Korea Disease Control and Prevention Agency

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 14, No. 31 July 29, 2021

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending July 24, 2021 (30th 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	452	11,257	521	19,933	23,821	26,433	28,161	30,892	
Varicella	416	12,125	1,136	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	10	76	2	39	94	213	128	121	
Paratyphoid fever	11	66	1	58	55	47	73	56	
Shigellosis	3	18	3	29	151	191	112	113	
EHEC	7	114	6	270	146	121	138	104	
Viral hepatitis A	106	3,629	168	3,989	17,598	2,437	4,419	4,679	
Pertussis	0	11	12	123	496	980	318	129	
Mumps	120	4,880	299	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	4	146	6	345	526	670	523	441	
Hansen's disease	0	3	0	3	4				
Scarlet fever	23	426	178	2,300	7,562	15,777	22,838	11,911	
VRSA	0	1	0	9	3	0	0	-	
CRE	234	10,568	310	18,113	15,369	11,954	5,717	-	
Viral hepatitis E	11	240	8	191	-	-	-	-	
Category Ⅲ									
Tetanus	0	15	1	30	31	31	34	24	
Viral hepatitis B	7	236	8	382	389	392	391	359	
Japanese encephalitis	0	0	0	7	34	17	9	28	
Viral hepatitis C	121	5,973	225	11,849	9,810	10,811	6,396	-	
Malaria	6	175	30	385	559	576	515	673	
Legionellosis	2	198	7	368	501	305	198	128	
Vibrio vulnificus sepsis	2	8	2	70	42	47	46	56	
Murine typhus	0	10	0	1	14	16	18	18	
Scrub typhus	10	502	29	4,479	4,005	6,668	10,528	11,105	
Leptospirosis	1	77	3	114	138	118	103	117	
Brucellosis	1	3	0	8	1	5	6	4	
HFRS	4	118	7	270	399	433	531	575	
HIV/AIDS	12	399	19	821	1,005	989	1,008	1,060	
CJD	5	55	1	64	53	53	36	42	
Dengue fever	0	0	5	43	273	159	171	313	
Q fever	1	29	3	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	2	54	10	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 influenza* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending July 24, 2021 (30th 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	452	11,257	15,205	416	12,125	40,078	0	0	39	0	0	0
Seoul	61	1,835	2,737	39	1,485	4,425	0	0	5	0	0	0
Busan	38	752	1,040	0	759	2,266	0	0	2	0	0	0
Daegu	23	542	724	14	570	2,160	0	0	2	0	0	0
Incheon	10	570	806	23	635	1,972	0	0	2	0	0	0
Gwangju	12	260	384	9	437	1,388	0	0	0	0	0	0
Daejeon	9	246	335	18	338	1,126	0	0	5	0	0	0
Ulsan	7	212	315	9	254	1,186	0	0	0	0	0	0
Sejong	1	56	54	0	139	447	0	0	14	0	0	0
Gyonggi	100	2,527	3,266	175	3,506	11,151	0	0	0	0	0	0
Gangwon	25	479	651	14	343	1,049	0	0	1	0	0	0
Chungbuk	21	386	476	19	415	1,108	0	0	0	0	0	0
Chungnam	23	564	731	16	451	1,483	0	0	1	0	0	0
Jeonbuk	21	454	601	2	438	1,636	0	0	1	0	0	0
Jeonnam	28	635	799	23	698	1,562	0	0	2	0	0	0
Gyeongbuk	30	840	1,099	22	578	2,188	0	0	2	0	0	0
Gyeongnam	38	764	990	31	874	3,833	0	0	2	0	0	0
Jeju	5	135	196	2	205	1,098	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 July 24, 2021 (30th 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	10	76	81	11	66	33	3	18	71	7	114	94
Seoul	1	4	16	0	0	5	0	1	16	1	13	11
Busan	0	12	8	0	13	4	0	1	5	0	4	2
Daegu	0	2	3	0	5	3	0	0	4	0	2	3
Incheon	0	2	6	0	1	2	0	0	6	0	3	6
Gwangju	1	2	1	1	6	1	0	1	2	2	25	7
Daejeon	0	7	2	0	0	1	0	0	1	0	6	2
Ulsan	1	4	3	1	3	0	0	0	1	0	0	3
Sejong	0	0	1	0	0	0	0	0	0	0	2	1
Gyonggi	4	19	19	0	10	6	3	6	15	2	22	33
Gangwon	1	3	2	3	8	1	0	0	1	0	3	4
Chungbuk	0	1	2	0	1	1	0	0	1	0	4	2
Chungnam	0	5	4	0	0	1	0	0	5	0	0	2
Jeonbuk	0	0	1	0	0	2	0	1	2	0	2	1
Jeonnam	0	1	2	5	9	2	0	5	3	2	11	5
Gyeongbuk	0	3	4	0	2	1	0	1	5	0	7	4
Gyeongnam	2	11	5	1	7	2	0	0	3	0	5	3
Jeju	0	0	2	0	1	1	0	2	1	0	5	5

