Korea Disease Control and Prevention Agency

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 14, No. 13 March 25, 2021

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending March 20, 2021 (12th Week)*

Unit: no. of cases†

Classification of disease‡	Current week	Cum. 2021	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2020	2019	2018	2017	2016	
Category Ⅱ									
Tuberculosis	399	4,437	512	19,933	23,821	26,433	28,161	30,892	
Varicella	349	3,914	847	31,355	82,868	96,467	80,092	54,060	
Measles	0	0	2	6	194	15	7	18	
Cholera	0	0	0	0	1	2	5	4	
Typhoid fever	5	35	3	43	94	213	128	121	
Paratyphoid fever	0	5	1	65	55	47	73	56	
Shigellosis	0	4	2	30	151	191	112	113	
EHEC	0	14	1	282	146	121	138	104	
Viral hepatitis A	112	1,013	137	3,906	17,598	2,437	4,419	4,679	
Pertussis	0	10	4	124	496	980	318	129	
Mumps	218	1,805	274	9,901	15,967	19,237	16,924	17,057	
Rubella	0	0	0	2	8	0	7	11	
Meningococcal disease	0	0	1	5	16	14	17	6	
Pneumococcal disease	3	53	10	343	526	670	523	441	
Hansen's disease	0	1	0	3	4				
Scarlet fever	20	194	249	2,292	7,562	15,777	22,838	11,911	
VRSA	0	0	0	9	3	0	0	-	
CRE	226	3,763	175	17,855	15,369	11,954	5,717	-	
Viral hepatitis E	8	72	-	189	-	-	-	-	
Category Ⅲ									
Tetanus	1	4	0	31	31	31	34	24	
Viral hepatitis B	4	92	7	380	389	392	391	359	
Japanese encephalitis	0	0	0	7	34	17	9	28	
Viral hepatitis C	134	2,339	159	11,819	9,810	10,811	6,396	-	
Malaria	4	7	1	389	559	576	515	673	
Legionellosis	5	64	5	340	501	305	198	128	
Vibrio vulnificus sepsis	0	1	0	71	42	47	46	56	
Murine typhus	0	2	0	6	14	16	18	18	
Scrub typhus	6	146	12	4,442	4,005	6,668	10,528	11,105	
Leptospirosis	1	17	1	141	138	118	103	117	
Brucellosis	0	2	0	9	1	5	6	4	
HFRS	3	41	3	274	399	433	531	575	
HIV/AIDS	20	138	19	821	1,005	989	1,008	1,060	
CJD	1	36	1	81	53	53	36	42	
Dengue fever	0	0	2	42	273	159	171	313	
Q fever	2	7	2	73	162	163	96	81	
Lyme Borreliosis	0	0	0	7	23	23	31	27	
Melioidosis	0	0	0	1	8	2	2	4	
Chikungunya fever	0	0	0	1	16	3	5	10	
SFTS	0	0	0	241	223	259	272	165	
Zika virus infection	0	0	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 2020, 2021 are provisional but the data from 2016 to 2019 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 influenza* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Tuberculosis			Varicella			Measles			Cholera		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	399	4,437	5,878	349	3,914	14,460	0	0	19	0	0	0
Seoul	63	719	1,060	49	526	1,614	0	0	2	0	0	0
Busan	27	299	410	4	259	800	0	0	1	0	0	0
Daegu	19	221	276	24	182	747	0	0	2	0	0	0
Incheon	15	229	316	21	216	755	0	0	1	0	0	0
Gwangju	14	105	150	9	152	595	0	0	0	0	0	0
Daejeon	8	110	128	6	103	404	0	0	1	0	0	0
Ulsan	6	78	119	7	74	393	0	0	0	0	0	0
Sejong	0	26	20	9	52	127	0	0	9	0	0	0
Gyonggi	85	994	1,266	102	1,091	3,890	0	0	0	0	0	0
Gangwon	13	173	256	9	115	388	0	0	0	0	0	0
Chungbuk	13	139	178	8	127	375	0	0	0	0	0	0
Chungnam	26	238	277	16	151	568	0	0	0	0	0	0
Jeonbuk	14	168	235	24	156	586	0	0	0	0	0	0
Jeonnam	34	258	300	20	185	626	0	0	1	0	0	0
Gyeongbuk	34	343	427	9	185	777	0	0	1	0	0	0
Gyeongnam	22	292	382	25	275	1,384	0	0	1	0	0	0
Jeju	6	45	79	7	65	431	0	0	0	0	0	0

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

* The reported data for year 2020, 2021 are provisional but the data from 2016 to 2019 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.

