

I. National Notifiable Infectious Diseases

1. Reported cases, week ending February 22, 2020 (8th Week)*

Unit: no. of cases†

Classification of disease [†]	Current week	Cum. 2020	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2019	2018	2017	2016	2015	
Category II									
Tuberculosis	473	3,762	503	24,188	26,433	28,161	30,892	32,181	Myanmar(2)
Varicella	890	12,336	934	82,828	96,467	80,092	54,060	46,330	
Measles	2	14	1	194	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	3	18	4	99	213	128	121	121	
Paratyphoid fever	1	8	1	60	47	73	56	44	
Shigellosis	1	15	2	156	191	112	113	88	
EHEC	2	11	1	162	121	138	104	71	
Viral hepatitis A	62	506	93	17,635	2,437	4,419	4,679	1,804	
Pertussis	7	78	5	503	980	318	129	205	
Mumps	267	1,774	248	15,963	19,237	16,924	17,057	23,448	
Rubella	0	6	0	8	0	7	11	11	
Meningococcal disease	0	3	0	16	14	17	6	6	
Pneumococcal disease	11	121	11	525	670	523	441	228	
Hansen's disease	0	2	0	3					
Scarlet fever	120	1,040	235	7,568	15,777	22,838	11,911	7,002	
VRSA	0	0	-	3	0	0	-	-	
CRE	185	2,126	-	15,116	11,954	5,717	-	-	
Category III									
Tetanus	1	4	0	33	31	34	24	22	Philippines(2)
Viral hepatitis B	6	61	6	389	392	391	359	155	
Japanese encephalitis	0	0	0	35	17	9	28	40	
Viral hepatitis C	243	2,116	118	9,809	10,811	6,396	-	-	
Malaria	2	15	1	559	576	515	673	699	
Legionellosis	6	69	3	471	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	1	0	39	47	46	56	37	
Murine typhus	2	4	0	14	16	18	18	15	
Scrub typhus	4	90	9	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	2	13	1	139	118	103	117	104	
Brucellosis	1	5	0	1	5	6	4	5	
HFRS	3	29	3	399	433	531	575	384	
HIV/AIDS	18	107	15	996	989	1,008	1,060	1,018	
CJD	2	14	1	54	53	36	42	33	
Dengue fever	2	35	4	273	159	171	313	255	
Q fever	2	13	2	173	163	96	81	27	
Lyme Borreliosis	0	0	0	23	23	31	27	9	
Melioidosis	0	0	0	8	2	2	4	4	
Chikungunya fever	0	0	0	16	3	5	10	2	
SFTS	0	0	0	223	259	272	165	79	
Zika virus infection	0	0	-	3	3	11	16	-	

Abbreviation: EHEC= Enterohemorrhagic *Escherichia coli*; VRSA= Vancomycin-resistant *Staphylococcus aureus*; CRE= Carbapenem-resistant Enterobacteriaceae; HFRS= Hemorrhagic fever with renal syndrome; CJD= Creutzfeldt-Jacob Disease; SFTS= Severe fever with thrombocytopenia syndrome.

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

* The reported data for year 2019, 2020 are provisional but the data from 2014 to 2018 are finalized data.

