

I. National Notifiable Infectious Diseases

1. Reported cases, week ending August 7, 2021 (32nd 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	391	11,925	511	19,933	23,821	26,433	28,161	30,892	
Varicella	479	13,270	925	31,430	82,868	96,467	80,092	54,060	
Measles	0	0	0	6	194	15	7	18	
Cholera	0	0	0	0	1	2	5	4	
Typhoid fever	11	90	2	39	94	213	128	121	
Paratyphoid fever	26	123	2	58	55	47	73	56	
Shigellosis	0	19	3	29	151	191	112	113	
EHEC	7	145	5	270	146	121	138	104	
Viral hepatitis A	85	3,894	169	3,989	17,598	2,437	4,419	4,679	
Pertussis	0	13	12	123	496	980	318	129	
Mumps	107	5,107	258	9,922	15,967	19,237	16,924	17,057	
Rubella	0	0	0	0	8	0	7	11	
Meningococcal disease	0	0	0	5	16	14	17	6	
Pneumococcal disease	1	153	4	345	526	670	523	441	
Hansen's disease	0	3	0	3	4				
Scarlet fever	12	449	143	2,300	7,562	15,777	22,838	11,911	
VRSA	0	1	0	9	3	0	0	-	
CRE	196	9,521	317	18,113	15,369	11,954	5,717	-	
Viral hepatitis E	5	255	8	191	-	-	-	-	
Category III									
Tetanus	1	18	1	30	31	31	34	24	
Viral hepatitis B	5	252	7	382	389	392	391	359	
Japanese encephalitis	0	0	0	7	34	17	9	28	
Viral hepatitis C	102	6,303	208	11,849	9,810	10,811	6,396	-	
Malaria	11	201	26	385	559	576	515	673	
Legionellosis	5	214	8	368	501	305	198	128	
<i>Vibrio vulnificus</i> sepsis	1	9	3	70	42	47	46	56	
Murine typhus	2	12	0	1	14	16	18	18	
Scrub typhus	17	545	28	4,479	4,005	6,668	10,528	11,105	
Leptospirosis	5	86	3	114	138	118	103	117	
Brucellosis	0	3	0	8	1	5	6	4	
HFRS	2	126	7	270	399	433	531	575	
HIV/AIDS	9	421	26	821	1,005	989	1,008	1,060	
CJD	4	66	1	64	53	53	36	42	
Dengue fever	0	1	6	43	273	159	171	313	
Q fever	0	29	2	69	162	163	96	81	
Lyme Borreliosis	0	0	1	18	23	23	31	27	
Melioidosis	0	0	0	1	8	2	2	4	
Chikungunya fever	0	0	0	1	16	3	5	10	
SFTS	1	66	9	243	223	259	272	165	
Zika virus infection	0	0	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 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 influenzae* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending August 7, 2021 (32nd 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	391	11,925	16,226	479	13,270	42,084	0	0	40	0	0	0
Seoul	53	1,928	2,926	65	1,629	4,675	0	0	5	0	0	0
Busan	39	826	1,103	13	847	2,367	0	0	2	0	0	0
Daegu	21	579	768	13	593	2,273	0	0	2	0	0	0
Incheon	14	602	856	26	697	2,069	0	0	2	0	0	0
Gwangju	8	273	407	19	479	1,466	0	0	0	0	0	0
Daejeon	8	265	359	8	360	1,182	0	0	5	0	0	0
Ulsan	6	219	338	10	279	1,252	0	0	0	0	0	0
Sejong	0	56	57	6	164	465	0	0	15	0	0	0
Gyeonggi	99	2,696	3,498	173	3,841	11,688	0	0	0	0	0	0
Gangwon	22	510	691	11	370	1,096	0	0	1	0	0	0
Chungbuk	13	401	506	26	461	1,162	0	0	0	0	0	0
Chungnam	24	597	780	19	510	1,555	0	0	1	0	0	0
Jeonbuk	14	473	641	6	487	1,716	0	0	1	0	0	0
Jeonnam	14	668	854	12	731	1,647	0	0	2	0	0	0
Gyeongbuk	32	894	1,172	18	617	2,309	0	0	2	0	0	0
Gyeongnam	21	795	1,059	47	983	4,014	0	0	2	0	0	0
Jeju	3	143	209	7	222	1,148	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 August 7, 2021 (32nd Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Typhoid fever			Paratyphoid fever			Shigellosis			Enterohemorrhagic <i>Escherichia coli</i>		
	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	11	90	85	26	123	34	0	19	75	7	145	106
Seoul	0	5	17	0	0	5	0	2	18	0	16	12
Busan	0	13	8	8	50	4	0	1	5	2	7	3
Daegu	0	2	3	0	5	3	0	0	4	0	5	4
Incheon	0	2	6	0	2	2	0	0	6	0	4	6
Gwangju	0	2	1	2	8	2	0	1	2	0	30	8
Daejeon	0	11	3	0	1	1	0	0	1	0	8	2
Ulsan	0	4	3	2	4	0	0	0	1	0	1	4
Sejong	0	0	1	0	1	0	0	0	0	0	3	1
Gyeonggi	6	25	20	2	14	6	0	6	16	3	26	36
Gangwon	1	3	2	0	6	1	0	1	2	0	3	4
Chungbuk	1	2	2	0	1	1	0	0	1	0	4	2
Chungnam	2	4	4	0	0	1	0	0	5	0	2	3
Jeonbuk	0	0	1	0	0	2	0	0	2	0	3	2
Jeonnam	1	3	2	11	16	2	0	5	3	1	13	6
Gyeongbuk	0	3	4	0	3	1	0	1	5	1	11	5
Gyeongnam	0	11	6	1	8	2	0	0	3	0	5	3
Jeju	0	0	2	0	4	1	0	2	1	0	4	5

