

I. National Notifiable Infectious Diseases

1. Reported cases, week ending December 21, 2019 (51st 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	1	0	2	5	4	0	0	Philippines(4)
Typhoid fever	5	105	3	213	128	121	121	251	
Paratyphoid fever	1	60	1	47	73	56	44	37	
Shigellosis	10	153	3	191	112	113	88	110	
EHEC	5	164	1	121	138	104	71	111	
Viral hepatitis A	62	17,562	47	2,437	4,419	4,679	1,804	1,307	
Category II									
Pertussis	15	484	8	980	318	129	205	88	Philippines(2), Cambodia(1)
Tetanus	0	37	0	31	34	24	22	23	
Measles	11	288	1	15	7	18	7	442	
Mumps	269	15,861	394	19,237	16,924	17,057	23,448	25,286	
Rubella	1	13	1	0	7	11	11	11	
Viral hepatitis B (Acute)	4	374	6	392	391	359	155	173	
Japanese encephalitis	0	34	0	17	9	28	40	26	
Varicella	2,403	79,907	2,280	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>	14	508	11	670	523	441	228	36	
Category III									
Malaria	0	559	2	576	515	673	699	638	
Scarlet fever [§]	150	7,465	285	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	17	0	14	17	6	6	5	
Legionellosis	14	461	3	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis	2	42	0	47	46	56	37	61	
Murine typhus	1	23	0	16	18	18	15	9	
Scrub typhus	53	3,986	111	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	5	147	2	118	103	117	104	58	
Brucellosis	0	3	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	9	419	14	433	531	575	384	344	
Syphilis	24	1,727	30	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	4	70	1	53	36	42	33	65	
Tuberculosis	519	23,776	521	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	21	975	20	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	193	9,593	-	10,811	6,396	-	-	-	
VRSA	0	2	-	0	0	-	-	-	
CRE	280	15,040	-	11,954	5,717	-	-	-	

1. (Continued) Reported cases, week ending December 21, 2019 (51st 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	3	275	3	159	171	313	255	165	Vietnam(2), Cambodia(1)
Q fever	1	221	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	0	21	1	23	31	27	9	13	
Melioidosis	0	7	0	2	2	4	4	2	
Chikungunya fever	0	16	0	3	5	10	2	1	
SFTS	0	223	0	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 December 21, 2019 (51st 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	1	2	5	105	163	1	60	52	10	153	119
Seoul	0	1	0	0	19	28	0	12	10	6	51	26
Busan	0	0	1	1	8	10	0	5	6	0	12	7
Daegu	0	0	0	0	2	5	0	3	2	1	9	6
Incheon	0	0	0	0	7	8	0	1	3	1	9	14
Gwangju	0	0	0	0	0	6	0	3	2	0	3	3
Daejeon	0	0	0	0	7	8	0	2	2	0	4	2
Ulsan	0	0	0	0	3	3	0	1	1	0	3	1
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	2	32	33	0	13	9	1	33	20
Gangwon	0	0	0	0	0	5	0	2	2	0	1	2
Chungbuk	0	0	0	0	3	4	0	3	2	0	1	3
Chungnam	0	0	0	0	5	9	0	0	1	0	2	6
Jeonbuk	0	0	0	1	4	4	0	2	3	0	2	3
Jeonnam	0	0	0	1	3	8	1	1	3	0	9	7
Gyeongbuk	0	0	0	0	4	6	0	3	2	1	3	6
Gyeongnam	0	0	1	0	8	22	0	8	3	0	8	11
Jeju	0	0	0	0	0	3	0	1	1	0	3	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 December 21, 2019 (51st 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	5	164	110	62	17,562	2,851	15	484	342	0	37	24
Seoul	2	38	15	12	3,136	562	0	68	47	0	2	3
Busan	0	3	4	1	495	119	2	28	30	0	2	2
Daegu	1	7	9	2	190	61	0	21	10	0	6	1
Incheon	1	13	9	2	987	243	0	19	21	0	0	1
Gwangju	0	9	16	1	162	81	1	25	17	0	2	1
Daejeon	0	2	3	4	2,671	133	0	16	5	0	2	0
Ulsan	0	5	6	0	82	28	0	10	10	0	2	0
Sejong	0	3	1	1	392	18	0	6	5	0	1	0
Gyeonggi	1	32	18	21	5,392	866	6	82	54	0	6	2
Gangwon	0	5	3	3	266	68	0	6	3	0	1	1
Chungbuk	0	9	2	3	1,078	86	0	10	7	0	1	1
Chungnam	0	4	3	4	1,436	181	2	8	11	0	3	1
Jeonbuk	0	6	2	2	558	143	1	16	6	0	1	1
Jeonnam	0	13	7	2	163	88	0	34	16	0	2	4
Gyeongbuk	0	6	3	0	251	71	1	47	21	0	4	3
Gyeongnam	0	4	4	2	232	86	1	79	74	0	2	3
Jeju	0	5	5	2	71	17	1	9	5	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 December 21, 2019 (51st 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	11	288	107	269	15,861	20,034	1	13	18	4	374	287
Seoul	3	40	25	28	2,034	1,894	0	2	3	1	62	48
Busan	0	8	4	17	874	1,435	0	0	1	0	33	18
Daegu	2	22	3	12	688	629	0	0	1	0	8	10
Incheon	0	12	12	11	795	808	0	1	0	1	20	17
Gwangju	0	3	1	8	472	1,559	0	0	1	1	6	6
Daejeon	0	37	4	4	466	427	0	1	1	0	13	9
Ulsan	0	4	1	15	499	643	0	0	0	0	5	8
Sejong	0	2	0	0	90	68	0	0	0	0	0	0
Gyeonggi	2	98	34	88	4,607	4,635	1	4	6	0	87	73
Gangwon	0	7	1	8	519	635	0	0	0	0	12	9
Chungbuk	0	2	2	9	422	385	0	1	1	0	18	9
Chungnam	2	7	4	12	718	751	0	0	1	1	20	14
Jeonbuk	0	9	1	11	722	1,841	0	0	0	0	15	19
Jeonnam	1	12	9	15	614	998	0	1	0	0	18	13
Gyeongbuk	0	11	5	12	826	862	0	2	2	0	28	15
Gyeongnam	1	11	1	17	1,251	2,221	0	0	1	0	22	17
Jeju	0	3	0	2	264	243	0	1	0	0	7	2