† 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 no incidence data such as Ebola virus disease, Marburg Hemorrhagic fever, Lassa fever, Crimean Congo Hemorrhagic fever, South American Hemorrhagic fever, Rift Valley fever, Smallpox, Plague, Anthrax, Botulism, Tularemia, Newly emerging infectious disease syndrome, Severe Acute Respiratory Syndrome, Middle East Respiratory Syndrome, Human infection with zoonotic influenza, Novel Influenza, Diphtheria, Poliomyelitis, *Haemophilus influenzae* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending February 22, 2020 (8th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Tuberculosis			Varicella			Measles			Cholera		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	473	3,762	4,167	890	12,336	10,816	2	14	19	0	0	0
Seoul	69	655	764	107	1,307	1,215	0	5	2	0	0	0
Busan	24	259	309	51	589	613	0	0	1	0	0	0
Daegu	18	180	200	53	661	560	0	0	3	0	0	0
Incheon	23	207	219	49	565	582	0	0	1	0	0	0
Gwangju	13	85	108	38	650	402	0	0	0	0	0	0
Daejeon	11	81	95	23	410	284	0	1	1	0	0	0
Ulsan	8	77	80	7	172	307	0	0	0	0	0	0
Sejong	2	10	12	11	81	3,032	0	0	8	0	0	0
Gyeonggi	121	817	889	207	3,258	301	2	6	0	0	0	0
Gangwon	26	163	174	19	390	238	0	0	0	0	0	0
Chungbuk	14	120	132	52	505	423	0	0	0	0	0	0
Chungnam	23	194	190	33	401	458	0	0	1	0	0	0
Jeonbuk	20	144	167	39	475	527	0	0	1	0	0	0
Jeonnam	27	194	207	22	425	517	0	1	0	0	0	0
Gyeongbuk	34	266	303	46	743	962	0	0	0	0	0	0
Gyeongnam	35	260	269	101	1,415	304	0	1	1	0	0	0
Jeju	5	50	50	32	289	91	0	0	0	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 February 22, 2020 (8th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Typhoid fever			Paratyphoid fever			Shigellosis			Enterohemorrhagic <i>Escherichia coli</i>		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	3	18	27	1	8	3	1	15	26	2	11	3
Seoul	0	3	5	0	1	1	0	2	6	0	3	1
Busan	0	0	2	0	0	0	0	3	2	0	1	0
Daegu	0	0	1	0	1	0	0	0	3	0	1	1
Incheon	0	3	3	0	0	0	0	1	2	0	0	0
Gwangju	0	1	0	0	1	0	0	1	1	0	0	0
Daejeon	0	0	1	0	0	0	0	0	0	0	0	0
Ulsan	0	1	1	0	0	0	0	0	0	0	0	0
Sejong	0	0	6	0	0	1	0	0	6	0	0	1
Gyeonggi	1	5	1	1	2	0	1	4	0	1	2	0
Gangwon	0	0	1	0	1	0	0	0	0	0	0	0
Chungbuk	0	0	1	0	0	0	0	0	1	0	0	0
Chungnam	1	1	0	0	0	1	0	1	0	0	1	0
Jeonbuk	1	1	2	0	0	0	0	0	2	0	1	0
Jeonnam	0	1	1	0	1	0	0	1	2	1	1	0
Gyeongbuk	0	0	2	0	1	0	0	1	1	0	0	0
Gyeongnam	0	2	0	0	0	0	0	1	0	0	1	0
Jeju	0	0	0	0	0	0	0	0	0	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 February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category II											
	Viral hepatitis A			Pertussis			Mumps			Rubella		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	62	506	560	7	78	52	267	1,774	2,187	0	6	0
Seoul	14	100	96	1	9	11	22	202	197	0	1	0
Busan	3	13	14	0	5	3	15	94	154	0	0	0
Daegu	1	13	12	0	5	2	15	63	64	0	0	0
Incheon	10	55	37	1	4	5	24	114	76	0	1	0
Gwangju	1	7	9	1	6	2	19	50	167	0	0	0
Daejeon	1	19	54	0	4	1	8	57	46	0	0	0
Ulsan	0	9	5	0	1	1	10	48	76	0	0	0
Sejong	0	5	172	0	0	7	0	11	526	0	0	0
Gyeonggi	20	159	14	0	13	1	61	511	75	0	3	0
Gangwon	0	9	22	0	0	1	12	72	50	0	0	0
Chungbuk	3	21	44	0	0	2	7	60	85	0	0	0
Chungnam	4	29	30	0	4	2	13	86	207	0	1	0
Jeonbuk	0	25	12	0	0	3	11	76	109	0	0	0
Jeonnam	1	15	12	3	14	4	6	69	97	0	0	0
Gyeongbuk	3	16	15	1	6	4	9	80	228	0	0	0
Gyeongnam	1	8	4	0	6	1	32	153	22	0	0	0
Jeju	0	3	8	0	1	2	3	28	8	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 February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category II						Diseases of Category III					
	Meningococcal disease			Scarlet fever			Tetanus			Viral hepatitis B		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	0	3	2	120	1,040	1,950	1	4	0	6	61	40
Seoul	0	0	1	15	143	256	0	0	0	2	16	7
Busan	0	0	0	11	71	153	0	0	0	0	0	3
Daegu	0	0	0	4	31	63	0	0	0	0	1	1
Incheon	0	0	0	9	54	88	0	0	0	1	3	2
Gwangju	0	0	0	4	61	100	0	0	0	0	3	1
Daejeon	0	0	0	2	52	72	0	0	0	1	4	1
Ulsan	0	0	0	6	49	86	0	0	0	0	1	1
Sejong	0	0	0	0	4	541	0	0	0	0	2	11
Gyeonggi	0	2	1	33	293	24	0	0	0	1	7	1
Gangwon	0	0	0	3	20	37	0	0	0	0	3	1
Chungbuk	0	0	0	1	9	92	0	2	0	0	0	2
Chungnam	0	0	0	7	36	66	1	1	0	0	0	2
Jeonbuk	0	0	0	3	26	84	0	0	0	0	3	2
Jeonnam	0	0	0	4	37	101	0	0	0	1	5	2
Gyeongbuk	0	1	0	8	47	156	0	1	0	0	3	3
Gyeongnam	0	0	0	8	90	24	0	0	0	0	9	0
Jeju	0	0	0	2	17	7	0	0	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 February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Japanese encephalitis			Malaria			Legionellosis			<i>Vibrio vulnificus</i> sepsis		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	0	0	0	2	15	9	6	69	29	0	1	0
Seoul	0	0	0	0	5	4	3	23	9	0	0	0
Busan	0	0	0	0	1	0	0	4	2	0	0	0
Daegu	0	0	0	0	0	0	0	1	1	0	0	0
Incheon	0	0	0	0	0	1	0	4	2	0	0	0
Gwangju	0	0	0	0	2	0	1	1	0	0	0	0
Daejeon	0	0	0	0	0	0	0	1	0	0	0	0
Ulsan	0	0	0	0	0	0	1	1	1	0	0	0
Sejong	0	0	0	0	0	3	0	0	8	0	0	0
Gyeonggi	0	0	0	2	5	1	1	19	1	0	1	0
Gangwon	0	0	0	0	1	0	0	0	1	0	0	0
Chungbuk	0	0	0	0	0	0	0	2	0	0	0	0
Chungnam	0	0	0	0	0	0	0	0	0	0	0	0
Jeonbuk	0	0	0	0	0	0	0	1	1	0	0	0
Jeonnam	0	0	0	0	0	0	0	4	2	0	0	0
Gyeongbuk	0	0	0	0	1	0	0	1	1	0	0	0
Gyeongnam	0	0	0	0	0	0	0	2	0	0	0	0
Jeju	0	0	0	0	0	0	0	5	0	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 February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Murine typhus			Scrub typhus			Leptospirosis			Brucellosis		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	2	4	0	4	90	96	2	13	7	1	5	0
Seoul	0	0	0	0	1	4	0	0	1	1	1	0
Busan	0	0	0	1	10	4	0	2	0	0	0	0
Daegu	0	0	0	0	0	0	0	1	0	0	0	0
Incheon	2	4	0	0	1	3	0	0	0	0	0	0
Gwangju	0	0	0	0	0	2	0	0	1	0	0	0
Daejeon	0	0	0	0	1	3	0	0	0	0	0	0
Ulsan	0	0	0	0	2	4	0	0	0	0	0	0
Sejong	0	0	0	0	2	7	0	0	2	0	0	0
Gyeonggi	0	0	0	0	6	2	1	1	0	0	0	0
Gangwon	0	0	0	0	1	2	0	2	0	0	0	0
Chungbuk	0	0	0	0	3	7	0	0	0	0	1	0
Chungnam	0	0	0	0	4	7	0	1	1	0	0	0
Jeonbuk	0	0	0	1	18	19	0	1	1	0	2	0
Jeonnam	0	0	0	2	21	6	0	1	0	0	0	0
Gyeongbuk	0	0	0	0	2	22	1	3	1	0	1	0
Gyeongnam	0	0	0	0	11	3	0	1	0	0	0	0
Jeju	0	0	0	0	7	1	0	0	0	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 February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Hemorrhagic fever with renal syndrome			Creutzfeldt-Jacob Disease			Dengue fever			Q fever		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	3	29	35	2	14	6	2	35	31	2	13	13
Seoul	0	0	2	1	2	1	1	11	10	0	0	2
Busan	0	0	1	0	1	0	0	5	2	0	0	1
Daegu	0	0	0	0	0	0	0	1	3	0	0	0
Incheon	0	2	1	0	0	0	0	1	2	0	0	1
Gwangju	0	1	0	0	1	0	0	0	0	0	0	0
Daejeon	0	1	0	0	1	0	0	0	1	1	3	0
Ulsan	0	0	0	0	0	0	0	1	0	0	0	0
Sejong	0	0	13	0	0	2	0	0	7	0	0	3
Gyeonggi	0	9	2	1	6	0	0	12	1	0	1	0
Gangwon	1	4	1	0	0	0	0	0	1	0	0	2
Chungbuk	0	0	2	0	0	0	0	0	1	0	2	1
Chungnam	0	2	3	0	1	1	0	2	0	0	1	1
Jeonbuk	0	2	3	0	1	0	0	0	1	1	2	1
Jeonnam	1	5	5	0	0	1	1	1	1	0	2	0
Gyeongbuk	0	2	2	0	1	1	0	1	1	0	1	1
Gyeongnam	1	1	0	0	0	0	0	0	0	0	1	0
Jeju	0	0	0	0	0	0	0	0	0	0	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.