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 July 24, 2021 (30th 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	106	3,629	4,087	0	11	199	120	4,880	9,826	0	0	2
Seoul	15	716	779	0	0	27	9	574	1,132	0	0	1
Busan	0	49	147	0	0	13	0	260	578	0	0	0
Daegu	1	38	65	0	0	6	2	229	371	0	0	0
Incheon	9	307	288	0	1	13	8	247	479	0	0	0
Gwangju	2	60	64	0	0	10	6	149	401	0	0	0
Daejeon	2	88	392	0	0	6	9	158	281	0	0	0
Ulsan	0	16	31	0	0	6	8	161	315	0	0	0
Sejong	0	22	58	0	0	3	0	45	48	0	0	0
Gyonggi	55	1,554	1,248	0	3	33	31	1,423	2,678	0	0	1
Gangwon	5	70	76	0	0	2	9	189	322	0	0	0
Chungbuk	9	141	197	0	1	5	1	115	249	0	0	0
Chungnam	2	226	311	0	0	4	1	211	422	0	0	0
Jeonbuk	5	103	150	0	0	5	1	211	457	0	0	0
Jeonnam	0	72	85	0	0	13	10	230	419	0	0	0
Gyeongbuk	0	53	80	0	4	13	7	211	501	0	0	0
Gyeongnam	0	26	95	0	2	37	18	383	1,026	0	0	0
Jeju	1	88	21	0	0	3	0	84	147	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 July 24, 2021 (30th 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	23	426	8,010	0	15	17	7	236	218
Seoul	0	0	2	0	46	1,091	0	2	1	0	22	38
Busan	0	0	0	0	21	569	0	1	2	0	13	15
Daegu	0	0	1	1	6	265	0	2	1	1	8	8
Incheon	0	0	1	0	22	383	0	0	0	1	14	12
Gwangju	0	0	0	7	62	397	0	0	1	0	11	4
Daejeon	0	0	0	1	7	294	0	1	1	0	3	9
Ulsan	0	0	0	4	21	355	0	0	0	0	4	5
Sejong	0	0	0	0	3	46	0	0	0	0	3	0
Gyonggi	0	0	2	7	111	2,327	0	1	2	1	84	51
Gangwon	0	0	1	1	7	126	0	0	0	0	7	6
Chungbuk	0	0	0	0	10	142	0	2	0	0	6	7
Chungnam	0	0	0	0	14	348	0	2	2	2	18	12
Jeonbuk	0	0	0	0	9	274	0	1	1	1	8	12
Jeonnam	0	0	0	2	25	303	0	0	3	0	9	12
Gyeongbuk	0	0	1	0	17	403	0	2	2	0	10	11
Gyeongnam	0	0	1	0	32	590	0	1	1	1	12	14
Jeju	0	0	0	0	13	97	0	0	0	0	4	2

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 July 24, 2021 (30th 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	6	175	310	2	198	153	2	8	6
Seoul	0	0	0	0	19	48	0	38	43	0	0	2
Busan	0	0	0	0	1	4	0	5	9	0	2	0
Daegu	0	0	0	0	0	4	1	14	6	0	0	0
Incheon	0	0	0	0	24	37	1	10	11	0	1	0
Gwangju	0	0	0	0	0	3	0	6	3	0	0	0
Daejeon	0	0	0	0	2	2	0	2	2	0	0	0
Ulsan	0	0	0	0	2	2	0	3	2	1	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyonggi	0	0	0	5	116	178	0	38	34	0	2	1
Gangwon	0	0	0	0	4	12	0	2	4	0	0	0
Chungbuk	0	0	0	0	2	2	0	5	6	1	1	0
Chungnam	0	0	0	0	1	3	0	3	4	0	0	1
Jeonbuk	0	0	0	0	0	2	0	12	4	0	0	0
Jeonnam	0	0	0	0	2	2	0	17	5	0	1	1
Gyeongbuk	0	0	0	1	1	3	0	9	10	0	0	0
Gyeongnam	0	0	0	0	1	5	0	8	6	0	0	1
Jeju	0	0	0	0	0	2	0	26	4	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 July 24, 2021 (30th 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	10	5	10	502	700	1	77	32	1	3	2
Seoul	0	0	1	0	14	30	0	1	2	0	0	1
Busan	0	0	0	0	21	27	0	4	1	0	0	0
Daegu	0	0	0	0	16	5	0	1	0	0	0	0
Incheon	0	7	1	0	6	13	0	3	0	0	0	0
Gwangju	0	0	1	0	11	16	0	2	1	0	0	0
Daejeon	0	0	0	0	6	16	0	2	1	0	0	0
Ulsan	0	0	0	0	5	16	0	1	1	0	0	0
Sejong	0	0	0	0	1	3	0	0	0	0	0	0
Gyonggi	0	2	0	2	37	64	1	15	6	0	2	0
Gangwon	0	0	0	0	8	15	0	13	2	0	0	0
Chungbuk	0	0	0	0	8	14	0	8	2	0	0	0
Chungnam	0	0	1	1	41	67	0	11	4	0	0	0
Jeonbuk	0	0	0	0	127	69	0	6	2	0	0	1
Jeonnam	0	0	1	6	123	177	0	2	4	1	1	0
Gyeongbuk	0	0	0	0	8	44	0	7	3	0	0	0
Gyeongnam	0	0	0	1	64	115	0	1	2	0	0	0
Jeju	0	1	0	0	6	9	0	0	1	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 July 24, 2021 (30th 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	4	118	156	5	55	28	0	0	94	1	29	68
Seoul	0	1	6	0	6	8	0	0	30	0	1	3
Busan	0	0	4	0	6	2	0	0	6	0	1	1
Daegu	0	4	2	1	4	1	0	0	5	0	0	1
Incheon	0	2	2	1	5	1	0	0	5	0	1	1
Gwangju	0	2	2	0	1	1	0	0	1	0	1	3
Daejeon	0	0	2	0	3	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
Gyonggi	1	14	39	0	12	6	0	0	28	0	2	10
Gangwon	0	11	7	0	3	1	0	0	2	0	0	0
Chungbuk	0	1	10	1	3	0	0	0	1	0	5	14
Chungnam	0	15	17	0	2	1	0	0	2	1	9	9
Jeonbuk	0	41	15	0	1	1	0	0	2	0	1	4
Jeonnam	1	16	24	0	2	1	0	0	2	0	1	9
Gyeongbuk	1	5	17	1	1	2	0	0	2	0	1	3
Gyeongnam	1	6	7	1	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

