

I. National Notifiable Infectious Diseases

1. Reported cases, week ending October 16, 2021 (42nd 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	366	15,311	456	19,933	23,821	26,433	28,161	30,892	
Varicella	248	16,275	1,043	31,430	82,868	96,467	80,092	54,060	
Measles	0	0	1	6	194	15	7	18	
Cholera	0	1	0	0	1	2	5	4	
Typhoid fever	3	77	1	39	94	213	128	121	
Paratyphoid fever	13	80	1	58	55	47	73	56	
Shigellosis	0	19	2	29	151	191	112	113	
EHEC	4	176	2	270	146	121	138	104	
Viral hepatitis A	69	5,166	102	3,989	17,598	2,437	4,419	4,679	
Pertussis	0	13	9	123	496	980	318	129	
Mumps	268	6,921	275	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	2	186	7	345	526	670	523	441	
Hansen's disease	0	4	0	3	4				
Scarlet fever	13	564	173	2,300	7,562	15,777	22,838	11,911	
VRSA	0	1	0	9	3	0	0	-	
CRE	363	14,991	289	18,113	15,369	11,954	5,717	-	
Viral hepatitis E	7	345	6	191	-	-	-	-	
Category III									
Tetanus	1	22	0	30	31	31	34	24	
Viral hepatitis B	2	326	8	382	389	392	391	359	
Japanese encephalitis	0	4	2	7	34	17	9	28	
Viral hepatitis C	111	8,024	184	11,849	9,810	10,811	6,396	-	
Malaria	5	278	8	385	559	576	515	673	
Legionellosis	8	290	6	368	501	305	198	128	
<i>Vibrio vulnificus</i> sepsis	2	42	2	70	42	47	46	56	
Murine typhus	3	27	1	1	14	16	18	18	
Scrub typhus	180	982	388	4,479	4,005	6,668	10,528	11,105	
Leptospirosis	12	126	5	114	138	118	103	117	
Brucellosis	0	5	0	8	1	5	6	4	
HFRS	4	159	16	270	399	433	531	575	
HIV/AIDS	10	573	23	818	1,006	989	1,008	1,060	
CJD	0	66	1	64	53	53	36	42	
Dengue fever	0	1	4	43	273	159	171	313	
Q fever	0	39	2	69	162	163	96	81	
Lyme Borreliosis	0	0	0	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	18	154	14	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 October 16, 2021 (42nd 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	366	15,311	20,892	248	16,275	49,916	0	0	47	0	1	2
Seoul	58	2,520	3,778	20	2,045	5,692	0	0	6	0	0	0
Busan	30	1,058	1,422	15	1,020	2,762	0	0	2	0	0	1
Daegu	16	745	991	2	641	2,642	0	0	3	0	0	0
Incheon	24	797	1,098	15	863	2,505	0	0	2	0	1	0
Gwangju	7	366	514	19	546	1,767	0	0	0	0	0	0
Daejeon	7	321	464	4	459	1,453	0	0	5	0	0	0
Ulsan	11	290	428	3	355	1,504	0	0	1	0	0	0
Sejong	4	75	73	6	198	549	0	0	15	0	0	0
Gyeonggi	67	3,463	4,502	66	4,643	13,834	0	0	0	0	0	0
Gangwon	13	659	880	6	493	1,304	0	0	1	0	0	0
Chungbuk	15	497	646	10	569	1,378	0	0	0	0	0	0
Chungnam	21	737	1,006	9	654	1,845	0	0	2	0	0	0
Jeonbuk	20	615	830	0	551	2,056	0	0	1	0	0	0
Jeonnam	24	843	1,081	19	908	1,972	0	0	3	0	0	0
Gyeongbuk	25	1,158	1,528	24	823	2,717	0	0	3	0	0	0
Gyeongnam	22	992	1,380	25	1,248	4,606	0	0	3	0	0	1
Jeju	2	175	270	5	259	1,330	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 October 16, 2021 (42nd 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	3	77	105	13	80	52	0	19	95	4	176	139
Seoul	0	4	20	0	2	9	0	3	23	0	18	18
Busan	0	20	10	6	26	6	0	3	7	0	8	4
Daegu	0	2	3	0	5	4	0	0	6	0	8	6
Incheon	0	2	7	0	0	2	0	0	7	0	7	9
Gwangju	0	1	2	3	8	2	0	0	3	0	35	11
Daejeon	0	3	3	2	9	2	0	0	2	0	10	3
Ulsan	0	5	3	1	4	0	0	0	1	0	4	5
Sejong	0	0	1	0	1	0	0	0	0	1	5	1
Gyeonggi	2	15	24	0	13	10	0	5	19	2	30	44
Gangwon	0	2	3	0	1	3	0	0	2	0	5	5
Chungbuk	0	0	4	0	1	2	0	0	2	0	4	3
Chungnam	0	4	5	0	0	1	0	1	6	0	3	4
Jeonbuk	0	0	2	0	2	2	0	0	2	0	3	2
Jeonnam	0	5	3	1	3	2	0	5	4	0	14	8
Gyeongbuk	0	3	5	0	0	2	0	0	5	1	12	6
Gyeongnam	1	11	7	0	4	4	0	0	4	0	5	4
Jeju	0	0	3	0	1	1	0	2	2	0	5	6