2 (Continued) Reported cases by geography, week ending February 22, 2020 (8th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III								
	Lyme Borreliosis			Severe fever with thrombocytopenia syndrome			Zika virus infection		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	0	0	1	0	0	0	0	0	-
Seoul	0	0	1	0	0	0	0	0	-
Busan	0	0	0	0	0	0	0	0	-
Daegu	0	0	0	0	0	0	0	0	-
Incheon	0	0	0	0	0	0	0	0	-
Gwangju	0	0	0	0	0	0	0	0	-
Daejeon	0	0	0	0	0	0	0	0	-
Ulsan	0	0	0	0	0	0	0	0	-
Sejong	0	0	0	0	0	0	0	0	-
Gyeonggi	0	0	0	0	0	0	0	0	-
Gangwon	0	0	0	0	0	0	0	0	-
Chungbuk	0	0	0	0	0	0	0	0	-
Chungnam	0	0	0	0	0	0	0	0	-
Jeonbuk	0	0	0	0	0	0	0	0	-
Jeonnam	0	0	0	0	0	0	0	0	-
Gyeongbuk	0	0	0	0	0	0	0	0	-
Gyeongnam	0	0	0	0	0	0	0	0	-
Jeju	0	0	0	0	0	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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending February 22, 2020 (8th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 8.5 cases (=0.85%)
- Variation: decrease from 11.6 cases in 7th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

