

I. National Notifiable Infectious Diseases

1. Reported cases, week ending August 24, 2019 (34th 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	Cambodia(1)
Typhoid fever	6	93	3	213	128	121	121	251	
Paratyphoid fever	15	62	2	47	73	56	44	37	
Shigellosis	3	92	3	191	112	113	88	110	
EHEC	14	127	3	121	138	104	71	111	
Viral hepatitis A	657	13,139	42	2,437	4,419	4,679	1,804	1,307	
Category II									
Pertussis	9	311	11	980	318	129	205	88	
Tetanus	0	27	1	31	34	24	22	23	
Measles	12	357	0	15	7	18	7	442	
Mumps	295	11,502	313	19,237	16,924	17,057	23,448	25,286	
Rubella	0	15	0	0	7	11	11	11	
Viral hepatitis B (Acute)	7	247	5	392	391	359	155	173	
Japanese encephalitis	0	0	1	17	9	28	40	26	
Varicella	828	55,704	642	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>	3	344	3	670	523	441	228	36	
Category III									
Malaria	24	426	26	576	515	673	699	638	Nigeria(1), Unknown(1) China(1)
Scarlet fever [§]	138	5,437	135	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	12	0	14	17	6	6	5	
Legionellosis	11	284	3	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis	5	14	3	47	46	56	37	61	
Murine typhus	1	8	0	16	18	18	15	9	
Scrub typhus	45	682	25	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	10	66	2	118	103	117	104	58	
Brucellosis	0	2	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	6	171	6	433	531	575	384	344	
Syphilis	33	1,194	33	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	2	37	1	53	36	42	33	65	
Tuberculosis	574	16,597	594	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	23	616	24	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	202	6,563	-	10,811	6,396	-	-	-	
VRSA	0	1	-	0	0	-	-	-	
CRE	419	9,311	-	11,954	5,717	-	-	-	

1. (Continued) Reported cases, week ending August 24, 2019 (34th 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	9	151	7	159	171	313	255	165	Philippines(5), Vietnam(2), Malaysia(1), Palau(1)
Q fever	3	171	1	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	18	72	1	23	31	27	9	13	United States of America(1)
Melioidosis	0	3	0	2	2	4	4	2	
Chikungunya fever	0	11	0	3	5	10	2	1	
SFTS	5	122	5	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	5	-	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 August 24, 2019 (34th 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	93	126	15	62	32	3	92	84
Seoul	0	0	0	0	17	23	4	10	6	0	34	18
Busan	0	0	0	0	7	9	2	6	4	3	6	5
Daegu	0	0	0	0	2	4	1	3	2	0	1	5
Incheon	0	0	0	0	6	7	0	1	2	0	5	12
Gwangju	0	0	0	0	0	4	1	4	1	0	3	2
Daejeon	0	0	0	0	5	6	0	3	1	0	1	2
Ulsan	0	0	0	0	3	2	0	1	0	0	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	4	28	24	2	11	6	0	24	14
Gangwon	0	0	0	0	0	3	1	4	1	0	1	2
Chungbuk	0	0	0	0	1	3	0	3	1	0	1	2
Chungnam	0	0	0	1	7	6	0	0	1	0	1	6
Jeonbuk	0	0	0	0	3	3	0	2	2	0	1	2
Jeonnam	0	0	0	0	1	5	2	2	2	0	7	3
Gyeongbuk	0	0	0	0	4	5	0	3	1	0	1	5
Gyeongnam	0	0	0	1	9	18	1	7	2	0	4	5
Jeju	0	0	0	0	0	3	1	2	0	0	1	1

