

I. National Notifiable Infectious Diseases

1. Reported cases, week ending February 1, 2020 (5th 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	472	2,341	515	24,188	26,433	28,161	30,892	32,181	
Varicella	1,462	9,127	1,204	82,859	96,467	80,092	54,060	46,330	
Measles	7	20	2	193	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	3	14	3	99	213	128	121	121	
Paratyphoid fever	5	8	1	60	47	73	56	44	
Shigellosis	1	10	3	157	191	112	113	88	
EHEC	2	9	1	163	121	138	104	71	
Viral hepatitis A	61	290	69	17,635	2,437	4,419	4,679	1,804	
Pertussis	5	49	6	505	980	318	129	205	
Mumps	254	1,079	271	15,966	19,237	16,924	17,057	23,448	
Rubella	4	7	0	8	0	7	11	11	
Meningococcal disease	0	1	0	16	14	17	6	6	
Pneumococcal disease	13	78	11	527	670	523	441	228	
Hansen's disease	0	0	0	3					
Scarlet fever	161	673	255	7,572	15,777	22,838	11,911	7,002	
VRSA	0	0	-	3	0	0	-	-	
CRE	168	1,157	-	15,079	11,954	5,717	-	-	
Category III									
Tetanus	0	3	0	33	31	34	24	22	
Viral hepatitis B	4	36	6	390	392	391	359	155	
Japanese encephalitis	0	0	0	34	17	9	28	40	
Viral hepatitis C	220	1,292	129	9,809	10,811	6,396	-	-	
Malaria	4	10	1	559	576	515	673	699	Malawi(1)
Legionellosis	8	50	4	472	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	1	0	39	47	46	56	37	
Murine typhus	1	2	0	14	16	18	18	15	
Scrub typhus	7	72	11	4,011	6,668	10,528	11,105	9,513	
Leptospirosis	3	10	1	147	118	103	117	104	
Brucellosis	0	7	0	2	5	6	4	5	
HFRS	7	23	4	421	433	531	575	384	
HIV/AIDS	20	61	16	996	989	1,008	1,060	1,018	
CJD	0	8	1	54	53	36	42	33	
Dengue fever	3	20	4	273	159	171	313	255	Philippines(2), Malaysia(1)
Q fever	4	12	2	177	163	96	81	27	
Lyme Borreliosis	0	0	0	22	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	1	-	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 1, 2020 (5th 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	472	2,341	2,717	1,462	9,127	7,892	7	20	12	0	0	0
Seoul	80	415	503	137	915	876	3	9	1	0	0	0
Busan	36	178	197	64	414	434	0	1	1	0	0	0
Daegu	14	104	124	80	488	414	0	0	3	0	0	0
Incheon	28	131	140	83	417	418	1	1	1	0	0	0
Gwangju	10	44	70	76	500	303	0	0	0	0	0	0
Daejeon	13	54	61	46	315	202	0	1	0	0	0	0
Ulsan	10	49	52	26	124	219	0	0	0	0	0	0
Sejong	1	5	9	8	52	2,257	0	0	6	0	0	0
Gyeonggi	92	496	577	387	2,462	220	2	6	0	0	0	0
Gangwon	15	99	116	45	285	175	0	0	0	0	0	0
Chungbuk	13	83	90	43	351	313	0	0	0	0	0	0
Chungnam	25	117	121	47	296	327	0	0	0	0	0	0
Jeonbuk	21	97	109	63	342	388	0	0	0	0	0	0
Jeonnam	23	112	135	78	324	367	0	0	0	0	0	0
Gyeongbuk	44	164	197	75	584	691	1	1	0	0	0	0
Gyeongnam	42	164	185	169	1,045	215	0	1	0	0	0	0
Jeju	5	29	31	35	213	73	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 1, 2020 (5th 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	14	16	5	8	2	1	10	20	2	9	2
Seoul	1	2	3	0	1	1	1	2	5	0	3	1
Busan	0	1	1	1	1	0	0	3	1	0	0	0
Daegu	0	0	0	1	1	0	0	0	2	0	1	1
Incheon	0	2	2	0	0	0	0	0	1	0	0	0
Gwangju	1	1	0	0	0	0	0	0	1	0	0	0
Daejeon	0	0	1	1	1	0	0	0	0	0	0	0
Ulsan	0	1	1	0	0	0	0	0	0	0	0	0
Sejong	0	0	3	0	0	1	0	0	5	0	0	0
Gyeonggi	0	5	0	1	2	0	0	2	0	2	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	0	0	0	0	0	0	0	1	0	0	1	0
Jeonbuk	0	0	1	0	0	0	0	0	2	0	1	0
Jeonnam	0	0	1	1	1	0	0	0	1	0	0	0
Gyeongbuk	0	0	1	0	0	0	0	1	1	0	0	0
Gyeongnam	1	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 1, 2020 (5th 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	61	290	311	5	49	35	254	1,079	1,474	4	7	0
Seoul	11	60	54	2	6	7	34	121	125	1	3	0
Busan	2	7	7	0	3	2	17	61	105	0	0	0
Daegu	4	11	7	0	4	2	10	31	42	0	0	0
Incheon	4	26	22	0	3	3	15	57	49	0	0	0
Gwangju	1	3	4	0	3	2	9	39	120	0	0	0
Daejeon	0	13	25	0	1	1	8	38	27	0	0	0
Ulsan	0	7	4	0	1	1	8	24	56	0	0	0