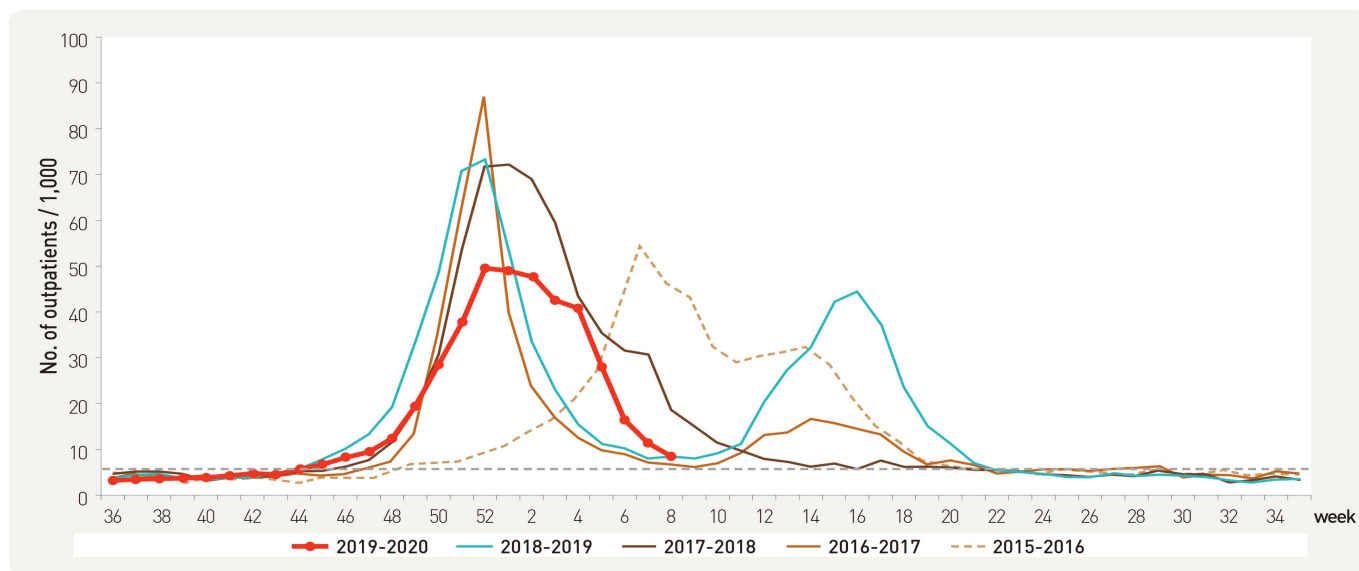


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending February 22, 2020 (8th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.5 case
- Variation: decrease from 0.6 case in 7th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

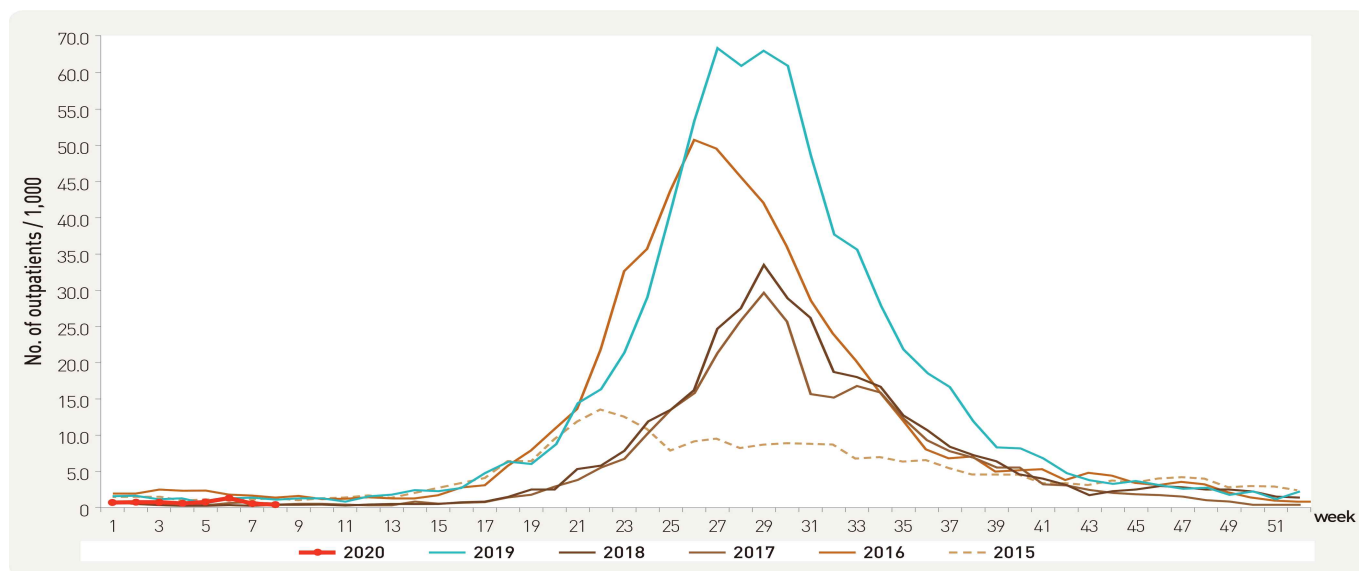


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending February 22, 2020 (8th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 8.8 cases
- Variation: decrease from 10.4 cases in 7th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