§ 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 March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Typhoid fever			Paratyphoid fever			Shigellosis			Enterohemorrhagic *Escherichia coli*		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	5	35	39	0	5	9	0	4	35	0	14	7
Seoul	0	1	9	0	0	2	0	0	8	0	2	2
Busan	0	5	4	0	1	1	0	0	2	0	0	0
Daegu	0	0	1	0	2	1	0	0	3	0	0	1
Incheon	0	1	3	0	0	1	0	0	3	0	0	0
Gwangju	0	1	0	0	0	0	0	0	1	0	2	1
Daejeon	0	2	2	0	0	0	0	0	1	0	1	0
Ulsan	0	0	2	0	0	0	0	0	1	0	0	0
Sejong	0	0	1	0	0	0	0	0	0	0	0	0
Gyonggi	1	7	9	0	1	2	0	0	7	0	6	2
Gangwon	0	0	1	0	0	0	0	0	1	0	0	0
Chungbuk	0	0	1	0	0	0	0	0	0	0	0	0
Chungnam	0	1	1	0	0	0	0	0	2	0	1	0
Jeonbuk	0	0	0	0	0	1	0	1	0	0	0	0
Jeonnam	0	1	1	0	1	1	0	3	2	0	0	0
Gyeongbuk	0	4	1	0	0	0	0	0	3	0	1	0
Gyeongnam	4	12	3	0	0	0	0	0	1	0	1	1
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 March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Viral hepatitis A			Pertussis			Mumps			Rubella		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	112	1,013	1,079	0	10	80	218	1,805	2,720	0	0	0
Seoul	40	208	192	0	1	13	25	225	296	0	0	0
Busan	0	13	28	0	0	4	6	101	157	0	0	0
Daegu	1	12	19	0	0	3	9	74	94	0	0	0
Incheon	5	74	83	0	1	8	8	78	125	0	0	0
Gwangju	1	21	17	0	0	4	9	65	128	0	0	0
Daejeon	1	34	112	0	0	3	5	55	76	0	0	0
Ulsan	3	8	8	0	0	2	10	62	90	0	0	0
Sejong	0	7	15	0	0	3	2	14	14	0	0	0
Gyonggi	33	380	311	0	3	12	64	548	710	0	0	0
Gangwon	3	17	25	0	0	0	9	69	106	0	0	0
Chungbuk	6	37	48	0	1	1	2	38	73	0	0	0
Chungnam	6	84	91	0	0	2	12	86	123	0	0	0
Jeonbuk	2	41	48	0	0	2	9	62	117	0	0	0
Jeonnam	5	33	24	0	0	7	15	73	114	0	0	0
Gyeongbuk	3	20	24	0	3	7	9	74	143	0	0	0
Gyeongnam	1	11	27	0	1	8	16	142	316	0	0	0
Jeju	2	13	7	0	0	1	8	39	38	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 March 20, 2021 (12th 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. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	0	0	2	20	194	2,845	1	4	1	4	92	77
Seoul	0	0	0	1	28	400	1	1	0	1	7	15
Busan	0	0	0	1	11	223	0	0	0	0	3	5
Daegu	0	0	0	0	1	83	0	1	0	0	2	2
Incheon	0	0	0	0	7	135	0	0	0	0	3	4
Gwangju	0	0	0	3	24	152	0	0	0	0	5	2
Daejeon	0	0	0	0	2	96	0	1	0	0	2	3
Ulsan	0	0	0	0	11	127	0	0	0	0	2	2
Sejong	0	0	0	0	0	13	0	0	0	0	0	0
Gyonggi	0	0	1	8	54	778	0	0	0	2	32	19
Gangwon	0	0	1	0	4	34	0	0	0	1	4	2
Chungbuk	0	0	0	0	4	51	0	0	0	0	1	2
Chungnam	0	0	0	1	5	133	0	1	0	0	7	3
Jeonbuk	0	0	0	2	3	96	0	0	0	0	3	3
Jeonnam	0	0	0	2	8	123	0	0	1	0	7	3
Gyeongbuk	0	0	0	1	9	148	0	0	0	0	6	4
Gyeongnam	0	0	0	1	20	217	0	0	0	0	5	7
Jeju	0	0	0	0	3	36	0	0	0	0	3	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 March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Japanese encephalitis			Malaria			Legionellosis			*Vibrio vulnificus* sepsis		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	0	0	0	4	7	13	5	64	58	0	1	0
Seoul	0	0	0	1	1	5	0	10	17	0	0	0
Busan	0	0	0	1	1	0	0	1	3	0	0	0
Daegu	0	0	0	0	0	0	0	3	2	0	0	0
Incheon	0	0	0	0	0	1	0	2	5	0	0	0
Gwangju	0	0	0	0	0	1	0	1	1	0	0	0
Daejeon	0	0	0	0	0	0	0	1	1	0	0	0
Ulsan	0	0	0	0	0	0	1	2	1	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyonggi	0	0	0	2	3	5	0	13	14	0	0	0
Gangwon	0	0	0	0	1	1	0	2	1	0	0	0
Chungbuk	0	0	0	0	0	0	0	2	2	0	0	0
Chungnam	0	0	0	0	1	0	0	1	1	0	0	0
Jeonbuk	0	0	0	0	0	0	0	4	1	0	1	0
Jeonnam	0	0	0	0	0	0	1	6	2	0	0	0
Gyeongbuk	0	0	0	0	0	0	0	0	5	0	0	0
Gyeongnam	0	0	0	0	0	0	0	3	2	0	0	0
Jeju	0	0	0	0	0	0	3	13	0	0	0	0

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

* The reported data for year 2020, 2021 are provisional but the data from 2016 to 2019 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.

