

I. National Notifiable Infectious Diseases

1. Reported cases, week ending November 14, 2020 (46th Week)*

Unit: no. of cases†

Classification of disease [†]	Current week	Cum. 2020	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2019	2018	2017	2016	2015	
Category II									
Tuberculosis	458	17,870	534	23,821	26,433	28,161	30,892	32,181	
Varicella	388	29,371	1,933	82,868	96,467	80,092	54,060	46,330	
Measles	0	7	0	194	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	1	74	1	94	213	128	121	121	
Paratyphoid fever	2	97	1	55	47	73	56	44	
Shigellosis	0	39	2	151	191	112	113	88	
EHEC	3	315	2	146	121	138	104	71	
Viral hepatitis A	57	3,247	60	17,598	2,437	4,419	4,679	1,804	
Pertussis	1	126	10	496	980	318	129	205	
Mumps	184	9,263	351	15,967	19,237	16,924	17,057	23,448	
Rubella	0	2	0	8	0	7	11	11	
Meningococcal disease	0	6	0	16	14	17	6	6	
Pneumococcal disease	1	313	10	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	9	2,268	238	7,562	15,777	22,838	11,911	7,002	
VRSA	0	9	-	3	0	0	-	-	
CRE	270	14,709	-	15,369	11,954	5,717	-	-	
Viral hepatitis E	5	134	-	-	-	-	-	-	
Category III									
Tetanus	2	27	0	31	31	34	24	22	
Viral hepatitis B	5	312	7	389	392	391	359	155	
Japanese encephalitis	0	6	1	34	17	9	28	40	
Viral hepatitis C	136	10,288	195	9,810	10,811	6,396	-	-	
Malaria	2	371	2	559	576	515	673	699	
Legionellosis	2	330	5	501	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	69	1	42	47	46	56	37	
Murine typhus	2	27	1	14	16	18	18	15	
Scrub typhus	654	2,564	1,073	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	13	139	6	138	118	103	117	104	
Brucellosis	0	6	0	1	5	6	4	5	
HFRS	22	205	24	399	433	531	575	384	
HIV/AIDS	20	691	25	1,005	989	1,008	1,060	1,018	
CJD	0	66	1	53	53	36	42	33	
Dengue fever	0	43	5	273	159	171	313	255	
Q fever	0	67	2	162	163	96	81	27	
Lyme Borreliosis	0	7	1	23	23	31	27	9	
Melioidosis	0	1	0	8	2	2	4	4	
Chikungunya fever	0	1	0	16	3	5	10	2	
SFTS	1	235	1	223	259	272	165	79	
Zika virus infection	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 are provisional but the data from 2015 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 November 14, 2020 (46th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Tuberculosis			Varicella			Measles			Cholera		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	458	17,870	25,010	388	29,371	56,950	0	7	46	0	0	2
Seoul	81	3,111	4,596	40	3,549	6,643	0	2	7	0	0	0
Busan	33	1,157	1,747	29	1,629	3,139	0	0	2	0	0	1
Daegu	11	868	1,182	11	1,435	2,986	0	0	3	0	0	0
Incheon	24	918	1,309	14	1,494	2,908	0	0	2	0	0	0
Gwangju	10	447	614	9	1,274	1,917	0	0	0	0	0	0
Daejeon	5	382	562	13	951	1,581	0	0	5	0	0	0
Ulsan	11	336	512	6	620	1,703	0	0	1	0	0	0
Sejong	4	80	77	5	250	568	0	0	0	0	0	0
Gyeonggi	121	3,858	5,364	133	7,740	15,991	0	3	15	0	0	0
Gangwon	28	758	1,056	0	839	1,552	0	0	1	0	0	0
Chungbuk	9	554	769	16	1,091	1,463	0	0	0	0	0	0
Chungnam	32	908	1,184	12	1,045	2,113	0	0	2	0	0	0
Jeonbuk	13	742	963	21	1,152	2,422	0	0	1	0	0	0
Jeonnam	28	941	1,294	14	1,125	2,346	0	1	2	0	0	0
Gyeongbuk	25	1,344	1,814	15	1,589	3,022	0	0	3	0	0	0
Gyeongnam	21	1,231	1,657	46	2,914	5,162	0	1	2	0	0	1
Jeju	2	235	311	4	674	1,434	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 November 14, 2020 (46th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Typhoid fever			Paratyphoid fever			Shigellosis			Enterohemorrhagic <i>Escherichia coli</i>		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	1	74	125	2	97	51	0	39	112	3	315	107
Seoul	0	9	23	0	13	10	0	7	28	0	26	16
Busan	0	8	10	0	25	6	0	5	7	1	9	3
Daegu	0	3	4	0	8	2	0	1	7	0	9	4
Incheon	0	5	7	0	5	2	0	2	9	0	10	9
Gwangju	0	2	3	0	2	2	0	2	3	1	19	16
Daejeon	0	2	6	0	1	2	0	0	2	1	8	2
Ulsan	0	1	3	0	0	0	0	2	1	0	6	4
Sejong	0	0	1	0	0	0	0	0	0	0	2	1
Gyeonggi	0	22	28	0	15	10	0	8	21	0	145	20
Gangwon	0	7	4	0	5	2	0	1	2	0	6	4
Chungbuk	0	1	4	0	1	2	0	0	3	0	4	4
Chungnam	0	4	5	0	4	1	0	3	6	0	9	3
Jeonbuk	1	2	2	0	0	3	0	0	2	0	2	2
Jeonnam	0	0	6	0	7	2	0	3	6	0	15	7
Gyeongbuk	0	2	5	0	3	2	0	1	6	0	19	4
Gyeongnam	0	5	11	1	6	4	0	3	7	0	12	4
Jeju	0	1	3	1	2	1	0	1	2	0	14	4