* 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 July 24, 2021 (30th 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	10	2	54	85	0	0	-
Seoul	0	0	4	0	2	2	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	1	0	0	-
Sejong	0	0	0	0	0	0	0	0	-
Gyonggi	0	0	2	0	11	11	0	0	-
Gangwon	0	0	1	1	3	12	0	0	-
Chungbuk	0	0	0	0	2	2	0	0	-
Chungnam	0	0	1	1	9	10	0	0	-
Jeonbuk	0	0	0	0	2	5	0	0	-
Jeonnam	0	0	0	0	5	6	0	0	-
Gyeongbuk	0	0	1	0	8	12	0	0	-
Gyeongnam	0	0	0	0	5	12	0	0	-
Jeju	0	0	0	0	2	6	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 July 24, 2021 (30th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 1.7 cases (=0.17%)
- Variation: decrease from 1.9 cases in 29th week of 2021
- Sentinel reporting sites: 200 hospitals/clinics
  ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

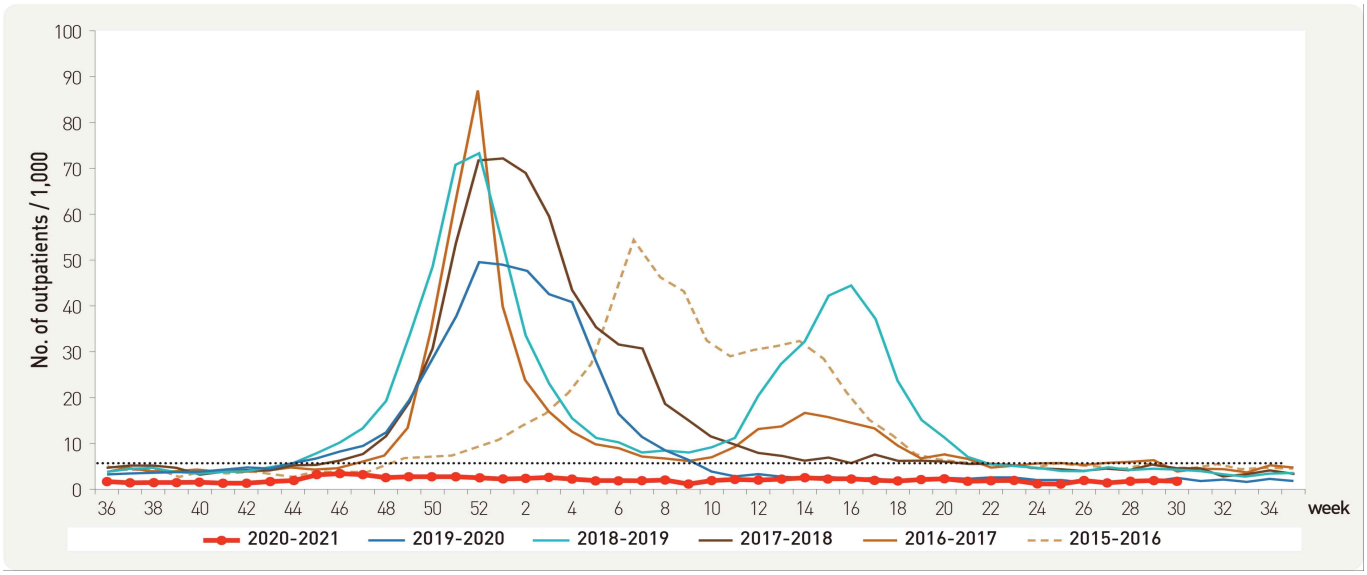


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending July 24, 2021 (30th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.7 case
- Variation: decrease from 0.9 case in 29th week of 2021
- Sentinel reporting sites: 97 hospitals/clinics