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† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending August 7, 2021 (32nd 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	85	3,894	4,436	0	13	222	107	5,107	10,312	0	0	2
Seoul	21	768	848	0	0	28	7	605	1,183	0	0	1
Busan	1	53	166	0	0	18	4	291	607	0	0	0
Daegu	1	43	71	0	0	7	1	231	389	0	0	0
Incheon	12	328	310	0	2	14	6	255	500	0	0	0
Gwangju	2	68	69	0	0	11	3	151	423	0	0	0
Daejeon	1	92	430	0	0	6	3	162	292	0	0	0
Ulsan	0	16	33	0	0	6	0	164	329	0	0	0
Sejong	0	28	68	0	0	3	0	48	52	0	0	0
Gyeonggi	33	1,666	1,348	0	4	37	38	1,493	2,817	0	0	1
Gangwon	2	81	81	0	0	2	8	199	338	0	0	0
Chungbuk	7	150	215	0	1	6	3	121	259	0	0	0
Chungnam	4	247	336	0	0	4	4	221	444	0	0	0
Jeonbuk	0	104	164	0	0	5	3	228	475	0	0	0
Jeonnam	1	77	88	0	0	13	6	242	441	0	0	0
Gyeongbuk	0	56	85	0	4	15	7	214	525	0	0	0
Gyeongnam	0	28	102	0	2	44	11	395	1,080	0	0	0
Jeju	0	89	22	0	0	3	3	87	158	0	0	0

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† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. (Continued) Reported cases by geography, week ending August 7, 2021 (32nd 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	9	12	449	8,272	1	18	17	5	252	228
Seoul	0	0	2	0	49	1,125	0	3	1	1	24	40
Busan	0	0	0	1	27	587	0	1	2	0	13	16
Daegu	0	0	1	0	7	274	0	2	1	0	8	8
Incheon	0	0	1	0	25	395	0	0	0	0	15	12
Gwangju	0	0	0	3	65	414	0	0	1	0	11	5
Daejeon	0	0	0	0	6	304	0	1	1	0	3	9
Ulsan	0	0	0	0	19	367	0	0	0	0	4	5
Sejong	0	0	0	0	2	48	0	0	0	0	4	0
Gyeonggi	0	0	2	7	120	2,405	0	2	2	3	90	54
Gangwon	0	0	1	0	6	131	0	0	0	0	9	7
Chungbuk	0	0	0	0	10	147	1	3	0	0	6	8
Chungnam	0	0	0	0	14	358	0	2	2	0	21	12
Jeonbuk	0	0	0	0	9	283	0	1	1	0	8	13
Jeonnam	0	0	0	0	26	311	0	0	3	0	9	12
Gyeongbuk	0	0	1	1	18	416	0	2	2	0	10	11
Gyeongnam	0	0	1	0	33	608	0	1	1	1	13	14
Jeju	0	0	0	0	13	99	0	0	0	0	4	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 August 7, 2021 (32nd Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Japanese encephalitis			Malaria			Legionellosis			<i>Vibrio vulnificus</i> 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	11	201	364	5	214	167	1	9	10
Seoul	0	0	0	0	19	55	0	41	46	0	0	2
Busan	0	0	0	0	1	4	0	5	10	0	2	0
Daegu	0	0	0	0	0	5	0	15	6	0	0	0
Incheon	0	0	0	3	28	47	1	11	12	0	1	1
Gwangju	0	0	0	0	0	4	0	6	3	0	0	0
Daejeon	0	0	0	1	3	2	0	2	2	0	0	0
Ulsan	0	0	0	0	2	2	0	3	2	0	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	6	134	208	3	45	38	0	2	1
Gangwon	0	0	0	0	5	13	0	2	5	0	0	0
Chungbuk	0	0	0	0	2	3	0	5	7	0	1	0
Chungnam	0	0	0	1	2	4	0	3	5	0	0	2
Jeonbuk	0	0	0	0	0	2	0	12	4	0	0	0
Jeonnam	0	0	0	0	2	2	0	18	6	0	1	2
Gyeongbuk	0	0	0	0	2	4	0	9	11	0	0	0
Gyeongnam	0	0	0	0	1	6	1	9	6	1	1	2
Jeju	0	0	0	0	0	2	0	28	4	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 August 7, 2021 (32nd 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	2	12	5	17	545	753	5	86	38	0	3	2
Seoul	0	0	1	0	14	32	0	1	2	0	0	1
Busan	0	0	0	0	21	28	0	4	2	0	0	0
Daegu	0	0	0	0	14	6	0	1	0	0	0	0
Incheon	1	8	1	0	6	14	0	3	0	0	0	0
Gwangju	0	0	1	0	12	17	0	2	1	0	0	0
Daejeon	0	0	0	0	6	17	0	3	1	0	0	0
Ulsan	0	0	0	0	5	17	0	1	1	0	0	0
Sejong	0	0	0	0	1	3	0	0	0	0	0	0
Gyeonggi	0	2	0	0	40	69	2	19	7	0	2	0
Gangwon	0	0	0	1	7	16	0	13	2	0	0	0
Chungbuk	0	0	0	1	10	15	1	10	2	0	0	0
Chungnam	0	0	1	0	42	73	0	11	5	0	0	0
Jeonbuk	0	0	0	5	145	75	0	6	3	0	0	1
Jeonnam	0	0	1	8	136	190	1	3	5	0	1	0
Gyeongbuk	1	1	0	0	8	46	0	7	3	0	0	0
Gyeongnam	0	0	0	2	71	126	1	2	3	0	0	0
Jeju	0	1	0	0	7	9	0	0	1	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 August 7, 2021 (32nd 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	2	126	171	4	66	30	0	1	107	0	29	72
Seoul	0	1	7	0	6	8	0	0	35	0	1	4
Busan	0	0	5	0	7	2	0	0	7	0	1	1
Daegu	1	5	2	0	4	1	0	0	6	0	0	1
Incheon	0	2	2	0	4	1	0	0	6	0	1	1
Gwangju	0	2	2	0	1	1	0	0	1	0	1	3
Daejeon	0	1	3	0	6	1	0	0	1	0	3	2
Ulsan	0	0	1	0	0	0	0	0	2	0	1	2
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	14	40	1	14	7	0	0	30	0	2	11
Gangwon	1	11	8	1	5	1	0	1	2	0	0	0
Chungbuk	0	1	11	1	4	1	0	0	2	0	5	15
Chungnam	0	15	19	0	2	1	0	0	3	0	9	9
Jeonbuk	0	46	17	1	3	1	0	0	2	0	1	4
Jeonnam	0	16	27	0	3	1	0	0	2	0	1	10
Gyeongbuk	0	6	18	0	1	2	0	0	3	0	1	3
Gyeongnam	0	6	8	0	6	2	0	0	3	0	2	6
Jeju	0	0	1	0	0	0	0	0	2	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 August 7, 2021 (32nd 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	12	1	66	104	0	0	-
Seoul	0	0	5	0	4	3	0	0	-
Busan	0	0	0	0	0	1	0	0	-
Daegu	0	0	0	0	1	2	0	0	-
Incheon	0	0	1	0	0	2	0	0	-
Gwangju	0	0	0	0	0	0	0	0	-
Daejeon	0	0	0	0	1	1	0	0	-
Ulsan	0	0	0	0	3	2	0	0	-
Sejong	0	0	0	0	1	0	0	0	-
Gyeonggi	0	0	2	1	16	14	0	0	-
Gangwon	0	0	1	0	2	15	0	0	-
Chungbuk	0	0	0	0	2	2	0	0	-
Chungnam	0	0	1	0	10	12	0	0	-
Jeonbuk	0	0	1	0	3	7	0	0	-
Jeonnam	0	0	0	0	5	8	0	0	-
Gyeongbuk	0	0	1	0	9	14	0	0	-
Gyeongnam	0	0	0	0	6	14	0	0	-
Jeju	0	0	0	0	3	7	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 August 7, 2021 (32nd Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 1.6 cases (=0.16%)
- Variation: increase from 1.2 cases in 31st week of 2021
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

