

I. National Notifiable Infectious Diseases

1. Reported cases, week ending December 12, 2020 (50th 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	433	19,430	537	23,821	26,433	28,161	30,892	32,181	
Varicella	304	31,174	2,465	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	72	2	94	213	128	121	121	
Paratyphoid fever	0	94	1	55	47	73	56	44	
Shigellosis	3	41	2	151	191	112	113	88	
EHEC	1	314	1	146	121	138	104	71	
Viral hepatitis A	52	3,668	56	17,598	2,437	4,419	4,679	1,804	
Pertussis	1	130	10	496	980	318	129	205	
Mumps	124	9,817	317	15,967	19,237	16,924	17,057	23,448	
Rubella	0	2	0	8	0	7	11	11	
Meningococcal disease	0	5	0	16	14	17	6	6	
Pneumococcal disease	1	325	12	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	11	2,332	287	7,562	15,777	22,838	11,911	7,002	
VRSA	0	9	-	3	0	0	-	-	
CRE	175	15,604	-	15,369	11,954	5,717	-	-	
Viral hepatitis E	3	169	-	-	-	-	-	-	
Category III									
Tetanus	0	31	0	31	31	34	24	22	
Viral hepatitis B	3	335	7	389	392	391	359	155	
Japanese encephalitis	0	6	0	34	17	9	28	40	
Viral hepatitis C	107	11,015	210	9,810	10,811	6,396	-	-	
Malaria	0	375	2	559	576	515	673	699	
Legionellosis	0	339	5	501	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	70	0	42	47	46	56	37	
Murine typhus	2	25	1	14	16	18	18	15	
Scrub typhus	110	4,026	212	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	4	167	3	138	118	103	117	104	
Brucellosis	0	6	0	1	5	6	4	5	
HFRS	3	257	15	399	433	531	575	384	
HIV/AIDS	11	750	19	1,005	989	1,008	1,060	1,018	
CJD	0	69	1	53	53	36	42	33	
Dengue fever	0	43	4	273	159	171	313	255	
Q fever	0	69	2	162	163	96	81	27	
Lyme Borreliosis	0	7	0	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	0	242	0	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 December 12, 2020 (50th 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	433	19,430	27,188	304	31,174	66,618	0	7	46	0	0	2
Seoul	74	3,394	5,003	0	3,617	7,890	0	2	7	0	0	0
Busan	26	1,253	1,898	12	1,669	3,544	0	0	2	0	0	1
Daegu	18	949	1,275	16	1,529	3,437	0	0	3	0	0	0
Incheon	17	988	1,427	11	1,620	3,438	0	0	2	0	0	0
Gwangju	12	487	669	22	1,358	2,307	0	0	0	0	0	0
Daejeon	5	411	609	6	1,005	1,852	0	0	5	0	0	0
Ulsan	8	361	556	6	658	1,889	0	0	1	0	0	0
Sejong	2	90	83	3	273	664	0	0	0	0	0	0
Gyeonggi	97	4,217	5,835	98	8,250	18,857	0	3	15	0	0	0
Gangwon	21	829	1,151	26	939	1,774	0	0	1	0	0	0
Chungbuk	16	607	834	25	1,183	1,724	0	0	0	0	0	0
Chungnam	29	988	1,284	14	1,159	2,463	0	0	2	0	0	0
Jeonbuk	17	801	1,045	10	1,233	2,869	0	0	1	0	0	0
Jeonnam	20	1,018	1,416	23	1,228	2,776	0	1	2	0	0	0
Gyeongbuk	34	1,456	1,960	0	1,673	3,514	0	0	3	0	0	0
Gyeongnam	32	1,326	1,806	22	3,053	6,005	0	1	2	0	0	1
Jeju	5	255	338	10	727	1,615	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 December 12, 2020 (50th 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	72	128	0	94	51	3	41	123	1	314	113
Seoul	0	8	24	0	10	10	0	7	31	0	26	17
Busan	0	6	10	0	25	6	0	5	8	0	9	3
Daegu	0	3	4	0	7	2	0	0	7	0	9	5
Incheon	0	5	7	0	5	2	0	2	10	0	8	9
Gwangju	0	1	3	0	2	2	0	2	3	0	16	16
Daejeon	0	2	6	0	1	2	0	0	3	0	8	2
Ulsan	0	1	3	0	0	0	1	3	1	0	6	4
Sejong	0	0	1	0	0	0	0	0	0	0	2	1
Gyeonggi	0	20	29	0	14	10	0	8	23	1	149	21
Gangwon	0	7	4	0	5	2	0	1	2	0	6	4
Chungbuk	0	1	4	0	1	2	1	1	3	0	4	4
Chungnam	1	6	6	0	4	1	0	3	6	0	10	3
Jeonbuk	0	2	2	0	0	3	0	1	3	0	2	3
Jeonnam	0	0	6	0	9	2	0	3	7	0	15	8
Gyeongbuk	0	3	5	0	3	2	0	1	6	0	19	4
Gyeongnam	0	6	11	0	5	4	1	4	8	0	11	4
Jeju	0	1	3	0	3	1	0	0	2	0	14	5