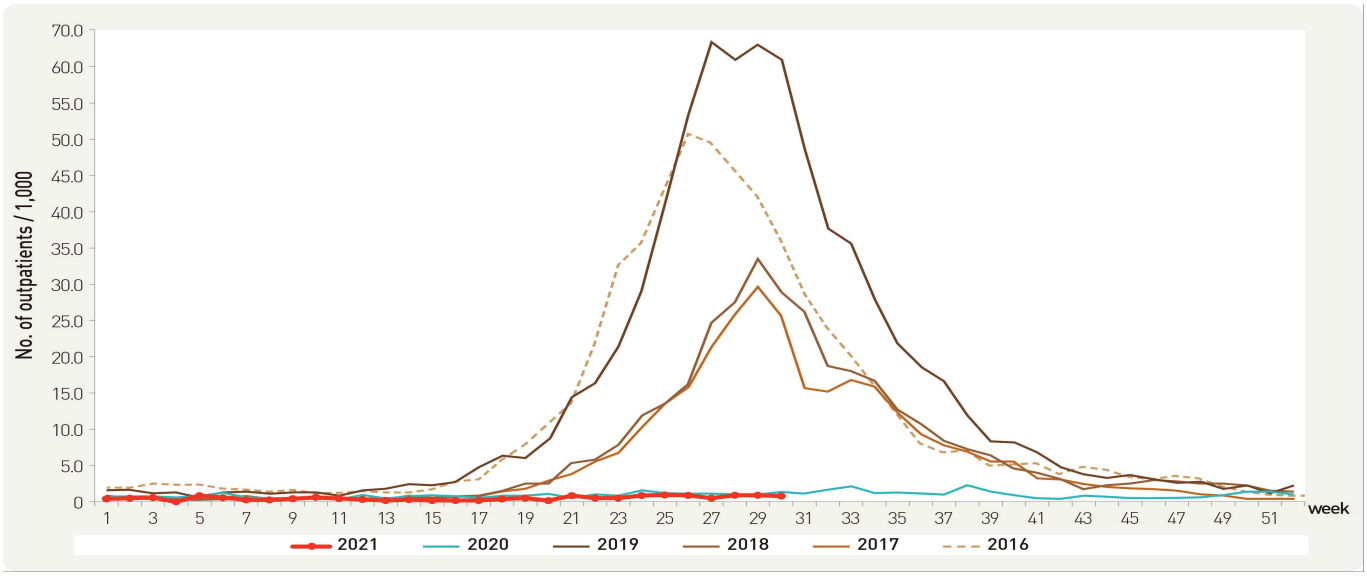


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2016-2021

3. Ophthalmologic infectious diseases, weeks ending July 24, 2021 (30th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 5.3 cases
- Variation: increase from 4.5 cases in 29th week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

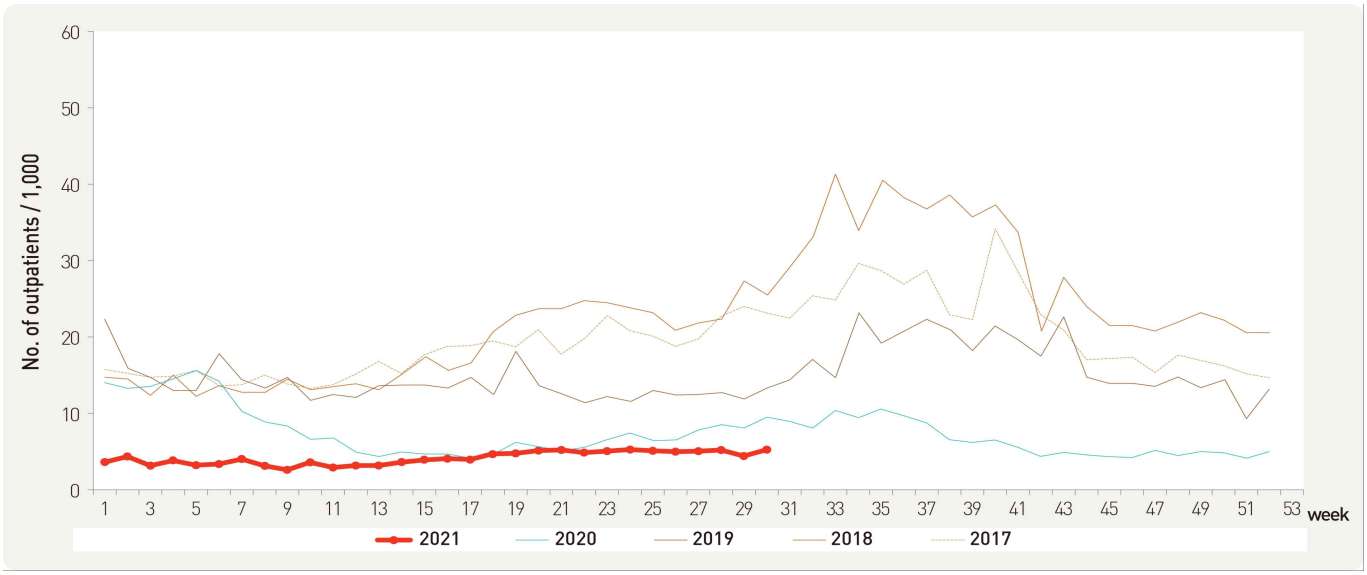


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2017-2021

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.6 case
- Variation: increase from 0.3 case in 29th week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