Sejong	0	4	97	0	0	5	2	7	343	0	0	0
Gyeonggi	24	92	9	0	7	1	70	328	53	1	2	0
Gangwon	0	6	13	0	0	1	10	34	32	0	0	0
Chungbuk	4	11	23	0	0	1	10	43	56	1	1	0
Chungnam	2	11	19	0	3	1	13	51	150	0	0	0
Jeonbuk	3	14	6	0	0	2	12	45	76	0	0	0
Jeonnam	3	11	8	3	8	2	7	47	60	1	1	0
Gyeongbuk	1	8	8	0	3	2	7	53	158	0	0	0
Gyeongnam	1	4	2	0	6	0	18	81	16	0	0	0
Jeju	1	2	3	0	1	2	4	19	6	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 1, 2020 (5th 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	1	1	161	673	1,183	0	3	0	4	36	24
Seoul	0	0	0	19	88	152	0	0	0	1	9	4
Busan	0	0	0	9	40	88	0	0	0	0	0	2
Daegu	0	0	0	4	20	38	0	0	0	0	1	1
Incheon	0	0	0	12	30	56	0	0	0	0	1	1
Gwangju	0	0	0	12	49	65	0	0	0	1	3	0
Daejeon	0	0	0	10	36	42	0	0	0	0	2	1
Ulsan	0	0	0	6	36	53	0	0	0	0	1	1
Sejong	0	0	0	1	3	329	0	0	0	0	1	6
Gyeonggi	0	1	1	43	192	16	0	0	0	0	1	1
Gangwon	0	0	0	2	13	24	0	0	0	0	3	1
Chungbuk	0	0	0	3	7	55	0	2	0	0	0	1
Chungnam	0	0	0	4	21	41	0	0	0	0	0	1
Jeonbuk	0	0	0	2	14	52	0	0	0	1	3	1
Jeonnam	0	0	0	3	23	61	0	0	0	0	3	1
Gyeongbuk	0	0	0	7	33	90	0	1	0	0	2	2
Gyeongnam	0	0	0	19	56	15	0	0	0	1	5	0
Jeju	0	0	0	5	12	6	0	0	0	0	1	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 1, 2020 (5th 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	4	10	5	8	50	20	0	1	0
Seoul	0	0	0	2	5	2	2	17	6	0	0	0
Busan	0	0	0	0	0	0	1	3	1	0	0	0
Daegu	0	0	0	0	0	0	0	1	1	0	0	0
Incheon	0	0	0	0	0	1	1	4	1	0	0	0
Gwangju	0	0	0	1	2	0	0	0	0	0	0	0
Daejeon	0	0	0	0	0	0	0	1	0	0	0	0
Ulsan	0	0	0	0	0	0	0	0	1	0	0	0
Sejong	0	0	0	0	0	2	0	0	5	0	0	0
Gyeonggi	0	0	0	1	2	0	2	15	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	1	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	0	0	0	0	0
Jeonnam	0	0	0	0	0	0	0	2	2	0	0	0
Gyeongbuk	0	0	0	0	0	0	1	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	1	3	0	0	0	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 1, 2020 (5th 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	1	2	0	7	72	73	3	10	2	0	7	0
Seoul	0	0	0	0	1	3	0	0	1	0	0	0
Busan	0	0	0	1	7	3	0	2	0	0	0	0
Daegu	0	0	0	0	0	0	1	1	0	0	0	0
Incheon	1	2	0	0	1	1	0	0	0	0	0	0
Gwangju	0	0	0	0	0	1	0	0	0	0	0	0
Daejeon	0	0	0	0	1	2	0	0	0	0	0	0
Ulsan	0	0	0	0	2	3	0	0	0	0	0	0
Sejong	0	0	0	0	1	5	0	0	1	0	0	0
Gyeonggi	0	0	0	1	6	2	0	0	0	0	0	0
Gangwon	0	0	0	0	1	2	1	2	0	0	0	0
Chungbuk	0	0	0	0	3	5	0	0	0	0	4	0
Chungnam	0	0	0	0	2	6	0	0	0	0	0	0
Jeonbuk	0	0	0	1	11	15	0	1	0	0	2	0
Jeonnam	0	0	0	2	18	4	1	2	0	0	0	0
Gyeongbuk	0	0	0	2	2	18	0	1	0	0	1	0
Gyeongnam	0	0	0	0	10	3	0	1	0	0	0	0
Jeju	0	0	0	0	6	0	0	0	0	0	0	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 1, 2020 (5th 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	7	23	26	0	8	2	3	20	15	4	12	8
Seoul	0	0	2	0	0	1	0	6	6	0	0	1
Busan	0	0	0	0	2	0	0	3	1	0	0	1
Daegu	0	0	0	0	0	0	0	1	2	0	0	0
Incheon	0	2	0	0	0	0	0	0	1	0	0	0
Gwangju	1	1	0	0	0	0	0	0	0	0	0	0
Daejeon	0	1	0	0	0	0	0	0	1	2	2	0
Ulsan	0	0	0	0	0	0	0	0	0	0	0	0
Sejong	0	0	10	0	0	1	0	0	2	0	0	3
Gyeonggi	3	8	2	0	4	0	2	7	1	0	1	0
Gangwon	1	2	1	0	0	0	0	0	0	0	0	1
Chungbuk	0	1	2	0	0	0	0	0	0	0	4	0
Chungnam	0	1	2	0	0	0	0	2	0	1	1	1
Jeonbuk	0	1	2	0	2	0	0	0	0	0	1	1
Jeonnam	1	4	4	0	0	0	0	0	0	1	1	0
Gyeongbuk	1	2	1	0	0	0	1	1	1	0	1	0
Gyeongnam	0	0	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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† 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 1, 2020 (5th 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	1	-
Seoul	0	0	1	0	0	0	0	0	-
Busan	0	0	0	0	0	0	0	1	-
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 1, 2020 (5th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 28.0 cases (=2.80%)
- Variation: decrease from 40.9 cases in 4th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