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 August 24, 2019 (34th 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	14	127	78	657	13,139	2,118	9	311	199	0	27	20
Seoul	4	35	10	105	2,462	407	2	46	25	0	2	2
Busan	1	5	3	31	382	102	0	19	20	0	2	2
Daegu	0	4	8	9	133	47	0	12	4	0	3	1
Incheon	0	11	6	25	771	175	0	15	13	0	0	1
Gwangju	1	4	12	7	114	63	0	15	9	0	2	0
Daejeon	0	1	1	109	1,872	92	0	12	3	0	2	0
Ulsan	0	4	5	5	58	23	0	6	6	0	2	0
Sejong	0	3	0	18	315	12	0	6	2	0	0	0
Gyeonggi	4	21	12	196	4,084	642	1	39	32	0	3	2
Gangwon	0	5	3	9	193	49	2	7	2	0	0	1
Chungbuk	2	6	2	38	833	59	0	6	5	0	1	0
Chungnam	0	2	2	60	1,070	138	0	4	4	0	2	1
Jeonbuk	0	3	1	21	345	99	0	8	3	0	1	1
Jeonnam	0	9	5	6	128	76	1	23	7	0	2	4
Gyeongbuk	1	7	2	7	172	50	2	31	13	0	3	3
Gyeongnam	1	4	3	6	156	71	1	54	48	0	2	2
Jeju	0	3	3	5	51	13	0	8	3	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 August 24, 2019 (34th 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	12	357	97	295	11,502	13,262	0	15	10	7	247	188
Seoul	4	47	23	33	1,474	1,301	0	1	2	2	36	32
Busan	0	18	4	19	654	970	0	0	1	0	27	12
Daegu	0	23	2	9	512	421	0	0	0	1	5	6
Incheon	1	13	11	19	557	571	0	2	0	0	11	11
Gwangju	0	2	1	12	371	927	0	0	0	0	4	4
Daejeon	0	50	4	8	362	298	0	1	1	0	11	7
Ulsan	0	3	1	7	370	424	0	0	0	0	2	6
Sejong	0	2	0	3	69	43	0	0	0	0	0	0
Gyeonggi	6	122	31	79	3,267	3,157	0	3	3	2	59	46
Gangwon	0	7	1	15	357	418	0	0	0	0	9	6
Chungbuk	0	3	2	6	306	263	0	0	0	0	11	6
Chungnam	0	5	3	20	515	499	0	0	1	1	16	9
Jeonbuk	0	11	1	15	539	1,128	0	0	0	0	10	13
Jeonnam	0	13	8	12	445	690	0	2	0	0	12	9
Gyeongbuk	0	26	5	13	589	585	0	4	2	0	18	9
Gyeongnam	0	8	0	21	921	1,392	0	1	0	0	12	11
Jeju	1	4	0	4	194	175	0	1	0	1	4	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 August 24, 2019 (34th 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	828	55,704	38,330	24	426	464	138	5,437	8,699
Seoul	0	0	0	145	6,305	4,039	4	71	60	29	910	1,093
Busan	0	0	0	43	2,770	2,397	0	8	5	8	326	656
Daegu	0	0	0	35	3,157	2,148	0	2	7	4	166	347
Incheon	0	0	0	32	2,694	1,983	5	69	71	3	271	389
Gwangju	0	0	0	19	1,988	1,146	0	4	3	10	301	382
Daejeon	0	0	0	28	1,333	1,074	0	5	2	4	220	314
Ulsan	0	0	0	20	1,555	1,205	0	1	3	2	225	373
Sejong	0	0	0	5	598	334	0	1	1	3	35	43
Gyeonggi	0	0	0	217	15,936	10,857	13	223	264	36	1,550	2,522
Gangwon	0	0	0	18	965	1,195	1	14	15	5	91	141
Chungbuk	0	0	0	27	1,123	994	0	5	4	1	96	149
Chungnam	0	0	0	24	2,201	1,463	0	6	6	3	244	391
Jeonbuk	0	0	0	37	1,939	1,730	0	2	4	5	188	309
Jeonnam	0	0	0	43	2,027	1,634	0	0	3	5	175	336
Gyeongbuk	0	0	0	51	3,724	1,833	0	4	6	5	203	471
Gyeongnam	0	0	0	70	6,413	3,186	1	8	7	13	369	684
Jeju	0	0	0	14	976	1,112	0	3	3	2	67	99

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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 August 24, 2019 (34th 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	6	11	284	83	5	14	15	1	8	8
Seoul	0	2	2	5	78	23	0	3	2	0	2	1
Busan	0	0	1	1	16	6	0	0	1	0	0	1
Daegu	0	0	1	0	9	3	0	0	0	0	0	0
Incheon	0	1	0	0	19	7	0	0	2	0	2	1
Gwangju	0	0	0	0	9	0	0	0	0	0	0	1
Daejeon	0	0	0	0	3	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	2	74	16	2	2	2	0	1	1
Gangwon	0	2	0	0	8	5	0	0	0	0	0	0
Chungbuk	0	0	0	1	10	4	0	0	0	0	0	0
Chungnam	0	1	0	0	6	3	1	1	1	0	0	1
Jeonbuk	0	0	0	0	5	1	0	0	1	0	0	0
Jeonnam	0	0	0	0	13	1	0	4	3	1	2	1
Gyeongbuk	0	0	0	1	23	6	0	0	0	0	0	0
Gyeongnam	0	1	1	0	7	3	1	3	2	0	0	1
Jeju	0	0	0	1	3	2	1	1	0	0	1	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 August 24, 2019 (34th 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	45	682	710	10	66	27	0	2	1	6	171	170
Seoul	0	26	32	0	7	1	0	2	1	0	4	8
Busan	3	21	28	0	1	1	0	0	0	1	7	5
Daegu	0	0	8	0	1	0	0	0	0	0	2	1
Incheon	2	12	13	1	6	0	0	0	0	0	2	3
Gwangju	0	7	17	0	2	1	0	0	0	0	2	2
Daejeon	2	15	17	0	1	1	0	0	0	0	1	3
Ulsan	1	17	16	0	1	0	0	0	0	0	1	1
Sejong	0	2	3	0	0	0	0	0	0	0	0	0
Gyeonggi	5	42	72	1	9	6	0	0	0	0	27	48
Gangwon	1	5	21	0	5	2	0	0	0	0	7	9
Chungbuk	2	11	14	0	1	1	0	0	0	0	7	12
Chungnam	3	79	64	3	13	3	0	0	0	1	22	18
Jeonbuk	5	78	67	1	4	2	0	0	0	0	24	13
Jeonnam	5	187	169	0	4	4	0	0	0	2	34	22
Gyeongbuk	5	27	50	4	8	2	0	0	0	2	21	15
Gyeongnam	6	136	113	0	2	3	0	0	0	0	10	9
Jeju	5	17	6	0	1	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 August 24, 2019 (34th 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	1,194	1,012	2	37	30	574	16,597	20,351	9	151	126
Seoul	6	242	211	0	7	6	103	2,929	3,823	3	40	41
Busan	4	122	62	0	3	2	43	1,149	1,455	1	7	8
Daegu	0	54	47	0	2	2	35	744	992	2	9	7
Incheon	5	96	89	0	1	1	27	899	1,057	1	11	5
Gwangju	2	30	36	0	1	0	16	405	504	0	2	2
Daejeon	0	39	29	0	1	1	13	354	467	0	3	3
Ulsan	1	16	14	0	1	0	15	342	431	0	7	2
Sejong	0	5	4	0	0	0	3	40	60	0	0	0
Gyeonggi	7	307	277	2	8	6	99	3,614	4,294	2	44	35
Gangwon	0	26	24	0	2	2	24	718	876	0	5	2
Chungbuk	2	30	23	0	0	1	12	493	619	0	5	1
Chungnam	0	43	34	0	1	2	28	773	933	0	5	3
Jeonbuk	0	32	21	0	2	1	25	628	777	0	4	2
Jeonnam	0	18	28	0	2	1	36	908	1,034	0	2	3
Gyeongbuk	2	57	39	0	4	3	35	1,249	1,449	0	1	5
Gyeongnam	3	54	47	0	2	2	50	1,120	1,341	0	5	6
Jeju	1	23	27	0	0	0	10	232	240	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 August 24, 2019 (34th 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	3	171	48	18	72	9	5	122	84	0	5	-
Seoul	0	18	3	6	24	3	0	2	3	0	1	-
Busan	0	2	1	0	2	1	0	1	1	0	1	-
Daegu	0	2	1	0	0	0	1	4	2	0	0	-
Incheon	0	6	1	2	5	1	0	3	1	0	1	-
Gwangju	0	3	2	3	5	0	0	1	0	0	0	-
Daejeon	0	4	1	0	1	0	0	2	1	0	0	-
Ulsan	0	0	2	0	0	0	0	2	1	0	0	-
Sejong	0	0	0	0	0	0	1	1	0	0	0	-
Gyeonggi	1	32	6	2	19	2	1	21	10	0	1	-
Gangwon	0	0	0	1	3	0	0	22	10	0	0	-
Chungbuk	0	25	12	0	1	0	0	0	3	0	0	-
Chungnam	0	14	7	0	4	0	0	15	9	0	0	-
Jeonbuk	0	17	1	0	0	1	1	14	3	0	0	-
Jeonnam	1	24	4	3	7	0	0	11	7	0	1	-
Gyeongbuk	1	13	3	0	0	1	0	10	14	0	0	-
Gyeongnam	0	10	4	0	0	0	0	9	10	0	0	-
Jeju	0	1	0	1	1	0	1	4	9	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 August 24, 2019 (34th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.3 cases (=0.33%)
- Variation: increase from 2.9 cases in 33rd week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2018-2019 outbreak standard: 6.3 cases (/1,000)