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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 November 14, 2020 (46th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Viral hepatitis A			Pertussis			Mumps			Rubella		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	57	3,247	5,832	1	126	367	184	9,263	16,555	0	2	6
Seoul	7	635	1,087	0	16	48	15	1,165	1,689	0	0	2
Busan	1	82	205	0	6	34	18	499	1,027	0	1	0
Daegu	0	69	90	0	5	11	9	384	581	0	0	0
Incheon	13	347	395	0	6	21	8	456	730	0	0	0
Gwangju	4	68	98	0	10	18	7	303	921	0	0	0
Daejeon	2	122	648	0	7	7	4	258	396	0	0	1
Ulsan	0	33	40	0	2	10	11	271	559	0	0	0
Sejong	0	19	94	0	0	5	3	65	70	0	0	0
Gyeonggi	0	1,033	1,761	1	22	58	57	2,729	4,226	0	1	1
Gangwon	0	84	105	0	0	3	0	305	512	0	0	0
Chungbuk	10	125	285	0	0	8	8	277	358	0	0	0
Chungnam	6	197	437	0	4	7	8	419	630	0	0	0
Jeonbuk	6	184	224	0	3	8	9	405	1,039	0	0	0
Jeonnam	4	59	108	0	20	17	7	362	776	0	0	1
Gyeongbuk	3	95	107	0	9	24	7	457	833	0	0	1
Gyeongnam	1	71	121	0	15	83	10	746	1,994	0	0	0
Jeju	0	24	27	0	1	5	3	162	214	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 November 14, 2020 (46th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II						Diseases of Category III					
	Meningococcal disease			Scarlet fever			Tetanus			Viral hepatitis B		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	0	6	11	9	2,268	11,253	2	27	26	5	312	292
Seoul	0	2	3	3	325	1,484	0	2	2	0	50	53
Busan	0	0	1	2	132	789	0	2	2	1	18	20
Daegu	0	0	1	0	43	397	0	1	2	1	11	9
Incheon	0	1	1	0	116	527	0	0	1	0	18	15
Gwangju	0	0	0	0	289	539	0	1	1	0	6	6
Daejeon	0	0	0	0	85	423	0	0	1	0	12	10
Ulsan	0	0	0	0	82	488	0	0	0	0	7	7
Sejong	0	0	0	0	12	60	0	1	0	0	2	0
Gyeonggi	0	2	2	0	562	3,290	0	2	3	1	84	71
Gangwon	0	0	1	0	50	174	0	1	1	0	11	9
Chungbuk	0	0	0	0	33	208	0	3	1	0	9	11
Chungnam	0	0	0	0	72	503	0	6	1	0	13	16
Jeonbuk	0	0	0	0	57	381	1	4	1	1	15	15
Jeonnam	0	0	0	0	99	432	0	2	4	1	17	14
Gyeongbuk	0	1	1	2	82	572	0	1	3	0	8	16
Gyeongnam	0	0	1	1	169	857	1	1	3	0	28	17
Jeju	0	0	0	1	60	129	0	0	0	0	3	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 November 14, 2020 (46th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Japanese encephalitis			Malaria			Legionellosis			<i>Vibrio vulnificus</i> sepsis		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	0	6	25	2	371	594	2	330	200	0	69	43
Seoul	0	0	8	0	55	84	0	90	59	0	11	6
Busan	0	0	0	0	2	8	0	19	10	0	7	3
Daegu	0	0	2	0	3	7	0	9	7	0	0	1
Incheon	0	1	1	1	50	88	1	17	17	0	6	3
Gwangju	0	0	1	0	5	4	0	13	2	0	1	1
Daejeon	0	0	1	0	4	4	0	5	2	0	0	1
Ulsan	0	0	0	0	3	4	0	2	3	0	1	1
Sejong	0	0	0	0	1	1	0	1	0	0	0	0
Gyeonggi	0	4	5	0	213	337	0	76	47	0	10	9
Gangwon	0	1	1	0	12	17	0	8	8	0	2	0
Chungbuk	0	0	1	0	4	6	0	15	8	0	0	1
Chungnam	0	0	2	1	7	8	0	6	6	0	9	2
Jeonbuk	0	0	0	0	4	4	0	12	4	0	2	2
Jeonnam	0	0	1	0	1	4	0	14	5	0	10	5
Gyeongbuk	0	0	1	0	3	7	0	13	13	0	2	2
Gyeongnam	0	0	1	0	4	8	1	12	6	0	7	5
Jeju	0	0	0	0	0	3	0	18	3	0	1	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 November 14, 2020 (46th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Murine typhus			Scrub typhus			Leptospirosis			Brucellosis		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	2	27	13	654	2,564	6,501	13	139	97	0	6	2
Seoul	0	2	1	5	29	196	0	9	5	0	1	1
Busan	0	1	1	54	180	385	1	7	5	0	0	0
Daegu	0	1	0	21	74	130	0	1	1	0	0	0
Incheon	1	12	1	8	27	67	0	1	2	0	0	0
Gwangju	0	0	2	9	72	198	0	3	3	0	0	0
Daejeon	0	0	0	28	89	201	5	17	2	0	0	0
Ulsan	1	3	1	49	135	287	0	0	2	0	0	1
Sejong	0	0	0	7	23	41	1	4	0	0	0	0
Gyeonggi	0	5	2	0	50	552	0	11	16	0	0	0
Gangwon	0	1	0	0	13	59	0	5	5	0	0	0
Chungbuk	0	0	0	12	49	170	3	20	4	0	0	0
Chungnam	0	1	1	59	276	757	1	15	13	0	0	0
Jeonbuk	0	0	1	63	277	730	1	9	5	0	3	0
Jeonnam	0	0	2	97	478	1,053	0	14	13	0	2	0
Gyeongbuk	0	1	0	46	161	435	1	13	9	0	0	0
Gyeongnam	0	0	1	190	604	1,185	0	10	11	0	0	0
Jeju	0	0	0	6	27	55	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 November 14, 2020 (46th Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III											
	Hemorrhagic fever with renal syndrome			Creutzfeldt-Jacob Disease			Dengue fever			Q fever		
	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
Overall	22	205	360	0	66	41	0	43	209	0	67	93
Seoul	1	5	14	0	14	9	0	14	66	0	1	6
Busan	1	4	12	0	8	3	0	5	11	0	1	1
Daegu	1	4	3	0	5	2	0	2	11	0	0	2
Incheon	0	2	6	0	3	2	0	2	11	0	3	2
Gwangju	1	2	6	0	2	0	0	0	2	0	2	4
Daejeon	1	2	4	0	1	1	0	0	4	0	3	3
Ulsan	0	0	2	0	3	1	0	1	4	0	0	2
Sejong	0	0	1	0	0	0	0	0	1	0	0	0
Gyeonggi	0	27	72	0	16	10	0	13	59	0	12	12
Gangwon	0	15	12	0	1	2	0	0	4	0	0	0
Chungbuk	0	7	19	0	1	1	0	0	3	0	9	21
Chungnam	4	19	50	0	1	1	0	2	6	0	10	12
Jeonbuk	1	34	38	0	3	2	0	0	5	0	6	5
Jeonnam	6	40	60	0	1	1	0	1	4	0	14	11
Gyeongbuk	0	20	34	0	2	3	0	1	6	0	1	5
Gyeongnam	6	21	26	0	5	3	0	1	10	0	5	7
Jeju	0	3	1	0	0	0	0	1	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 November 14, 2020 (46th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III								
	Lyme Borreliosis			Severe fever with thrombocytopenia syndrome			Zika virus infection		
	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
Overall	0	7	19	1	235	200	0	0	-
Seoul	0	3	7	0	10	10	0	0	-
Busan	0	0	1	0	0	2	0	0	-
Daegu	0	0	0	0	25	5	0	0	-
Incheon	0	0	2	0	3	3	0	0	-
Gwangju	0	0	0	0	2	1	0	0	-
Daejeon	0	0	1	0	3	3	0	0	-
Ulsan	0	0	0	0	7	4	0	0	-
Sejong	0	0	0	0	2	1	0	0	-
Gyeonggi	0	0	4	0	33	36	0	0	-
Gangwon	0	3	0	0	29	30	0	0	-
Chungbuk	0	0	0	0	3	8	0	0	-
Chungnam	0	1	1	0	20	18	0	0	-
Jeonbuk	0	0	1	0	11	9	0	0	-
Jeonnam	0	0	0	0	8	14	0	0	-
Gyeongbuk	0	0	1	0	32	27	0	0	-
Gyeongnam	0	0	1	1	34	17	0	0	-
Jeju	0	0	0	0	13	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 November 14, 2020 (46th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.3 cases (=0.33%)
- Variation: increase from 3.1 cases in 45th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