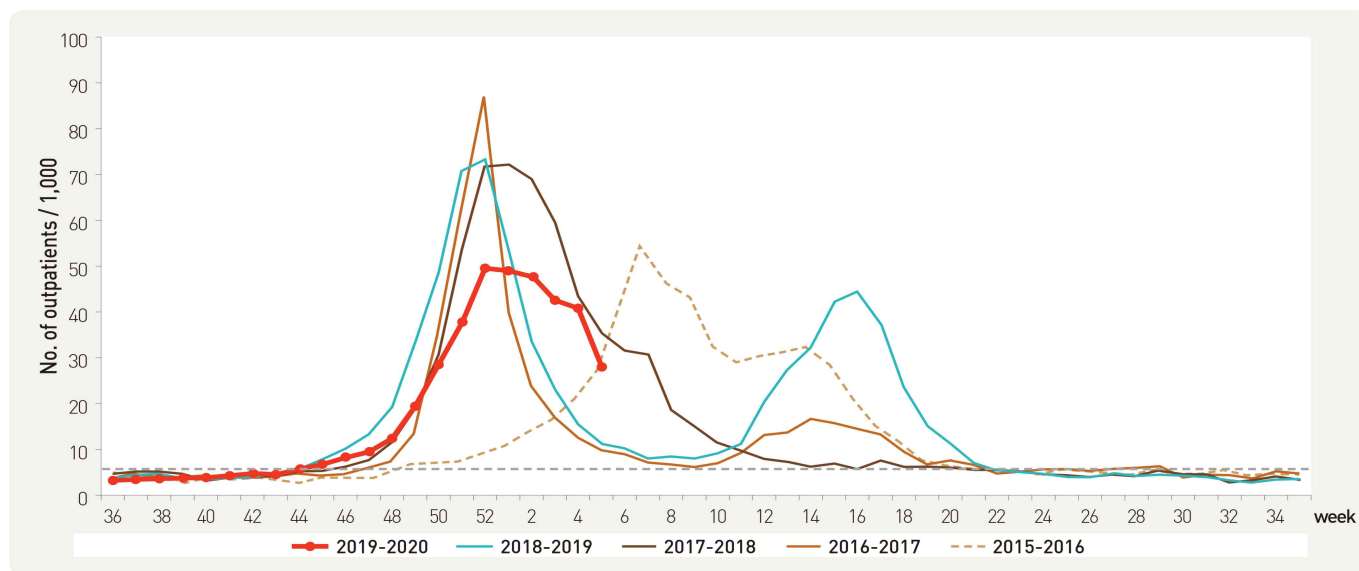


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending February 1, 2020 (5th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.8 case
- Variation: increase from 0.6 case in 4th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