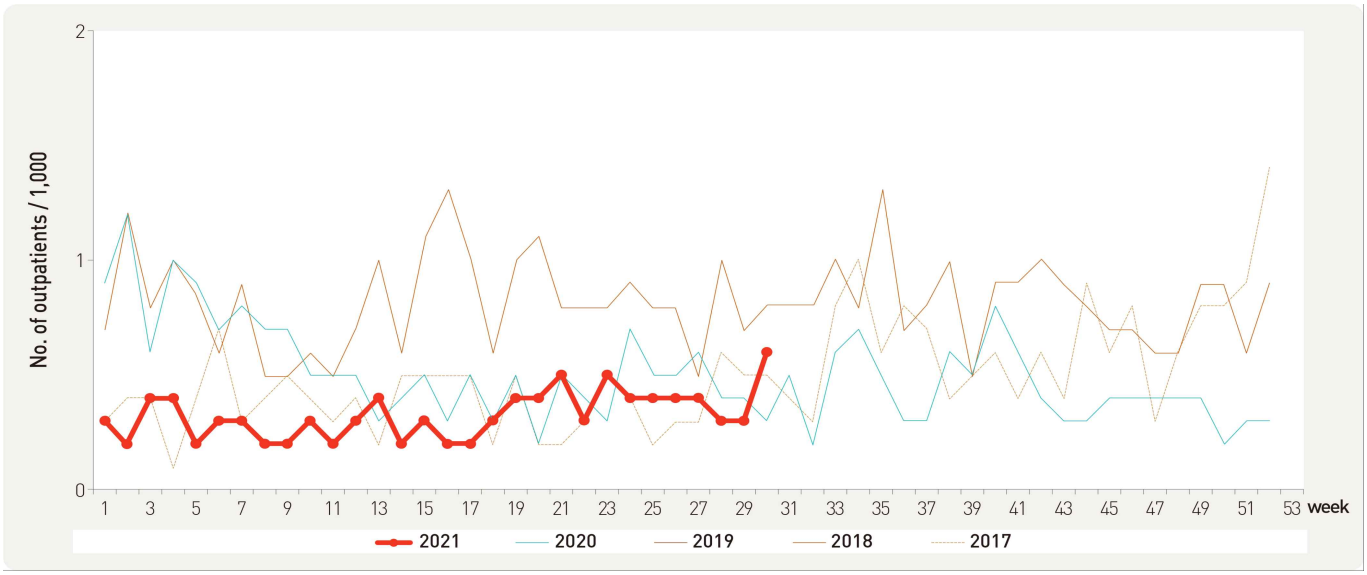


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2017-2021

4. Sexually Transmitted Diseases†, weeks ending July 24, 2021 (30th Week)

- Cases per sentinel: 3.7 for human Papilloma virus infection, 2.3 for genital herpes, 1.9 for chlamydia, 1.7 for condyloma acuminata, 1.2 for gonorrhea, 1.0 for primary Syphilis, 1.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 29th week of 2021
  Increase: secondary Syphilis (0.0 → 1.0)
  Decrease: gonorrhea (1.3 → 1.2), chlamydia (2.0 → 1.9), genital herpes (3.4 → 2.3), condyloma acuminata (2.0 → 1.7), human Papilloma virus infection (4.2 → 3.7), primary Syphilis (1.3 → 1.0)
  No change: congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 30th week: 13 for gonorrhea, 38 for chlamydia, 37 for genital herpes, 16 for condyloma acuminata, 31 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§
1.2	5.6	6.7	1.9	16.7	20.3	2.3	27.9	26.0	1.7	15.7	15.4

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§
3.7	58.5	10.1	1.0	2.0	0.4	1.0	2.1	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 July 24, 2021 (30th Week)

- No. of reported outbreaks: 8 with 525 patients (cumulative no. of outbreaks: 308 with 4,805 patients)
- Variation: decrease from 11 in 29th week of 2021
- Reporting sites: 254 health centers

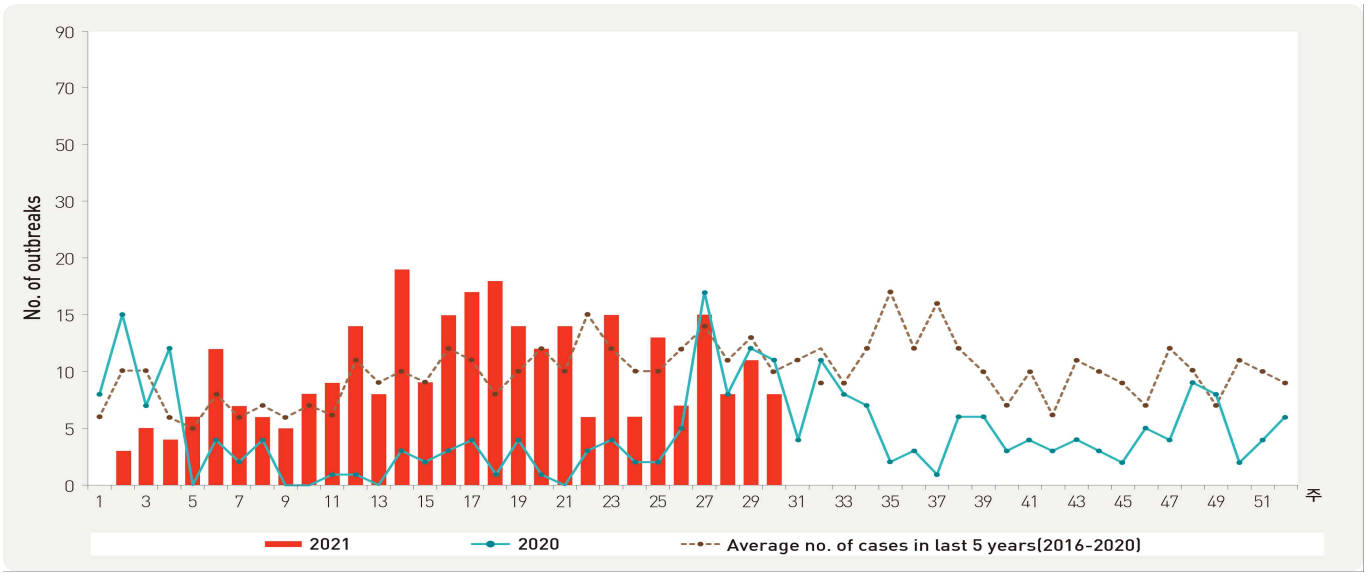


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2020-2021

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

1. Influenza viruses, weeks ending July 24, 2021 (30th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 71 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 85 specimens in 29th week of 2021
- Sentinel reporting sites: 63 hospitals/clinics