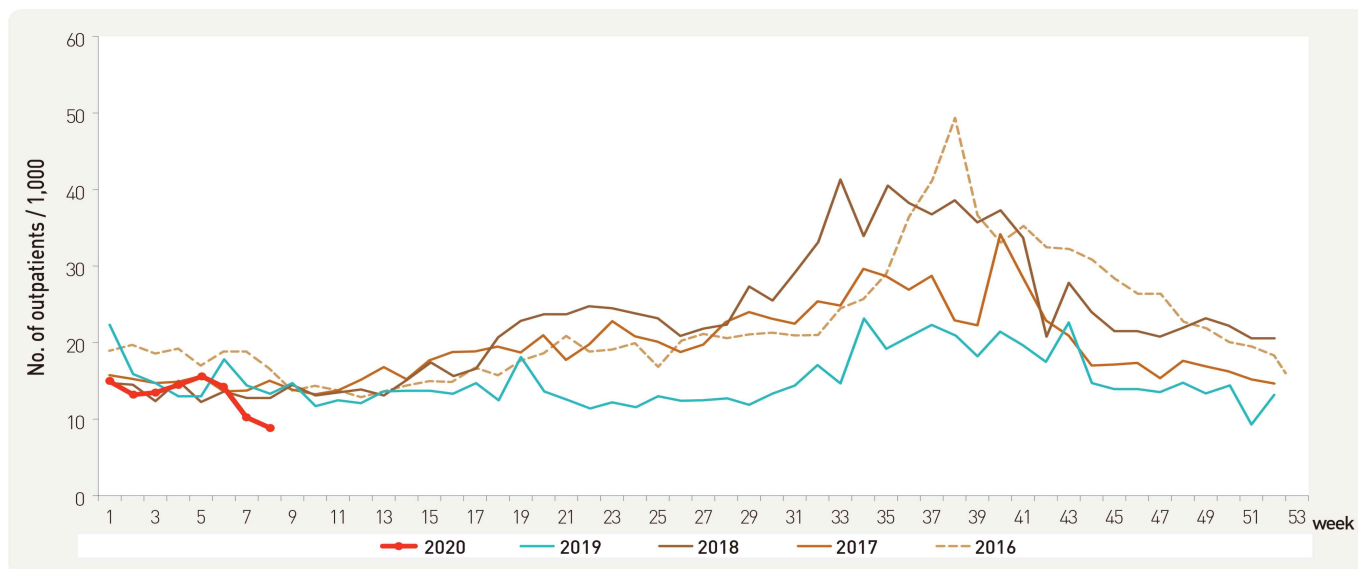


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.7 case
- Variation: decrease from 0.8 case in 7th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

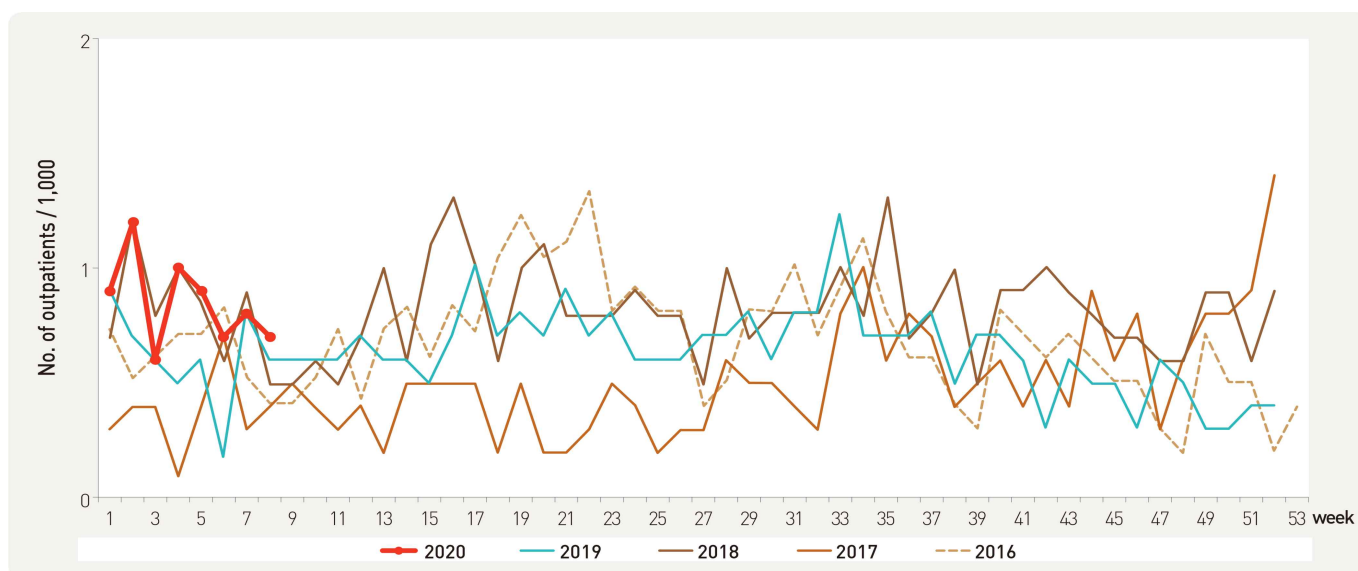


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending February 22, 2020 (8th Week)