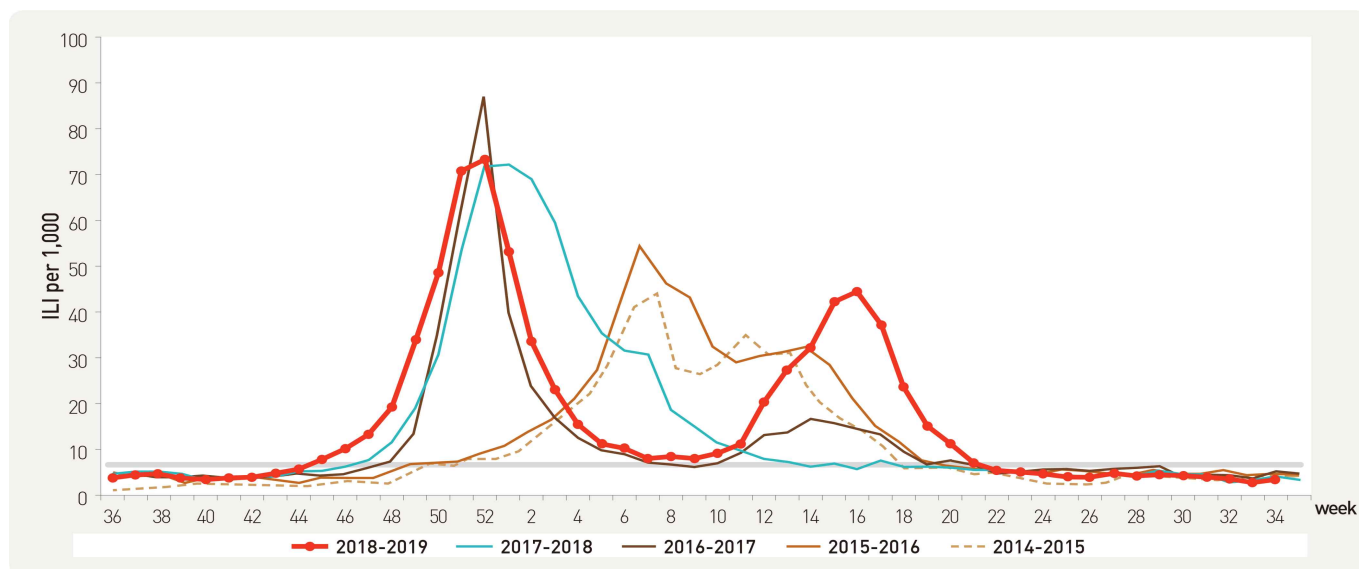


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending August 24, 2019 (34th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 27.9 cases
- Variation: decrease from 35.0 cases in 33rd week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