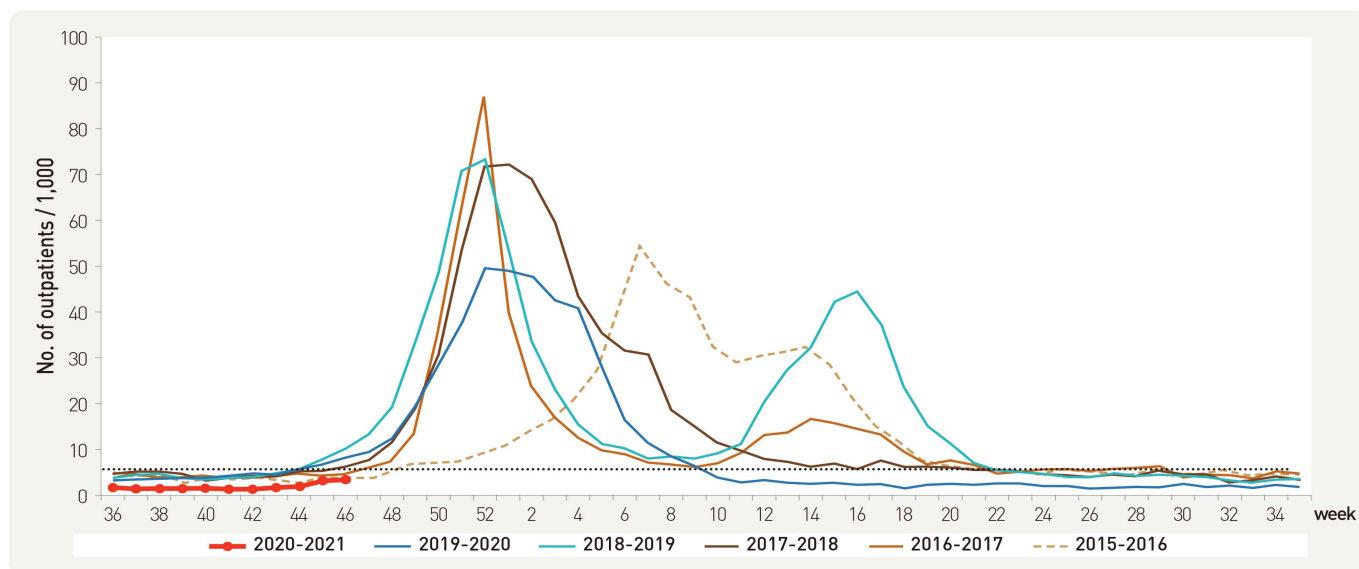


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending November 14, 2020 (46th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.3 case
- Variation: no change from 0.3 case in 45th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