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

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

2. (Continued) Reported cases by geography, week ending December 12, 2020 (50th 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	52	3,668	6,047	1	130	402	124	9,817	17,926	0	2	7
Seoul	4	684	1,129	0	16	53	0	1,189	1,819	0	0	2
Busan	0	85	210	0	6	35	8	521	1,102	0	1	0
Daegu	4	77	94	0	5	13	6	408	630	0	0	0
Incheon	10	380	415	1	7	23	6	490	791	0	0	0
Gwangju	2	74	103	0	10	20	8	331	1,019	0	0	0
Daejeon	3	131	659	0	7	8	4	275	425	0	0	1
Ulsan	1	34	40	0	2	12	7	283	596	0	0	0
Sejong	0	20	96	0	0	6	2	68	77	0	0	0
Gyeonggi	6	1,234	1,831	0	23	62	49	2,934	4,535	0	1	1
Gangwon	3	94	111	0	1	4	4	324	573	0	0	0
Chungbuk	1	140	293	0	0	9	8	294	390	0	0	0
Chungnam	14	254	450	0	4	8	3	452	708	0	0	0
Jeonbuk	1	194	238	0	3	8	1	427	1,103	0	0	0
Jeonnam	1	60	112	0	21	20	5	393	840	0	0	1
Gyeongbuk	0	103	112	0	9	27	0	473	899	0	0	1
Gyeongnam	1	75	126	0	15	88	10	784	2,190	0	0	1
Jeju	1	29	28	0	1	6	3	171	229	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 December 12, 2020 (50th 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	5	12	11	2,332	12,332	0	31	28	3	335	322
Seoul	0	1	4	0	330	1,618	0	2	3	0	51	57
Busan	0	0	1	0	132	861	0	3	2	0	18	22
Daegu	0	0	1	0	43	431	0	1	2	0	13	10
Incheon	0	1	1	0	118	579	0	0	1	0	18	17
Gwangju	0	0	0	3	301	601	0	1	1	0	7	6
Daejeon	0	0	0	1	89	458	0	0	1	0	13	11
Ulsan	0	0	0	1	84	532	0	0	0	0	7	8
Sejong	0	0	0	0	12	67	0	1	0	0	2	0
Gyeonggi	0	2	2	1	586	3,601	0	3	3	0	89	80
Gangwon	0	0	1	1	52	193	0	1	1	0	14	10
Chungbuk	0	0	0	0	34	234	0	3	1	1	11	12
Chungnam	0	0	0	1	76	551	0	6	2	1	15	17
Jeonbuk	0	0	0	0	58	423	0	4	1	0	17	17
Jeonnam	0	0	0	1	103	476	0	2	4	0	17	15
Gyeongbuk	0	1	1	0	84	630	0	2	3	0	9	18
Gyeongnam	0	0	1	2	170	937	0	2	3	1	31	19
Jeju	0	0	0	0	60	140	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 December 12, 2020 (50th 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	0	375	600	0	339	221	0	70	44
Seoul	0	0	8	0	55	86	0	92	65	0	11	6
Busan	0	0	0	0	2	8	0	19	11	0	6	3
Daegu	0	0	2	0	3	7	0	8	7	0	0	1
Incheon	0	0	1	0	50	88	0	17	18	0	6	3
Gwangju	0	0	1	0	5	4	0	12	3	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	5	5	0	217	341	0	80	53	0	11	9
Gangwon	0	1	1	0	12	17	0	8	9	0	2	0
Chungbuk	0	0	1	0	4	6	0	16	8	0	0	1
Chungnam	0	0	2	0	7	8	0	7	7	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	6	0	11	5