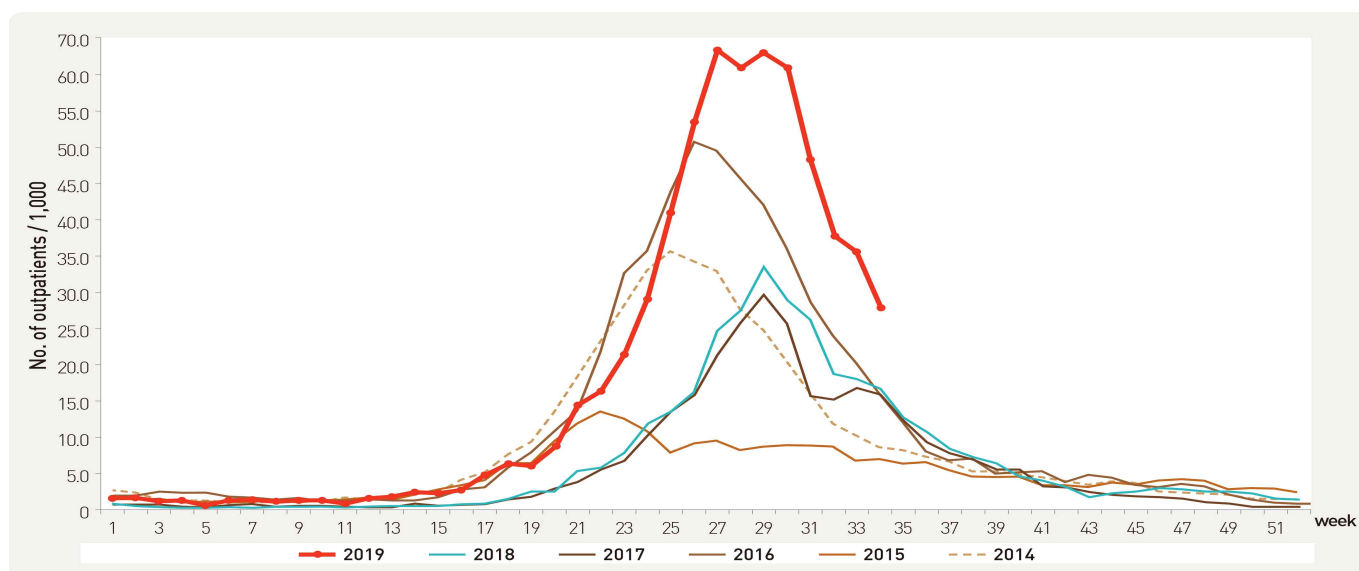


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending August 24, 2019 (34th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 23.2 cases
- Variation: increase from 16.8 cases in 33rd week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

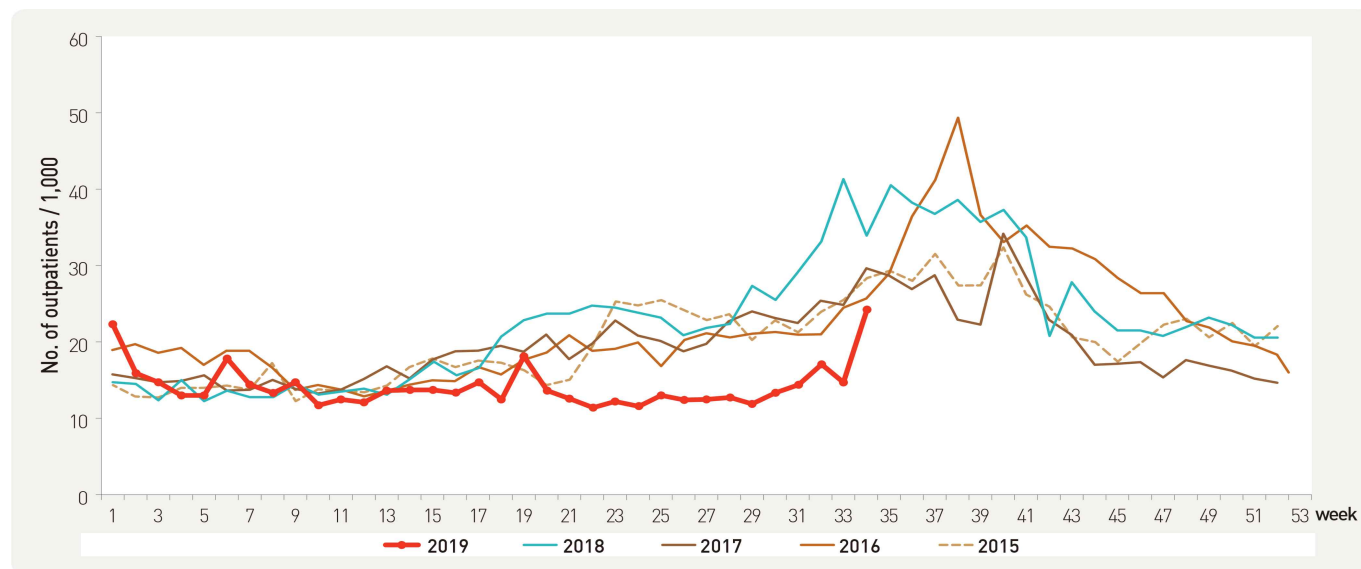


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.7 case
- Variation: decrease from 1.2 case in 33rd week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