- Cases per sentinel: 3.2 for human Papilloma virus infection, 2.3 for condyloma acuminata, 2.2 for chlamydia, 2.2 for genital herpes, 1.2 for gonorrhea, 1.0 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 7th week of 2020
Increase: gonorrhea (1.1 → 1.2), chlamydia (1.9 → 2.2)
No change: primary Syphilis (1.0 → 1.0), congenital Syphilis (0.0 → 0.0)
Decrease: genital herpes (2.3 → 2.2), condyloma acuminata (2.6 → 2.3), human Papilloma virus infection (3.4 → 3.2), secondary Syphilis (1.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 8th week: 17 for gonorrhea, 51 for chlamydia, 47 for genital herpes, 25 for condyloma acuminata, 25 for human Papilloma virus infection, 3 for primary Syphilis, 0 for secondary Syphilis, 0 for congenital Syphilis

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
1.2	2.6	10.0	2.2	5.7	31.1	2.2	8.3	37.2	2.3	5.5	21.9

Human Papilloma virus infection			Primary Syphilis			Secondary Syphilis			Congenital Syphilis		
Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
3.2	10.4	0.0	1.0	1.3	0.0	0.0	1.4	0.0	0.0	1.0	0.0

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.

※ Added human Papilloma virus infection and syphilis from 1st week 2020.

III. Waterborne and Foodborne Infectious Diseases

1. Waterborne and foodborne disease outbreaks, weeks ending February 22, 2020 (8th Week)

- No. of reported outbreaks: 2 with 42 patient (cumulative no. of outbreaks: 51 with 427 patients)
- Variation: no change from 2 in 7th week of 2020
- Reporting sites: 254 health centers

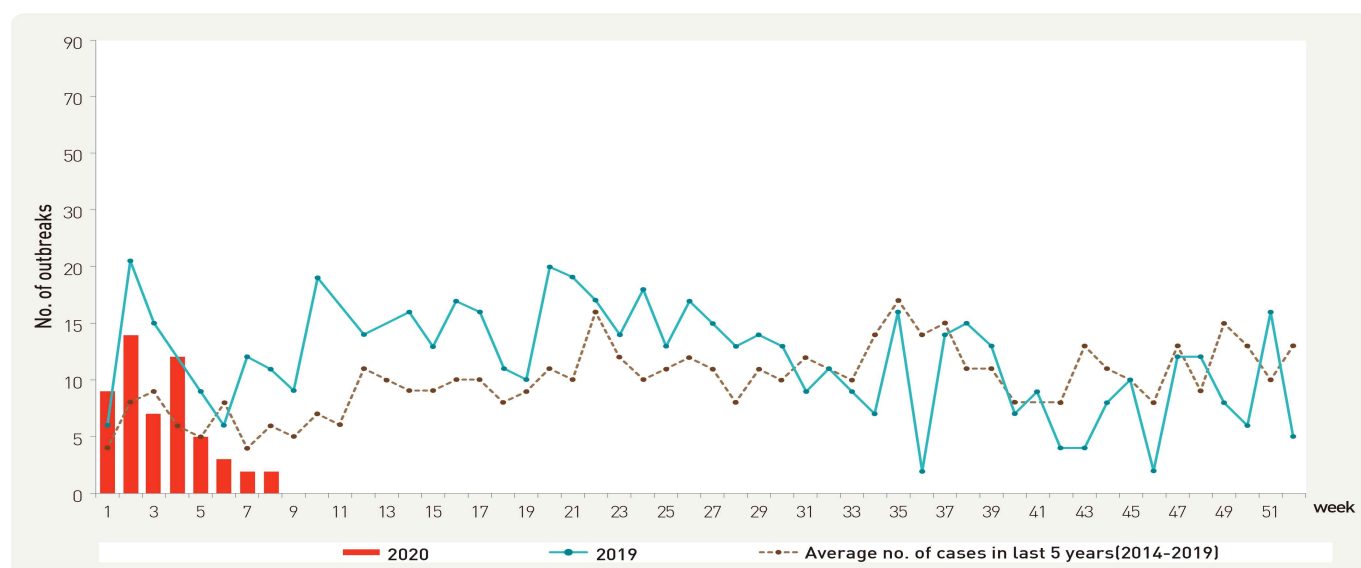


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending February 22, 2020 (8th Week)

- Weekly reported number of specimens positive for influenza: 8 cases (3.9%) / 206 specimens [influenza subtype: A(H1N1)pdm09 6 cases, A(H3N2) 2 cases, B 0 case]
- Variation (%p): decrease from 35 cases (15.8%) / 221 specimens in 7th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