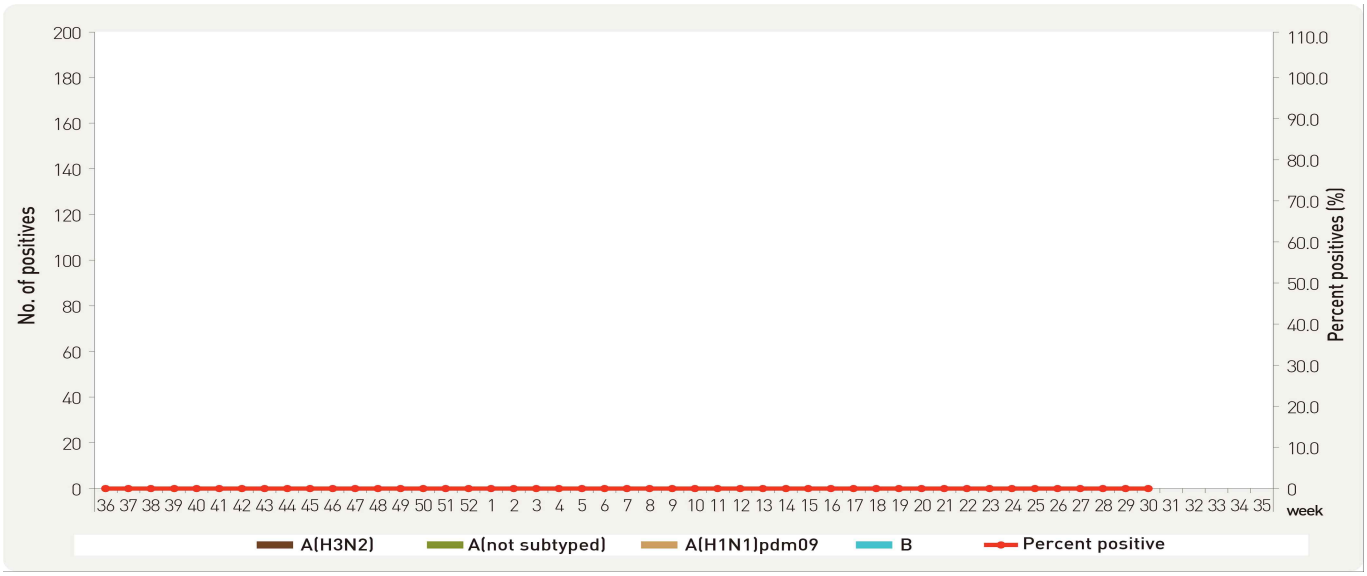


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending July 24, 2021 (30th Week)

- Detection rate: 66.2% (cumulative mean proportion during preceding three weeks plus current week: 67.0% out of 309 specimens)
- Variation (%p): decrease from 67.1% in 29th 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
27	75	74.7	14.7	0.0	0.0	0.0	0.0	41.3	18.7	0.0
28	78	60.3	9.0	0.0	0.0	0.0	0.0	42.3	9.0	0.0
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
Cum.※	309	67.0	9.4	0.0	0.0	0.0	0.0	46.6	11.0	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 June 27, 2021 – July 24, 2021 (Average no. of detected cases is 77 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 17, 2021 (29th Week)

- Detection rate: 14.7% (cumulative mean proportion in 2021: 708 cases [34.8%] out of 2,032 specimens)
- Variation (%p): increase from 13.0% in 28th 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	26	68	8	(11.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	8	(11.8)
	27	56	10	(17.9)	0	(0.0)	1	(1.8)	0	(0.0)	0	(0.0)	11	(19.6)
	28	46	3	(6.5)	0	(0.0)	0	(0.0)	3	(6.5)	0	(0.0)	6	(13.0)
	29	34	5	(14.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	5	(14.7)
Cum. 2021		2,032	561	(27.6)	22	(1.1)	31	(1.5)	93	(4.6)	2	(0.1)	708	(34.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending July 17, 2021 (29th Week)

- Detection rate: 15.5% (cumulative mean proportion in 2021: 828 cases [14.3%] out of 5,809 specimens)
- Variation (%p): increase from 14.7% in 28th 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	26	223	8 (3.6)	14 (6.3)	1 (0.4)	0 (0.0)	0 (0.0)	10 (4.5)	3 (1.3)	12 (5.4)	4 (1.8)	52 (23.3)
	27	197	3 (1.5)	7 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	3 (1.5)	2 (1.0)	3 (1.5)	3 (1.5)	21 (10.7)
	28	170	2 (1.2)	8 (4.7)	0 (0.0)	0 (0.0)	0 (0.0)	5 (2.9)	2 (1.2)	5 (2.9)	3 (1.8)	25 (14.7)
	29	97	1 (1.0)	3 (3.1)	0 (0.0)	0 (0.0)	0 (0.0)	6 (6.2)	3 (3.1)	0 (0.0)	2 (2.1)	15 (15.5)
Cum. 2021		5,809	104 (1.8)	169 (2.9)	3 (0..05)	0 (0.0)	0 (0.0)	106 (1.8)	142 (2.4)	216 (3.7)	75 (1.3)	828 (14.3)

* 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 July 17, 2021 (29th Week)

- Detection rate: 0.0% (0 case / 13 specimens) (cumulative mean proportion in 2021: 1.2% [3 cases / 252 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): decrease from 11.1% in 28th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