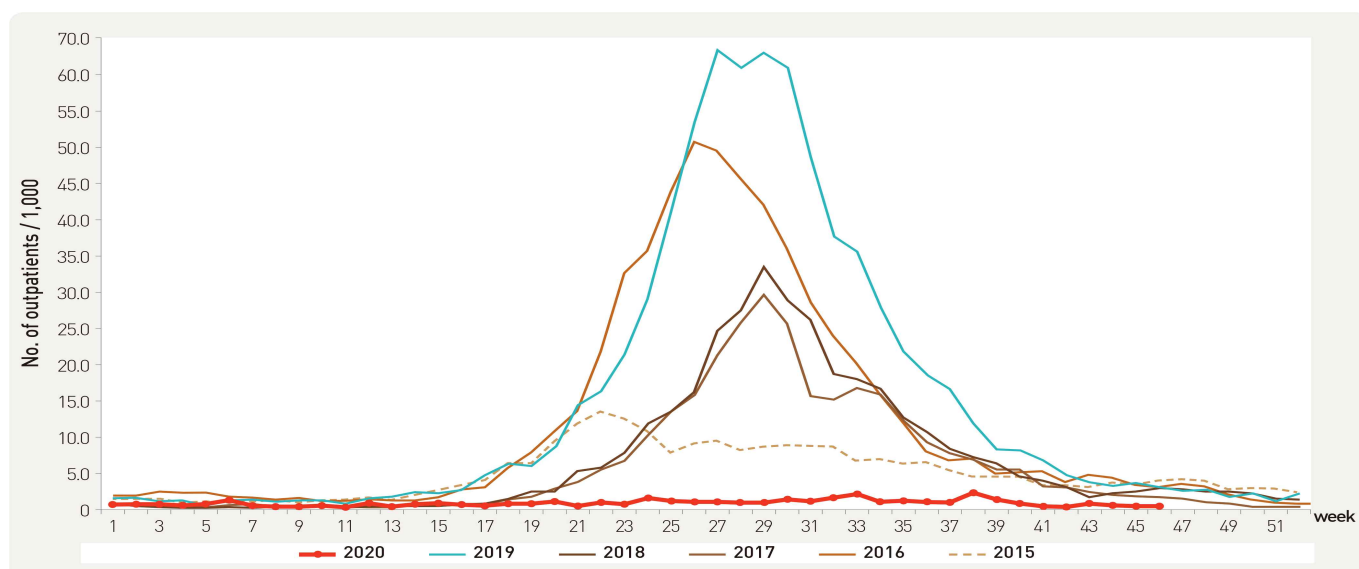


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending November 14, 2020 (46th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.2 cases
- Variation: decrease from 4.3 cases in 45th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

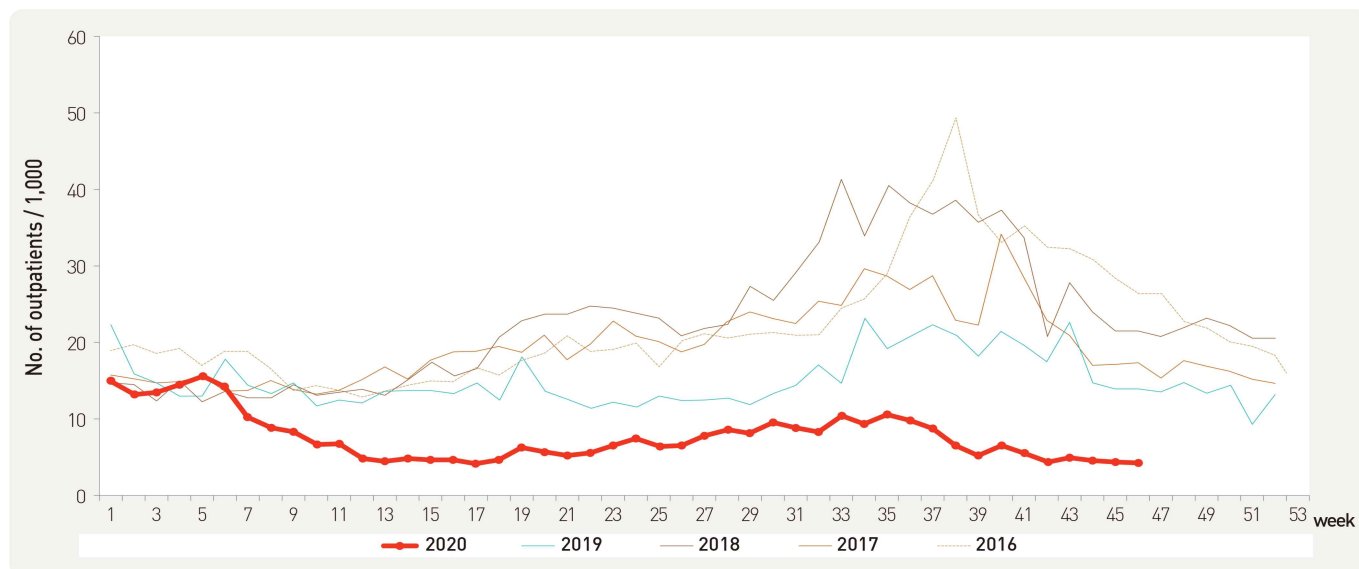


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.5 case
- Variation: increase from 0.4 case in 45th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

