

I. National Notifiable Infectious Diseases

1. Reported cases, week ending November 7, 2020 (45th 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	420	17,482	527	23,821	26,433	28,161	30,892	32,181	
Varicella	382	28,806	1,645	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	2	73	1	94	213	128	121	121	
Paratyphoid fever	1	100	1	55	47	73	56	44	
Shigellosis	1	40	2	151	191	112	113	88	
EHEC	0	310	2	146	121	138	104	71	
Viral hepatitis A	28	3,159	63	17,598	2,437	4,419	4,679	1,804	
Pertussis	0	124	9	496	980	318	129	205	
Mumps	155	9,044	344	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	5	310	10	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	13	2,257	227	7,562	15,777	22,838	11,911	7,002	
VRSA	0	9	-	3	0	0	-	-	
CRE	298	14,276	-	15,369	11,954	5,717	-	-	
Viral hepatitis E	5	128	-	-	-	-	-	-	
Category III									
Tetanus	0	25	0	31	31	34	24	22	
Viral hepatitis B	2	303	7	389	392	391	359	155	
Japanese encephalitis	1	5	1	34	17	9	28	40	
Viral hepatitis C	149	10,002	195	9,810	10,811	6,396	-	-	
Malaria	0	382	3	559	576	515	673	699	
Legionellosis	3	321	5	501	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	69	1	42	47	46	56	37	
Murine typhus	2	23	1	14	16	18	18	15	
Scrub typhus	479	1,811	1,118	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	13	123	7	138	118	103	117	104	
Brucellosis	0	6	0	1	5	6	4	5	
HFRS	6	179	24	399	433	531	575	384	
HIV/AIDS	18	671	19	1,005	989	1,008	1,060	1,018	
CJD	0	65	1	53	53	36	42	33	
Dengue fever	0	43	6	273	159	171	313	255	
Q fever	0	66	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	0	0	16	3	5	10	2	
SFTS	1	232	3	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 7, 2020 (45th 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	420	17,482	24,473	382	28,806	54,932	0	7	45	0	0	2
Seoul	77	3,040	4,490	0	3,363	6,353	0	2	6	0	0	0
Busan	28	1,127	1,712	22	1,599	3,055	0	0	2	0	0	1
Daegu	23	859	1,155	16	1,422	2,893	0	0	3	0	0	0
Incheon	24	896	1,282	13	1,463	2,799	0	0	2	0	0	0
Gwangju	11	438	601	15	1,265	1,839	0	0	0	0	0	0
Daejeon	11	378	551	18	938	1,536	0	0	5	0	0	0
Ulsan	9	327	501	12	615	1,667	0	0	1	0	0	0
Sejong	4	76	76	8	247	547	0	0	0	0	0	0
Gyeonggi	101	3,747	5,245	125	7,599	15,413	0	3	15	0	0	0
Gangwon	16	739	1,035	14	839	1,505	0	0	1	0	0	0
Chungbuk	17	546	754	15	1,076	1,409	0	0	0	0	0	0
Chungnam	17	881	1,156	29	1,033	2,036	0	0	2	0	0	0
Jeonbuk	8	731	945	12	1,131	2,314	0	0	1	0	0	0
Jeonnam	26	921	1,264	13	1,111	2,261	0	1	2	0	0	0
Gyeongbuk	23	1,325	1,780	23	1,569	2,917	0	0	3	0	0	0
Gyeongnam	22	1,217	1,619	34	2,870	4,985	0	1	2	0	0	1
Jeju	3	234	306	13	666	1,403	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 7, 2020 (45th 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	2	73	123	1	100	51	1	40	111	0	310	106
Seoul	0	9	23	0	13	10	0	7	27	0	24	16
Busan	0	8	10	0	26	6	0	5	7	0	8	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	1	2	3	0	3	2	0	2	3	0	16	16
Daejeon	0	2	6	0	2	2	0	0	2	0	7	2
Ulsan	0	1	3	0	0	0	0	2	1	0	8	4
Sejong	0	0	1	0	0	0	0	0	0	0	2	1
Gyeonggi	0	22	27	0	15	10	0	8	21	0	145	20
Gangwon	0	7	4	0	5	2	0	1	2	0	6	4
Chungbuk	1	1	4	0	1	2	0	0	3	0	4	3
Chungnam	0	4	5	1	5	1	0	3	6	0	9	3
Jeonbuk	0	1	2	0	1	3	0	0	2	0	2	2
Jeonnam	0	0	6	0	7	2	1	3	6	0	15	7
Gyeongbuk	0	2	5	0	3	2	0	1	6	0	19	4
Gyeongnam	0	5	10	0	5	4	0	3	7	0	12	4
Jeju	0	1	3	0	1	1	0	2	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 7, 2020 (45th 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	28	3,159	5,766	0	124	358	155	9,044	16,199	0	2	6
Seoul	0	598	1,073	0	15	46	0	1,114	1,656	0	0	2
Busan	1	81	204	0	6	34	13	483	1,002	0	1	0
Daegu	0	69	88	0	5	11	7	374	567	0	0	0
Incheon	13	334	390	0	6	20	2	442	713	0	0	0
Gwangju	2	64	97	0	10	17	11	299	895	0	0	0
Daejeon	1	120	644	0	7	7	6	254	386	0	0	1
Ulsan	0	33	39	0	2	10	5	261	548	0	0	0
Sejong	0	19	92	0	0	5	3	63	69	0	0	0
Gyeonggi	0	1,034	1,745	0	21	56	61	2,668	4,141	0	1	1