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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 December 21, 2019 (51st 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	34	24	2,403	79,907	61,500	0	559	622	150	7,465	12,288
Seoul	0	7	9	268	9,441	7,164	0	100	87	17	1,233	1,528
Busan	0	0	1	85	3,793	3,544	0	14	8	9	418	909
Daegu	0	3	1	125	4,328	3,265	0	2	9	2	222	471
Incheon	0	1	1	103	3,703	3,320	0	87	98	14	377	560
Gwangju	0	2	1	125	2,932	2,011	0	4	4	15	396	577
Daejeon	0	1	1	93	2,002	1,745	0	5	4	6	322	444
Ulsan	0	0	0	31	1,891	1,783	0	2	4	7	304	513
Sejong	0	0	0	31	862	527	0	1	1	0	50	59
Gyeonggi	0	8	5	647	22,780	17,543	0	294	346	47	2,169	3,572
Gangwon	0	2	0	57	1,710	1,901	0	15	18	0	118	195
Chungbuk	0	1	1	86	1,965	1,517	0	7	5	3	122	229
Chungnam	0	4	1	91	2,958	2,364	0	9	9	3	322	557
Jeonbuk	0	0	0	111	3,099	2,782	0	3	5	3	234	440
Jeonnam	0	2	1	110	3,042	2,668	0	0	4	2	236	485
Gyeongbuk	0	1	1	108	5,274	2,868	0	5	8	5	328	650
Gyeongnam	0	2	1	292	8,638	4,967	0	8	9	11	508	959
Jeju	0	0	0	40	1,489	1,531	0	3	3	6	106	140