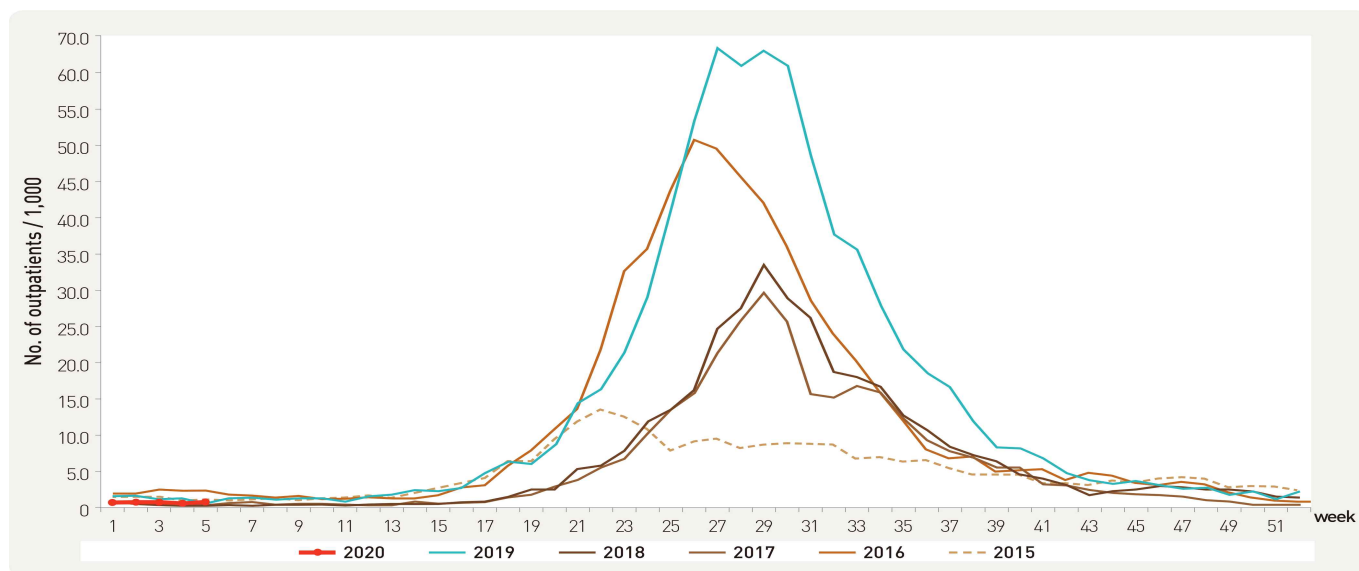


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending February 1, 2020 (5th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 14.3 cases
- Variation: no change from 14.3 cases in 4th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

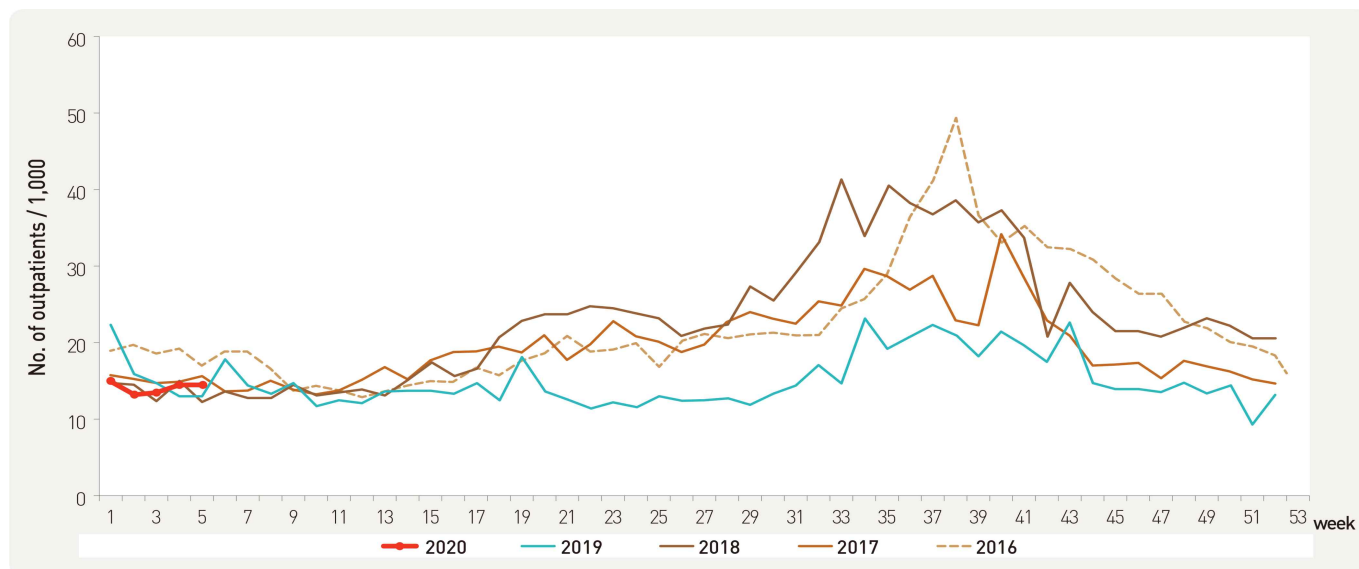


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 1.0 case
- Variation: no change from 1.0 case in 4th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