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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 October 16, 2021 (42nd 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	69	5,166	5,840	0	13	315	268	6,921	12,963	0	0	3
Seoul	2	1,001	1,089	0	1	41	7	741	1,483	0	0	1
Busan	1	71	208	0	0	29	23	415	754	0	0	0
Daegu	0	53	90	0	0	11	3	253	498	0	0	0
Incheon	6	463	397	0	2	18	7	322	628	0	0	0
Gwangju	4	94	89	0	0	16	20	228	569	0	0	0
Daejeon	3	142	641	0	0	7	12	215	365	0	0	1
Ulsan	0	21	42	0	0	8	23	251	416	0	0	0
Sejong	1	38	94	0	0	4	7	72	68	0	0	0
Gyeonggi	31	2,127	1,762	0	3	52	43	1,973	3,526	0	0	1
Gangwon	3	115	106	0	0	2	15	266	435	0	0	0
Chungbuk	6	206	286	0	1	7	5	165	323	0	0	0
Chungnam	4	405	444	0	0	6	13	326	551	0	0	0
Jeonbuk	0	117	229	0	0	7	0	277	599	0	0	0
Jeonnam	5	94	101	0	0	16	24	376	552	0	0	0
Gyeongbuk	3	77	110	0	4	20	19	315	664	0	0	0
Gyeongnam	0	42	123	0	2	66	43	606	1,336	0	0	0
Jeju	0	100	29	0	0	5	4	120	196	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 October 16, 2021 (42nd 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	10	13	564	9,783	1	22	25	2	326	299
Seoul	0	0	3	1	53	1,326	0	4	2	0	34	53
Busan	0	0	0	0	35	673	0	1	2	0	24	19
Daegu	0	0	1	0	8	325	0	2	2	0	8	10
Incheon	0	0	1	1	32	469	0	0	1	0	17	16
Gwangju	0	0	0	1	78	507	0	0	1	1	13	6
Daejeon	0	0	0	0	9	368	0	2	1	1	5	10
Ulsan	0	0	0	1	30	418	0	0	0	0	6	6
Sejong	0	0	0	0	2	57	0	0	0	0	4	0
Gyeonggi	0	0	2	2	138	2,839	0	3	3	0	113	75
Gangwon	0	0	1	0	13	152	0	0	0	0	9	10
Chungbuk	0	0	0	0	12	181	0	2	1	0	9	12
Chungnam	0	0	0	0	20	425	0	3	2	0	24	15
Jeonbuk	0	0	0	0	11	329	0	1	2	0	10	16
Jeonnam	0	0	0	2	41	370	0	0	4	0	11	15
Gyeongbuk	0	0	1	1	20	496	0	2	2	0	18	14
Gyeongnam	0	0	1	3	44	727	1	2	2	0	17	19
Jeju	0	0	0	1	18	121	0	0	0	0	4	3

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 October 16, 2021 (42nd 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	4	16	5	278	522	8	290	238	2	42	48
Seoul	0	0	4	0	29	75	0	48	68	0	2	7
Busan	0	0	0	0	3	7	1	10	13	0	7	4
Daegu	0	0	1	0	1	7	0	16	9	0	0	1
Incheon	0	0	1	3	47	74	0	17	17	0	2	3
Gwangju	0	1	1	0	0	5	0	8	5	0	0	1
Daejeon	0	0	0	0	3	4	0	4	2	0	0	0
Ulsan	0	0	0	0	2	4	0	3	2	0	1	1
Sejong	0	1	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	2	3	1	171	295	0	61	56	0	8	9
Gangwon	0	0	1	0	8	15	1	8	8	0	0	0
Chungbuk	0	0	1	1	3	5	1	10	9	0	1	1
Chungnam	0	0	1	0	4	7	0	5	7	0	1	4
Jeonbuk	0	0	0	0	1	3	0	9	6	1	2	2
Jeonnam	0	0	1	0	3	4	2	27	7	1	8	6
Gyeongbuk	0	0	1	0	2	6	0	19	14	0	2	2
Gyeongnam	0	0	1	0	1	7	2	13	8	0	8	6
Jeju	0	0	0	0	0	3	1	32	7	0	0	1