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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 December 21, 2019 (51st 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	17	9	14	461	135	2	42	50	1	23	15
Seoul	0	4	3	4	136	39	1	7	5	0	2	2
Busan	0	0	1	1	20	8	0	3	5	0	0	1
Daegu	0	0	1	0	15	4	0	0	1	0	0	0
Incheon	0	1	0	2	36	11	0	0	4	1	5	1
Gwangju	0	0	0	0	14	0	0	0	1	0	1	2
Daejeon	0	0	0	0	4	2	0	0	1	0	0	0
Ulsan	0	1	0	1	4	3	1	2	1	0	2	2
Sejong	0	1	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	6	2	0	120	30	0	10	9	0	4	2
Gangwon	0	2	0	0	11	7	0	0	0	0	0	0
Chungbuk	0	0	0	1	13	5	0	2	1	0	1	1
Chungnam	0	1	0	0	12	4	0	1	3	0	0	1
Jeonbuk	0	0	0	2	9	2	0	2	2	0	1	0
Jeonnam	0	0	0	0	17	3	0	7	7	0	2	1
Gyeongbuk	0	0	1	0	33	9	0	1	3	0	1	0
Gyeongnam	0	1	1	2	10	5	0	6	6	0	0	2
Jeju	0	0	0	1	7	3	0	1	1	0	4	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 December 21, 2019 (51st 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	53	3,986	9,168	5	147	97	0	3	5	9	419	442
Seoul	0	115	269	0	11	5	0	2	1	0	13	20
Busan	8	281	618	0	7	5	0	0	0	0	19	12
Daegu	0	66	194	0	2	1	0	0	0	0	3	3
Incheon	0	50	88	0	4	1	0	0	0	1	10	7
Gwangju	0	78	299	1	5	2	0	0	0	0	7	8
Daejeon	2	117	274	0	0	2	0	0	0	0	2	6
Ulsan	3	141	430	0	1	2	0	0	1	0	2	2
Sejong	0	11	54	0	1	0	0	0	0	0	0	3
Gyeonggi	0	288	769	1	21	17	0	0	0	0	50	100
Gangwon	0	28	79	0	8	4	0	0	0	0	16	17
Chungbuk	0	92	229	1	6	4	0	0	0	0	17	25
Chungnam	5	444	968	2	27	12	0	0	0	0	55	57
Jeonbuk	4	400	1,013	0	8	6	0	0	0	2	62	45
Jeonnam	17	663	1,524	0	15	17	0	1	0	1	76	67
Gyeongbuk	1	278	573	0	16	8	0	0	1	3	44	38
Gyeongnam	10	832	1,694	0	14	11	0	0	1	2	41	31
Jeju	3	102	93	0	1	0	0	0	1	0	2	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 December 21, 2019 (51st 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	24	1,727	1,570	4	70	47	519	23,776	29,894	3	275	209
Seoul	7	347	329	1	14	10	89	4,237	5,605	0	73	65
Busan	2	173	101	0	2	3	38	1,652	2,111	0	10	14
Daegu	2	89	70	0	2	3	20	1,050	1,458	0	16	10
Incheon	0	133	136	0	3	2	27	1,312	1,543	0	19	10
Gwangju	3	43	53	0	1	0	13	570	729	1	4	3
Daejeon	1	63	47	0	4	1	24	507	693	0	7	5
Ulsan	0	19	22	0	0	1	7	471	620	0	12	2
Sejong	0	6	6	0	0	0	3	69	86	0	0	1
Gyeonggi	4	443	434	2	22	11	101	5,231	6,330	1	84	58
Gangwon	1	46	38	0	1	2	17	1,008	1,279	0	5	3
Chungbuk	0	36	37	0	2	1	26	682	914	0	7	3
Chungnam	2	63	51	0	1	3	23	1,105	1,385	0	7	6
Jeonbuk	1	52	34	0	4	1	24	934	1,139	0	10	4
Jeonnam	0	35	39	0	4	1	38	1,300	1,521	0	2	4
Gyeongbuk	0	72	64	1	5	4	35	1,785	2,135	0	3	8
Gyeongnam	1	80	71	0	5	4	28	1,541	1,990	1	11	11
Jeju	0	27	38	0	0	0	6	322	355	0	5	2

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 December 21, 2019 (51st 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	221	72	0	21	21	0	223	181	0	10	-
Seoul	0	20	6	0	9	6	0	9	11	0	3	-
Busan	0	2	2	0	0	1	0	1	2	0	1	-
Daegu	0	5	1	0	0	1	0	7	5	0	0	-
Incheon	0	7	1	0	1	2	0	3	3	0	2	-
Gwangju	0	8	3	0	0	0	0	1	1	0	0	-
Daejeon	0	7	2	0	0	1	0	4	3	0	1	-
Ulsan	0	1	2	0	0	0	0	8	3	0	0	-
Sejong	0	1	0	0	0	0	0	4	1	0	0	-
Gyeonggi	0	35	8	0	6	4	0	42	30	0	2	-
Gangwon	0	0	0	0	0	1	0	30	25	0	0	-
Chungbuk	1	39	17	0	0	0	0	3	9	0	0	-
Chungnam	0	21	10	0	1	1	0	24	14	0	0	-
Jeonbuk	0	19	3	0	0	1	0	18	6	0	0	-
Jeonnam	0	30	7	0	2	0	0	16	11	0	1	-
Gyeongbuk	0	16	3	0	0	2	0	25	29	0	0	-
Gyeongnam	0	10	7	0	2	1	0	19	16	0	0	-
Jeju	0	0	0	0	0	0	0	9	12	0	0	-

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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending December 21, 2019 (51st Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 37.8 cases (=3.78%)
- Variation: increase from 28.5 cases in 50th week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