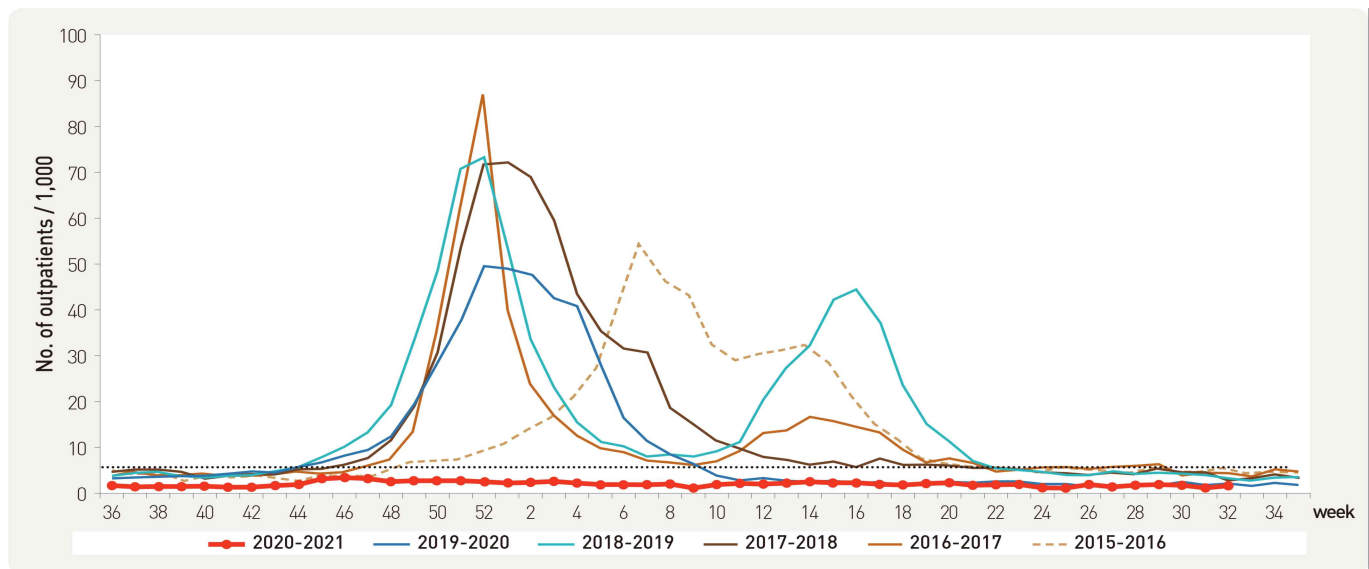


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending August 7, 2021 (32nd Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 1.0 case
- Variation: increase from 0.8 case in 31st week of 2021
- Sentinel reporting sites: 97 hospitals/clinics