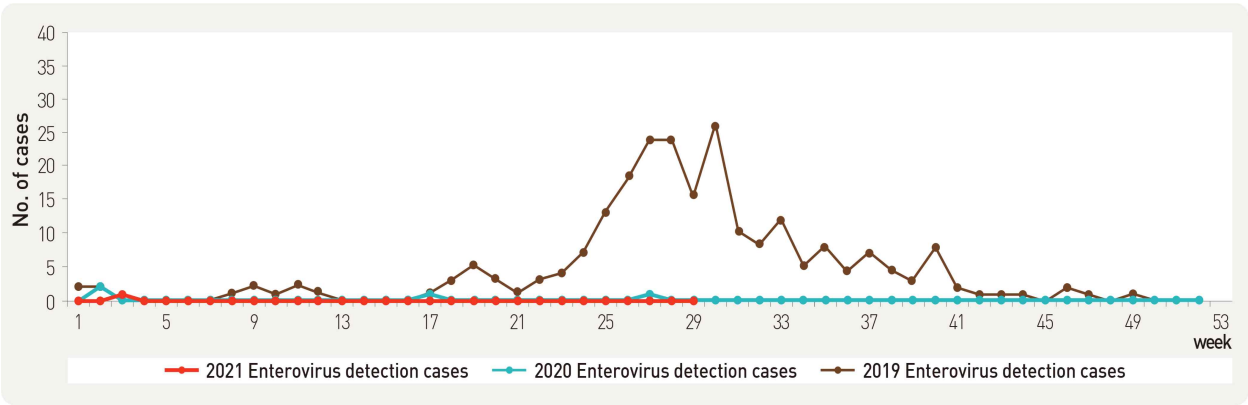


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

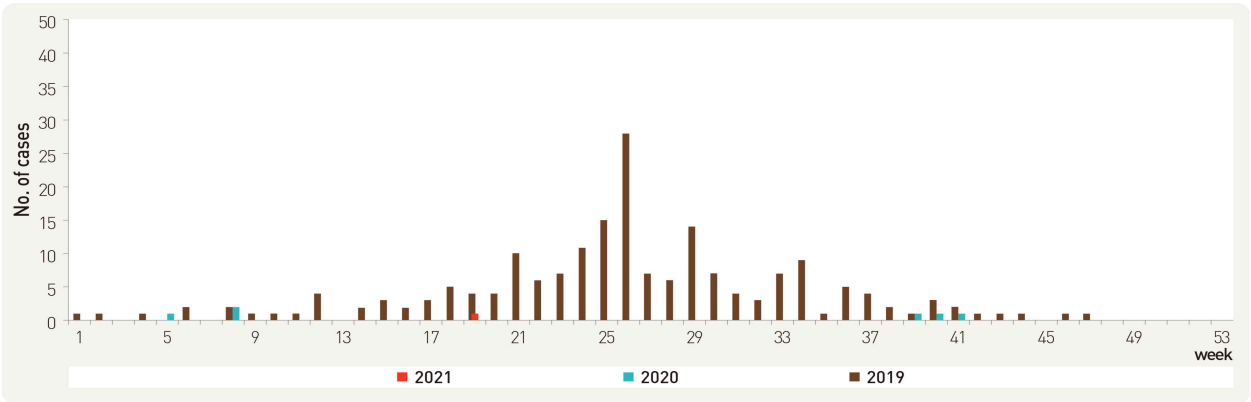


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

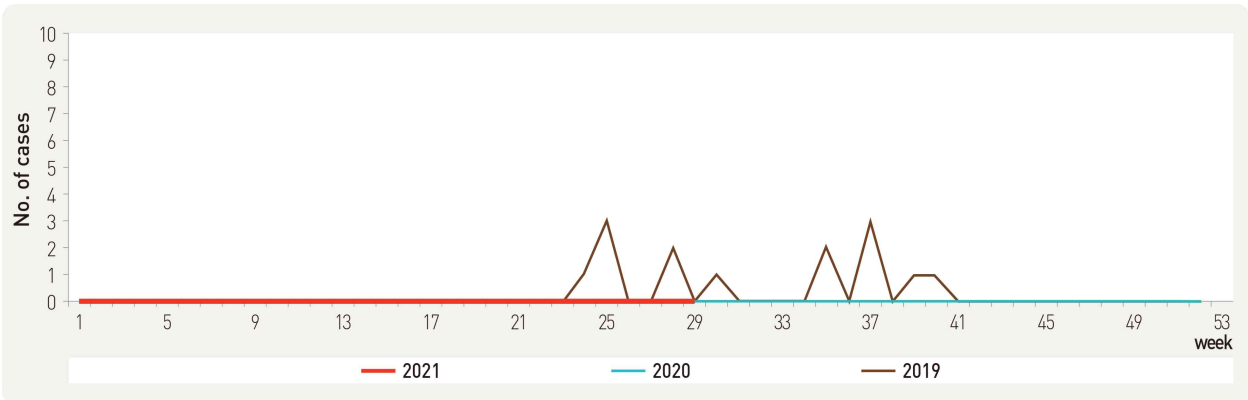


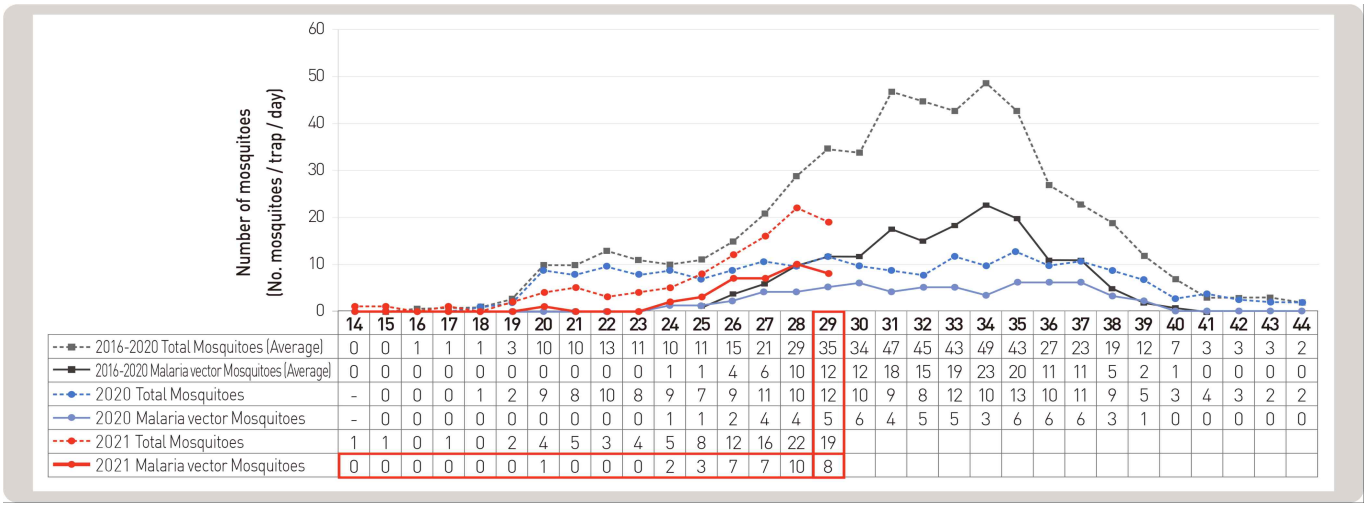
Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending July 17, 2021 (29th Week)