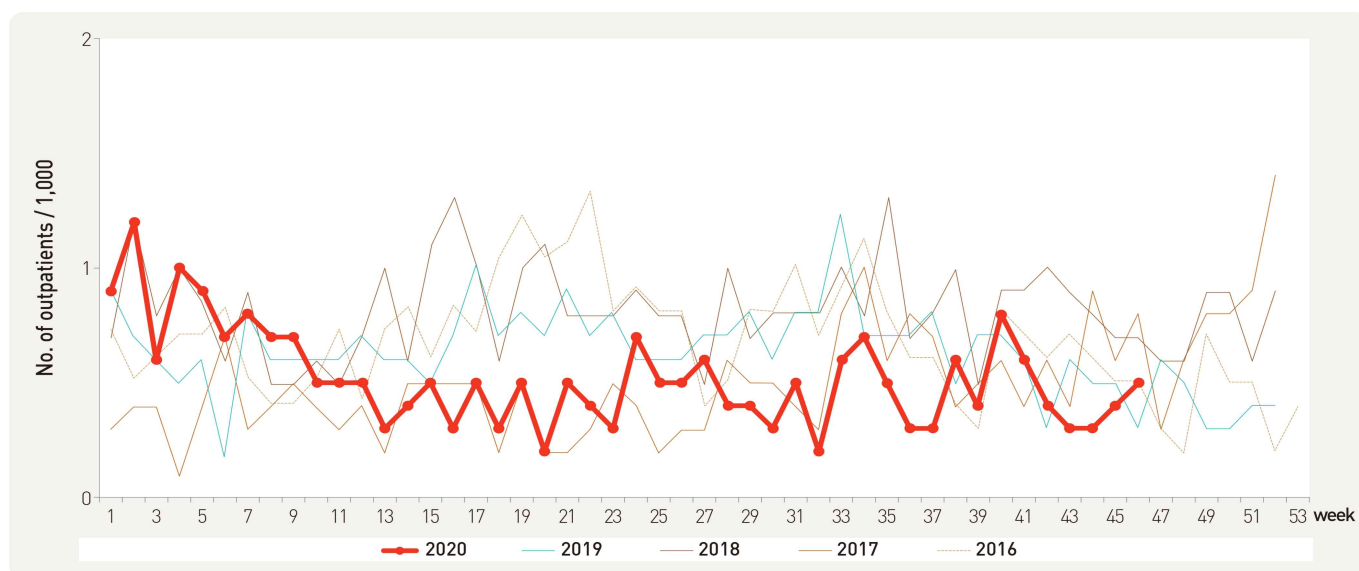


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending November 14, 2020 (46th Week)

- Cases per sentinel: 2.9 for human Papilloma virus infection, 2.2 for genital herpes, 1.8 for chlamydia, 1.5 for condyloma acuminata, 1.3 for gonorrhea, 1.0 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 45th week of 2020
Decrease: gonorrhea (1.8 → 1.3), chlamydia (2.2 → 1.8), genital herpes (3.3 → 2.2), human Papilloma virus infection (4.3 → 2.9), secondary Syphilis (1.0 → 0.0)
No change: condyloma acuminata (1.5 → 1.5), primary Syphilis (1.0 → 1.0), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 46th week: 20 for gonorrhea, 39 for chlamydia, 41 for genital herpes, 20 for condyloma acuminata, 26 for human Papilloma virus infection, 1 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 [§]
1.3	7.8	9.1	1.8	26.2	28.8	2.2	39.1	36.9	1.5	22.3	21.1

Human Papilloma virus infection			Primary Syphilis			Secondary Syphilis			Congenital Syphilis		
Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
2.9	72.7	72.7	1.0	2.3	2.3	0.0	2.8	2.8	0.0	1.0	1.0

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 November 14, 2020 (46th Week)

- No. of reported outbreaks: 6 with 106 patients (cumulative no. of outbreaks: 201 with 2,604 patients)
- Variation: increase from 1 in 45th week of 2020
- Reporting sites: 254 health centers

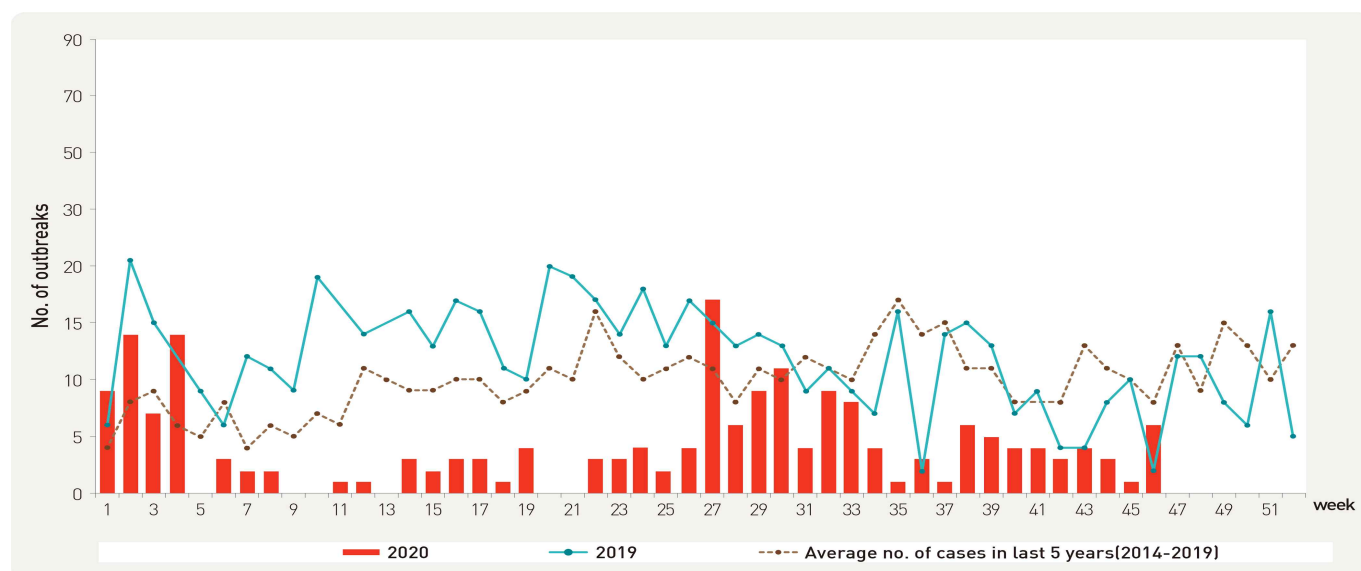


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending November 14, 2020 (46th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 117 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 109 specimens in 45th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