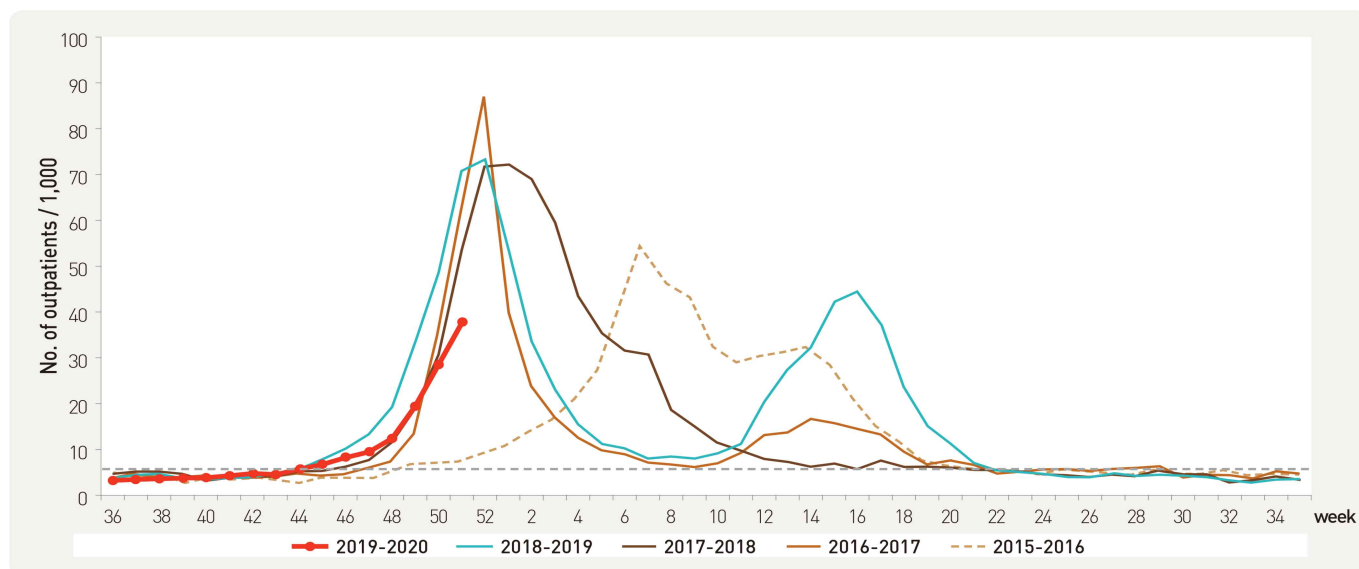


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending December 21, 2019 (51st Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 1.1 cases
- Variation: decrease from 2.1 cases in 50th week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

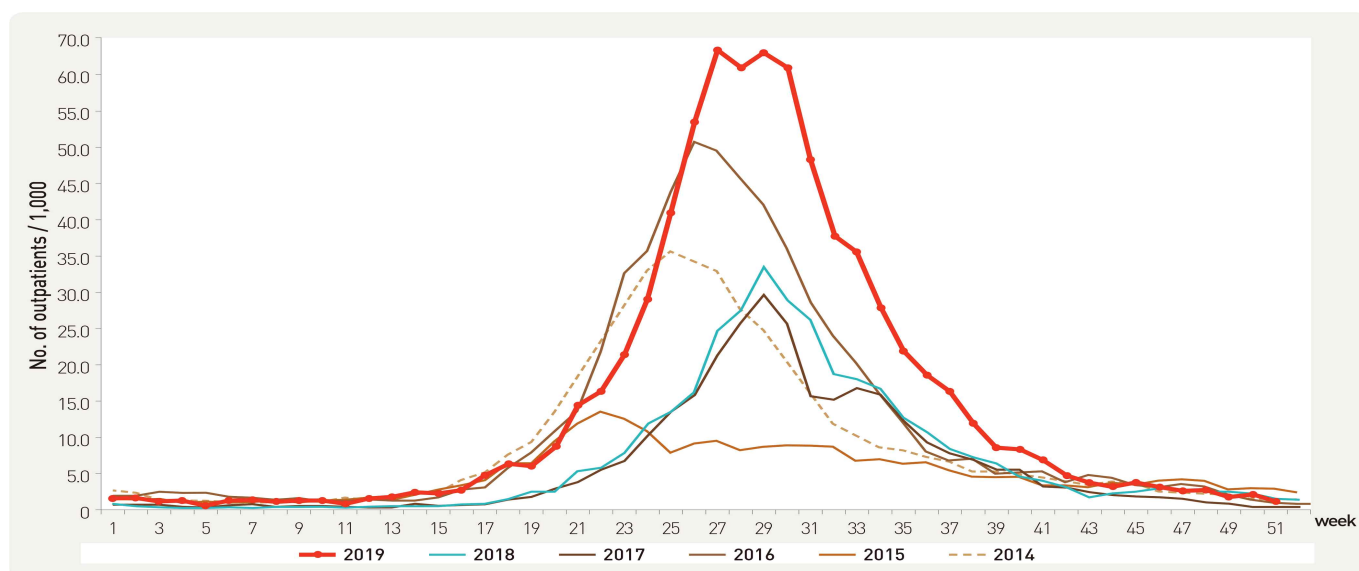


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending December 21, 2019 (51st Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 9.3 cases
- Variation: decrease from 14.1 cases in 50th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