§ 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 March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Murine typhus			Scrub typhus			Leptospirosis			Brucellosis		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	0	2	0	6	146	142	1	17	8	0	2	0
Seoul	0	0	0	0	6	5	0	0	1	0	0	0
Busan	0	0	0	0	8	8	0	1	0	0	0	0
Daegu	0	0	0	0	6	0	0	0	0	0	0	0
Incheon	0	1	0	0	2	4	0	3	0	0	0	0
Gwangju	0	0	0	0	5	2	0	0	1	0	0	0
Daejeon	0	0	0	0	1	2	0	1	0	0	0	0
Ulsan	0	0	0	0	2	5	0	0	0	0	0	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyonggi	0	0	0	0	8	13	0	2	2	0	2	0
Gangwon	0	0	0	0	1	4	0	1	0	0	0	0
Chungbuk	0	0	0	0	2	3	0	1	0	0	0	0
Chungnam	0	0	0	1	8	11	0	3	1	0	0	0
Jeonbuk	0	0	0	4	38	13	0	2	1	0	0	0
Jeonnam	0	0	0	1	39	31	0	1	1	0	0	0
Gyeongbuk	0	0	0	0	5	9	1	2	1	0	0	0
Gyeongnam	0	0	0	0	10	26	0	0	0	0	0	0
Jeju	0	1	0	0	5	5	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 March 20, 2021 (12th 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. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§
Overall	3	41	48	1	36	9	0	0	40	2	7	20
Seoul	0	1	3	0	5	3	0	0	13	0	0	1
Busan	0	0	1	0	2	0	0	0	3	0	0	1
Daegu	0	2	0	0	4	0	0	0	3	0	0	0
Incheon	0	1	1	0	3	0	0	0	2	0	0	0
Gwangju	0	2	1	0	1	0	0	0	0	0	0	1
Daejeon	0	0	0	0	1	0	0	0	0	0	0	1
Ulsan	0	0	0	0	0	0	0	0	1	0	0	1
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyonggi	1	6	16	0	10	2	0	0	12	0	1	4
Gangwon	0	3	3	1	3	1	0	0	1	0	0	0
Chungbuk	0	1	2	0	0	0	0	0	1	0	0	4
Chungnam	1	8	4	0	1	0	0	0	1	2	4	2
Jeonbuk	0	9	4	0	1	1	0	0	0	0	0	2
Jeonnam	0	3	4	0	0	0	0	0	1	0	1	1
Gyeongbuk	0	3	7	0	1	1	0	0	1	0	1	1
Gyeongnam	1	2	2	0	3	1	0	0	1	0	0	1
Jeju	0	0	0	0	1	0	0	0	0	0	0	0

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

* The reported data for year 2020, 2021 are provisional but the data from 2016 to 2019 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.

§ 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 March 20, 2021 (12th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III								
	Lyme Borreliosis			Severe fever with thrombocytopenia syndrome			Zika virus infection		
	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	Cum. 5-year average§	Current week	Cum. 2021	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	-
Gyonggi	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

* The reported data for year 2020, 2021 are provisional but the data from 2016 to 2019 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.

§ 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 March 20, 2021 (12th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 2.0 cases (=0.20%)
- Variation: decrease from 2.2 cases in 11th week of 2021
- Sentinel reporting sites: 200 hospitals/clinics
  ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