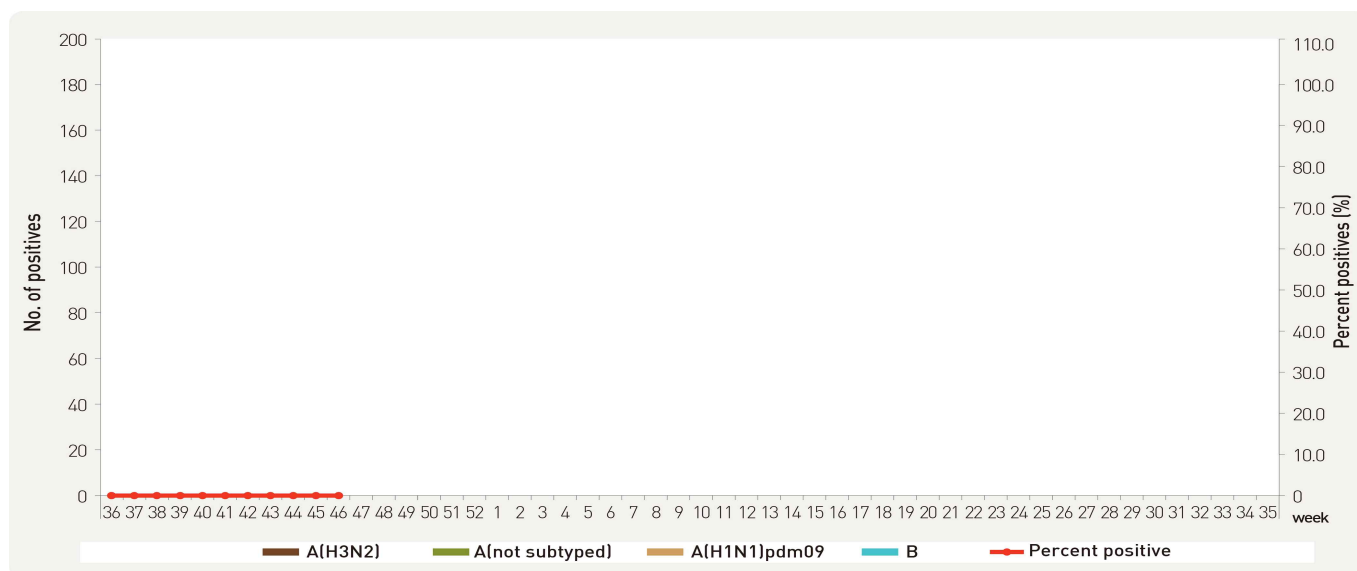


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending November 14, 2020 (46th Week)

- Detection rate: 50.4% (cumulative mean proportion during preceding three weeks plus current week: 52.1% out of 403 specimens)
- Variation (%p): decrease from 63.3% in 45th week of 2020
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2020 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
43	71	40.8	7.0	0.0	0.0	0.0	0.0	29.6	4.2	0.0
44	106	51.9	3.8	0.0	0.0	0.0	0.0	40.6	7.6	0.0
45	109	63.3	4.6	0.0	0.0	0.0	0.0	52.3	6.4	0.0
46	117	50.4	4.3	0.0	0.0	0.0	0.0	39.3	6.8	0.0
Cum.*	403	52.1	4.7	0.0	0.0	0.0	0.0	40.9	6.5	0.0
2019 Cum.†	12,151	60.2	8.0	6.4	3.9	14.0	2.9	17.2	2.8	5.0

- HAdV: human Adenovirus, HPIV: human Parainfluenza virus, HRSV: human Respiratory syncytial virus, IFV: Influenza virus,

HCoV: human Coronavirus, HRV: human Rhinovirus, HBoV: human Bocavirus, HMPV: human Metapneumovirus

* Cum. : the rate of detected cases between October 18, 2020 – November 14, 2020 (Average no. of detected cases is 101 last 4 weeks)

† 2019 Cum. : the rate of detected cases between December 30, 2018 – December 28, 2019

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

1. Acute gastroenteritis-causing virus, weeks ending November 7, 2020 (45th Week)

- Detection rate: 0.0% [cumulative mean proportion in 2020: 294 cases (15.6%) out of 1,889 specimens]
- Variation (%p): decrease from 6.9% in 44th week of 2020
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week	No. of sample	No. of detection (Detection rate, %)											
		Norovirus		Group A Rotavirus		Enteric Adenovirus		Astrovirus		Sapovirus		Total	
2020 42	35	2	(5.7)	0	(0.0)	0	(0.0)	1	(2.9)	0	(0.0)	3	(8.6)
43	25	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
44	29	0	(0.0)	2	(6.9)	0	(0.0)	0	(0.0)	0	(0.0)	2	(6.9)
45	25	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Cum. 2020	1,889	221	(11.7)	38	(2.0)	13	(0.7)	18	(1.0)	4	(0.2)	294	(15.6)