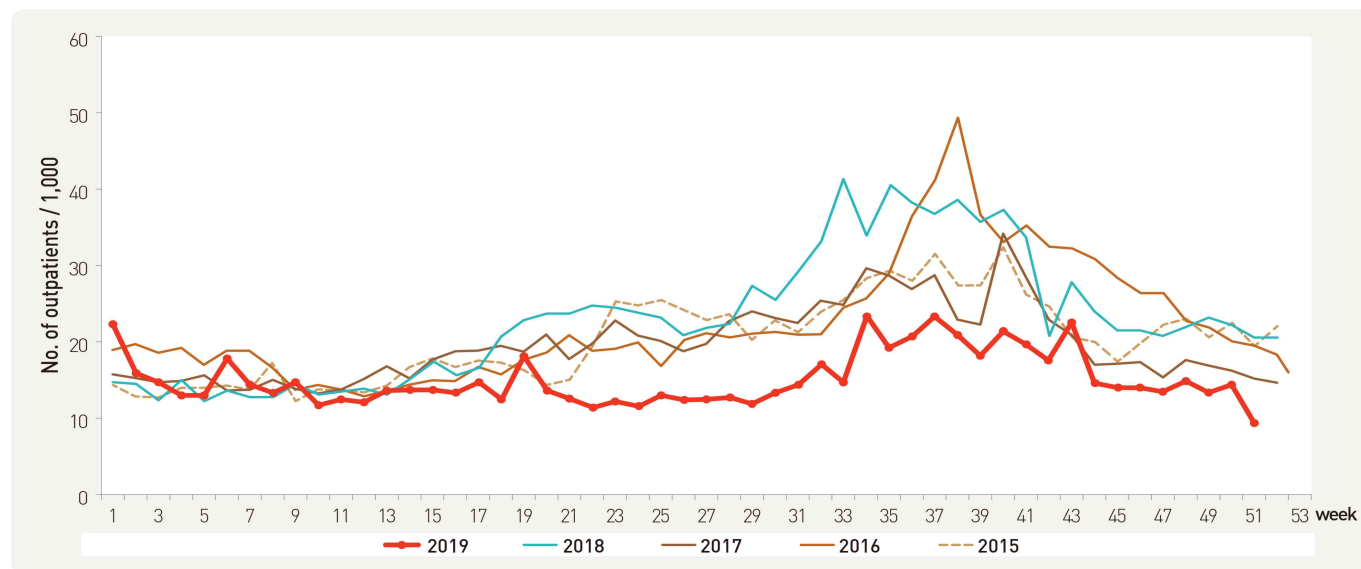


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.2 case
- Variation: decrease from 0.3 case in 50th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

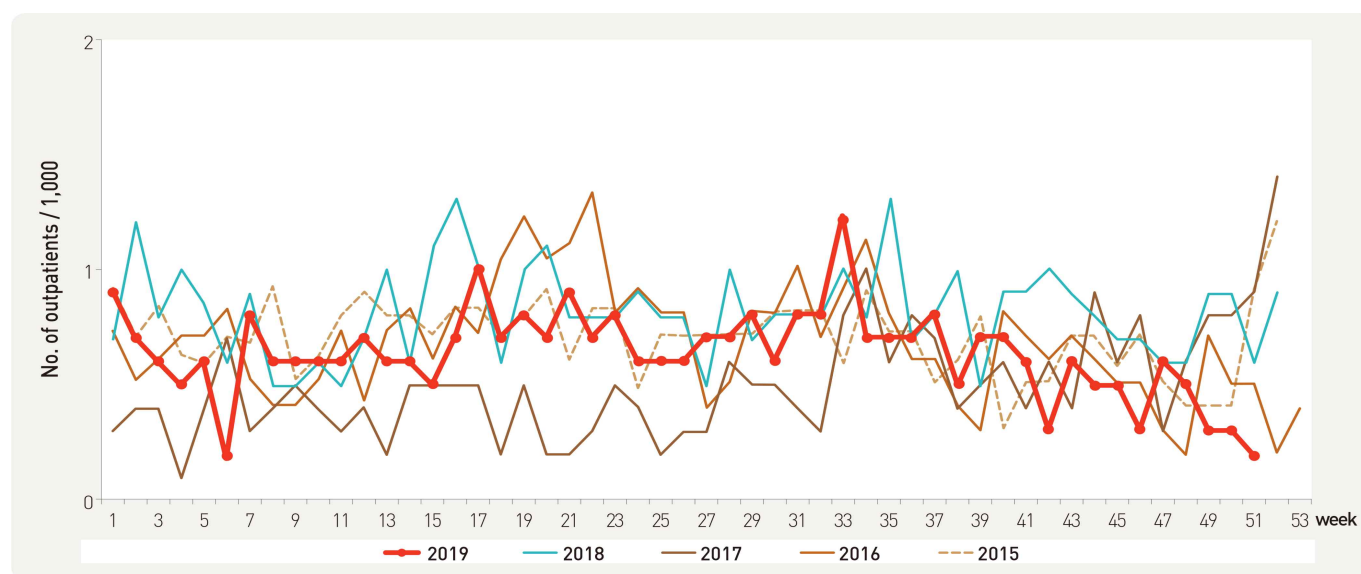


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending December 21, 2019 (51st Week)

- Cases per sentinel: 3.7 for genital herpes, 3.6 for condyloma acuminata, 3.3 for chlamydia, 3.1 for gonorrhea
- Variation from 50th week of 2019
Increase: gonorrhea (1.8 → 3.1), chlamydia (2.0 → 3.3), genital herpes (2.0 → 3.7), condyloma acuminata (2.0 → 3.6)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 51st week: 14 for gonorrhea, 59 for chlamydia, 53 for genital herpes, 32 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 [§]
3.1	9.1	10.1	3.3	34.5	28.4	3.7	49.1	32.6	3.6	26.0	19.9