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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 October 16, 2021 (42nd 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	3	27	7	180	982	1,561	12	126	75	0	5	2
Seoul	0	0	1	0	15	58	0	3	4	0	0	1
Busan	0	0	0	6	54	57	0	8	3	0	0	0
Daegu	0	0	0	0	14	19	0	1	1	0	0	0
Incheon	1	17	1	2	8	23	0	5	2	0	0	0
Gwangju	1	1	1	12	30	46	3	7	2	0	0	0
Daejeon	0	0	0	1	19	43	0	3	2	0	0	0
Ulsan	0	2	0	5	15	46	0	1	1	0	0	0
Sejong	0	0	0	3	5	10	0	0	1	0	0	0
Gyeonggi	0	4	1	5	60	147	0	27	12	0	4	0
Gangwon	0	0	0	1	7	26	0	4	4	0	0	0
Chungbuk	0	0	0	1	15	34	0	9	4	0	0	0
Chungnam	0	0	1	3	56	176	0	16	9	0	0	0
Jeonbuk	0	0	0	30	230	165	3	12	5	0	0	1
Jeonnam	1	1	1	60	259	326	4	10	9	0	1	0
Gyeongbuk	0	0	0	9	23	100	0	13	8	0	0	0
Gyeongnam	0	0	1	42	164	269	2	7	7	0	0	0
Jeju	0	2	0	0	8	16	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 October 16, 2021 (42nd 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	159	257	0	66	43	0	1	159	0	39	92
Seoul	0	1	10	0	5	12	0	0	48	0	4	4
Busan	0	0	8	0	7	3	0	0	9	0	3	1
Daegu	0	5	2	0	4	2	0	0	9	0	0	2
Incheon	0	3	4	0	4	2	0	0	10	0	1	2
Gwangju	0	2	4	0	1	1	0	0	2	0	1	4
Daejeon	0	1	4	0	6	2	0	0	2	0	3	3
Ulsan	0	2	1	0	1	1	0	0	3	0	2	2
Sejong	0	0	1	0	0	0	0	0	0	0	0	0
Gyeonggi	0	17	53	0	16	10	0	0	46	0	3	12
Gangwon	1	11	11	0	2	1	0	1	3	0	0	0
Chungbuk	1	2	15	0	5	1	0	0	3	0	4	20
Chungnam	0	19	32	0	2	1	0	0	5	0	10	12
Jeonbuk	0	57	30	0	3	1	0	0	3	0	1	6
Jeonnam	1	24	42	0	3	1	0	0	3	0	1	12
Gyeongbuk	0	6	26	0	2	2	0	0	4	0	4	5
Gyeongnam	1	9	13	0	5	3	0	0	7	0	2	7
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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§ 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 October 16, 2021 (42nd 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	18	18	154	214	0	0	-
Seoul	0	0	6	0	6	10	0	0	-
Busan	0	0	0	2	3	2	0	0	-
Daegu	0	0	0	0	5	9	0	0	-
Incheon	0	0	2	0	0	3	0	0	-
Gwangju	0	0	0	1	1	1	0	0	-
Daejeon	0	0	1	0	1	3	0	0	-
Ulsan	0	0	0	0	6	4	0	0	-
Sejong	0	0	0	0	1	1	0	0	-
Gyeonggi	0	0	4	4	38	39	0	0	-
Gangwon	0	0	1	1	15	30	0	0	-
Chungbuk	0	0	0	0	3	7	0	0	-
Chungnam	0	0	1	3	18	20	0	0	-
Jeonbuk	0	0	1	0	5	10	0	0	-
Jeonnam	0	0	0	2	10	13	0	0	-
Gyeongbuk	0	0	1	3	23	29	0	0	-
Gyeongnam	0	0	1	2	12	21	0	0	-
Jeju	0	0	0	0	7	12	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 October 16, 2021 (42nd Week)*

- Weekly proportion of influenza-like illness per 1,000 outpatients: 1.2 cases (=0.12%)
- Variation: increase from 1.0 cases in 41st week of 2021
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2021-2022 outbreak standard: 5.8 cases (/1,000)

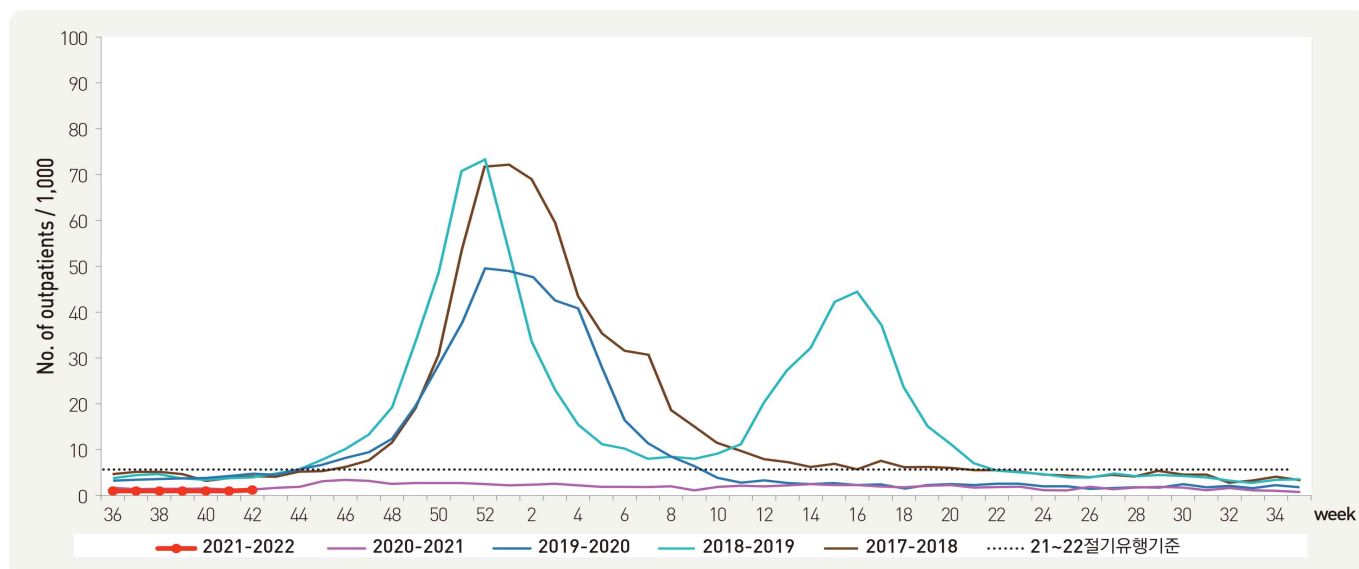


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending October 16, 2021 (42nd Week)*

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.5 case
- Variation: decrease from 1.2 cases in 41st week of 2021
- Sentinel reporting sites: 97 hospitals/clinics