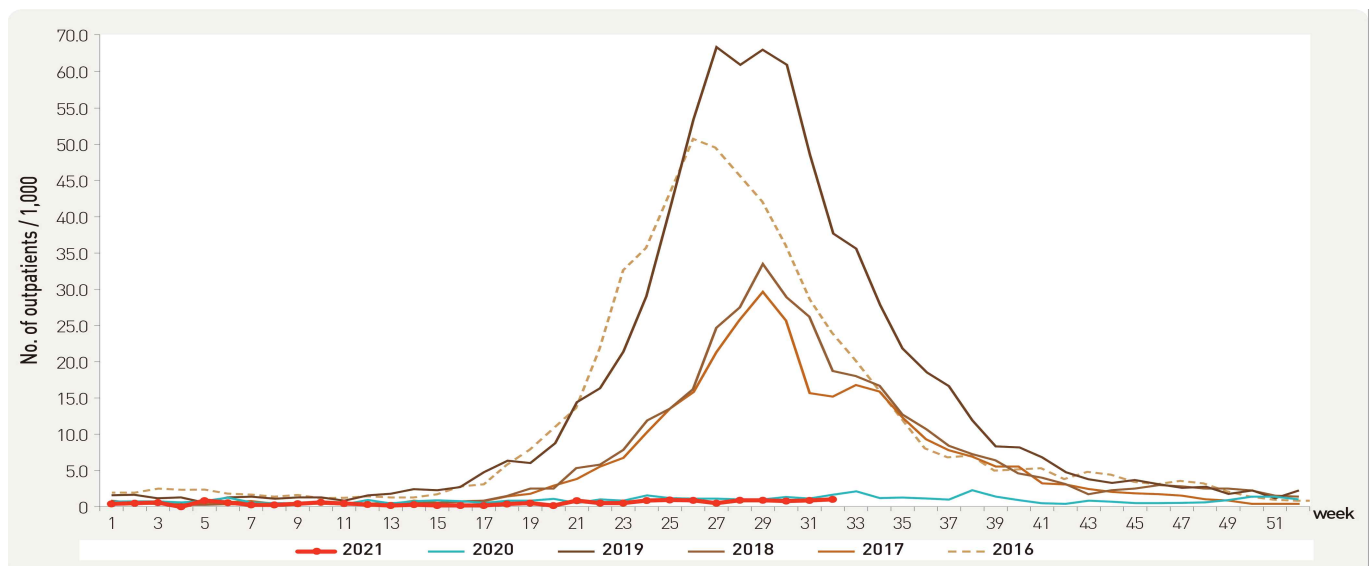


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2016-2021

3. Ophthalmologic infectious diseases, weeks ending August 7, 2021 (32nd Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.2 cases
- Variation: decrease from 5.1 cases in 31st week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

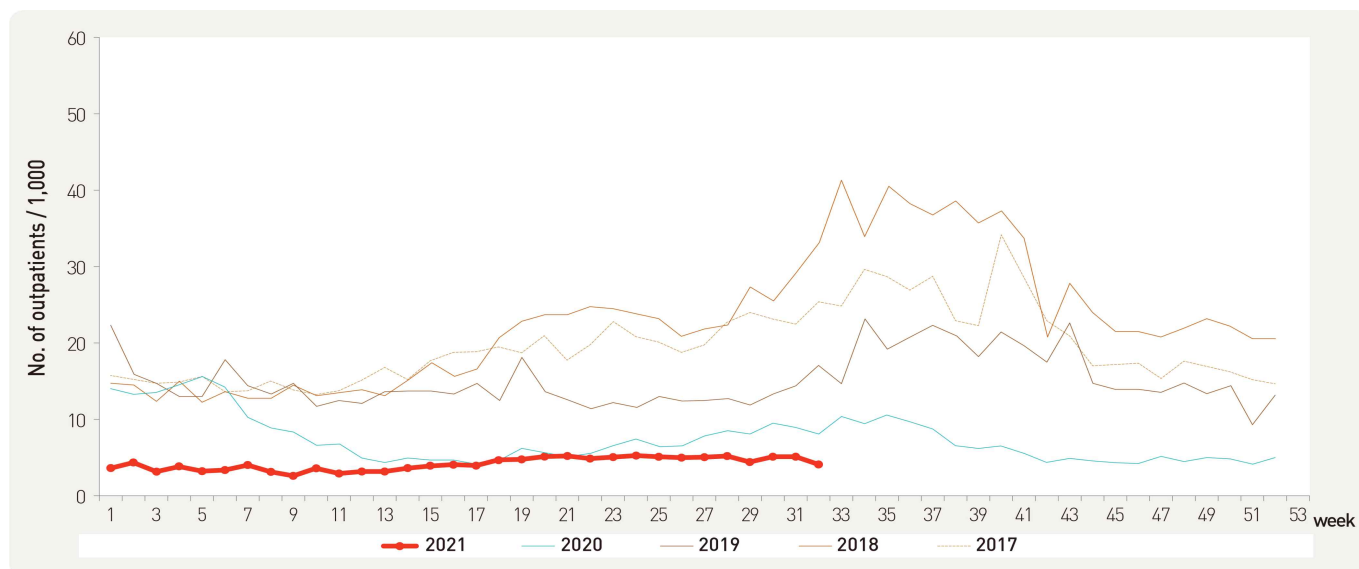


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2017-2021

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.6 case
- Variation: increase from 0.5 case in 31st week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