Gangwon	1	84	103	0	0	3	6	305	499	0	0	0
Chungbuk	0	115	282	0	0	8	4	272	350	0	0	0
Chungnam	3	191	432	0	5	7	7	412	617	0	0	0
Jeonbuk	2	178	221	0	2	7	4	396	1,020	0	0	0
Jeonnam	1	54	106	0	20	16	7	357	759	0	0	1
Gyeongbuk	2	91	104	0	9	24	9	446	819	0	0	1
Gyeongnam	1	70	119	0	15	82	9	739	1,948	0	0	0
Jeju	1	24	27	0	1	5	1	159	210	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 7, 2020 (45th 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	13	2,257	11,009	0	25	25	2	303	284
Seoul	0	2	3	0	317	1,457	0	2	2	0	46	51
Busan	0	0	1	2	131	770	0	2	2	1	17	20
Daegu	0	0	1	0	43	389	0	1	2	0	10	9
Incheon	0	1	1	0	116	514	0	0	1	0	18	15
Gwangju	0	0	0	4	290	527	0	1	1	0	6	6
Daejeon	0	0	0	0	85	413	0	0	1	0	12	10
Ulsan	0	0	0	1	82	479	0	0	0	0	7	6
Sejong	0	0	0	0	12	58	0	1	0	0	2	0
Gyeonggi	0	2	2	0	562	3,221	0	2	3	0	83	70
Gangwon	0	0	1	1	50	168	0	1	1	0	11	8
Chungbuk	0	0	0	2	33	203	0	3	0	0	9	11
Chungnam	0	0	0	0	72	492	0	6	1	0	13	15
Jeonbuk	0	0	0	0	57	373	0	3	1	0	14	15
Jeonnam	0	0	0	1	99	423	0	2	4	1	16	13
Gyeongbuk	0	1	1	1	81	558	0	1	3	0	8	15
Gyeongnam	0	0	1	0	168	837	0	0	3	0	28	17
Jeju	0	0	0	1	59	127	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 7, 2020 (45th 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	1	5	24	0	382	593	3	321	195	0	69	43
Seoul	0	0	8	0	56	83	0	86	56	0	11	6
Busan	0	0	0	0	2	8	1	17	10	0	7	3
Daegu	0	0	2	0	3	7	0	9	7	0	0	1
Incheon	1	1	1	0	49	88	0	15	17	0	6	3
Gwangju	0	0	1	0	5	4	1	13	2	0	1	1
Daejeon	0	0	1	0	5	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	3	4	0	224	337	0	76	45	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	0	6	8	0	6	6	0	9	2
Jeonbuk	0	0	0	0	4	4	1	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	0	11	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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§ 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 7, 2020 (45th 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	23	11	479	1,811	5,054	13	123	92	0	6	2
Seoul	0	2	1	0	16	156	0	9	5	0	1	1
Busan	0	1	1	26	101	264	0	5	4	0	0	0
Daegu	0	1	0	17	47	91	0	1	1	0	0	0
Incheon	2	12	1	3	15	55	0	1	2	0	0	0
Gwangju	0	0	1	17	62	159	1	3	3	0	0	0
Daejeon	0	0	0	14	60	165	2	12	2	0	0	0
Ulsan	0	0	1	25	79	220	0	0	2	0	0	1
Sejong	0	0	0	3	16	33	0	3	0	0	0	0
Gyeonggi	0	5	1	0	50	448	0	11	15	0	0	0
Gangwon	0	1	0	3	13	51	0	5	5	0	0	0
Chungbuk	0	0	0	3	35	137	4	17	4	0	0	0
Chungnam	0	1	1	60	213	624	3	14	12	0	0	0
Jeonbuk	0	0	1	48	209	572	0	7	5	0	3	0
Jeonnam	0	0	2	104	378	827	1	14	12	0	2	0
Gyeongbuk	0	0	0	20	99	327	2	11	9	0	0	0
Gyeongnam	0	0	1	134	397	888	0	10	10	0	0	0
Jeju	0	0	0	2	21	37	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 7, 2020 (45th 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	6	179	338	0	65	41	0	43	202	0	66	91
Seoul	0	4	13	0	14	9	0	14	64	0	1	6
Busan	0	2	11	0	7	3	0	5	11	0	1	1
Daegu	0	3	2	0	5	2	0	2	10	0	0	2
Incheon	0	2	5	0	3	2	0	2	11	0	2	2
Gwangju	0	1	6	0	2	0	0	0	2	0	2	4
Daejeon	0	1	4	0	1	1	0	0	4	0	3	3
Ulsan	0	0	2	0	3	1	0	1	3	0	0	2
Sejong	0	0	1	0	0	0	0	0	1	0	0	0
Gyeonggi	0	27	69	0	16	10	0	13	57	0	12	12
Gangwon	0	15	12	0	1	2	0	0	4	0	0	0
Chungbuk	0	7	18	0	1	1	0	0	3	0	9	20
Chungnam	0	14	47	0	1	1	0	2	6	0	10	12
Jeonbuk	1	32	37	0	3	2	0	0	4	0	6	5
Jeonnam	3	34	56	0	1	1	0	1	4	0	14	10
Gyeongbuk	0	20	32	0	2	3	0	1	6	0	1	5
Gyeongnam	2	14	22	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 7, 2020 (45th 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	18	1	232	199	0	0	-
Seoul	0	3	7	0	9	10	0	0	-
Busan	0	0	0	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	29	0	0	-
Chungbuk	0	0	0	0	3	8	0	0	-
Chungnam	0	1	1	1	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	0	32	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 7, 2020 (45th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.1 cases (=0.31%)
- Variation: increase from 1.9 cases in 44th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