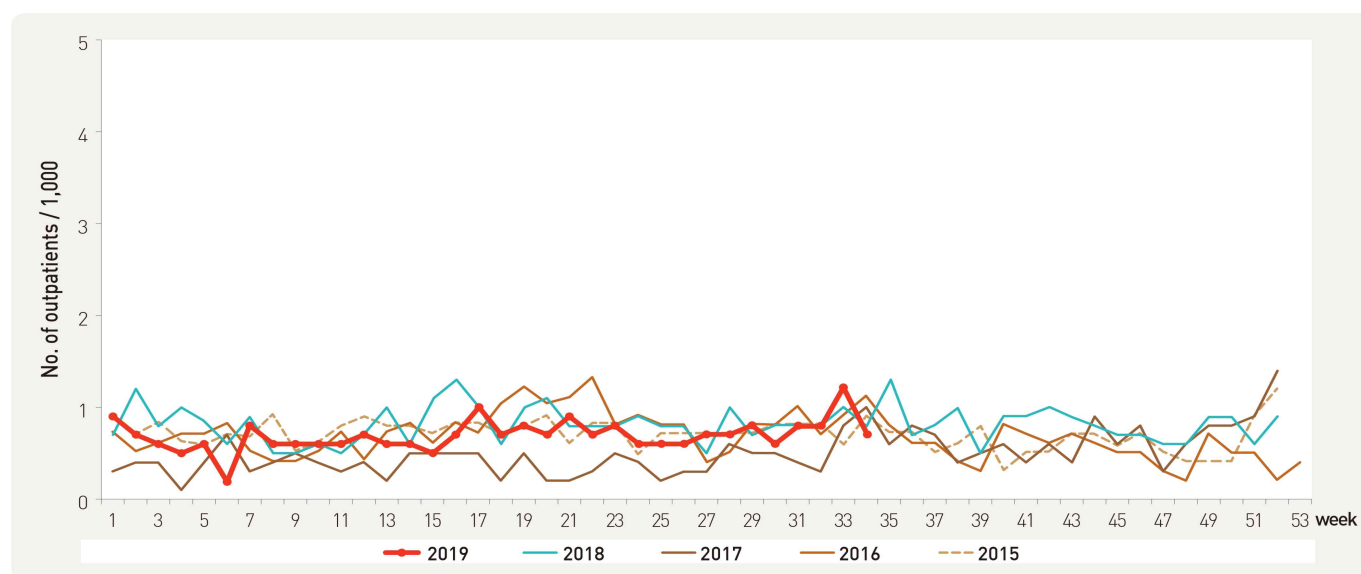


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending August 24, 2019 (34th Week)

- Cases per sentinel: 2.3 for chlamydia, 2.3 for genital herpes, 2.1 for condyloma acuminata, 1.4 for gonorrhea
- Variation from 33rd week of 2019
Increase: chlamydia (2.0 → 2.3), genital herpes (2.2 → 2.3)
No change: condyloma acuminata (2.1 → 2.1)
Decrease: gonorrhea (1.5 → 1.4)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 34th week: 16 for gonorrhea, 62 for chlamydia, 51 for genital herpes, 37 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	6.5	7.7	2.3	23.2	20.2	2.3	34.0	23.5	2.1	18.4	14.5

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 August 24, 2019 (34th Week)

- No. of reported outbreaks: 7 with 54 patients (cumulative no. of outbreaks: 428 with 5,177 patients)
- Variation: decrease from 8 in 33rd week of 2019
- Reporting sites: 254 health centers

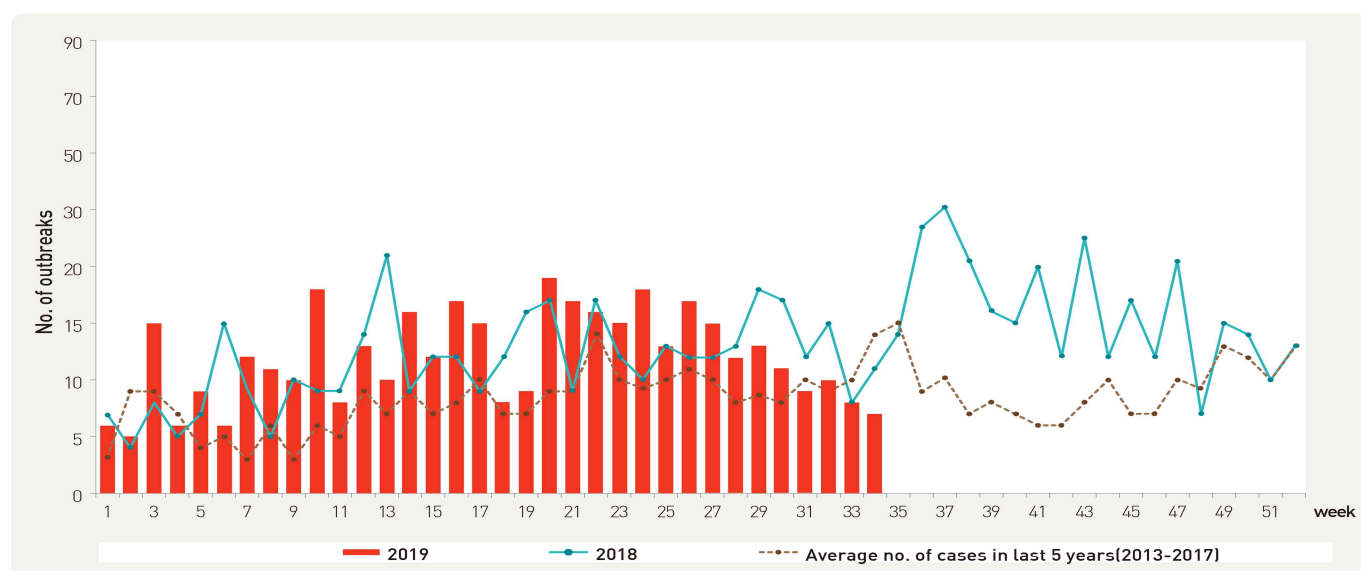


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending August 24, 2019 (34th Week)