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 December 21, 2019 (51st Week)

- No. of reported outbreaks: 15 with 154 patients (cumulative no. of outbreaks: 591 with 6,974 patients)
- Variation: increase from 6 in 50th week of 2019
- Reporting sites: 254 health centers

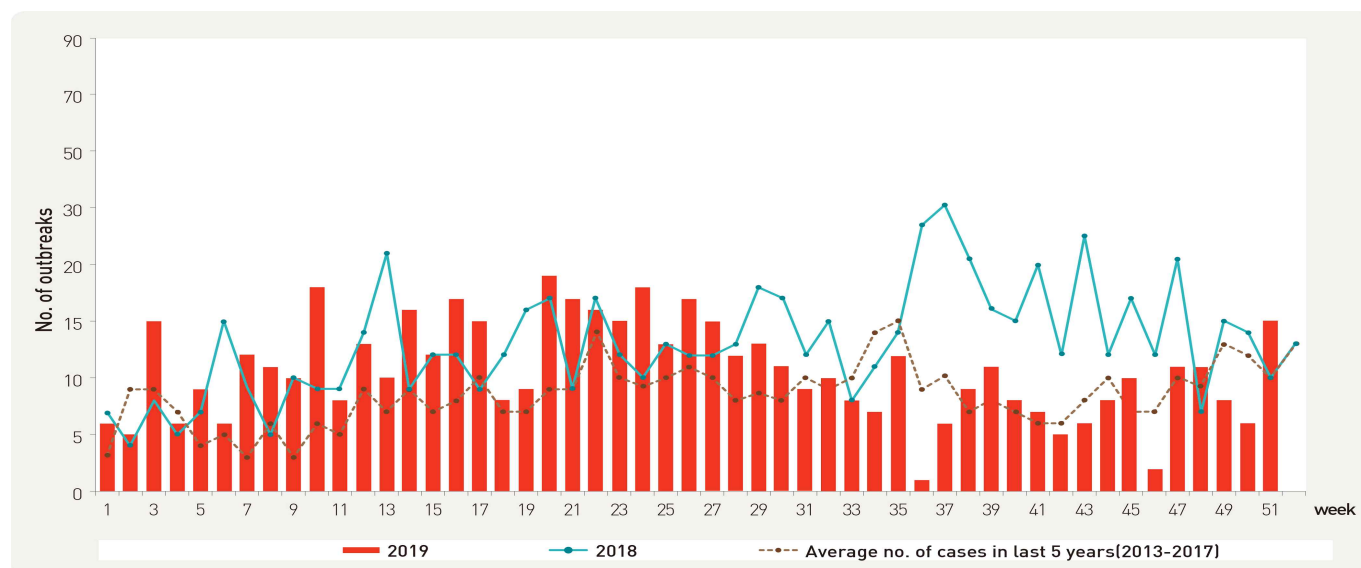


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending December 21, 2019 (51st Week)

- Weekly reported number of specimens positive for influenza: 83 cases (25.9%) / 321 specimens [influenza subtype: A(H1N1)pdm09 53 cases, A(H3N2) 27 cases, B 3 cases]
- Variation (%p): Increase from 50 cases (16.2%) / 308 specimens in 50th week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