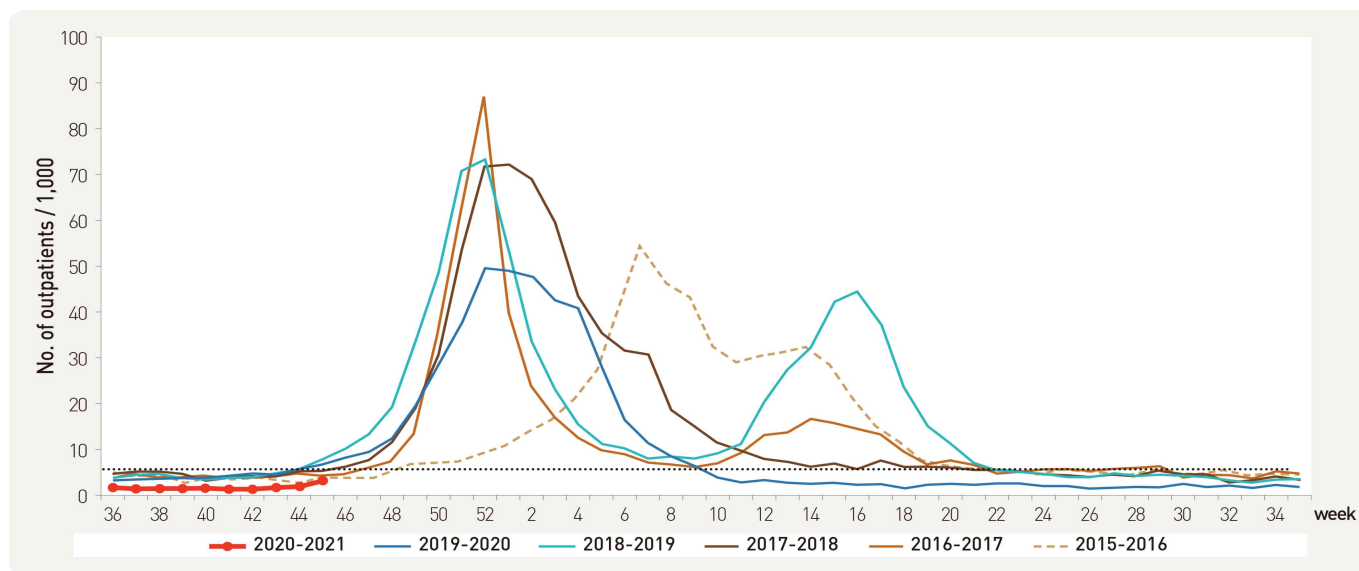


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending November 7, 2020 (45th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.3 case
- Variation: decrease from 0.6 case in 44th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