- No. of malaria vector mosquitoes: 8
- Variation: decrease from 10 in 28th week of 2021
- Sentinel reporting sites: 3 city/province (50 sites)

※ No. of mosquitoes: average number of mosquitoes/trap/day



week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2016-2020 Total Mosquitoes (Average)	0	0	1	1	1	3	10	10	13	11	10	11	15	21	29	35	34	47	45	43	49	43	27	23	19	12	7	3	3	3	2
2016-2020 Malaria vector Mosquitoes (Average)	0	0	0	0	0	0	0	0	0	0	1	1	4	6	10	12	12	18	15	19	23	20	11	11	5	2	1	0	0	0	0
2020 Total Mosquitoes	-	0	0	0	1	2	9	8	10	8	9	7	9	11	10	12	10	9	8	12	10	13	10	11	9	5	3	4	3	2	2
2020 Malaria vector Mosquitoes	-	0	0	0	0	0	0	0	0	0	1	1	2	4	4	5	6	4	5	5	3	6	6	6	3	1	0	0	0	0	0
2021 Total Mosquitoes	1	1	0	1	0	2	4	5	3	4	5	8	12	16	22	19															
2021 Malaria vector Mosquitoes	0	0	0	0	0	0	1	0	0	0	2	3	7	7	10	8															

Figure 10. Weekly incidences of malaria vector mosquitoes in 2021

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

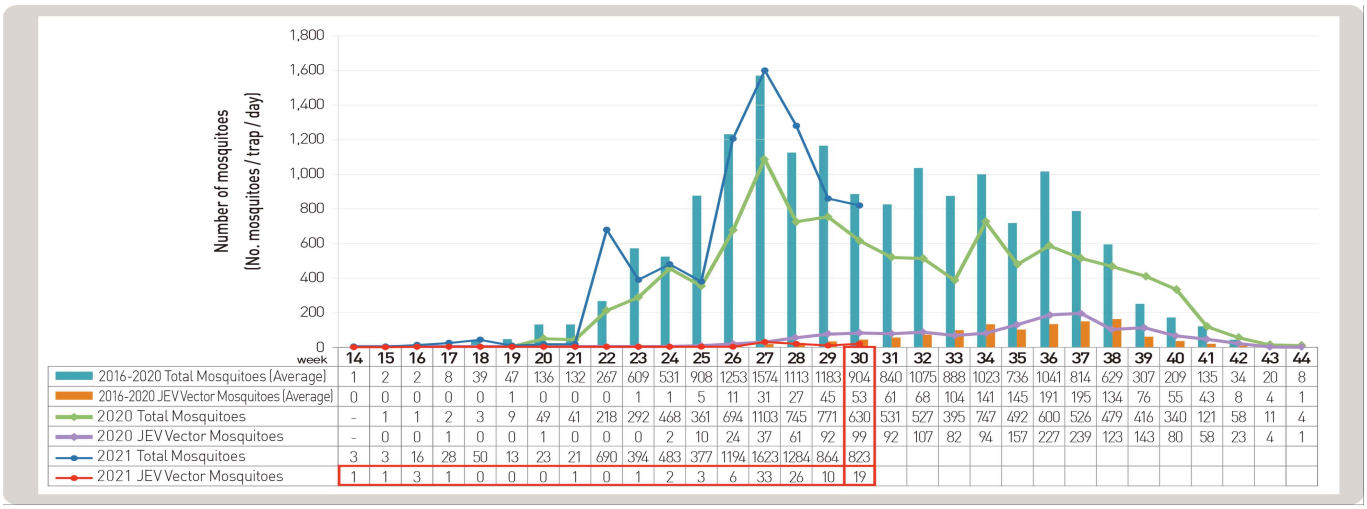
1. Japanese encephalitis vector mosquitoes, weeks ending July 24, 2021 (30th Week)

- No. of Japanese encephalitis vector mosquitoes: 19

※ JEV: Japanese encephalitis vector

- Variation: increase from 10 in 29th week of 2021
- Sentinel reporting sites: 9 city/provincial health and environmental institutes (9 sites)

※ No. of mosquitoes: average number of mosquitoes/trap/day



week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2016-2020 Total Mosquitoes (Average)	1	2	2	8	39	47	136	132	267	609	531	908	1253	1574	1113	1183	904	840	1075	888	1023	736	1041	814	629	307	209	135	34	20	8
2016-2020 JEV Vector Mosquitoes (Average)	0	0	0	0	0	1	0	0	0	1	1	5	11	31	27	45	53	61	68	104	141	145	191	195	134	76	55	43	8	4	1
2020 Total Mosquitoes	-	1	1	2	3	9	49	41	218	292	468	361	694	1103	745	771	630	531	527	395	747	492	600	526	479	416	340	121	58	11	4
2020 JEV Vector Mosquitoes	-	0	0	1	0	0	1	0	0	0	2	10	24	37	61	92	99	92	107	82	94	157	227	239	123	143	80	58	23	4	1
2021 Total Mosquitoes	3	3	16	28	50	13	23	21	690	394	483	377	1194	1623	1284	864	823														
2021 JEV Vector Mosquitoes	1	1	3	1	0	0	0	1	0	1	2	3	6	33	26	10	19														

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 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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