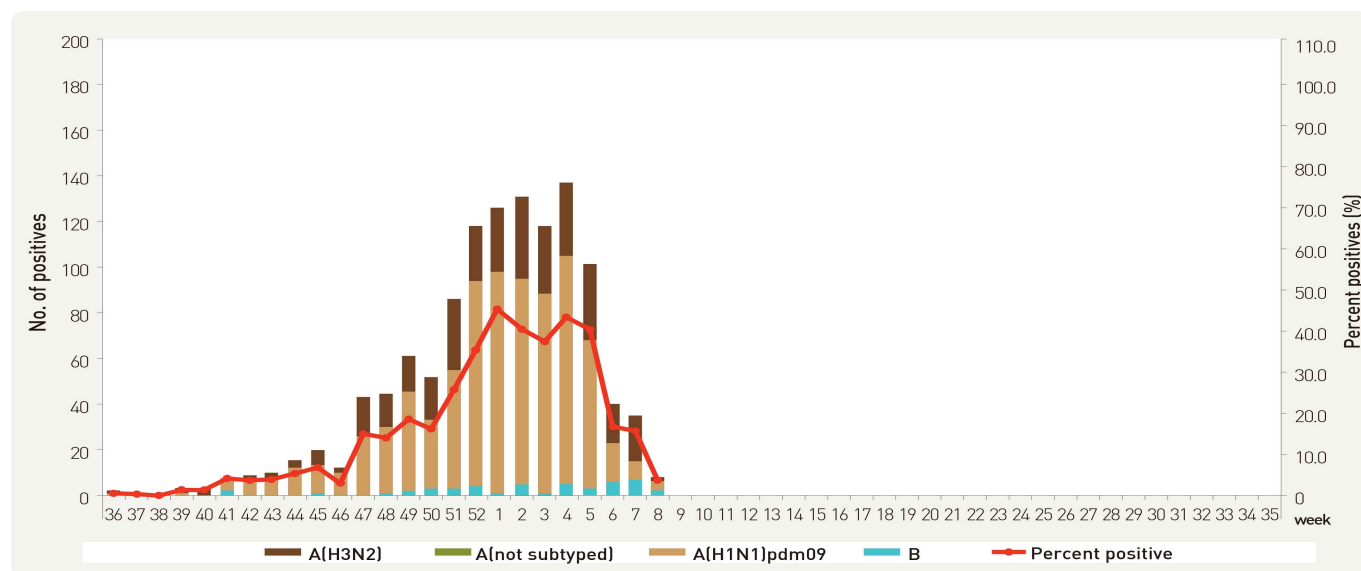


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending February 22, 2020 (8th Week)

- Detection rate: 40.8% (cumulative mean proportion during preceding three weeks plus current week: 53.7% out of 913 specimens)
- Variation (%p): decrease from 49.8% in 7th week of 2020
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2020 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
5	247	70.9	4.0	0.8	5.7	40.9	8.9	5.7	0.8	4.0
6	239	50.6	4.6	0.8	7.5	16.7	9.6	7.5	0.8	2.9
7	221	49.8	5.9	0.9	6.8	15.8	10.0	4.1	0.9	5.4
8	206	40.8	7.8	0.5	4.9	3.9	8.3	8.7	1.9	4.9
Cum.*	913	53.7	5.5	0.8	6.2	20.1	9.2	6.5	1.1	4.3
2019 Cum.†	12,151	60.2	8.0	6.4	3.9	14.0	2.9	17.2	2.8	5.0

- 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 January 26, 2020 – February 22, 2020 (Average no. of detected cases is 228 last 4 weeks)

† 2019 Cum. : the rate of detected cases between December 30, 2018 – December 28, 2019

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

1. Acute gastroenteritis-causing virus, weeks ending February 15, 2020 (7th Week)

- Detection rate: 27.6% [cumulative mean proportion in 2020: 150 cases (49.3%) out of 304 specimens]
- Variation (%p): decrease from 39.4% in 6th week of 2020
- 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	
2020	4	52	20 (38.5)	3 (5.8)	2 (3.8)	2 (3.8)	0 (0.0)	27 (51.9)					
	5	48	21 (43.8)	4 (8.3)	1 (2.1)	1 (2.1)	0 (0.0)	27 (56.3)					
	6	33	12 (36.4)	0 (0.0)	0 (0.0)	1 (3.0)	0 (0.0)	13 (39.4)					
	7	29	5 (17.2)	2 (6.9)	1 (3.4)	0 (0.0)	0 (0.0)	8 (27.6)					
Cum. 2020		304	116 (38.2)	14 (4.6)	6 (2)	11 (3.6)	3 (1)	150 (49.3)					

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

2. Acute gastroenteritis-causing bacteria, weeks ending February 15, 2020 (7th Week)

- Detection rate: 9.0% [cumulative mean proportion in 2020: 114 cases (12.1%) out of 939 specimens]
- Variation (%p): increase from 7.4% in 6th week of 2020
- 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
2020	4	136	1 (0.7)	3 (2.2)	0 (0)	0 (0)	0 (0)	1 (0.7)	4 (2.9)	4 (2.9)	4 (2.9)	17 (12.5)
	5	131	3 (2.3)	2 (1.5)	0 (0)	0 (0)	0 (0)	3 (2.3)	4 (3.1)	5 (3.8)	0 (0)	17 (13.0)
	6	149	3 (2.0)	3 (2.0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (1.3)	1 (0.7)	1 (0.7)	11 (7.4)
	7	78	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (2.6)	2 (2.6)	2 (2.6)	1 (1.3)	7 (9.0)
Cum. 2020		939	15 (1.6)	22 (2.3)	1 (0.1)	0 (0)	0 (0)	15 (1.6)	26 (2.8)	23 (2.4)	7 (0.7)	114 (12.1)

* 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 2020 (69 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending February 15, 2020 (7th Week)

- Detection rate: 10.0% (1 case / 10 specimens) [cumulative mean proportion in 2020: 5.6% (6 cases / 107 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2020: 2 cases)
 - HFMD and herpangina: 0 case (Cum. 2020: 1 case)
 - HFMD with complications: 0 case (Cum. 2020: 0 case)
 - Other: 1 case (Cum. 2020: 3 cases)
- Variation (%p): increase from 0.0% in 6th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