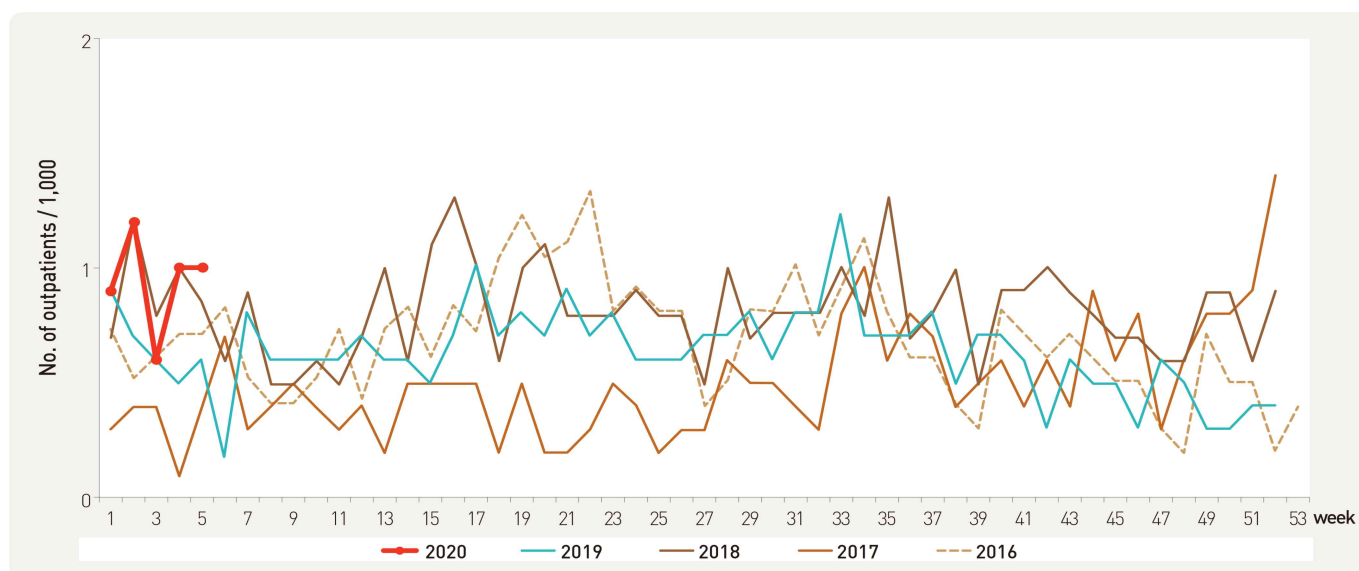


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending February 1, 2020 (5th Week)

- Cases per sentinel: 2.5 for chlamydia, 2.2 for human Papilloma virus infection, 2.1 for genital herpes, 1.7 for gonorrhea, 1.5 for condyloma acuminata, 1.0 for primary Syphilis, 1.0 for secondary Syphilis, 0.0 for congenital Syphilis,
- Variation from 4th week of 2020
Increase: gonorrhea (1.3 → 1.7), chlamydia (1.8 → 2.5), genital herpes (2.0 → 2.1), primary Syphilis (0.0 → 1.0)
No change: secondary Syphilis (1.0 → 1.0)
Decrease: condyloma acuminata (1.8 → 1.5), human Papilloma virus infection (3.1 → 2.2), congenital Syphilis (1.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 5th week: 13 for gonorrhea, 30 for chlamydia, 35 for genital herpes, 26 for condyloma acuminata, 22 for human Papilloma virus infection, 1 for primary Syphilis, 1 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 [§]
1.7	1.7	10.3	2.5	3.0	32.2	2.1	3.5	38.8	1.5	2.7	22.6

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 [§]
2.2	5.7	0.0	1.0	1.3	0.0	1.0	1.1	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 1, 2020 (5th Week)

- No. of reported outbreaks: 0 with 0 patient (cumulative no. of outbreaks: 42 with 285 patients)
- Variation: decrease from 12 in 4th week of 2020
- Reporting sites: 254 health centers