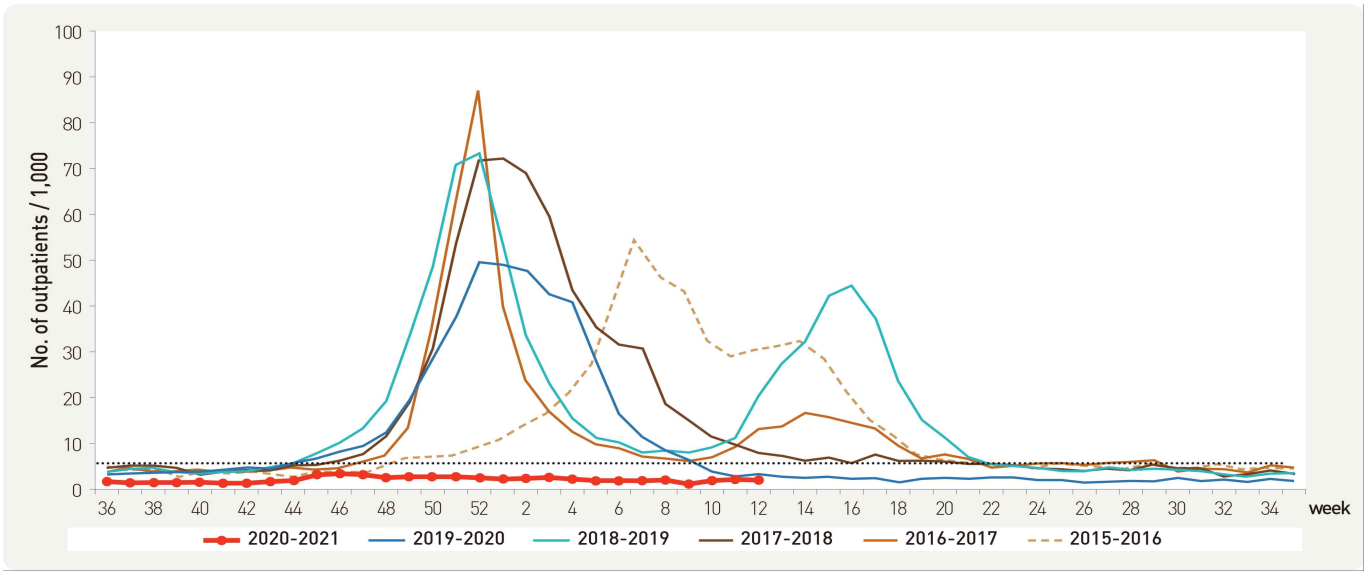


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending March 20, 2021 (12th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.3 case
- Variation: decrease from 0.4 case in 11th week of 2021
- Sentinel reporting sites: 97 hospitals/clinics

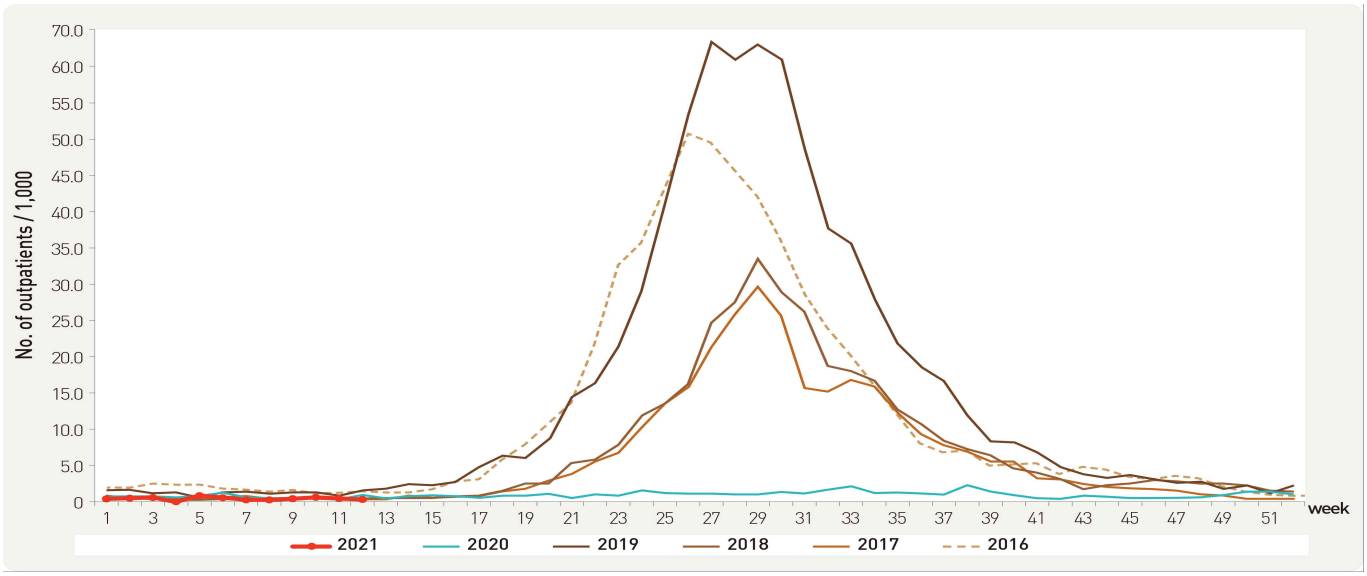


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2016-2021

3. Ophthalmologic infectious diseases, weeks ending March 20, 2021 (12th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 3.1 cases
- Variation: increase from 2.7 cases in 11th week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