- Weekly reported number of specimens positive for influenza: 1 case (0.6%) / 172 specimens [influenza subtype: A(H1N1)pdm09 1 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): decrease from 1 case (0.8%) / 126 specimens in 33rd week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

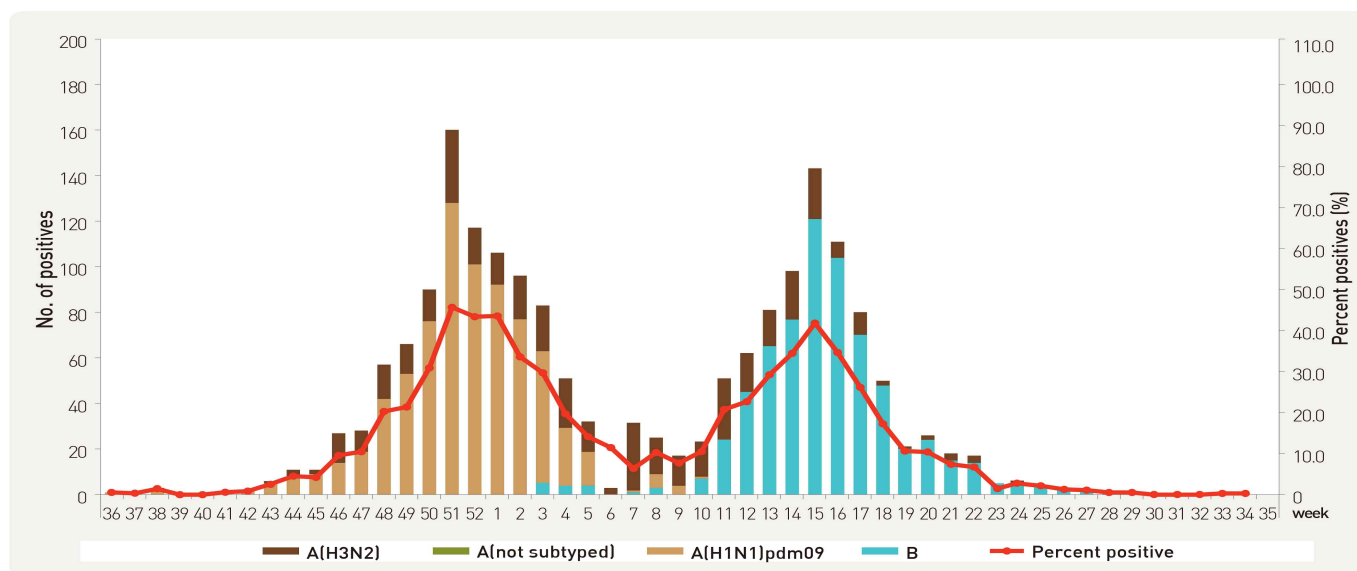


Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending August 24, 2019 (34th Week)

- Detection rate: 43.6% (cumulative mean proportion during preceding three weeks plus current week: 45.0% out of 624 specimens)
- Variation (%p): increase from 35.7% in 33rd 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
31	163	49.1	4.3	14.7	0.0	0.0	0.0	22.7	4.9	2.5
32	163	49.7	11.0	17.8	0.0	0.0	1.2	15.3	1.8	2.5
33	126	35.7	11.9	6.4	1.6	0.8	0.0	8.7	1.6	4.8
34	172	43.6	16.9	9.3	0.6	0.6	0.0	12.8	1.7	1.7
Cum.*	624	45.0	11.1	12.3	0.5	0.3	0.3	15.2	2.6	2.7
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 July 28, 2019 – August 24, 2019 (Average no. of detected cases is 156 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 August 17, 2019 (33rd Week)

- Detection rate: 5.0% [cumulative mean proportion in 2019: 649 cases (33.6%) out of 1,934 specimens]
- Variation (%p): decrease from 20.8% in 32nd 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 30	56	2	(3.6)	0	(0.0)	1	(1.8)	2	(3.6)	2	(3.6)	7	(12.5)
31	37	2	(5.4)	1	(2.7)	1	(2.7)	1	(2.7)	2	(5.4)	7	(18.9)
32	24	3	(12.5)	0	(0.0)	1	(4.2)	0	(0.0)	1	(4.2)	5	(20.8)
33	40	0	(0.0)	1	(2.5)	0	(0.0)	1	(2.5)	0	(0.0)	2	(5.0)
Cum. 2019	1,934	442	(22.9)	114	(5.9)	27	(1.4)	39	(2.0)	27	(1.4)	649	(33.6)

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

2. Acute gastroenteritis-causing bacteria, weeks ending August 17, 2019 (33rd Week)

- Detection rate: 24.8% [cumulative mean proportion in 2019: 756 cases (13.2%) out of 5,722 specimens]
- Variation (%p): decrease from 27.0% in 32nd 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	30	239	9 (3.8)	17 (7.1)	0 (0)	0 (0)	0 (0)	4 (1.7)	0 (0)	1 (0.4)	12 (5.0)	43 (18.0)
	31	152	9 (5.9)	15 (9.9)	0 (0)	0 (0)	0 (0)	4 (2.6)	1 (0.7)	4 (2.6)	2 (1.3)	35 (23.0)
	32	137	11 (8.0)	13 (9.5)	0 (0)	0 (0)	0 (0)	5 (3.6)	4 (2.9)	2 (1.5)	2 (1.5)	37 (27.0)
	33	101	5 (5.0)	12 (11.9)	0 (0)	0 (0)	0 (0)	6 (5.9)	0 (0)	2 (2.0)	0 (0)	25 (24.8)
Cum. 2019		5,722	154 (2.7)	231 (4.0)	0 (0)	1 (0.02)	0 (0)	65 (1.1)	111 (1.9)	112 (2.0)	76 (1.3)	756 (13.2)

