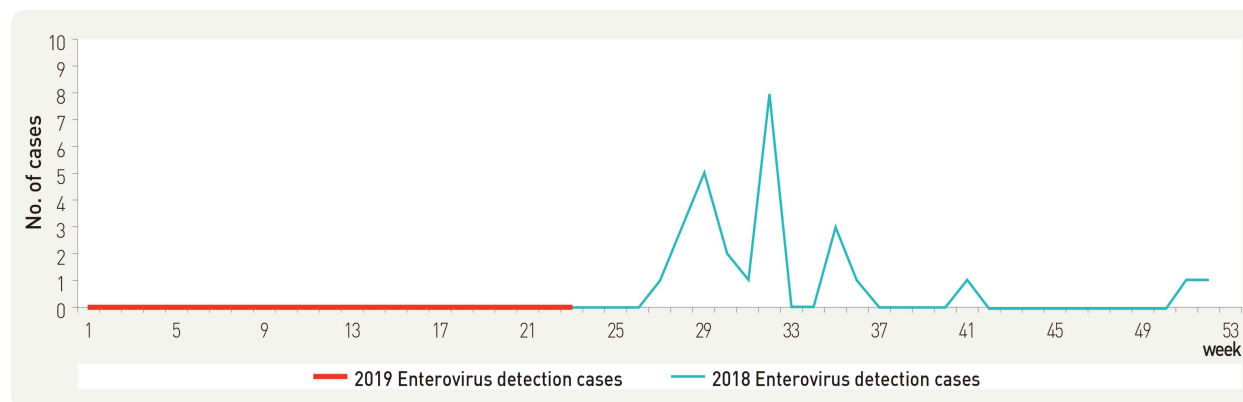


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending June 8, 2019 (23rd Week)

- No. of malaria vector mosquitoes: 1
- Variation: increase from 0 in 22nd week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

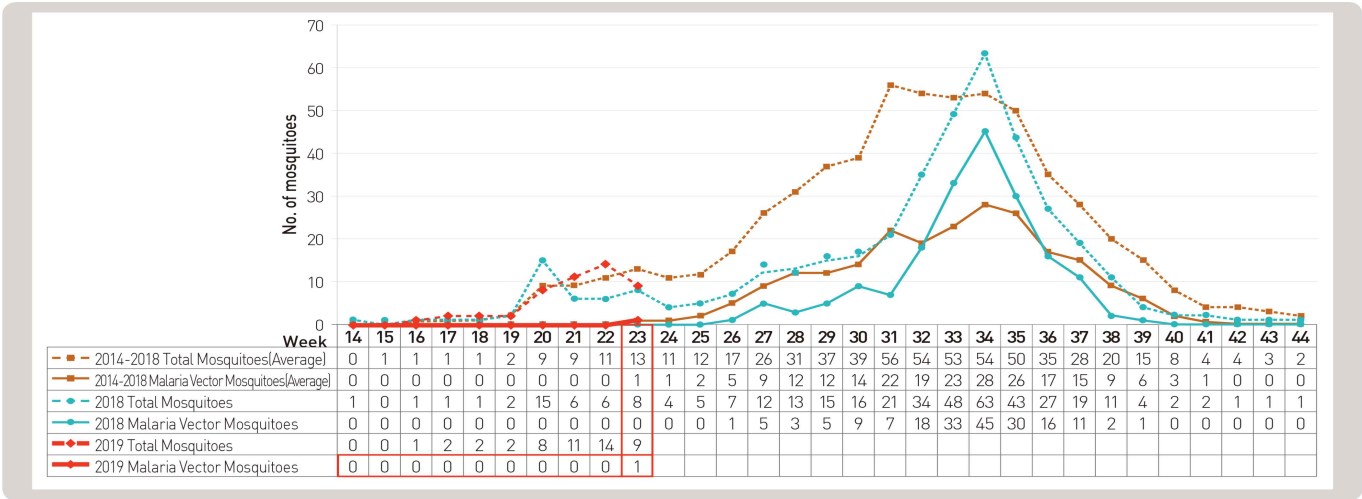


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending June 15, 2019 (24th Week)

- No. of Japanese encephalitis vector mosquitoes: 3
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 1 in 23rd 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

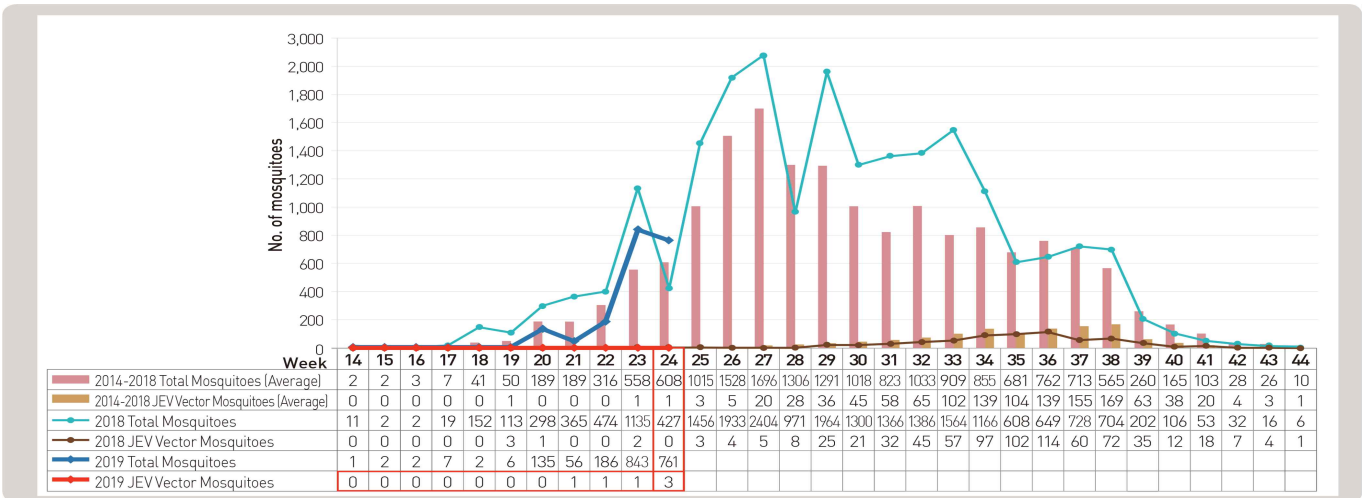


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

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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