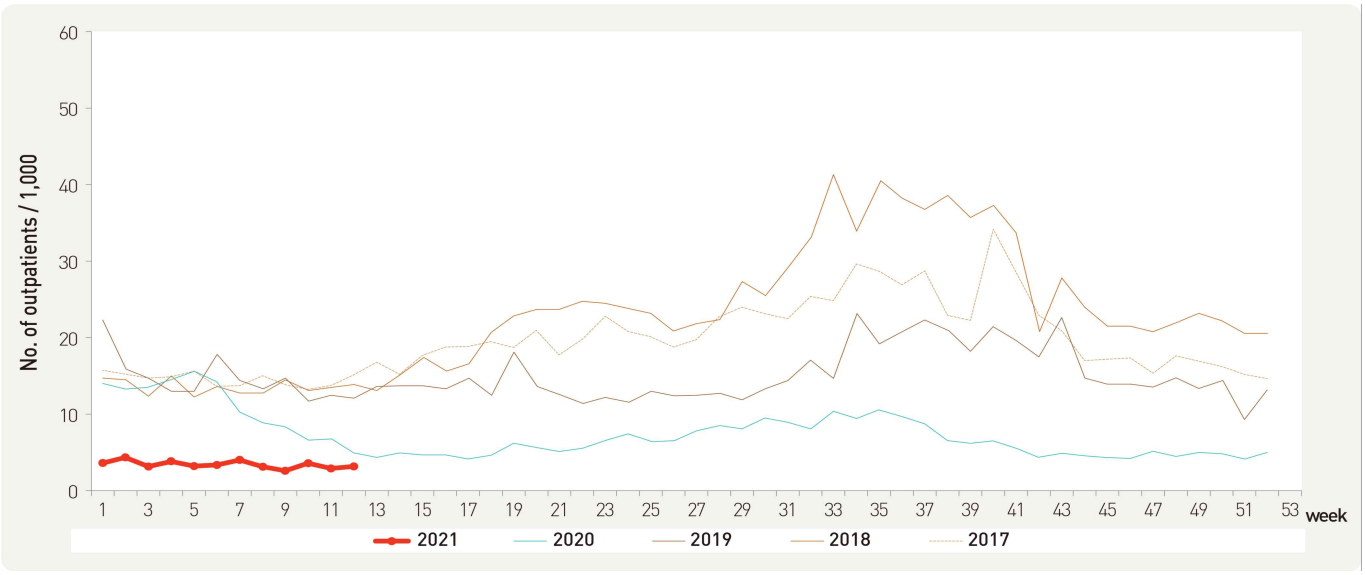


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2017-2021

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.4 case
- Variation: increase from 0.2 case in 11th week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

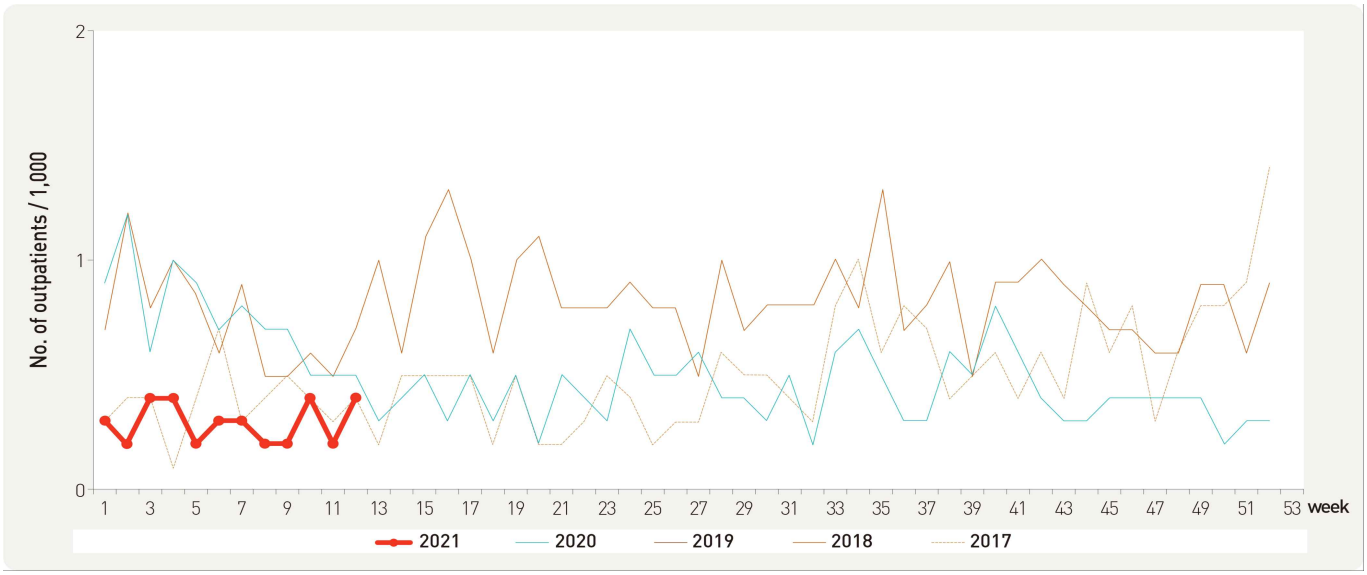


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2017-2021

4. Sexually Transmitted Diseases†, weeks ending March 20, 2021 (12th Week)

- Cases per sentinel: 4.3 for human Papilloma virus infection, 2.9 for genital herpes, 2.0 for chlamydia, 1.7 for condyloma acuminata, 1.1 for gonorrhea, 1.0 for primary Syphilis, 1.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 11th week of 2021
  Increase: genital herpes (2.8 → 2.9)
  Decrease: gonorrhea (1.2 → 1.1), chlamydia (2.6 → 2.0), condyloma acuminata (1.8 → 1.7), human Papilloma virus infection (4.4 → 4.3)
  No change: primary Syphilis (1.0 → 1.0), secondary Syphilis (1.0 → 1.0), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 12th week: 18 for gonorrhea, 35 for chlamydia, 35 for genital herpes, 18 for condyloma acuminata, 26 for human Papilloma virus infection, 2 for primary Syphilis, 2 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§
1.1	3.0	3.7	2.0	7.5	9.3	2.9	11.7	11.9	1.7	7.1	7.2

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§
4.3	25.5	4.0	1.0	1.5	0.3	1.0	1.5	0.3	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 March 20, 2021 (12th Week)