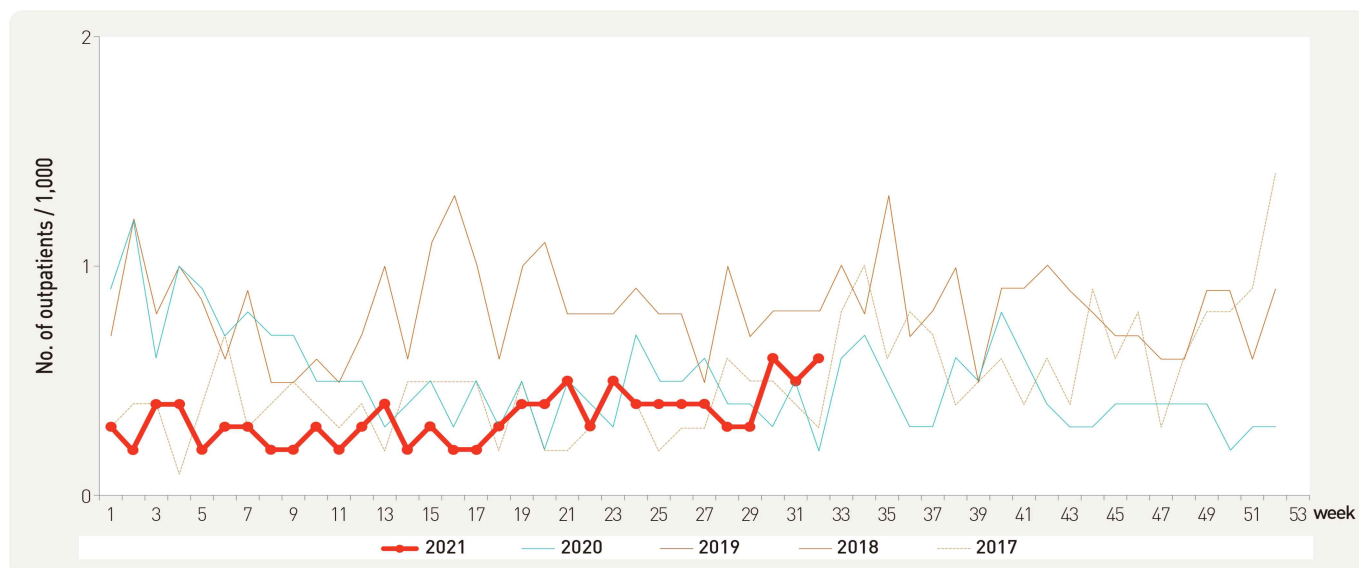


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2017-2021

4. Sexually Transmitted Diseases[†], weeks ending August 7, 2021 (32nd Week)

- Cases per sentinel: 4.2 for human Papilloma virus infection, 2.8 for genital herpes, 2.2 for condyloma acuminata, 2.1 for chlamydia, 1.7 for secondary Syphilis, 1.2 for gonorrhea, 1.0 for primary Syphilis, 0.0 for congenital Syphilis
- Variation from 31st week of 2021
 Increase: chlamydia (1.8 → 2.1), condyloma acuminata (1.9 → 2.2), human Papilloma virus infection (4.1 → 4.2), secondary Syphilis (1.0 → 1.7)
 Decrease: genital herpes (2.9 → 2.8)
 No change: gonorrhea (1.2 → 1.2), primary Syphilis (1.0 → 1.0), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 588 hospitals/clinics
 ※ No. of reported sites in 32nd week: 13 for gonorrhea, 40 for chlamydia, 37 for genital herpes, 23 for condyloma acuminata, 26 for human Papilloma virus infection, 2 for primary Syphilis, 3 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	5.9	7.1	2.1	17.6	21.5	2.8	29.3	27.8	2.2	16.4	16.3

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 [§]
4.2	60.9	10.5	1.0	2.0	0.4	1.7	2.4	0.5	0.0	1.0	0.2

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 August 7, 2021 (32nd Week)

- No. of reported outbreaks: 9 with 116 patients (cumulative no. of outbreaks: 324 with 4,997 patients)
- Variation: increase from 6 in 31st week of 2021
- Reporting sites: 254 health centers

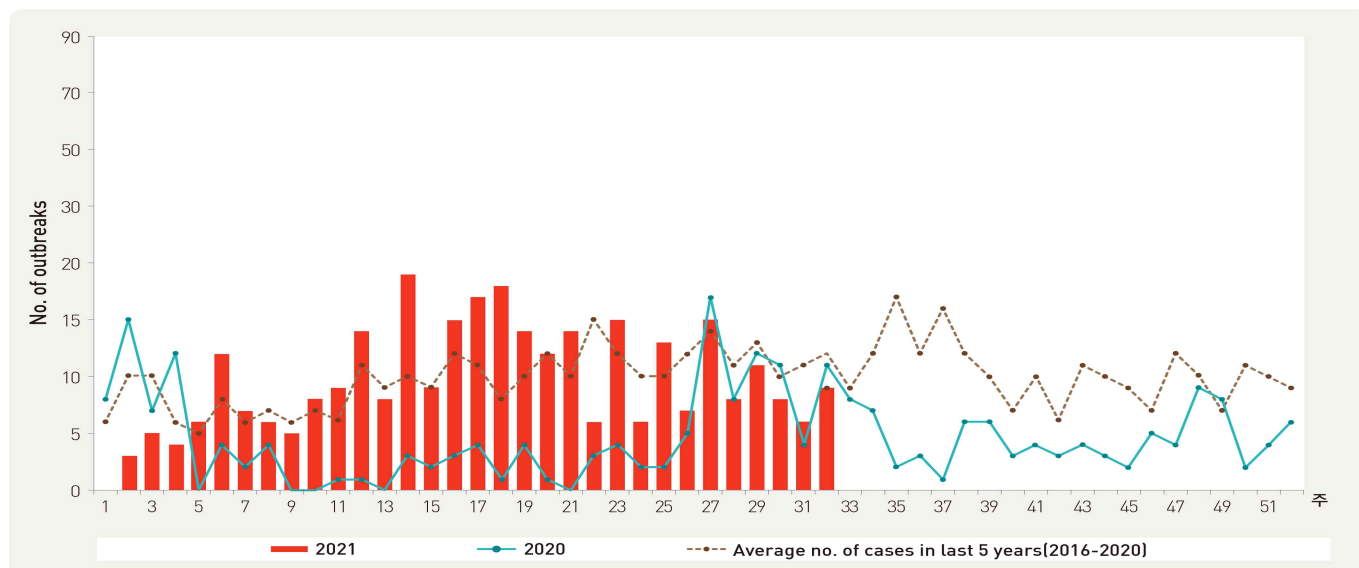


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2020-2021

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

1. Influenza viruses, weeks ending August 7, 2021 (32nd Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 46 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 56 specimens in 31st week of 2021
- Sentinel reporting sites: 63 hospitals/clinics