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

2. Acute gastroenteritis-causing bacteria, weeks ending November 7, 2020 (45th Week)

- Detection rate: 13.0% [cumulative mean proportion in 2020: 1,334 cases (16.3%) out of 8,206 specimens]
- Variation (%p): decrease from 15.7% in 44th week of 2020
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week		No. of Sample	No. of isolation (Isolation rate, %)									
			<i>Salmonella</i> spp.	Pathogenic <i>E.coli</i>	<i>Shigella</i> spp.	<i>V.parahaemolyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C.perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2020	42	160	7 (4.4)	5 (3.1)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.3)	9 (5.6)	2 (1.3)	2 (1.3)	27 (16.9)
	43	132	3 (2.3)	6 (4.5)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.5)	1 (0.8)	1 (0.8)	4 (3.0)	18 (13.6)
	44	140	1 (0.7)	5 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	3 (2.1)	3 (2.1)	5 (3.6)	5 (3.6)	22 (15.7)
	45	108	0 (0.0)	2 (1.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	5 (4.6)	3 (2.8)	4 (3.7)	14 (13.0)
Cum. 2020		8,206	228 (2.8)	381 (4.6)	2 (0.02)	2 (0.02)	0 (0.0)	162 (2.0)	210 (2.6)	156 (1.9)	174 (2.1)	1,334 (16.3)

* Bacterial Pathogens: *Salmonella* spp., *E. coli* (EHEC, ETEC, EPEC, EIEC), *Shigella* spp., *Vibrio parahaemolyticus*, *Vibrio cholerae*, *Campylobacter* spp., *Clostridium perfringens*, *Staphylococcus aureus*, *Bacillus cereus*, *Listeria monocytogenes*, *Yersinia enterocolitica*.

* Hospitals participating in Laboratory surveillance in 2020 (69 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending November 7, 2020 (45th Week)

- Detection rate: 0.0% (0 case / 8 specimens) [cumulative mean proportion in 2020: 4.2% (17 cases / 405 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2020: 4 cases)
 - HFMD and herpangina: 0 case (Cum. 2020: 6 cases)
 - HFMD with complications: 0 case (Cum. 2020: 0 case)
 - Other: 0 case (Cum. 2020: 7 cases)
- Variation (%p): no change from 0.0% in 44th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