* 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 August 17, 2019 (33rd Week)

- Detection rate: 41.8% (23 cases / 55 specimens) [cumulative mean proportion in 2019: 38.9% (513 cases / 1,318 specimens)]
 - Aseptic meningitis: 12 cases (Cum. 2019: 204 cases)
 - HFMD and herpangina: 7 cases (Cum. 2019: 214 cases)
 - HFMD with complications: 0 case (Cum. 2019: 7 cases)
 - Other: 4 cases (Cum. 2019: 88 cases)
- Variation (%p): increase from 40.0% in 32nd week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

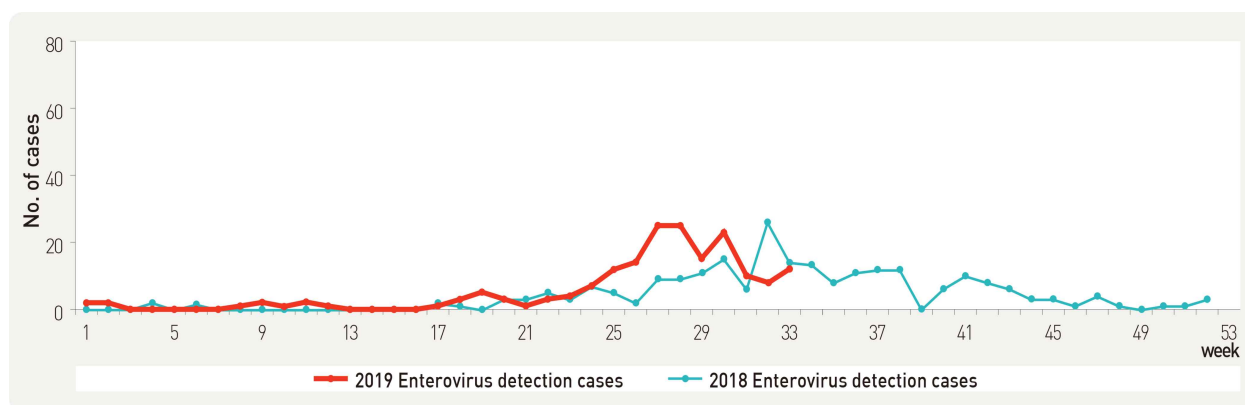


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

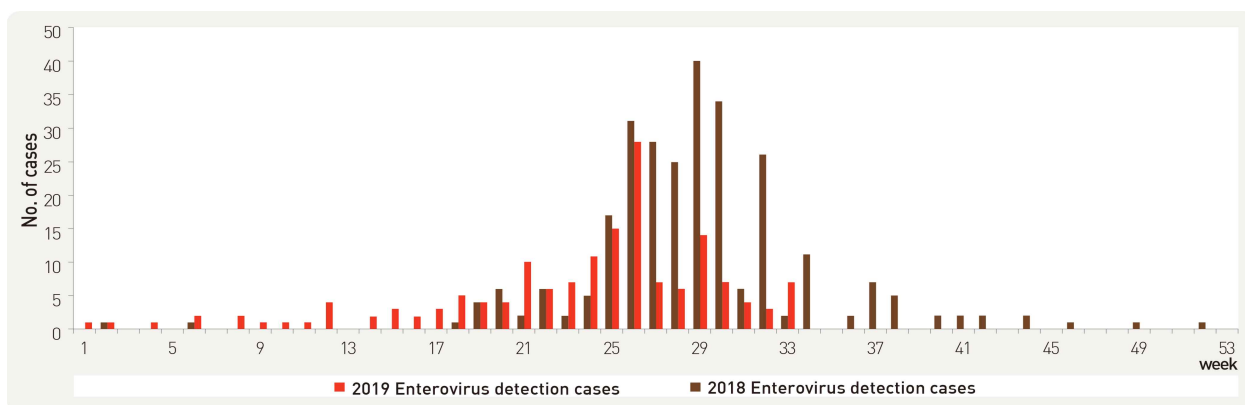


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

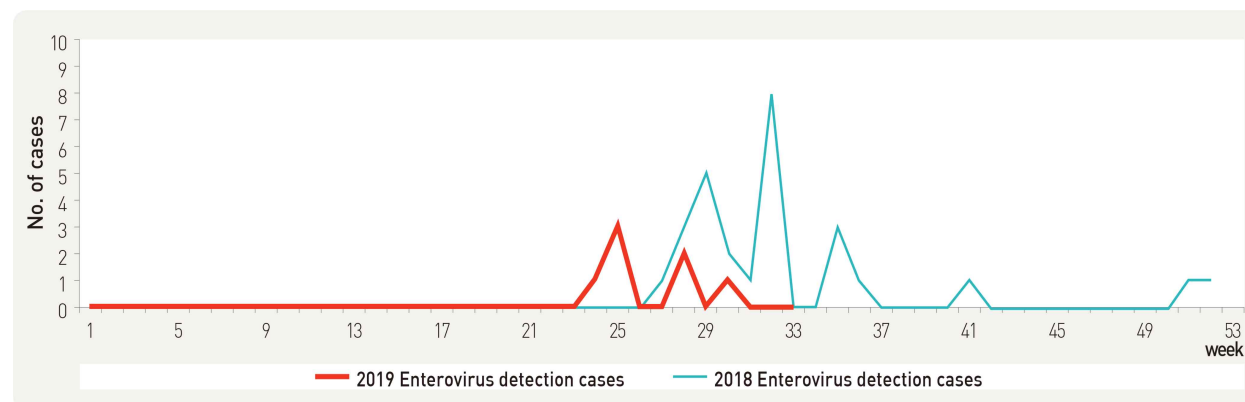


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending August 17, 2019 (33rd Week)