- No. of reported outbreaks: 12 with 118 patients (cumulative no. of outbreaks: 80 with 1,305 patients)
- Variation: increase from 9 in 11th week of 2021
- Reporting sites: 254 health centers

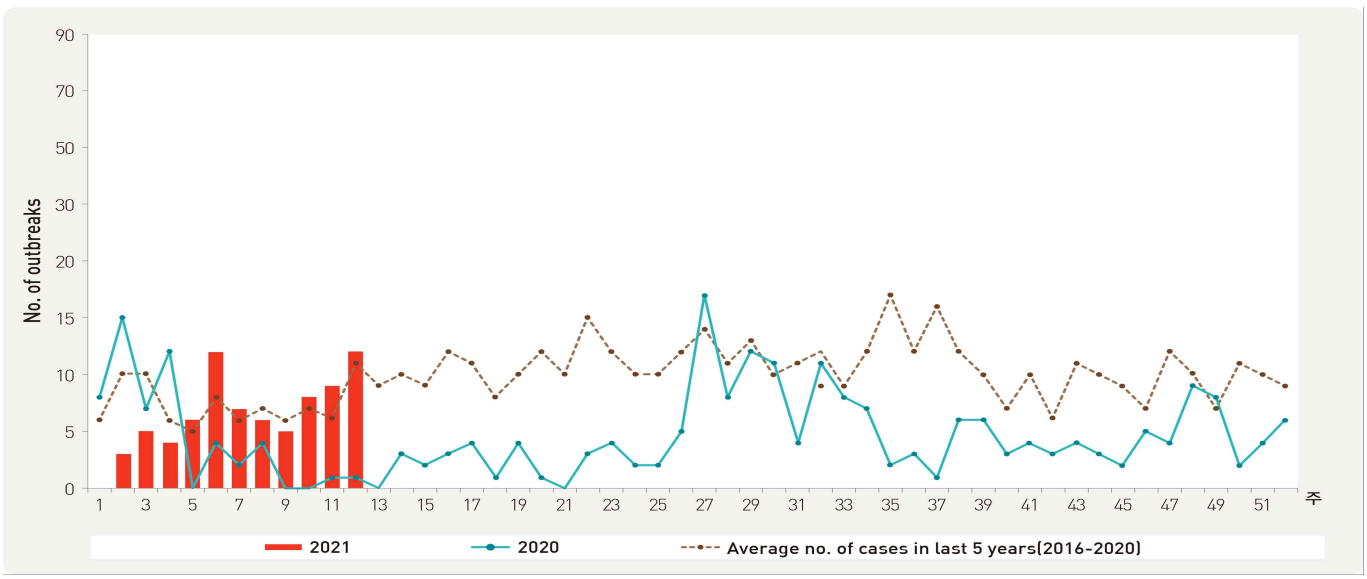


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2020-2021

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

1. Influenza viruses, weeks ending March 20, 2021 (12th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 112 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 82 specimens in 11th week of 2021
- Sentinel reporting sites: 52 hospitals/clinics

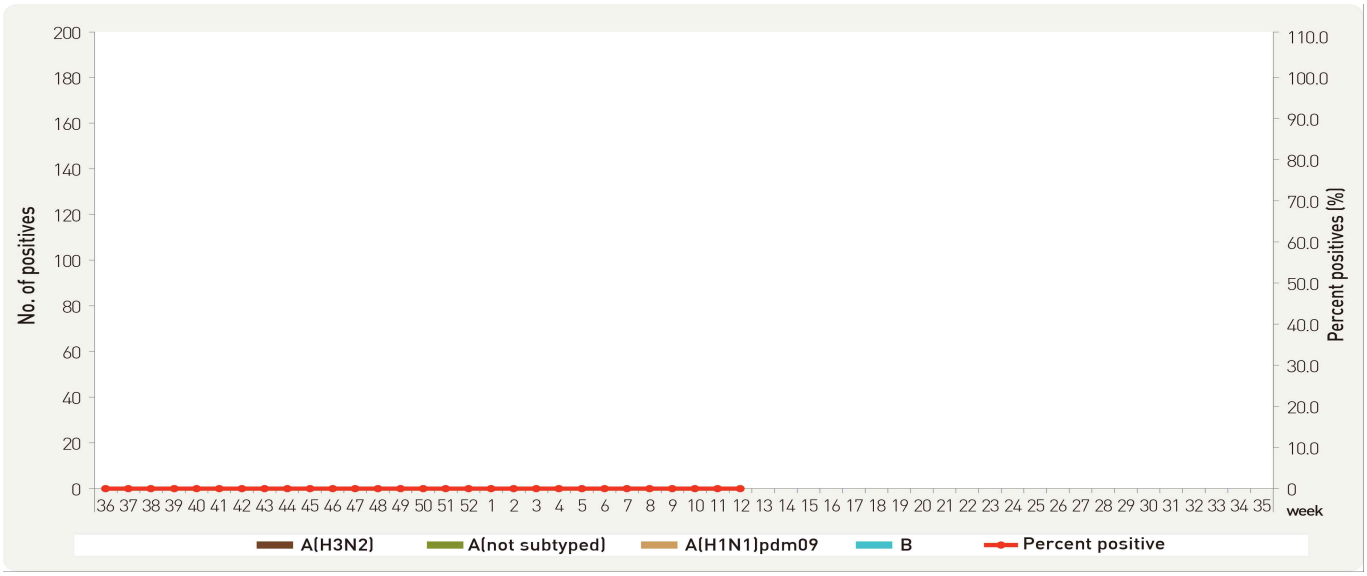


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending March 20, 2021 (12th Week)