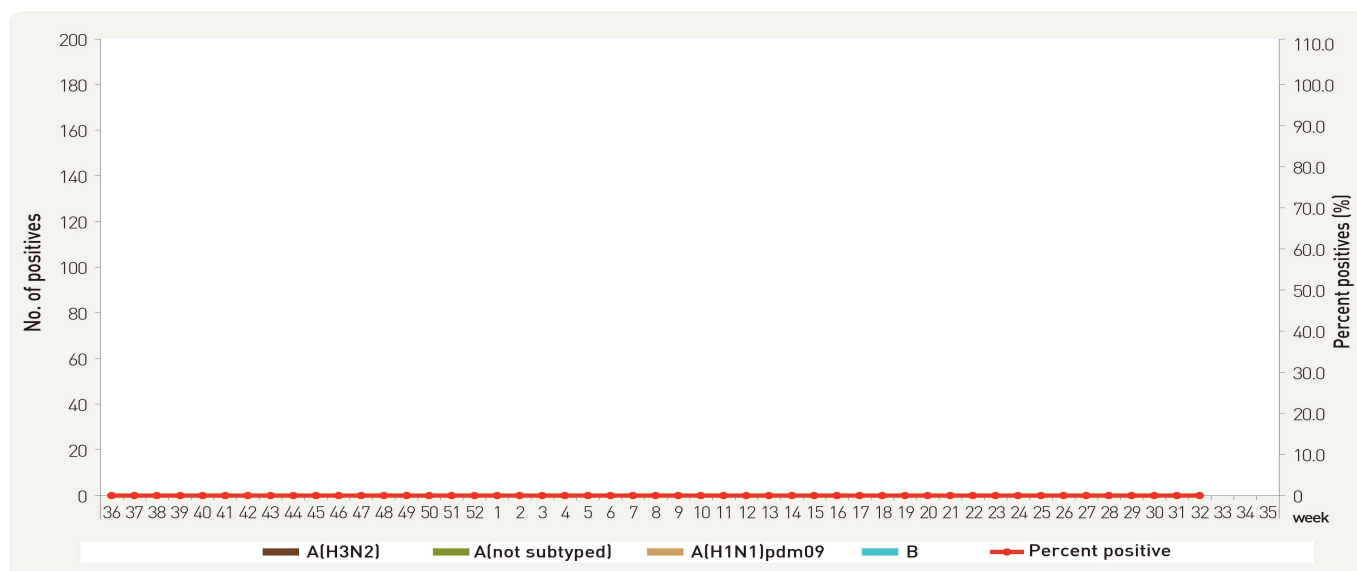


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending August 7, 2021 (32nd Week)

- Detection rate: 47.8% (cumulative mean proportion during preceding three weeks plus current week: 58.5% out of 258 specimens)
- Variation (%p): increase from 44.6% in 31st 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
29	85	67.1	8.2	0.0	0.0	0.0	0.0	50.6	8.2	0.0
30	71	66.2	5.6	0.0	0.0	0.0	0.0	52.1	8.5	0.0
31	56	44.6	5.4	0.0	0.0	0.0	0.0	32.1	7.1	0.0
32	46	47.8	13.0	0.0	0.0	0.0	0.0	28.3	6.5	0.0
Cum.*	258	58.5	7.8	0.0	0.0	0.0	0.0	43.0	7.8	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 July 11, 2021 – August 7, 2021 (Average no. of detected cases is 65 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 July 31, 2021 (31st Week)

- Detection rate: 21.6% (cumulative mean proportion in 2021: 729 cases [33.9%] out of 2,152 specimens)
- Variation (%p): increase from 11.3% in 30th 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 28	56	4	(7.1)	0	(0.0)	0	(0.0)	4	(7.1)	0	(0.0)	8	(14.3)
29	49	8	(16.3)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	8	(16.3)
30	53	2	(3.8)	0	(0.0)	0	(0.0)	4	(7.5)	0	(0.0)	6	(11.3)
31	37	5	(13.5)	0	(0.0)	3	(8.1)	0	(0.0)	0	(0.0)	8	(21.6)
Cum. 2021	2,152	574	(26.7)	22	(1.0)	36	(1.7)	98	(4.6)	2	(0.1)	729	(33.9)

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

2. Acute gastroenteritis-causing bacteria, weeks ending July 31, 2021 (31st Week)

- Detection rate: 10.2% (cumulative mean proportion in 2021: 921 cases [14.7%] out of 6,257 specimens)
- Variation (%p): decrease from 27.6% in 30th 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, %)									
			<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
2021	28	198	3 (1.5)	8 (4.0)	0 (0.0)	0 (0.0)	0 (0.0)	5 (2.5)	2 (1.0)	5 (2.5)	3 (1.5)	26 (13.1)
	29	209	5 (2.4)	8 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	14 (6.7)	6 (2.9)	1 (0.5)	6 (2.9)	40 (19.1)
	30	203	8 (3.9)	21 (10.3)	0 (0.0)	0 (0.0)	0 (0.0)	7 (3.4)	3 (1.5)	12 (5.9)	4 (2.0)	56 (27.6)
	31	98	2 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2 (2.0)	0 (0.0)	2 (2.0)	4 (4.1)	10 (10.2)
Cum. 2021		6,257	119 (1.9)	196 (3.1)	3 (0.05)	0 (0.0)	0 (0.0)	123 (2.0)	148 (2.4)	231 (3.7)	87 (1.4)	921 (14.7)