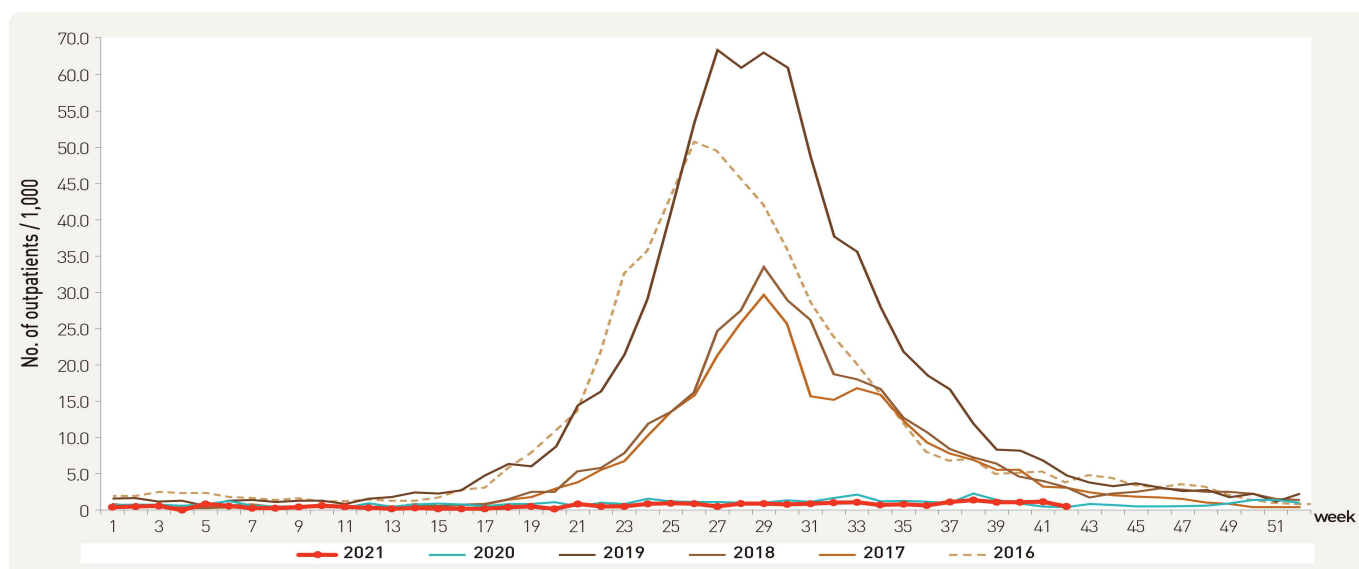


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2016-2021

3. Ophthalmologic infectious diseases, weeks ending October 16, 2021 (42nd Week)*

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 5.1 cases
- Variation: decrease from 5.2 cases in 41st week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

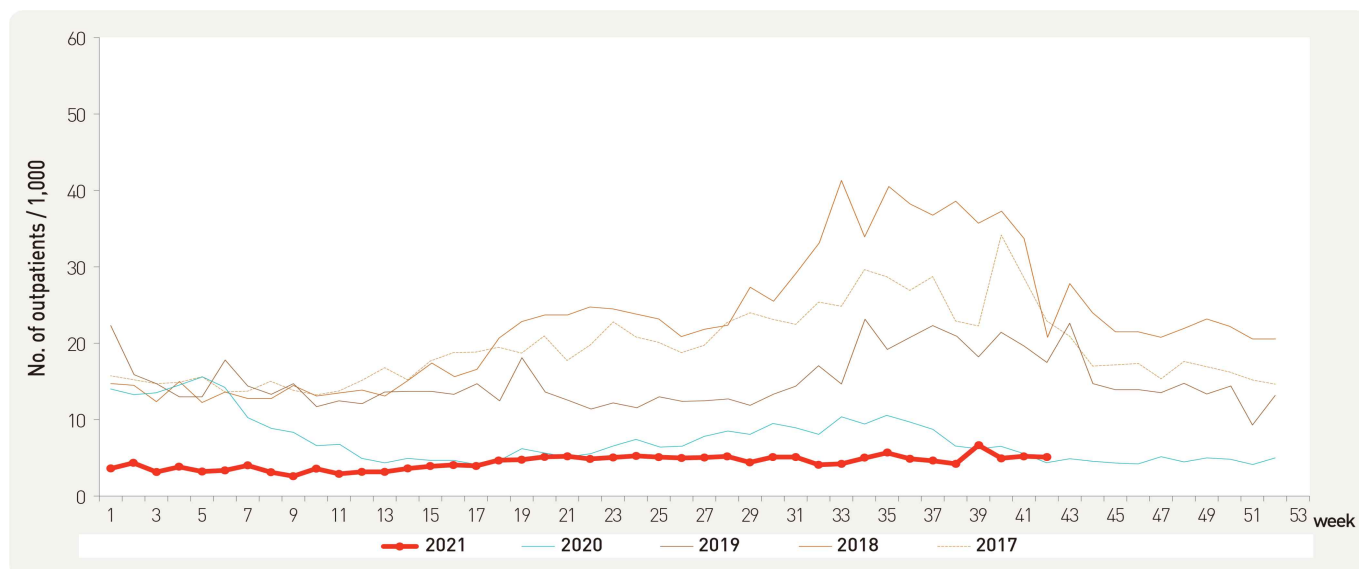


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2017-2021

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.3 case
- Variation: no change from 0.3 case in 41st week of 2021
- Sentinel reporting sites: 90 hospitals/clinics