- No. of malaria vector mosquitoes: 6
- Variation: decrease from 8 in 32nd week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

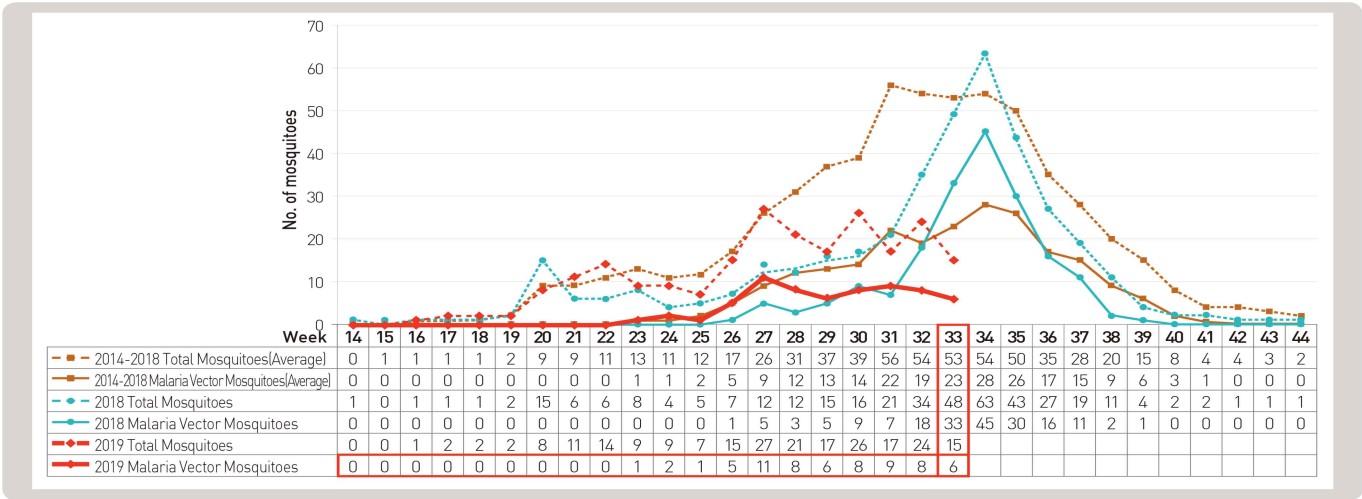


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending August 24, 2019 (34th Week)

- No. of Japanese encephalitis vector mosquitoes: 261
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 179 in 33rd 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

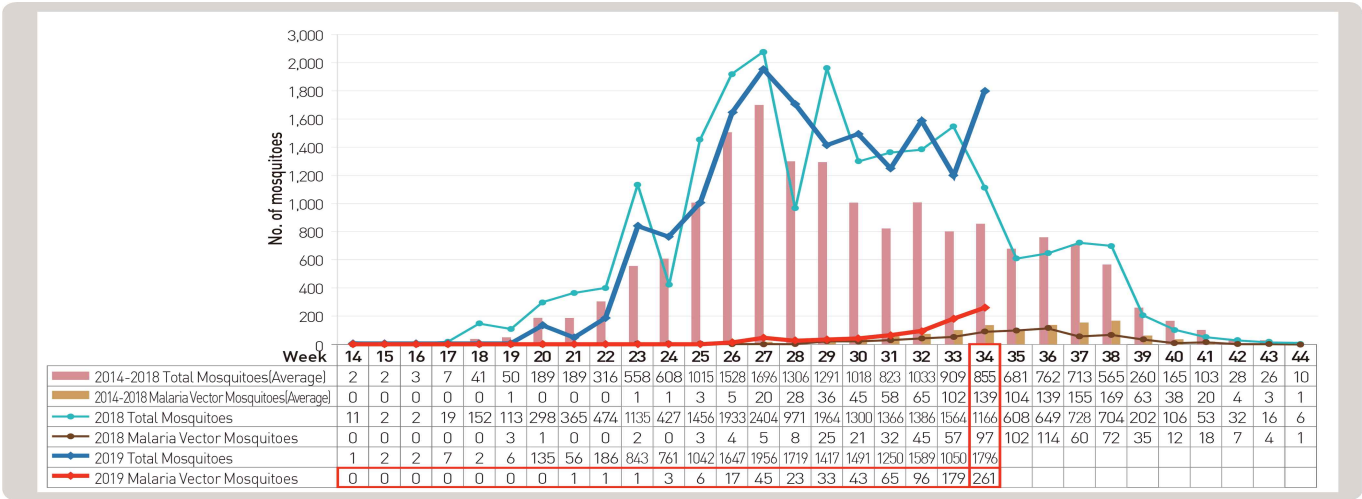


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

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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