* 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 July 31, 2021 (31st Week)

- Detection rate: 0.0% (0 case / 3 specimens) (cumulative mean proportion in 2021: 1.2% [3 cases / 259 specimens])
 - Aseptic meningitis: 0 case (Cum. 2021: 1 case)
 - HFMD and herpangina: 0 case (Cum. 2021: 1 case)
 - HFMD with complications: 0 case (Cum. 2021: 0 case)
 - Other: 0 case (Cum. 2021: 1 case)
- Variation (%p): no change from 0.0% in 30th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

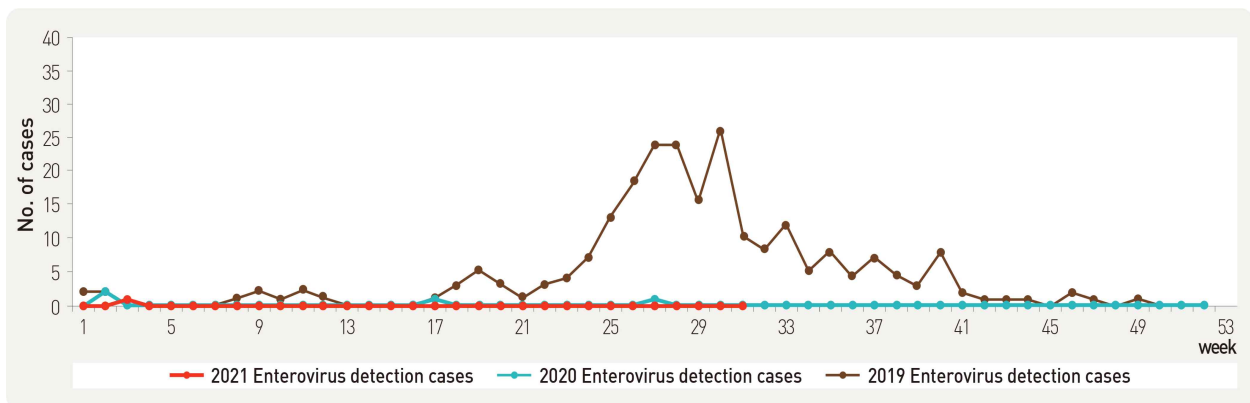


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

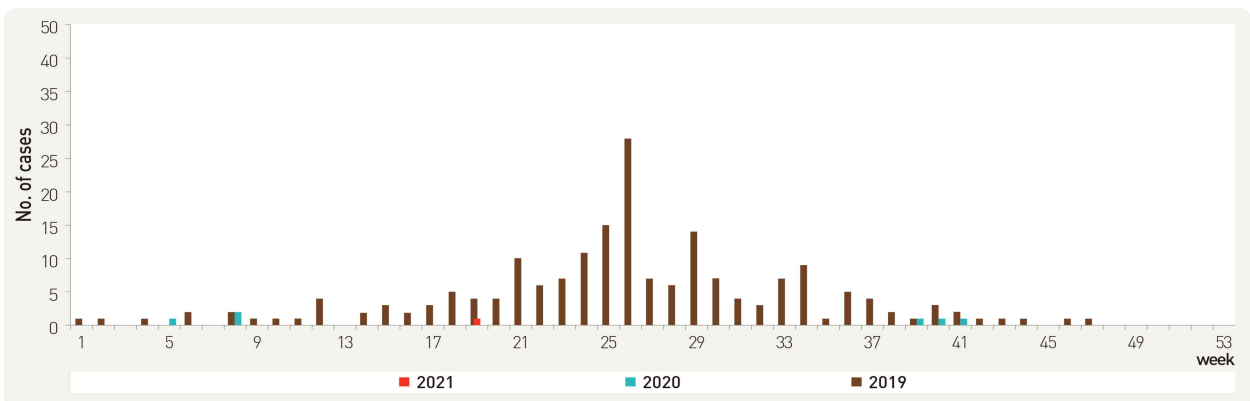


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

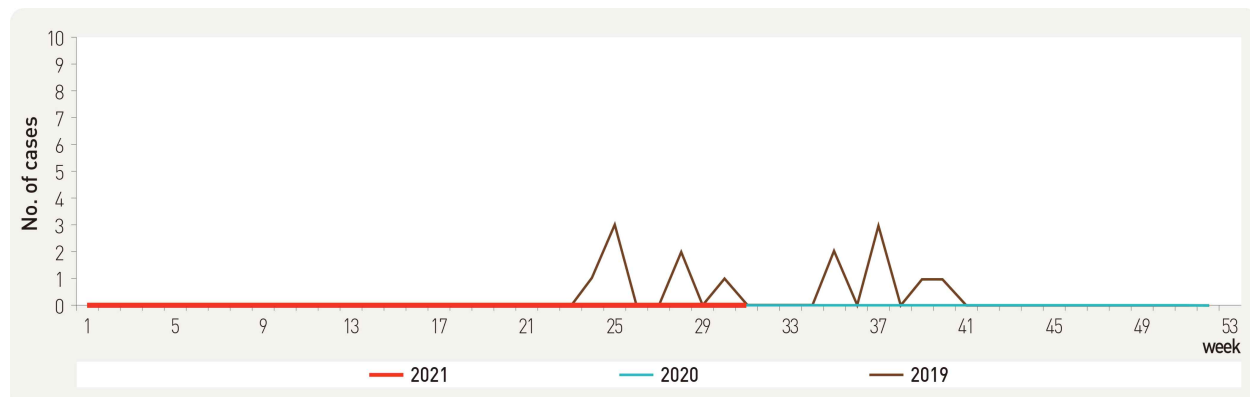


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending July 31, 2021 (31st Week)