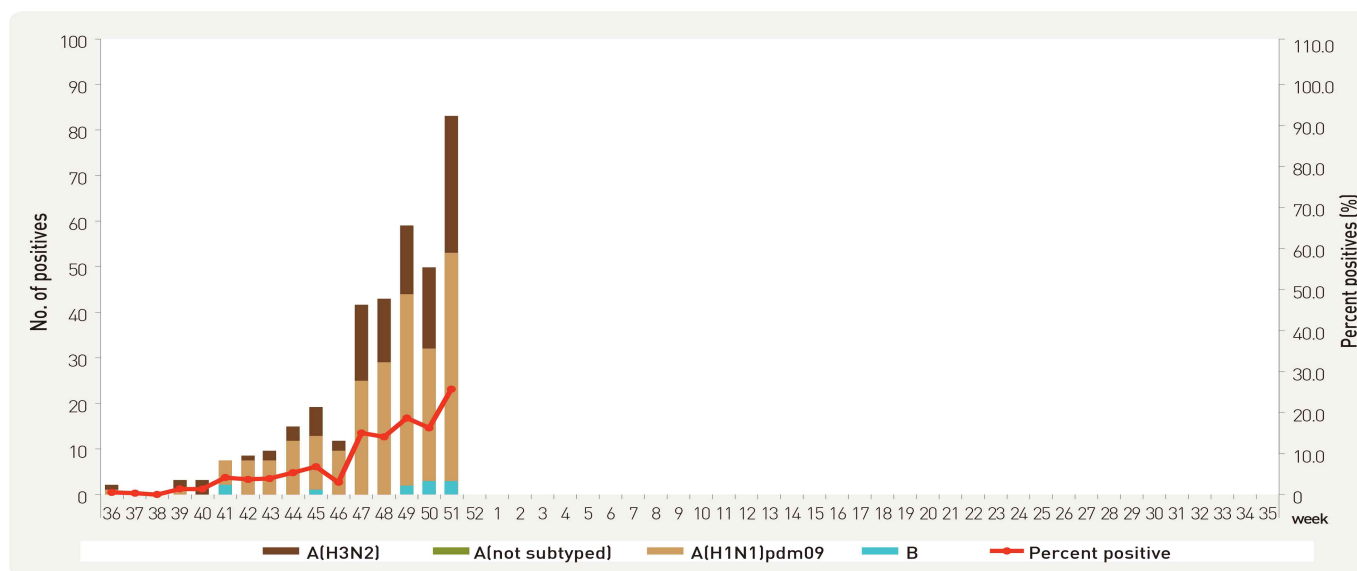


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending December 21, 2019 (51st Week)

- Detection rate: 68.2% (cumulative mean proportion during preceding three weeks plus current week: 63.9% out of 1,256 specimens)
- Variation (%p): increase from 66.6% in 50th 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
48	309	56.3	9.1	2.3	10.4	13.9	3.6	15.2	0.6	1.3
49	318	64.2	11.9	1.6	9.7	18.6	4.4	15.4	1.9	0.6
50	308	66.6	9.1	1.6	15.3	16.2	8.1	14.0	1.0	1.3
51	321	68.2	7.8	2.5	11.2	25.9	9.7	7.8	0.9	2.5
Cum.*	1,256	63.9	9.5	2.0	11.6	18.7	6.4	13.1	1.1	1.4
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 November 24, 2019 – December 21, 2019 (Average no. of detected cases is 314 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 December 14, 2019 (50th Week)

- Detection rate: 42.5% [cumulative mean proportion in 2019: 752 cases (28.5%) out of 2,636 specimens]
- Variation (%p): increase from 20.0% in 49th 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 47	22	1	(4.5)	1	(4.5)	0	(0.0)	2	(9.1)	0	(0.0)	4	(18.2)
48	30	1	(3.3)	2	(6.7)	1	(3.3)	1	(3.3)	1	(3.3)	6	(20.0)
49	35	5	(14.3)	1	(2.9)	0	(0.0)	1	(2.9)	0	(0.0)	7	(20.0)
50	40	14	(35.0)	1	(2.5)	1	(2.5)	1	(2.5)	0	(0.0)	17	(42.5)
Cum. 2019	2,636	480	(18.2)	130	(4.9)	41	(1.6)	56	(2.1)	45	(1.7)	752	(28.5)

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

2. Acute gastroenteritis-causing bacteria, weeks ending December 14, 2019 (50th Week)

- Detection rate: 10.3% [cumulative mean proportion in 2019: 1,265 cases (15.5%) out of 8,172 specimens]
- Variation (%p): decrease from 11.8% in 49th 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.parahaemolyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C.perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2019	47	127	4 (3.1)	8 (6.3)	0 (0)	1 (0.8)	0 (0)	1 (0.8)	6 (4.7)	8 (6.3)	0 (0)	28 (22.0)
	48	130	3 (2.3)	2 (1.5)	0 (0)	1 (0.8)	0 (0)	0 (0)	5 (3.8)	4 (3.1)	0 (0)	15 (11.5)
	49	144	1 (0.7)	5 (3.5)	0 (0)	0 (0)	0 (0)	2 (1.4)	3 (2.1)	4 (2.8)	1 (0.7)	17 (11.8)
	50	87	1 (1.1)	0 (0)	0 (0)	0 (0)	0 (0)	4 (4.6)	1 (1.1)	3 (3.4)	0 (0)	9 (10.3)
Cum. 2019		8,172	259 (3.2)	420 (5.1)	1 (0.01)	7 (0.08)	0 (0)	113 (1.4)	173 (2.1)	166 (2.0)	116 (1.4)	1,265 (15.5)

* 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 December 14, 2019 (50th Week)

- Detection rate: 21.1% (4 cases / 19 specimens) [cumulative mean proportion in 2019: 37.7% (671 cases / 1,782 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2019: 256 cases)
 - HFMD and herpangina: 0 case (Cum. 2019: 247 cases)
 - HFMD with complications: 0 case (Cum. 2019: 14 cases)
 - Other: 4 cases (Cum. 2019: 154 cases)
- Variation (%p): decrease from 40.0% in 49th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