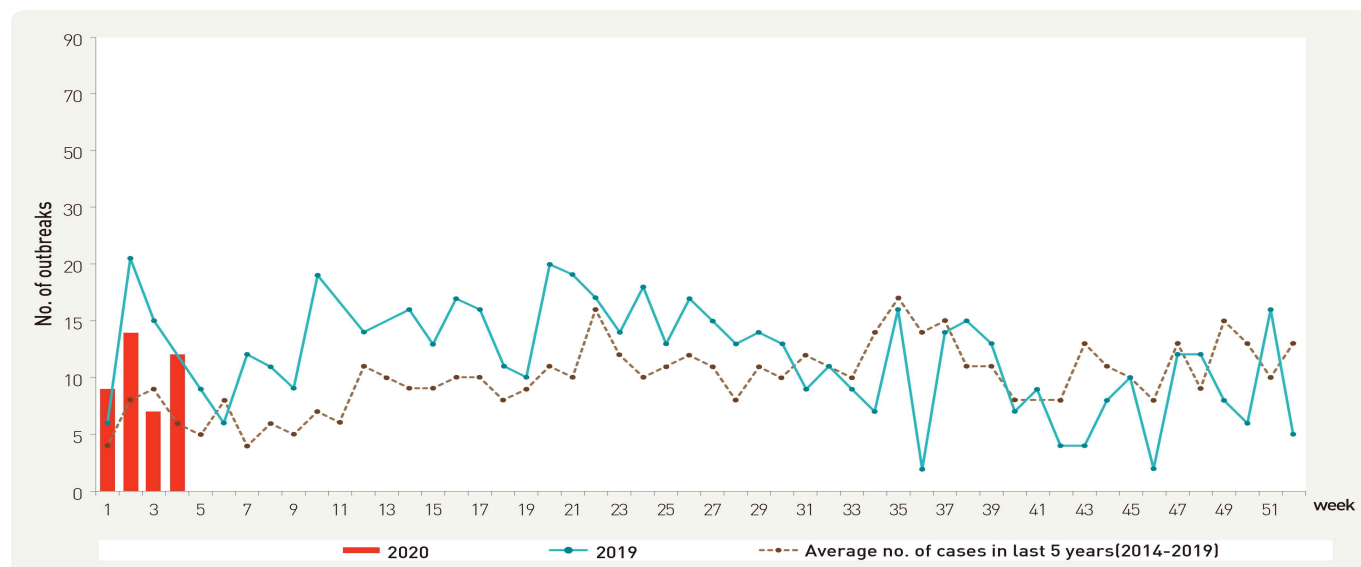


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending February 1, 2020 (5th Week)

- Weekly reported number of specimens positive for influenza: 101 cases (40.9%) / 247 specimens [influenza subtype: A(H1N1)pdm09 68 cases, A(H3N2) 30 cases, B 3 cases]
- Variation (%p): decrease from 137 cases (43.4%) / 316 specimens in 4th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