- No. of malaria vector mosquitoes: 4
- Variation: decrease from 9 in 30th week of 2021
- Sentinel reporting sites: 3 city/province (50 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

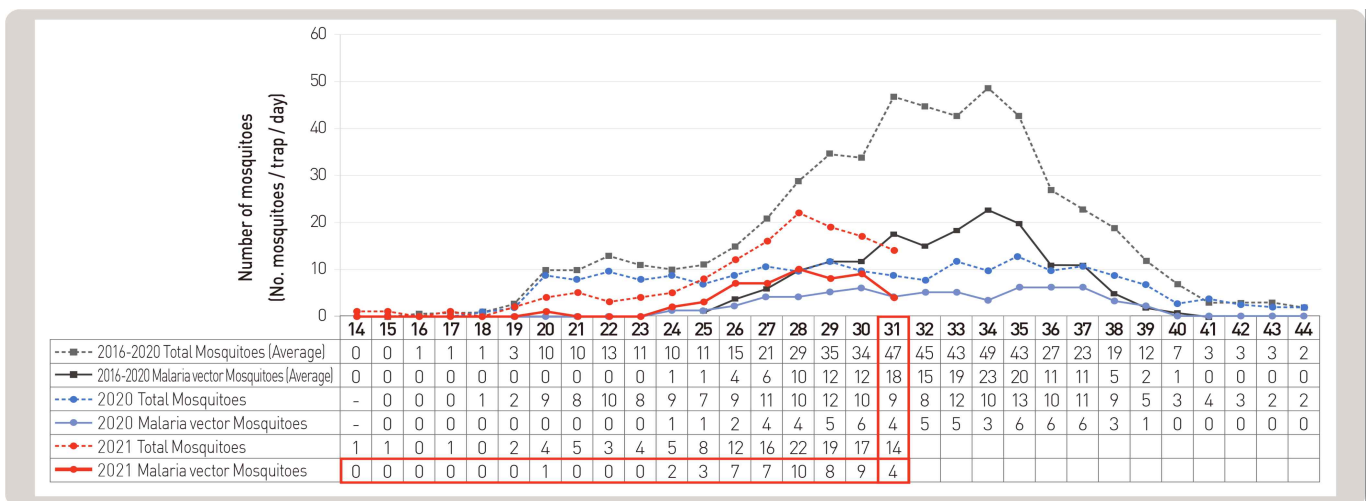


Figure 10. Weekly incidences of malaria vector mosquitoes in 2021

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending August 7, 2021 (32nd Week)

- No. of Japanese encephalitis vector mosquitoes: 70
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 24 in 31st week of 2021
- Sentinel reporting sites: 9 city/provincial health and environmental institutes (9 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

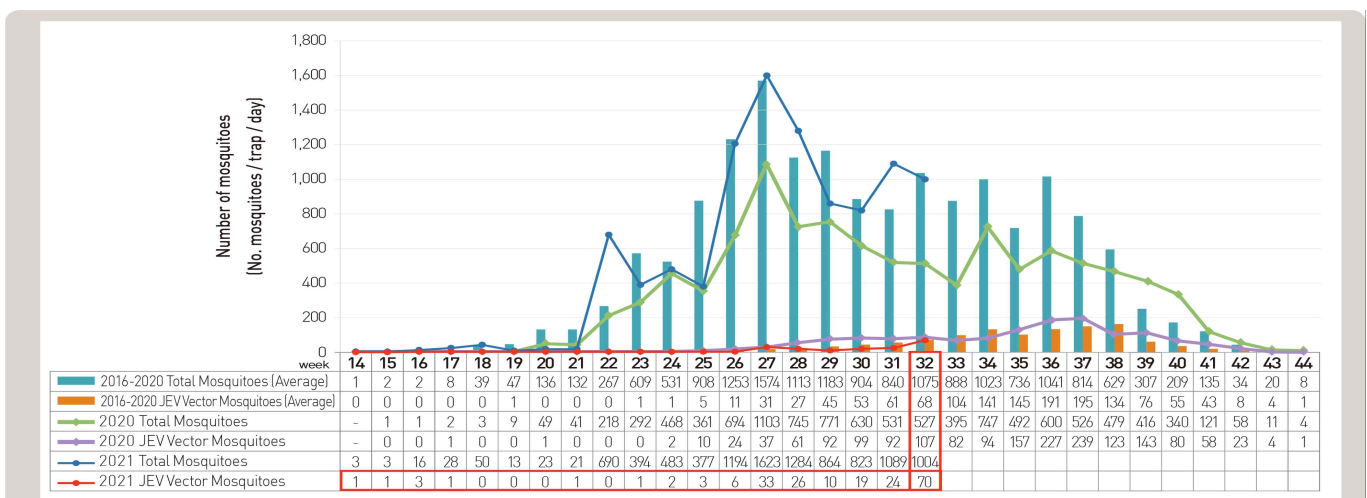


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2021

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 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	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

$$= (X1 + X2 + \dots + X25) / 5$$

- **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. 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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