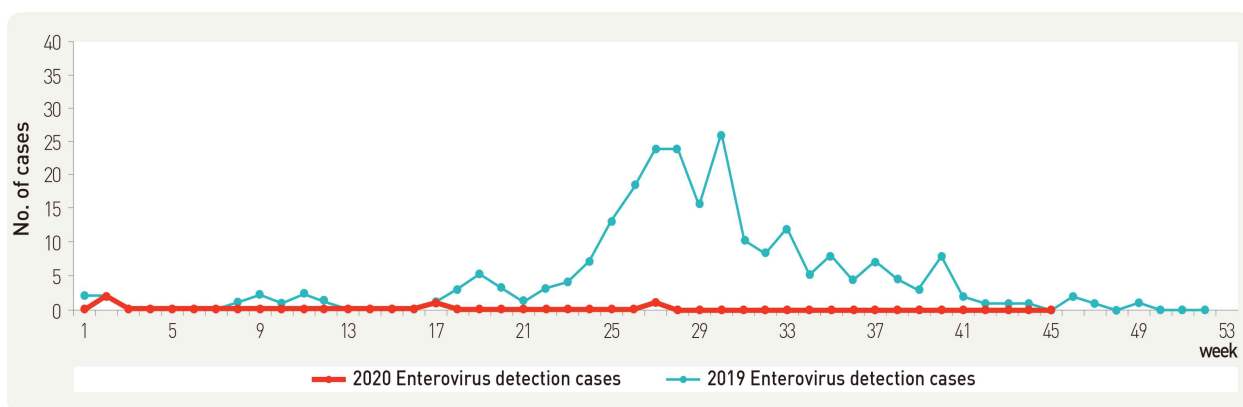


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

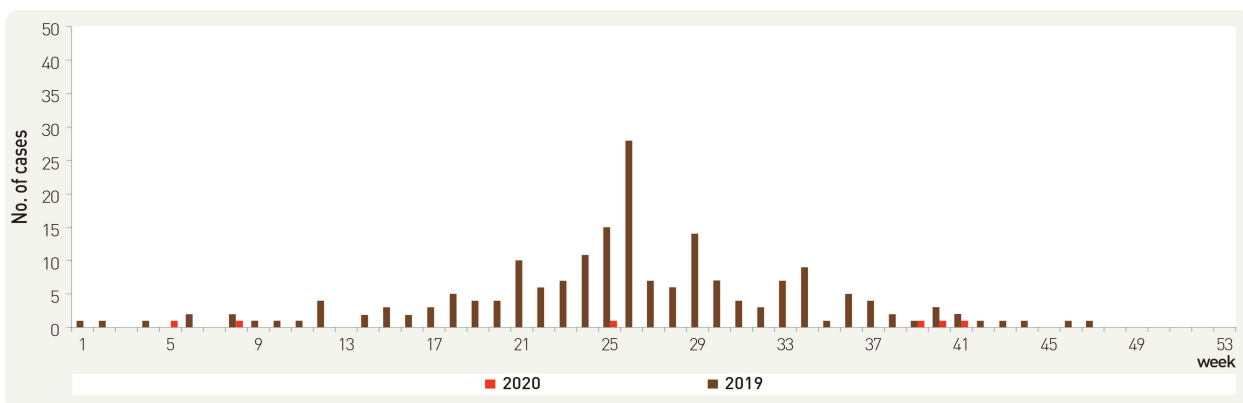


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

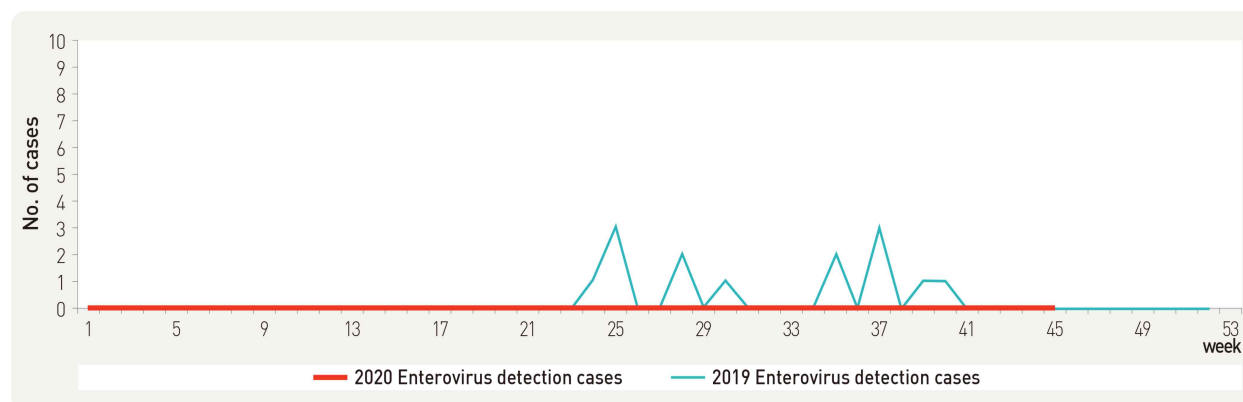


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending November 14, 2020 (46th Week)

- No. of chigger mites: 574
- Variation: increase from 507 in 45th week of 2020
- Sentinel reporting sites: 9 city/province (16 sites)
 - ※ No. of chigger mites: number of chigger in 16 sites (320 traps) per week

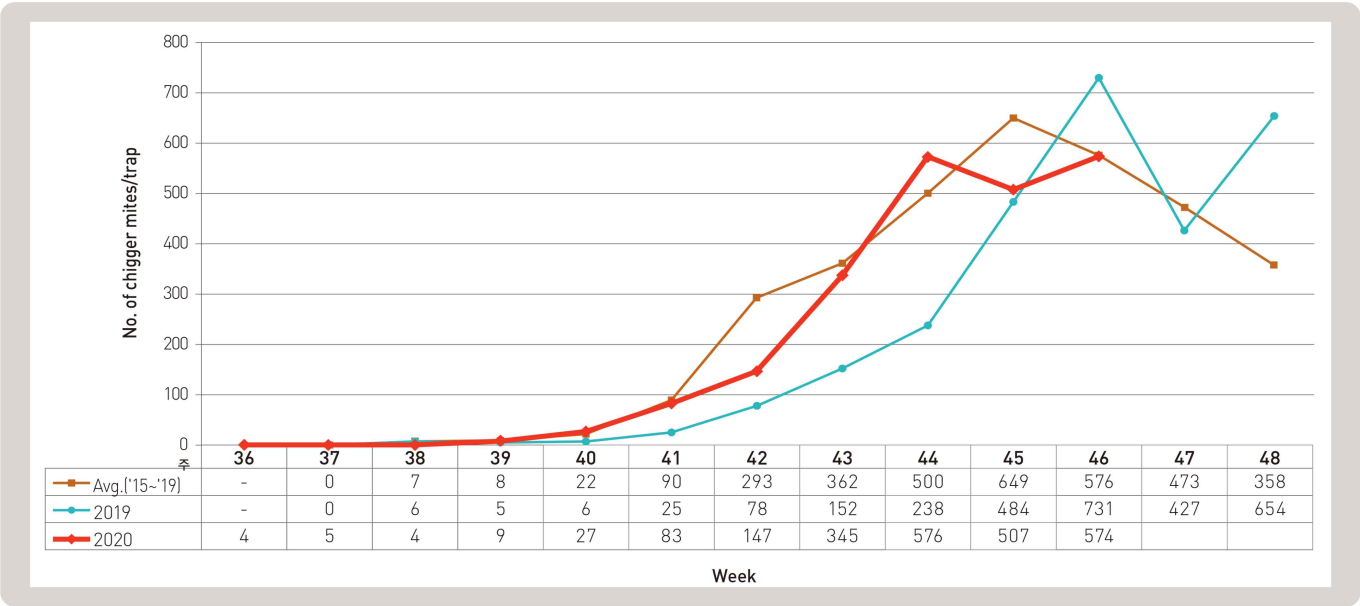


Figure 10. Weekly incidences of scrub typhus vector chiggers in 2020

About PHWR Disease Surveillance Statistics

The Public Health Weekly Report (PHWR) Disease Surveillance Statistics is prepared by the Korea Centers for Disease Control and Prevention (Korea CDC). These provisional surveillance data on the reported occurrence of national notifiable diseases and conditions are compiled through population-based or sentinel-based surveillance systems and published weekly, except for data on infrequent or recently-designated diseases. These surveillance statistics are informative for analyzing infectious disease or condition numbers and trends. However, the completeness of data might be influenced by some factors such as a date of symptom or disease onset, diagnosis, laboratory result, reporting of a case to a jurisdiction, or notification to Korea Centers for Disease Control and Prevention. The official and final disease statistics are published in infectious disease surveillance yearbook annually.

Using and Interpreting These Data in Tables

- **Current Week** – The number of cases under current week denotes cases who have been reported to Korea CDC at the central level via corresponding jurisdictions(health centers, and health departments) during that week and accepted/approved by surveillance staff.
- **Cum. 2018** – For the current year, it denotes the cumulative(Cum) year-to-date provisional counts for the specified condition.
- **5-year weekly average** – The 5-year weekly average is calculated by summing, for the 5 proceeding years, the provisional incidence counts for the current week, the two weeks preceding the current week, and the two weeks following the current week. The total sum of cases is then divided by 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	2018			Current week		
	2017	X1	X2	X3	X4	X5
	2016	X6	X7	X8	X9	X10
	2015	X11	X12	X13	X14	X15
	2014	X16	X17	X18	X19	X20
	2013	X21	X22	X23	X24	X25

5-year weekly average for current week

$$= (X1 + X2 + \dots + X25) / 25$$

- **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. 2018 and cum. 5-year average.

Contact Us

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