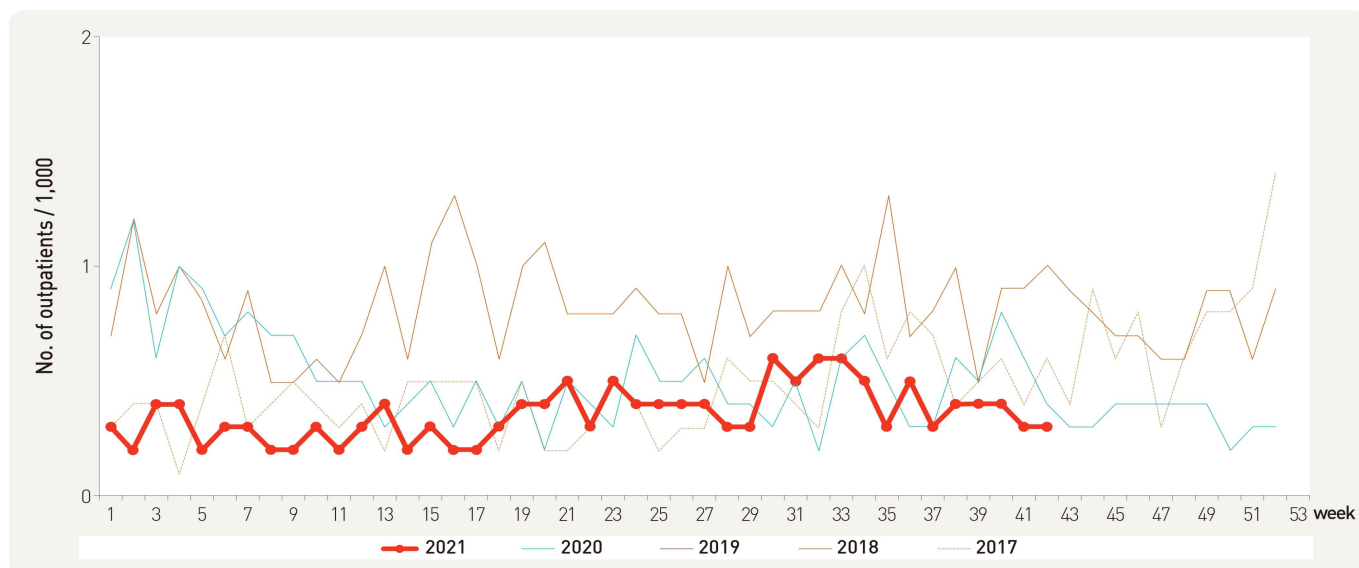


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2017-2021

4. Sexually Transmitted Diseases[†], weeks ending October 16, 2021 (42nd Week)*

- Cases per sentinel: 3.2 for human Papilloma virus infection, 2.2 for genital herpes, 2.1 for chlamydia, 2.1 for condyloma acuminata, 1.1 for gonorrhea, 1.0 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 41st week of 2021
Increase: condyloma acuminata (1.8 → 2.1)
Decrease: gonorrhea (1.3 → 1.1), chlamydia (3.1 → 2.1), genital herpes (2.7 → 2.2), human Papilloma virus infection (3.5 → 3.2), secondary Syphilis (1.0 → 0.0)
No change: primary Syphilis (1.0 → 1.0), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 589 hospitals/clinics
※ No. of reported sites in 42nd week: 15 for gonorrhea, 45 for chlamydia, 46 for genital herpes, 18 for condyloma acuminata, 34 for human Papilloma virus infection, 2 for primary Syphilis, 0 for secondary Syphilis, 0 for congenital Syphilis

Unit: no. of cases/sentinel

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	7.1	8.9	2.1	21.9	27.2	2.2	36.8	35.1	2.1	20.1	20.0

Human Papilloma virus infection			Primary Syphilis			Secondary Syphilis			Congenital Syphilis		
Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
3.2	73.6	13.9	1.0	2.2	0.4	0.0	2.7	0.6	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 October 16, 2021 (42nd Week)*

- No. of reported outbreaks: 8 with 41 patients (cumulative no. of outbreaks: 408 with 6,102 patients)
- Variation: increase from 6 in 41st week of 2021
- Reporting sites: 254 health centers

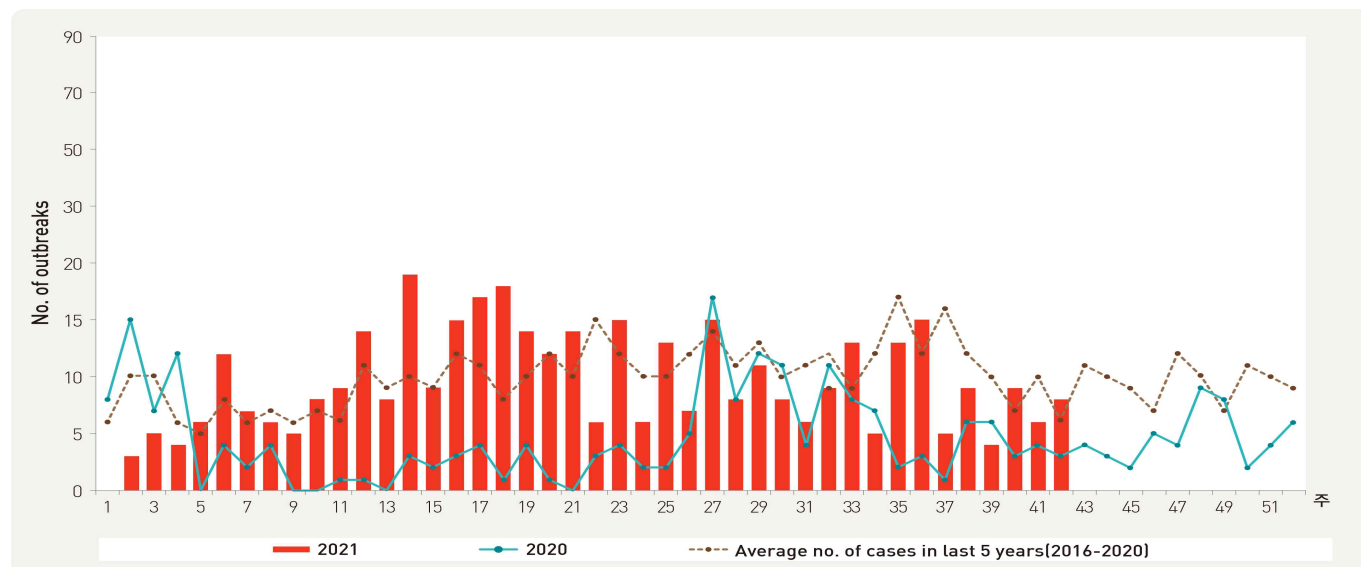


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2020-2021

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

1. Influenza viruses, weeks ending October 16, 2021 (42nd Week)*

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 76 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 101 specimens in 41st 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 October 16, 2021 (42nd Week)*