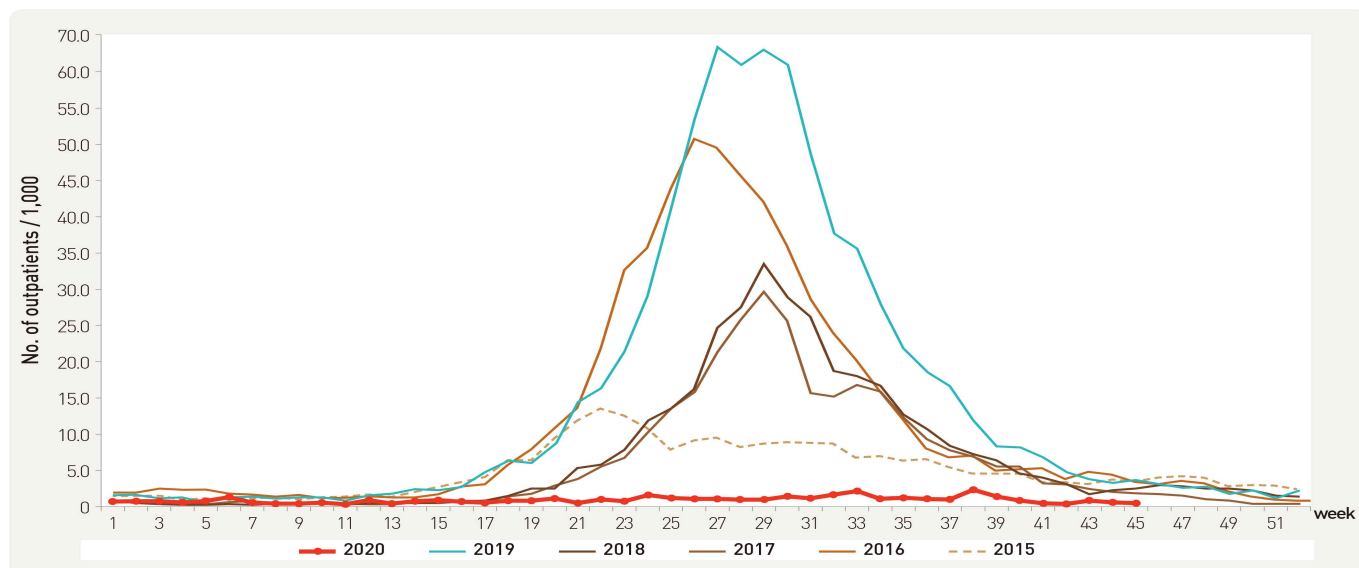


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending November 7, 2020 (45th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.3 cases
- Variation: decrease from 4.5 cases in 44th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

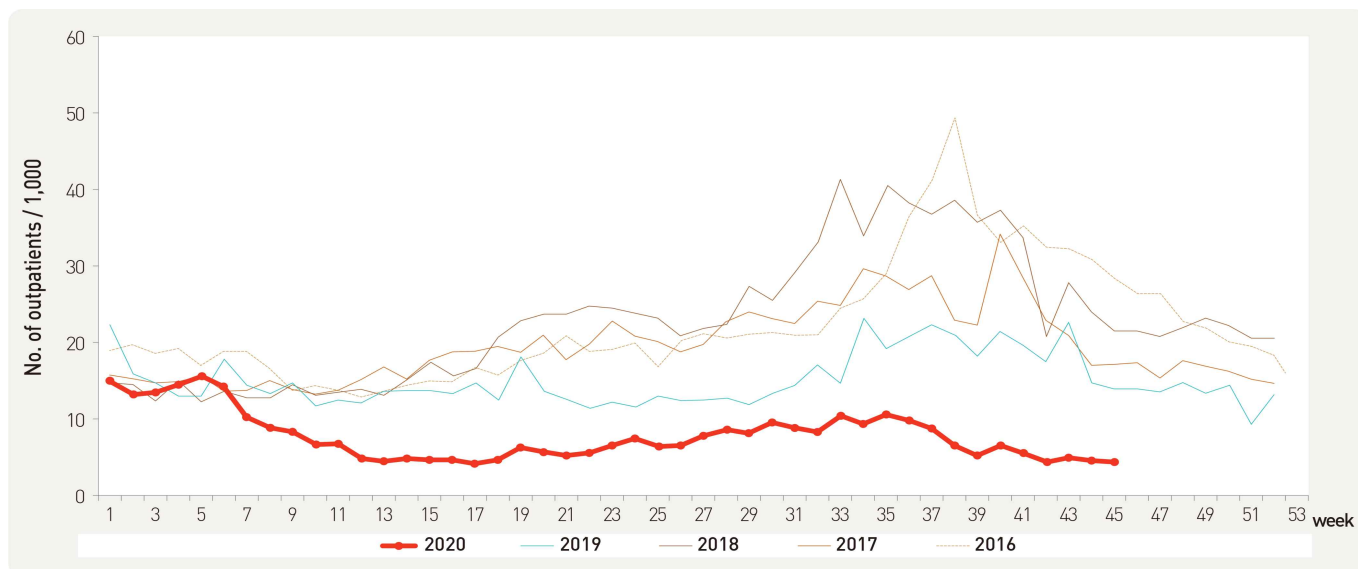


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.4 case
- Variation: increase from 0.3 case in 44th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