- Detection rate: 63.4% (cumulative mean proportion during preceding three weeks plus current week: 51.0% out of 343 specimens)
- Variation (%p): increase from 47.6% in 11th week of 2021
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2021 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
9	72	41.7	12.5	0.0	0.0	0.0	0.0	20.8	8.3	0.0
10	77	45.5	7.8	0.0	0.0	0.0	0.0	27.3	10.4	0.0
11	82	47.6	4.9	0.0	0.0	0.0	0.0	36.6	6.1	0.0
12	112	63.4	7.1	0.0	0.0	0.0	0.0	49.1	7.1	0.0
Cum.※	343	51.0	7.9	0.0	0.0	0.0	0.0	35.3	7.9	0.0
2020 Cum.∀	5,819	48.6	6.5	0.4	3.1	12.0	3.4	18.4	3.5	1.4

- 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 February 21, 2021 – March 20, 2021 (Average no. of detected cases is 83 last 4 weeks)

∀ 2020 Cum. : the rate of detected cases between December 29, 2019 – December 26, 2020

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

1. Acute gastroenteritis-causing virus, weeks ending March 13, 2021 (11th Week)

- Detection rate: 34.0% (cumulative mean proportion in 2021: 302 cases [40.3%] out of 750 specimens]
- Variation (%p): increase from 16.9% in 10th week of 2021
- 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	
2021	8	85	36	(42.4)	4	(4.7)	0	(0.0)	0	(0.0)	0	(0.0)	40	(47.1)
	9	68	19	(27.9)	2	(2.9)	0	(0.0)	1	(1.5)	2	(2.9)	24	(35.3)
	10	65	11	(16.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	11	(16.9)
	11	50	15	(30.0)	0	(0.0)	0	(0.0)	2	(4.0)	0	(0.0)	17	(34.0)
Cum. 2021		750	273	(36.4)	17	(2.3)	7	(0.9)	3	(0.4)	2	(0.3)	302	(40.3)

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

2. Acute gastroenteritis-causing bacteria, weeks ending March 13, 2021 (11th Week)

- Detection rate: 9.4% (cumulative mean proportion in 2021: 213 cases [10.3%] out of 2,076 specimens)
- Variation (%p): increase from 9.1% in 10th week of 2021
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week		No. of Sample	No. of isolation (Isolation rate, %)									
			Salmonella spp.	Pathogenic *E.coli*	*Shigella* spp.	*V.parahaemolyticus*	*V. cholerae*	*Campylobacter* spp.	*C.perfringens*	*S. aureus*	*B. cereus*	Total
2021	8	218	1 (0.5)	2 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.5)	5 (2.3)	8 (3.7)	3 (1.4)	20 (9.2)
	9	191	1 (0.5)	3 (1.6)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.5)	4 (2.1)	7 (3.7)	1 (0.5)	17 (8.9)
	10	175	0 (0.0)	3 (1.7)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.1)	2 (1.1)	4 (2.3)	5 (2.9)	16 (9.1)
	11	138	3 (3.3)	2 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.4)	3 (2.2)	0 (0.0)	2 (1.4)	13 (9.4)
Cum. 2021		2,076	21 (1.0)	33 (1.6)	0 (0.0)	0 (0.0)	0 (0.0)	19 (1.0)	46 (2.2)	67 (3.2)	25 (1.2)	213 (10.3)

* 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 2021 (69 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending March 13, 2021 (11th Week)

- Detection rate: 0.0% (0 case / 6 specimens) (cumulative mean proportion in 2021: 1.0% [1 case / 100 specimens])
  - Aseptic meningitis: 0 case (Cum. 2021: 1 case)
  - HFMD and herpangina: 0 case (Cum. 2021: 0 case)
  - HFMD with complications: 0 case (Cum. 2021: 0 case)
  - Other: 0 case (Cum. 2021: 0 case)
- Variation (%p): no change from 0.0% in 10th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