- Detection rate: 76.2% (cumulative mean proportion during preceding three weeks plus current week: 68.6% out of 245 specimens)
- Variation (%p): increase from 72.4% in 41st 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
39	10	60.0	10.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
40	58	51.7	5.2	20.7	0.0	0.0	0.0	24.1	1.7	0.0
41	76	72.4	2.6	44.7	0.0	0.0	0.0	17.1	7.9	0.0
42	101	76.2	5.0	50.5	0.0	0.0	0.0	15.8	5.0	0.0
Cum.※	245	68.6	4.5	41.6	0.0	0.0	0.0	17.6	4.9	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 September 19, 2021 – October 16, 2021 (Average no. of detected cases is 61 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 October 9, 2021 (41st Week)*

- Detection rate: 3.2% (cumulative mean proportion in 2021: 804 cases [29.8%] out of 2,694 specimens)
- Variation (%p): decrease from 7.8% in 40th 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 38	46	0	(0.0)	0	(0.0)	3	(6.5)	3	(6.5)	0	(0.0)	6	(13.0)
39	41	1	(2.4)	0	(0.0)	3	(7.3)	3	(7.3)	0	(0.0)	7	(17.1)
40	51	1	(2.0)	0	(0.0)	3	(5.9)	0	(0.0)	0	(0.0)	4	(7.8)
41	31	1	(3.2)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(3.2)
Cum. 2021	2,694	600	(22.3)	22	(0.8)	61	(2.3)	118	(4.4)	3	(0.1)	804	(29.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending October 9, 2021 (41st Week)*

- Detection rate: 14.4% (cumulative mean proportion in 2021: 1,444 cases [17.5%] out of 8,245 specimens)
- Variation (%p): decrease from 19.4% in 40th 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	38	190	7 (3.7)	8 (4.2)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.1)	2 (1.1)	2 (1.1)	8 (4.2)	29 (15.3)
	39	177	13 (7.3)	13 (7.3)	0 (0.0)	1 (0.6)	0 (0.0)	2 (1.1)	2 (1.1)	5 (2.8)	4 (2.3)	40 (22.6)
	40	160	10 (6.3)	6 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	7 (4.4)	5 (3.1)	2 (1.3)	31 (19.4)
	41	104	5 (4.8)	3 (2.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	4 (3.8)	2 (1.9)	1 (1.0)	15 (14.4)
Cum. 2021		8,245	259 (3.1)	349 (4.2)	3 (0.04)	1 (0.01)	0 (0.0)	173 (2.1)	196 (2.4)	313 (3.8)	133 (1.6)	1,444 (17.5)

* 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 October 9, 2021 (41st Week)*

- Detection rate: 20.0% (1 case / 5 specimens) (cumulative mean proportion in 2021: 2.2% [7 cases / 315 specimens])
 - Aseptic meningitis: 0 case (Cum. 2021: 1 case)
 - HFMD and herpangina: 1 case (Cum. 2021: 4 cases)
 - HFMD with complications: 0 case (Cum. 2021: 0 case)
 - Other: 0 case (Cum. 2021: 2 cases)
- Variation (%p): increase from 0.0% in 40th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