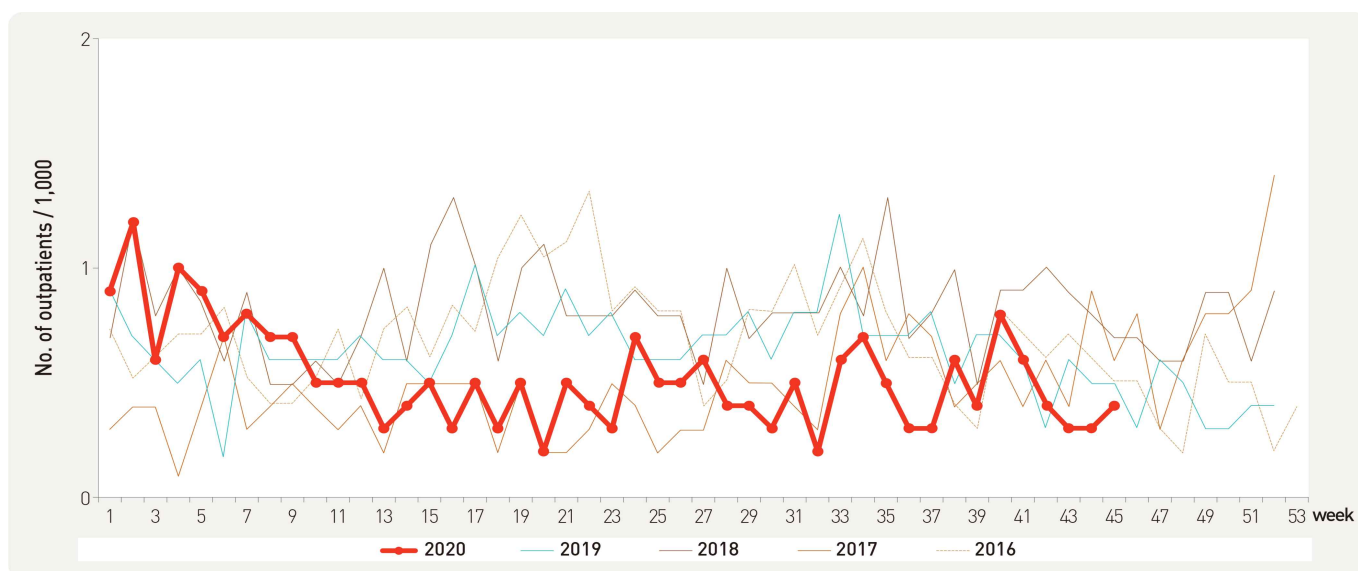


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending November 7, 2020 (45th Week)

- Cases per sentinel: 4.3 for human Papilloma virus infection, 3.3 for genital herpes, 2.2 for chlamydia, 1.8 for gonorrhea, 1.5 for condyloma acuminata, 1.0 for primary Syphilis, 1.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 44th week of 2020
Increase: chlamydia (1.9 → 2.2), genital herpes (2.5 → 3.3), human Papilloma virus infection (2.5 → 4.3), primary Syphilis (0.0 → 1.0), secondary Syphilis (0.0 → 1.0)
Decrease: gonorrhea (1.9 → 1.8), condyloma acuminata (1.8 → 1.5)
No change: congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 45th week: 6 for gonorrhea, 36 for chlamydia, 37 for genital herpes, 19 for condyloma acuminata, 26 for human Papilloma virus infection, 1 for primary Syphilis, 2 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 [§]
1.8	7.8	8.9	2.2	26.1	28.2	3.3	38.4	36.2	1.5	22.3	20.7

Human Papilloma virus infection			Primary Syphilis			Secondary Syphilis			Congenital Syphilis		
Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]	Current week	Cum. 2020	Cum. 5-year average [§]
4.3	70.7	70.7	1.0	2.9	2.9	1.0	2.9	2.9	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 7, 2020 (45th Week)

- No. of reported outbreaks: 1 with 2 patients (cumulative no. of outbreaks: 191 with 2,446 patients)
- Variation: decrease from 3 in 44th week of 2020
- Reporting sites: 254 health centers

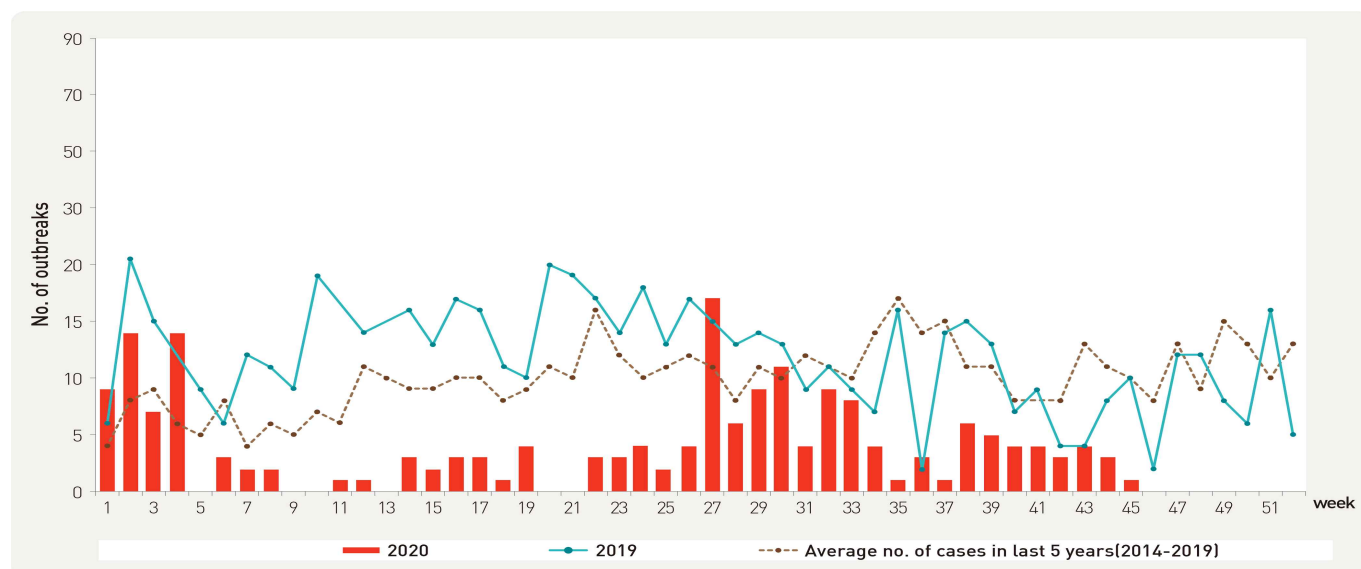


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

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

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 109 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 106 specimens in 44th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