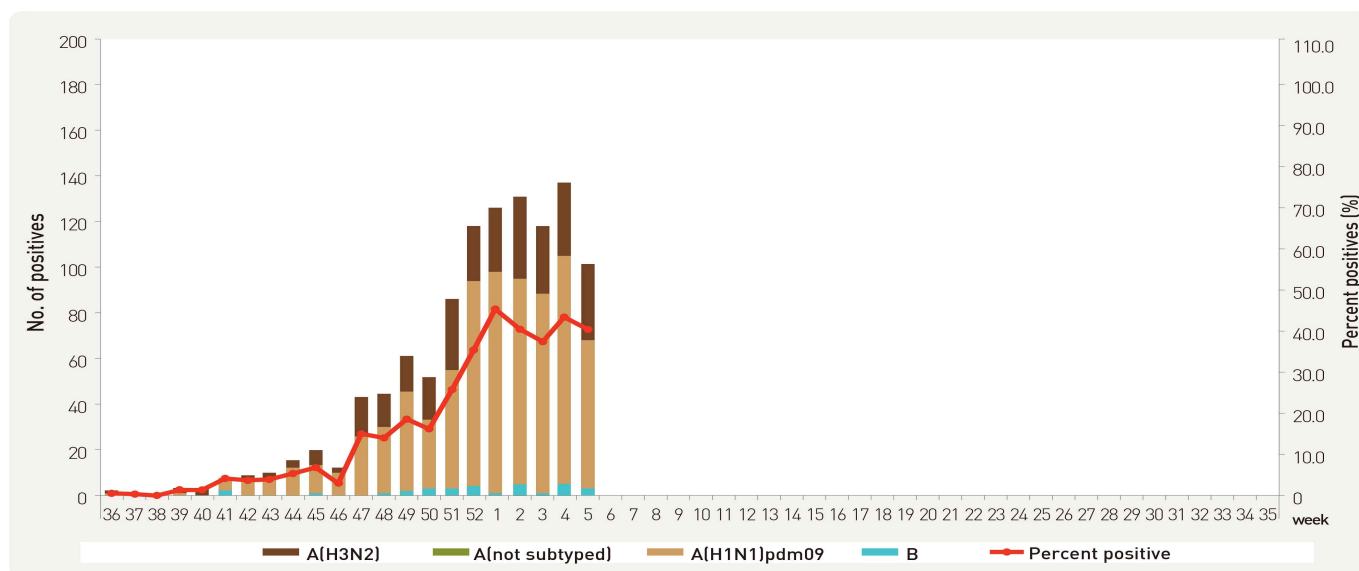


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending February 1, 2020 (5th Week)

- Detection rate: 70.9% (cumulative mean proportion during preceding three weeks plus current week: 72.4% out of 1,200 specimens)
- Variation (%p): decrease from 74.4% in 4th 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
2	323	74.3	8.0	0.6	10.5	40.6	5.9	3.4	2.8	2.5
3	314	69.7	8.6	1.0	7.6	37.6	6.7	3.8	1.0	3.5
4	316	74.4	5.7	1.6	6.6	43.4	10.1	4.4	0.6	1.9
5	247	70.9	4.0	0.8	5.7	40.9	8.9	5.7	0.8	4.0
Cum.*	1,200	72.4	6.8	1.0	7.8	40.6	7.8	4.2	1.3	2.9
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 5, 2020 – February 1, 2020 (Average no. of detected cases is 300 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 January 25, 2020 (4th Week)

- Detection rate: 52.6% [cumulative mean proportion in 2020: 95 cases (52.8%) out of 180 specimens]
- Variation (%p): decrease from 57.1% in 3rd 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	1	57	23 (40.4)	4 (7.0)	2 (3.5)	2 (3.5)	3 (5.3)	34 (59.6)					
	2	50	16 (32.0)	1 (2.0)	0 (0.0)	4 (8.0)	0 (0.0)	21 (42.0)					
	3	35	19 (54.3)	0 (0.0)	0 (0.0)	1 (2.9)	0 (0.0)	20 (57.1)					
	4	38	14 (36.8)	3 (7.9)	1 (2.6)	2 (5.3)	0 (0.0)	20 (52.6)					
Cum. 2020	180	72 (40.0)	8 (4.4)	3 (1.7)	9 (5.0)	3 (1.7)	95 (52.8)						

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

2. Acute gastroenteritis-causing bacteria, weeks ending January 25, 2020 (4th Week)

- Detection rate: 9.7% [cumulative mean proportion in 2020: 71 cases (13.3%) out of 533 specimens]
- Variation (%p): decrease from 15.0% in 3rd 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.parahae molyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C.perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2020	1	154	2 (1.3)	5 (3.2)	0 (0)	0 (0)	0 (0)	1 (0.6)	4 (2.6)	2 (1.3)	1 (0.6)	16 (10.4)
	2	139	3 (2.2)	5 (3.6)	1 (0.7)	0 (0)	0 (0)	3 (2.2)	6 (4.3)	3 (2.2)	0 (0)	24 [†] (17.3)
	3	147	3 (2.0)	4 (2.7)	0 (0)	0 (0)	0 (0)	5 (3.4)	4 (2.7)	6 (4.1)	0 (0)	22 (15.0)
	4	93	0 (0)	2 (2.2)	0 (0)	0 (0)	0 (0)	0 (0)	2 (2.2)	1 (1.1)	4 (4.3)	9 (9.7)
Cum. 2020		533	8 (1.5)	16 (3.0)	1 (0.2)	0 (0)	0 (0)	9 (1.7)	16 (3.0)	12 (2.3)	5 (0.9)	71 (13.3)

* 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)

† Contains 3 *Listeria monocytogenes*

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending January 25, 2020 (4th Week)

- Detection rate: 0.0% (0 case / 15 specimens) [cumulative mean proportion in 2020: 5.8% (4 cases / 69 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2020: 2 cases)
 - HFMD and herpangina: 0 case (Cum. 2020: 0 case)
 - HFMD with complications: 0 case (Cum. 2020: 0 case)
 - Other: 0 case (Cum. 2020: 2 cases)
- Variation (%p): decrease from 6.7% in 3rd week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