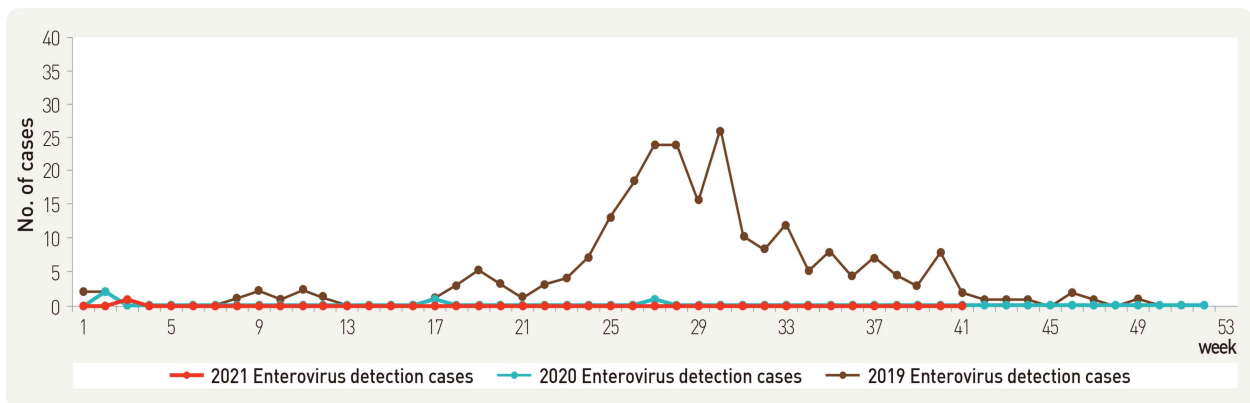


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

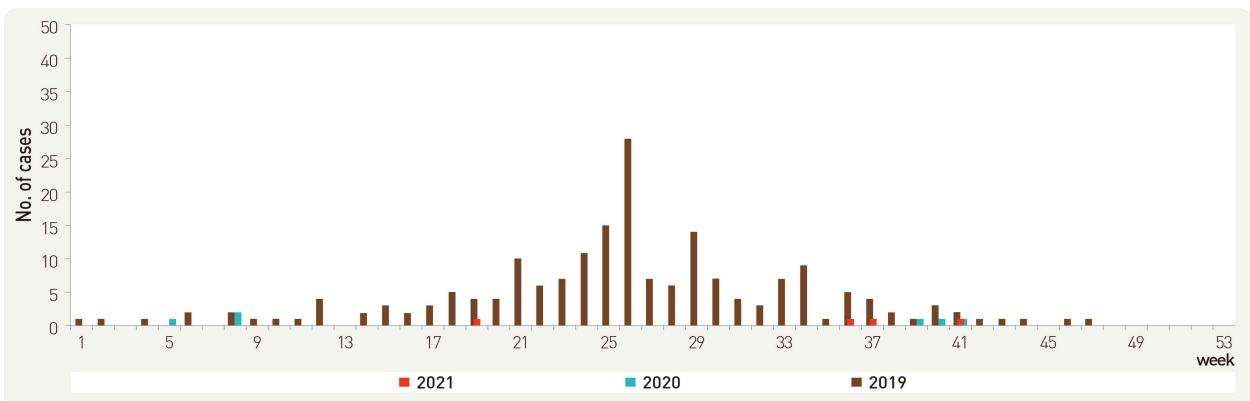


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

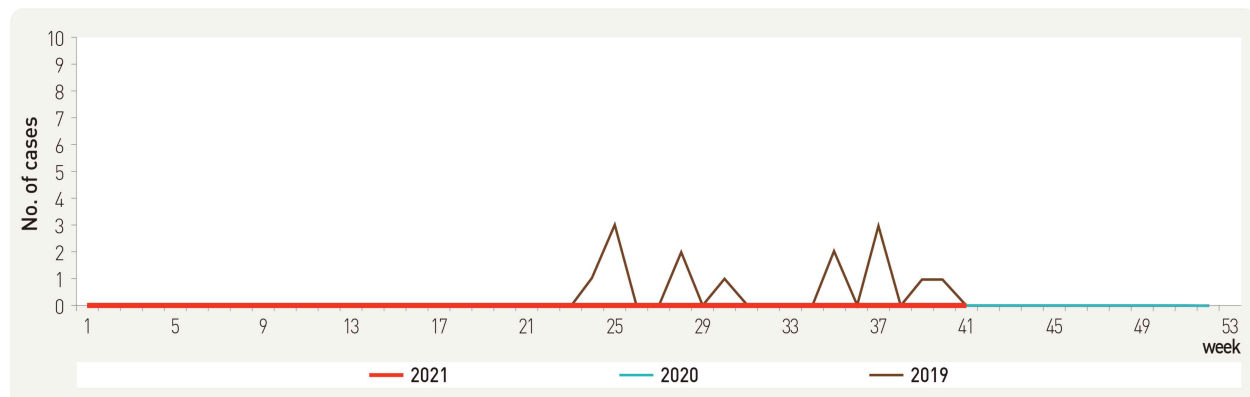


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending October 9, 2021 (41st Week)*

- No. of malaria vector mosquitoes: 0
- Variation: no change from 0 in 40th week of 2021
- Sentinel reporting sites: 3 city/province (50 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

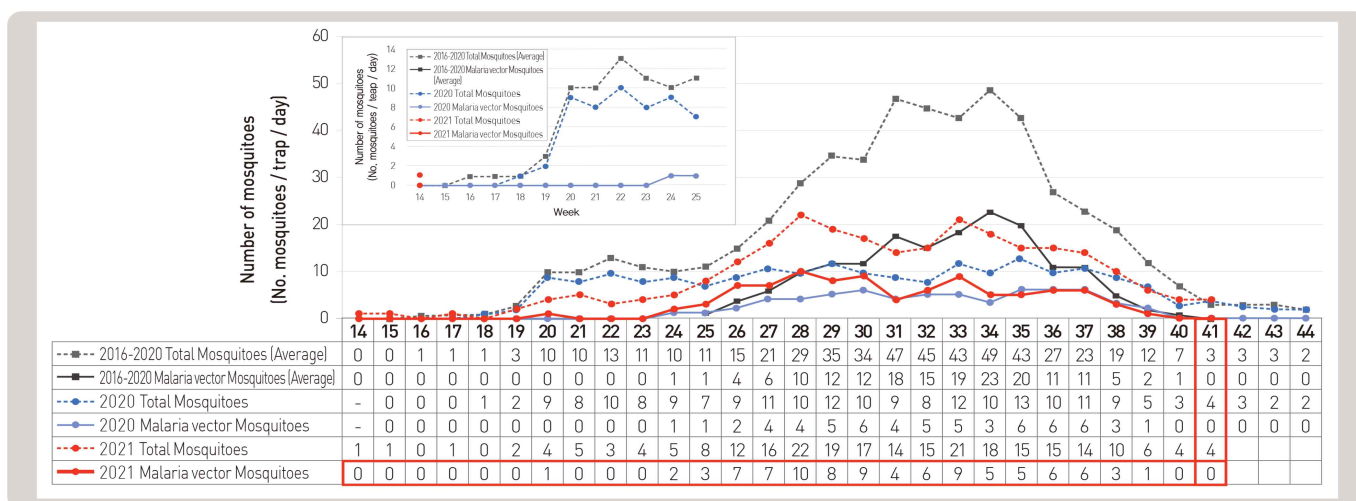


Figure 10. Weekly incidences of malaria vector mosquitoes in 2021

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending October 16, 2021 (42nd Week)