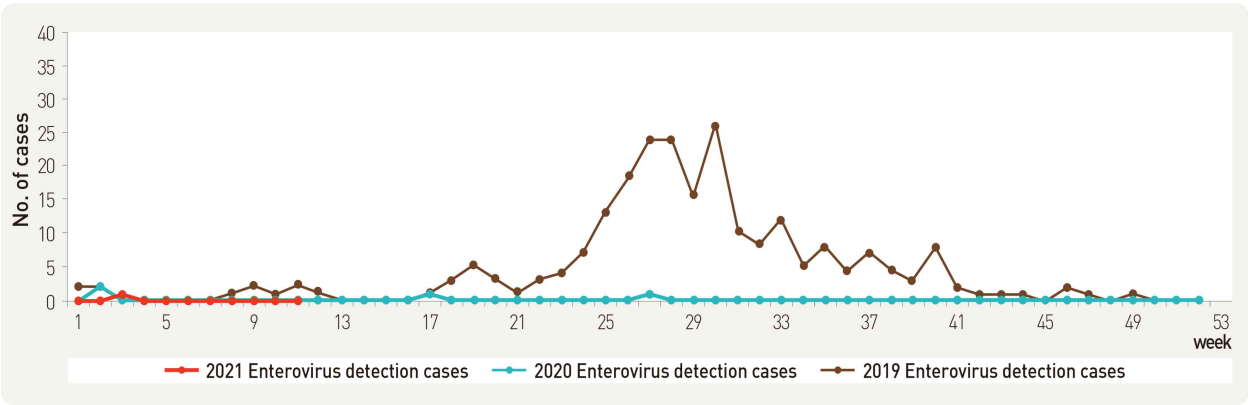


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

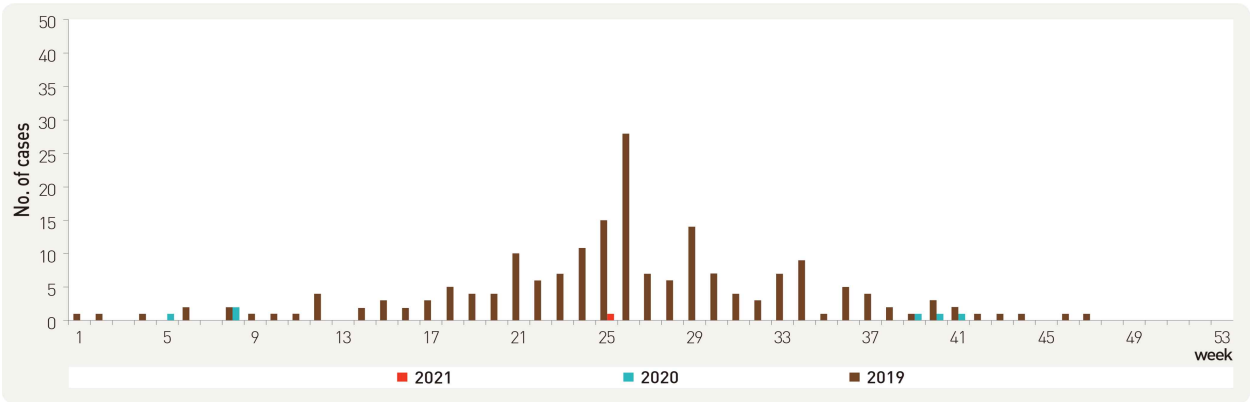


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

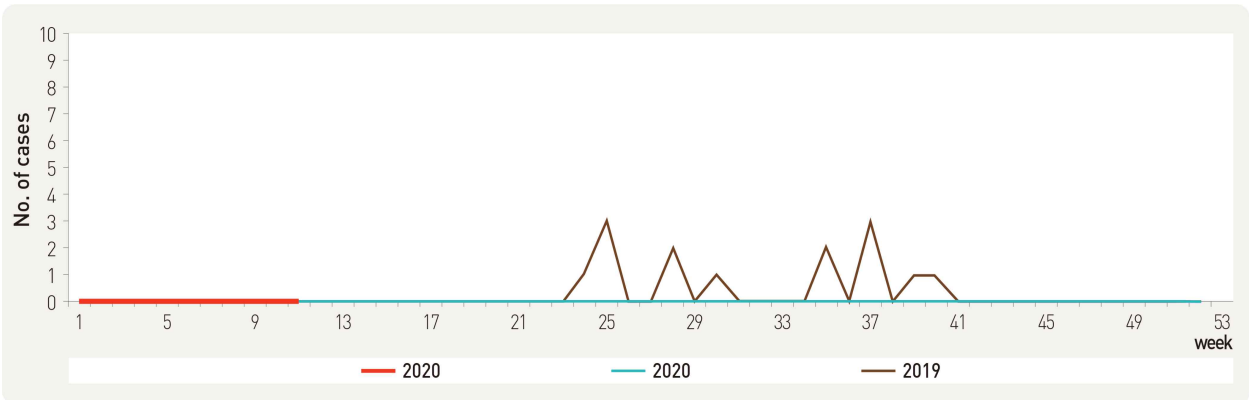


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

About PHWR Disease Surveillance Statistics

The Public Health Weekly Report (PHWR) Disease Surveillance Statistics is prepared by the Korea Disease Control and Prevention Agency (KCDA). 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 Disease Control and Prevention Agency. 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. 2021 – 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	**2021**			Current week		
	2020	X1	X2	X3	X4	X5
	2019	X6	X7	X8	X9	X10
	2018	X11	X12	X13	X14	X15
	2017	X16	X17	X18	X19	X20
	2016	X21	X22	X23	X24	X25

5-year weekly average for current week
= (X1 + X2 + ... + 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. 2021 and cum. 5-year average.

Contact Us

Questions or comments about the PHWR Disease Surveillance Statistics can be sent to phwrcdc@korea.kr or to the following:

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