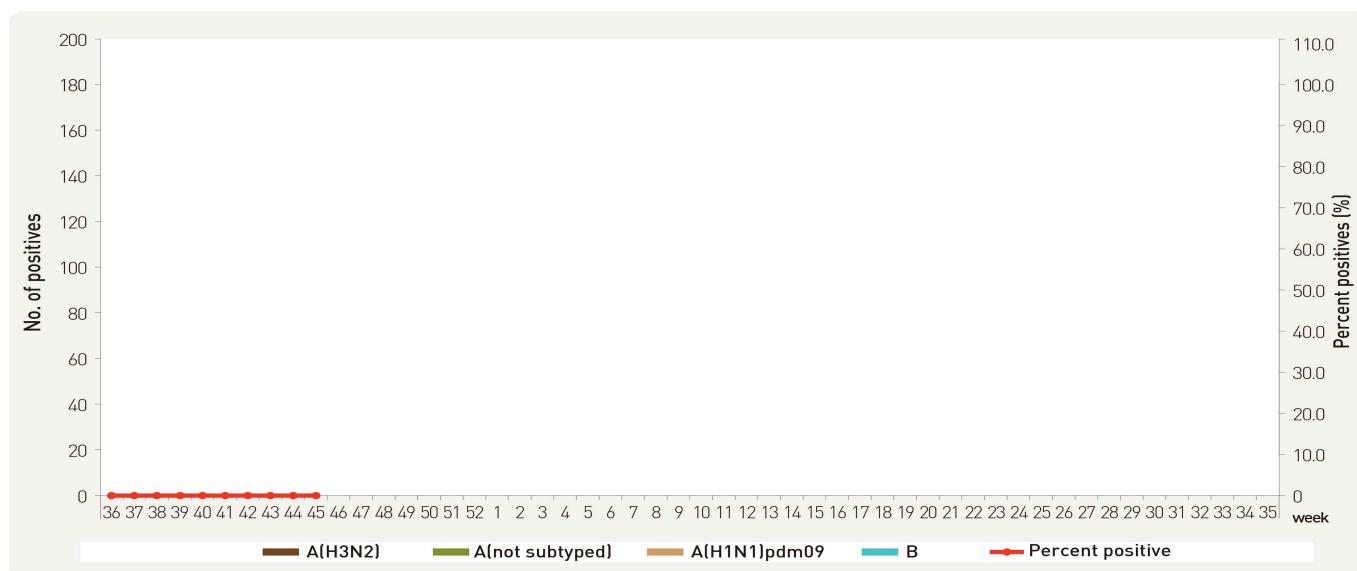


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending November 7, 2020 (45th Week)

- Detection rate: 63.3% (cumulative mean proportion during preceding three weeks plus current week: 48.0% out of 352 specimens)
- Variation (%p): increase from 51.9% in 44th 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
42	66	27.3	7.6	0.0	0.0	0.0	0.0	16.7	3.0	0.0
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
Cum.*	352	48.0	5.4	0.0	0.0	0.0	0.0	36.9	5.7	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 11, 2020 – November 7, 2020 (Average no. of detected cases is 88 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 October 31, 2020 (44th Week)

- Detection rate: 7.4% [cumulative mean proportion in 2020: 294 cases (15.8%) out of 1,860 specimens]
- Variation (%p): increase from 0.0% in 43rd 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 41	43	1	(2.3)	0	(0.0)	0	(0.0)	1	(2.3)	0	(0.0)	2	(4.7)
42	35	2	(5.7)	0	(0.0)	0	(0.0)	1	(2.9)	0	(0.0)	3	(8.6)
43	23	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
44	27	0	(0.0)	2	(7.4)	0	(0.0)	0	(0.0)	0	(0.0)	2	(7.4)
Cum. 2020	1,860	221	(11.9)	38	(2.0)	13	(0.7)	18	(1.0)	4	(0.2)	294	(15.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending October 31, 2020 (44th Week)

- Detection rate: 10.9% [cumulative mean proportion in 2020: 1,293 cases (16.2%) out of 8,005 specimens]
- Variation (%p): decrease from 11.3% in 43rd 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	41	195	5 (2.6)	7 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.0)	6 (3.1)	8 (4.1)	2 (1.0)	30 (15.4)
	42	154	5 (3.2)	5 (3.2)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.3)	9 (5.8)	2 (1.3)	2 (1.3)	25 (16.2)
	43	106	2 (1.9)	3 (2.8)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.9)	1 (0.9)	1 (0.9)	3 (2.8)	12 (11.3)
	44	101	1 (1.0)	2 (2.0)	0 (0.0)	0 (0.0)	0 (0.0)	3 (3.0)	1 (1.0)	4 (4.0)	0 (0.0)	11 (10.9)
Cum. 2020		8,005	222 (2.8)	370 (4.6)	2 (0.02)	2 (0.02)	0 (0.0)	161 (2.0)	203 (2.5)	152 (1.9)	162 (2.0)	1,293 (16.2)

* 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 October 31, 2020 (44th 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 43rd week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