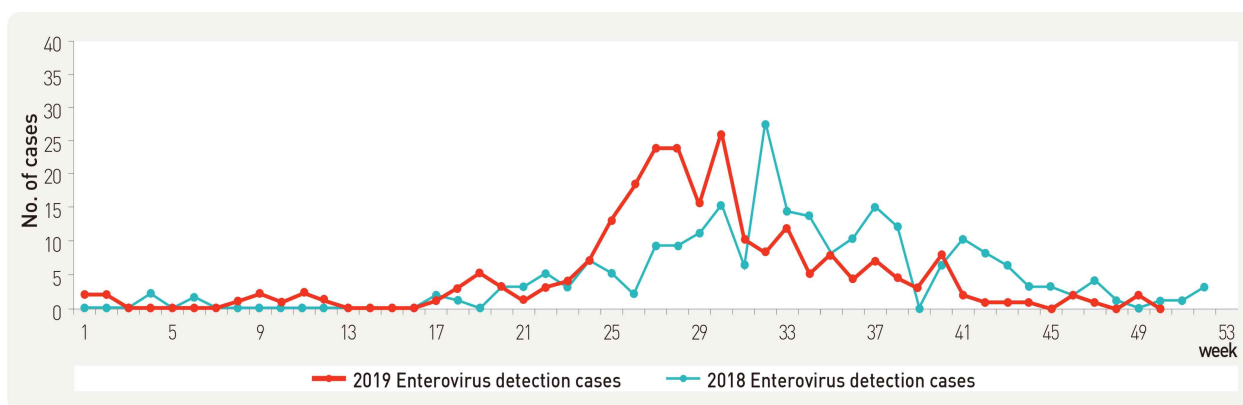


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2018 to 2019

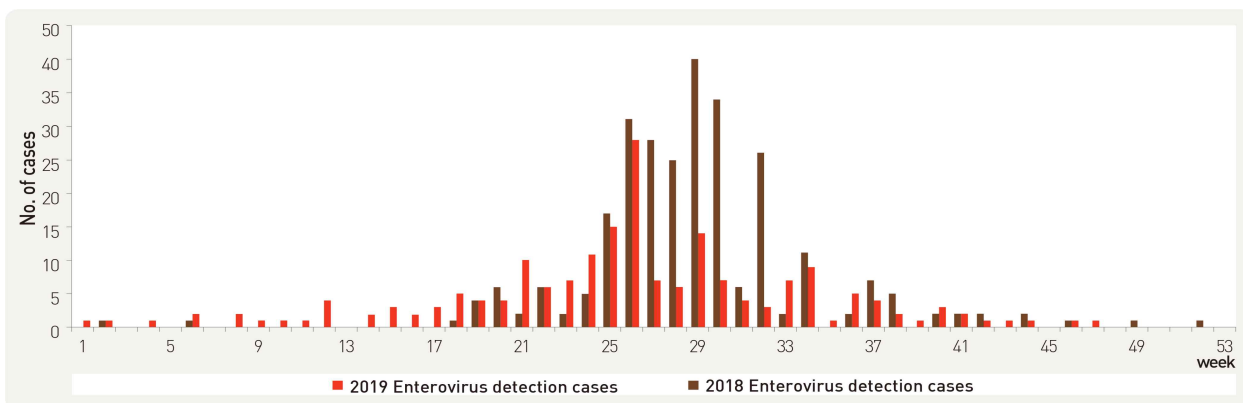


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2018 to 2019

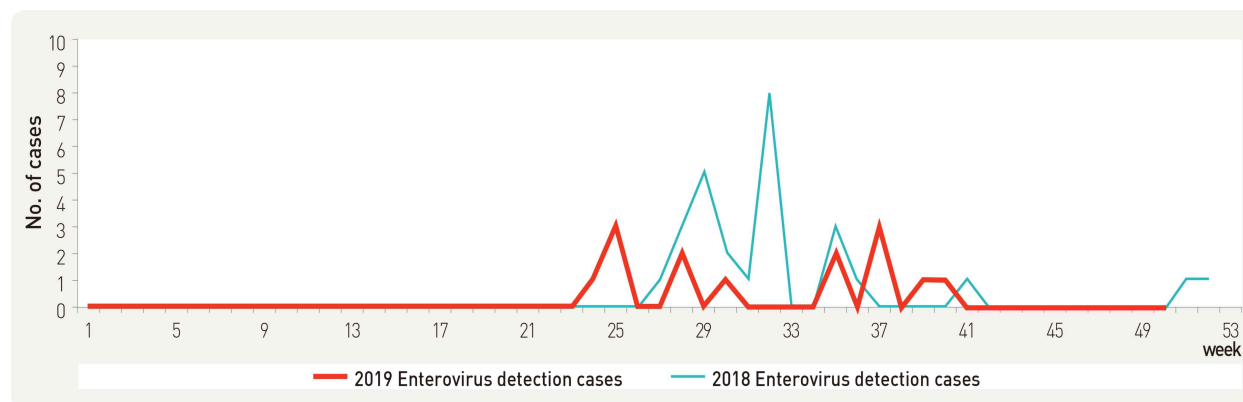


Figure 9. Detection of enterovirus in HFMD with complications patients from 2018 to 2019

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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