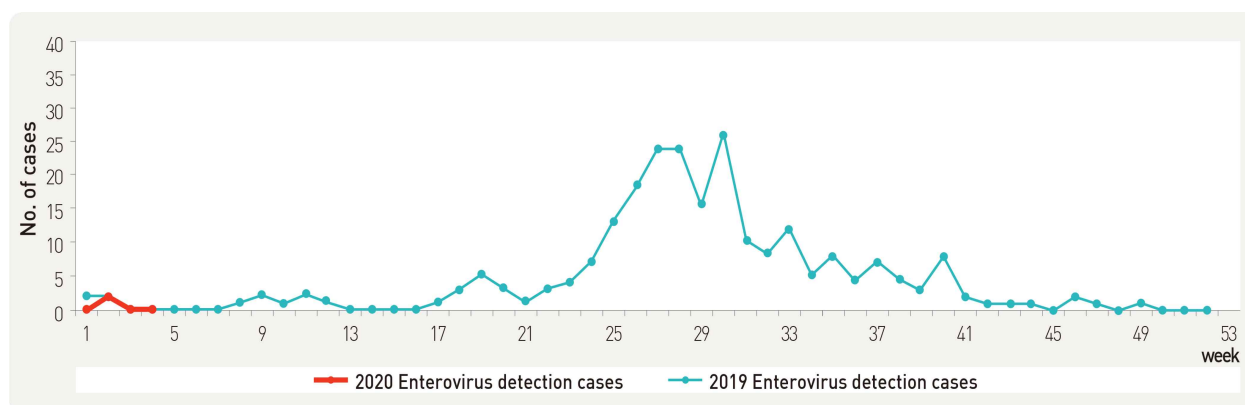


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

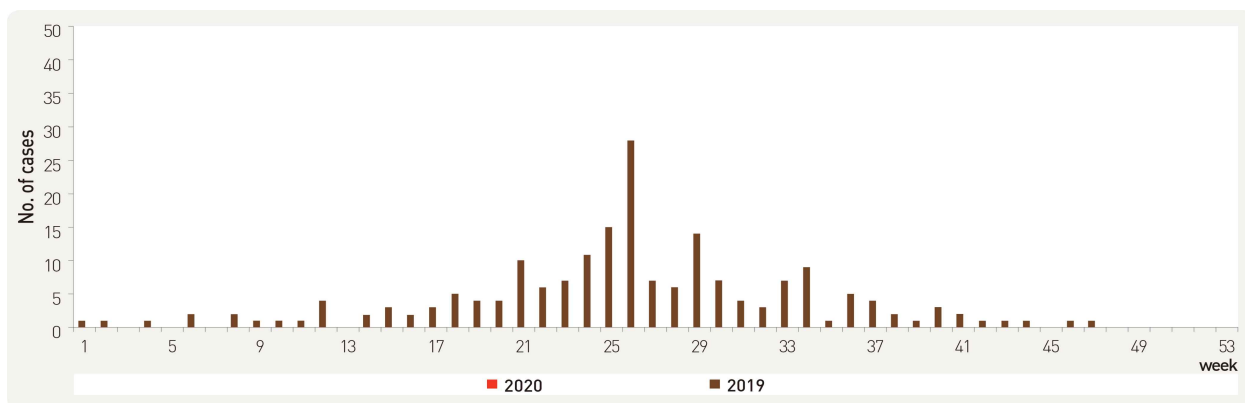


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

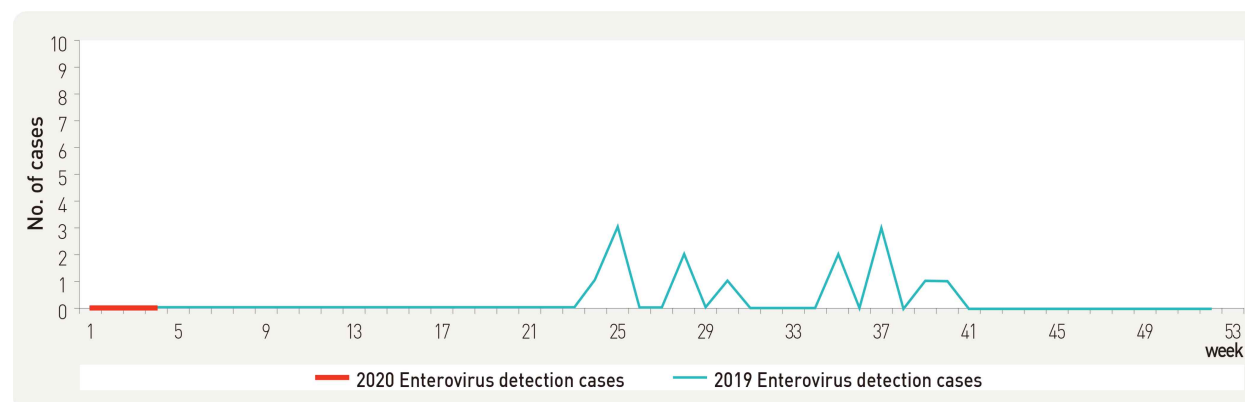


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

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 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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