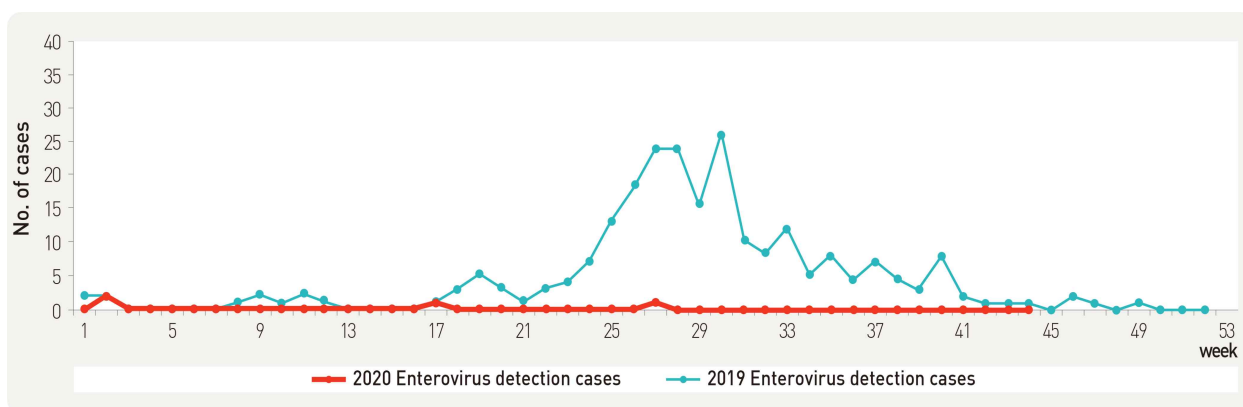


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

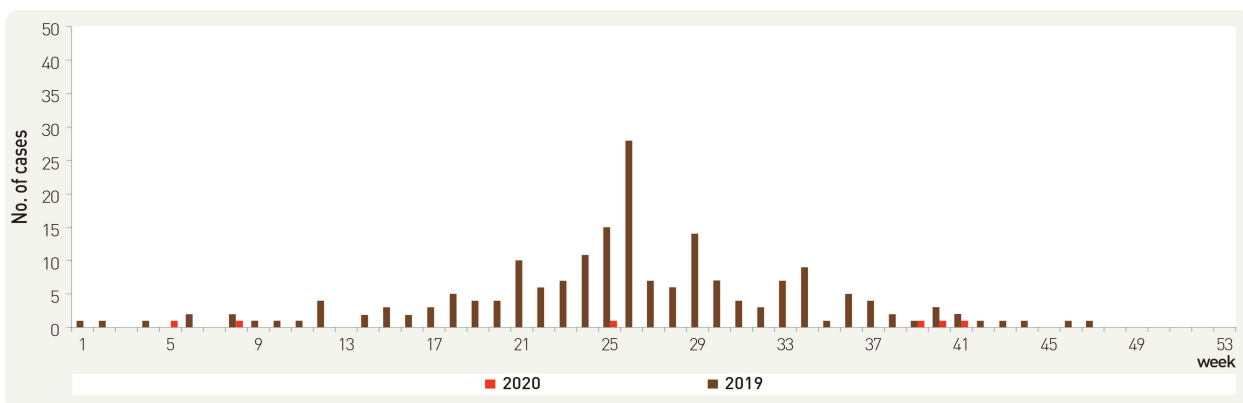


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

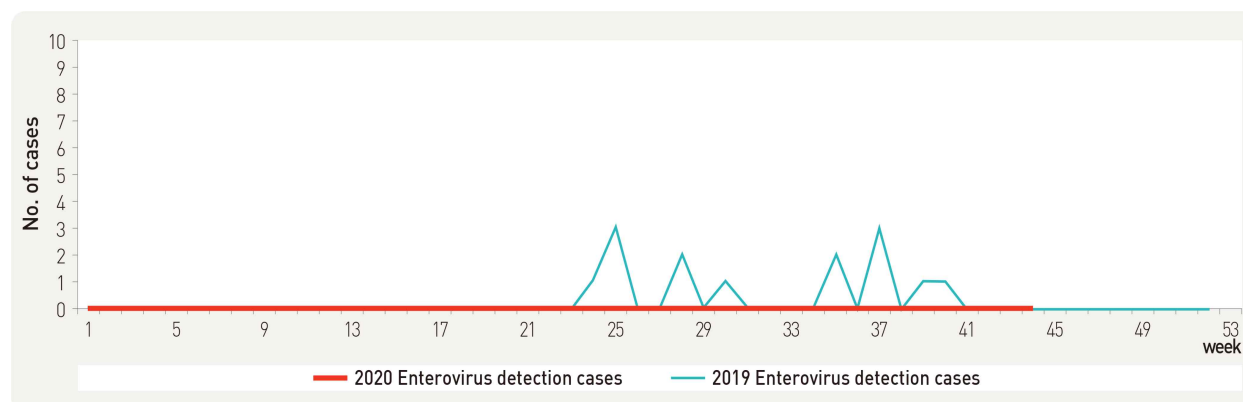


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending October 31, 2020 (44th Week)

- No. of malaria vector mosquitoes: 0
- Variation: no change from 0 in 43rd week of 2020
- Sentinel reporting sites: 3 city/province (51 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