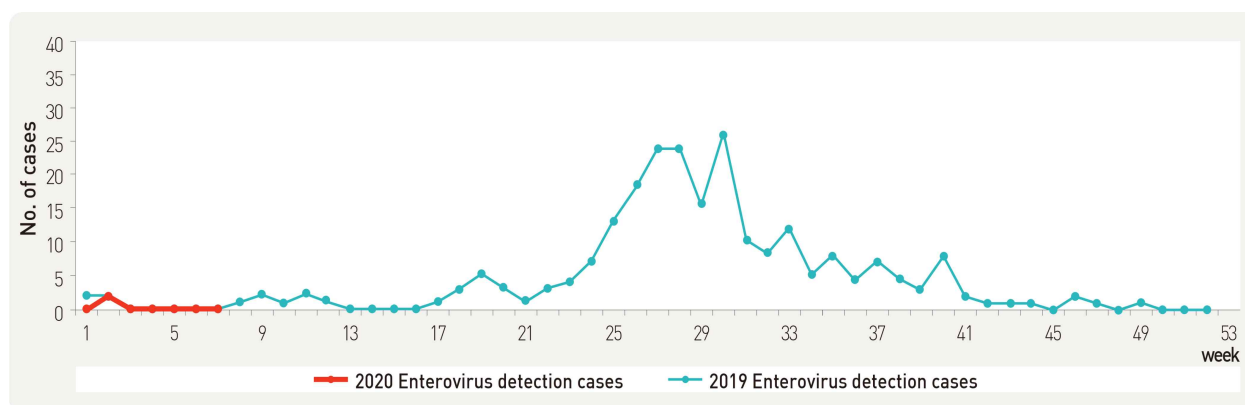


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

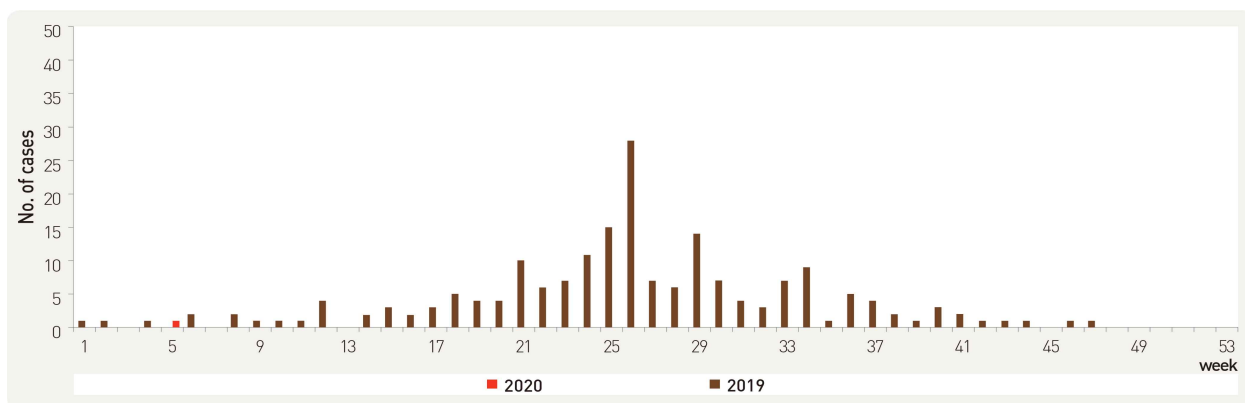


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

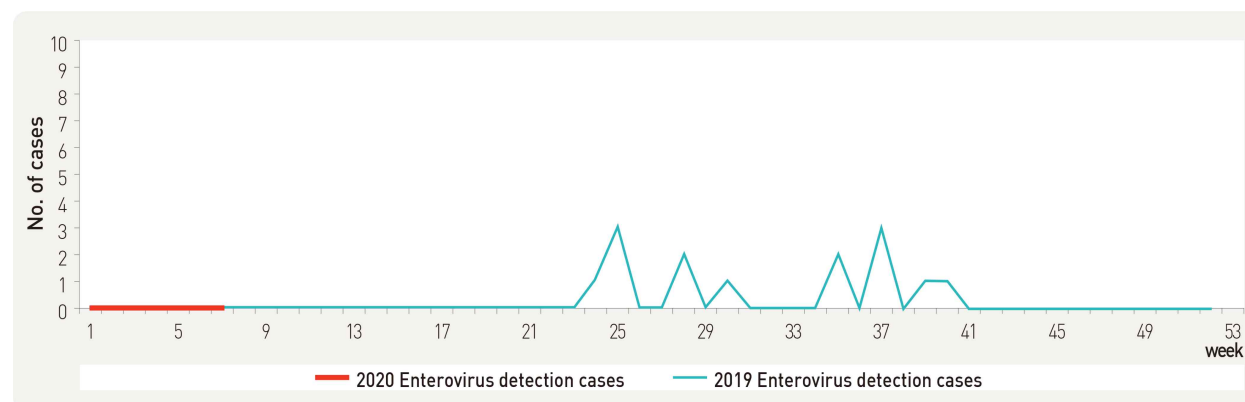


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

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 25 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

$$= (X1 + X2 + \dots + X25) / 25$$

- **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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