- No. of Japanese encephalitis vector mosquitoes: 11
- ※ JEV: Japanese encephalitis vector
- Variation: decrease from 63 in 41st week of 2021
- Sentinel reporting sites: 9 city/provincial health and environmental institutes (9 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

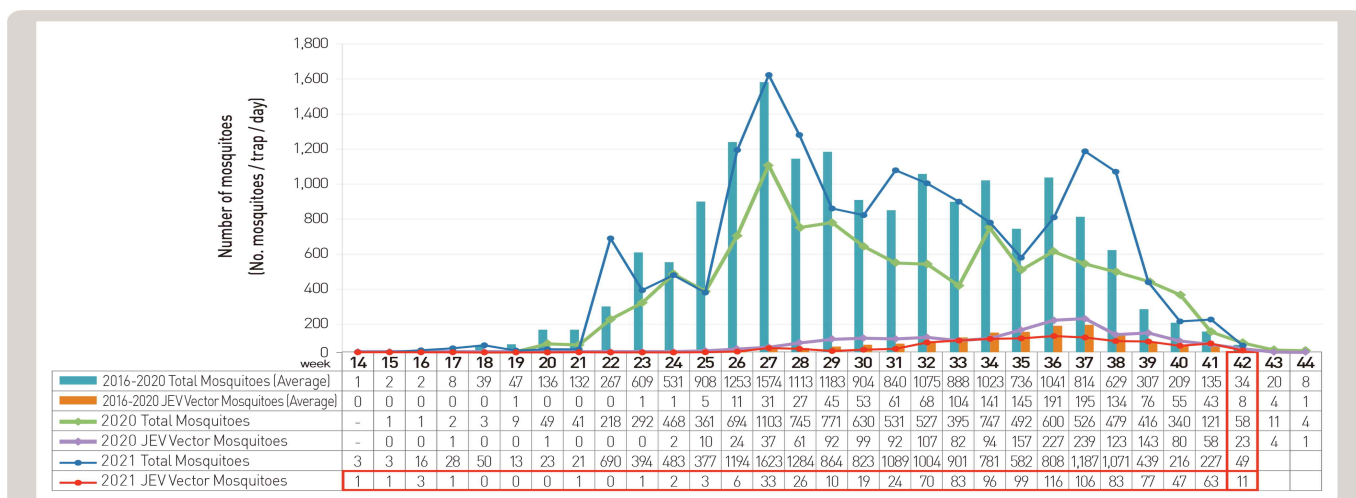


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2021

IX. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending October 16, 2021 (42nd Week)

- No. of chigger mites: 0.09
- Variation: increase from 0.06 in 41st week of 2021
- Sentinel reporting sites: 9 city/province (16 sites)
 - ※ No. of chigger mites: number of chigger in 16 sites (320 traps) per week

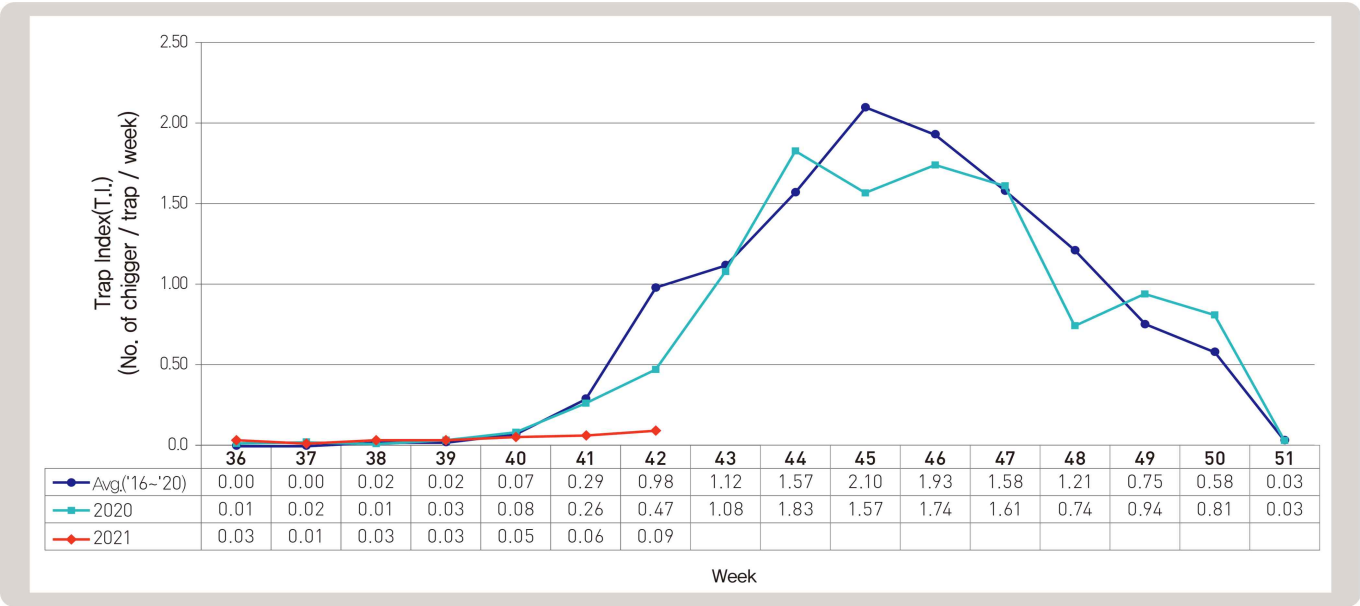


Figure 12. Weekly incidences of scrub typhus vector chiggers in 2021

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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