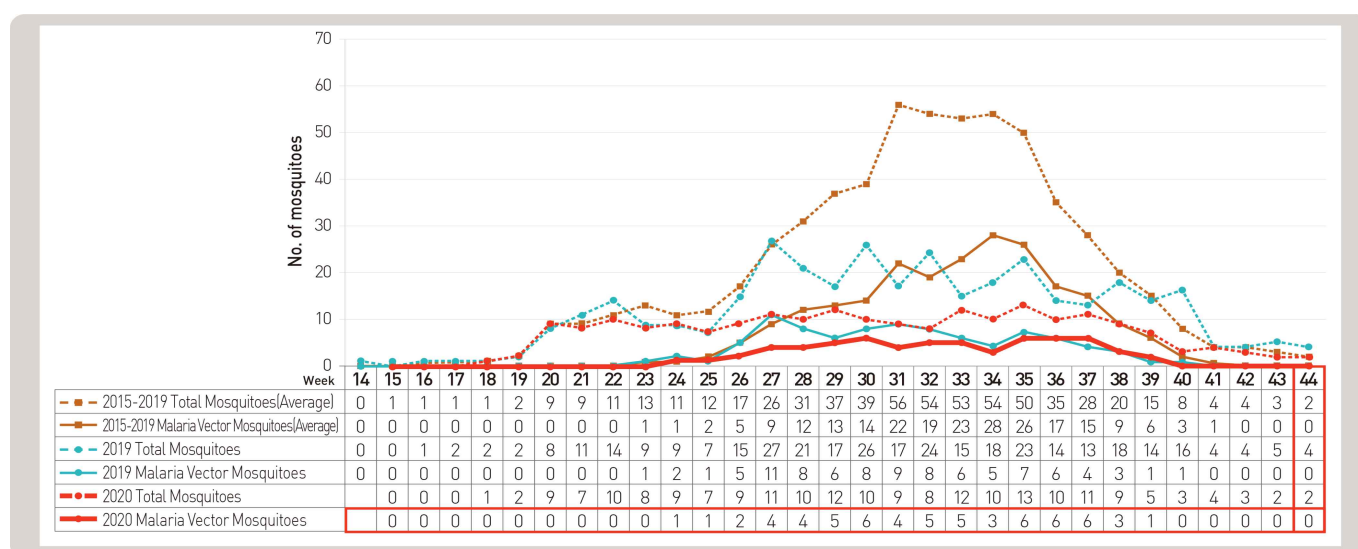


Figure 10. Weekly incidences of malaria vector mosquitoes in 2020

VIII. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending November 7, 2020 (45th Week)

- No. of chigger mites: 507
- Variation: decrease from 576 in 44th 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

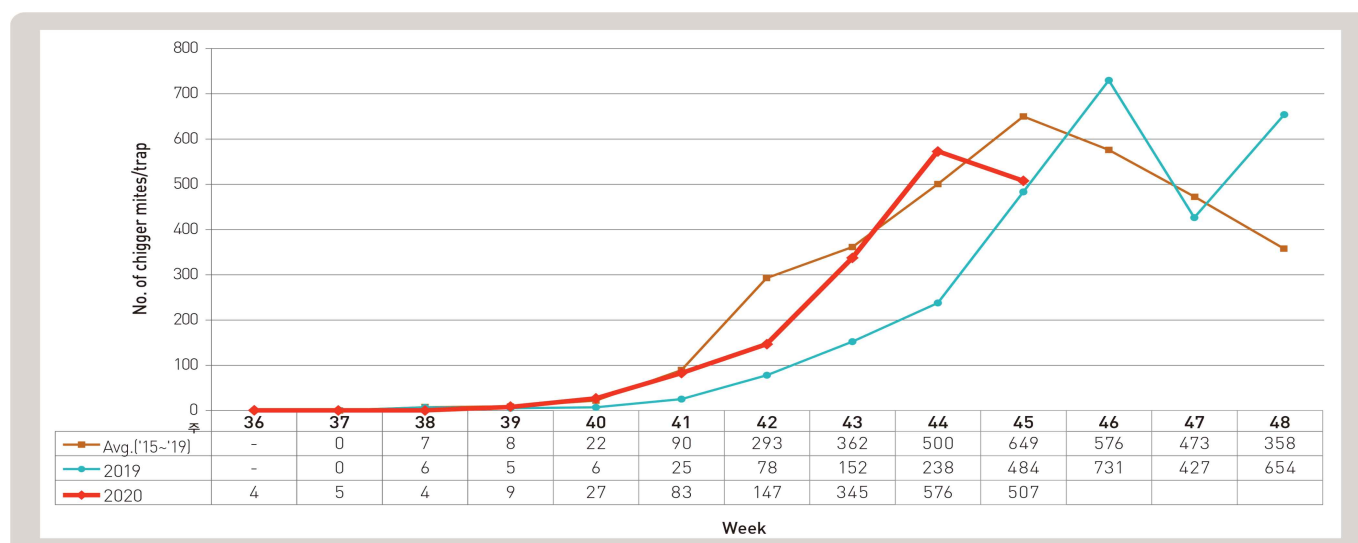


Figure 11. Weekly incidences of scrub typhus vector chiggers in 2020

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 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	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

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

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

Contact Us

Questions or comments about the PHWR Disease Surveillance Statistics can be sent to kc215@korea.kr or to the following:

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