Gyeongbuk	0	0	1	0	3	7	0	15	15	0	2	2
Gyeongnam	0	0	1	0	4	8	0	14	6	0	7	6
Jeju	0	0	0	0	0	3	0	17	4	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 December 12, 2020 (50th 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	25	18	110	4,026	8,236	4	167	110	0	6	2
Seoul	0	2	2	0	41	245	0	9	6	0	1	1
Busan	0	1	1	4	311	558	0	9	6	0	0	0
Daegu	0	1	0	2	102	165	0	1	2	0	0	0
Incheon	2	9	1	0	30	85	1	2	2	0	0	0
Gwangju	0	0	2	2	107	242	0	6	3	0	0	0
Daejeon	0	0	0	2	113	236	0	19	2	0	0	0
Ulsan	0	4	2	6	228	359	0	0	2	0	0	1
Sejong	0	0	0	0	30	47	0	4	0	0	0	0
Gyeonggi	0	4	2	2	188	655	0	21	19	0	0	0
Gangwon	0	1	0	0	17	70	1	7	5	0	0	0
Chungbuk	0	0	1	1	67	197	0	15	5	0	0	0
Chungnam	0	1	1	5	357	885	1	18	14	0	0	0
Jeonbuk	0	0	1	7	372	891	0	9	6	0	3	0
Jeonnam	0	0	2	39	788	1,362	0	18	15	0	2	0
Gyeongbuk	0	2	1	0	233	535	0	14	10	0	0	0
Gyeongnam	0	0	1	36	983	1,608	1	15	12	0	0	0
Jeju	0	0	1	4	59	96	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 December 12, 2020 (50th 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	3	257	438	0	69	43	0	43	226	0	69	102
Seoul	0	5	18	0	14	10	0	14	70	0	1	7
Busan	0	9	14	0	8	3	0	5	13	0	1	2
Daegu	0	4	3	0	6	2	0	2	11	0	0	2
Incheon	0	3	7	0	4	2	0	2	12	0	3	2
Gwangju	0	2	7	0	2	0	0	0	3	0	2	4
Daejeon	0	2	5	0	1	1	0	0	5	0	3	3
Ulsan	0	1	2	0	3	1	0	1	5	0	0	2
Sejong	0	0	2	0	0	0	0	0	1	0	1	0
Gyeonggi	0	37	87	0	16	10	0	13	64	0	12	12
Gangwon	0	18	14	0	1	2	0	0	4	0	0	0
Chungbuk	0	9	24	0	2	1	0	0	3	0	9	23
Chungnam	0	27	59	0	1	2	0	2	7	0	11	14
Jeonbuk	0	38	49	0	3	2	0	0	5	0	6	6
Jeonnam	2	49	72	0	2	1	0	1	4	0	14	11
Gyeongbuk	0	24	40	0	2	3	0	1	6	0	1	6
Gyeongnam	1	26	33	0	4	3	0	1	10	0	5	8
Jeju	0	3	2	0	0	0	0	1	3	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 December 12, 2020 (50th 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	20	0	242	201	0	0	-
Seoul	0	3	7	0	11	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	37	36	0	0	-
Gangwon	0	3	0	0	28	30	0	0	-
Chungbuk	0	0	0	0	3	8	0	0	-
Chungnam	0	1	1	0	21	18	0	0	-
Jeonbuk	0	0	1	0	11	9	0	0	-
Jeonnam	0	0	1	0	8	14	0	0	-
Gyeongbuk	0	0	1	0	33	27	0	0	-
Gyeongnam	0	0	1	0	35	18	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 December 12, 2020 (50th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 2.8 cases (=0.28%)
- Variation: no change from 2.8 cases in 49th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

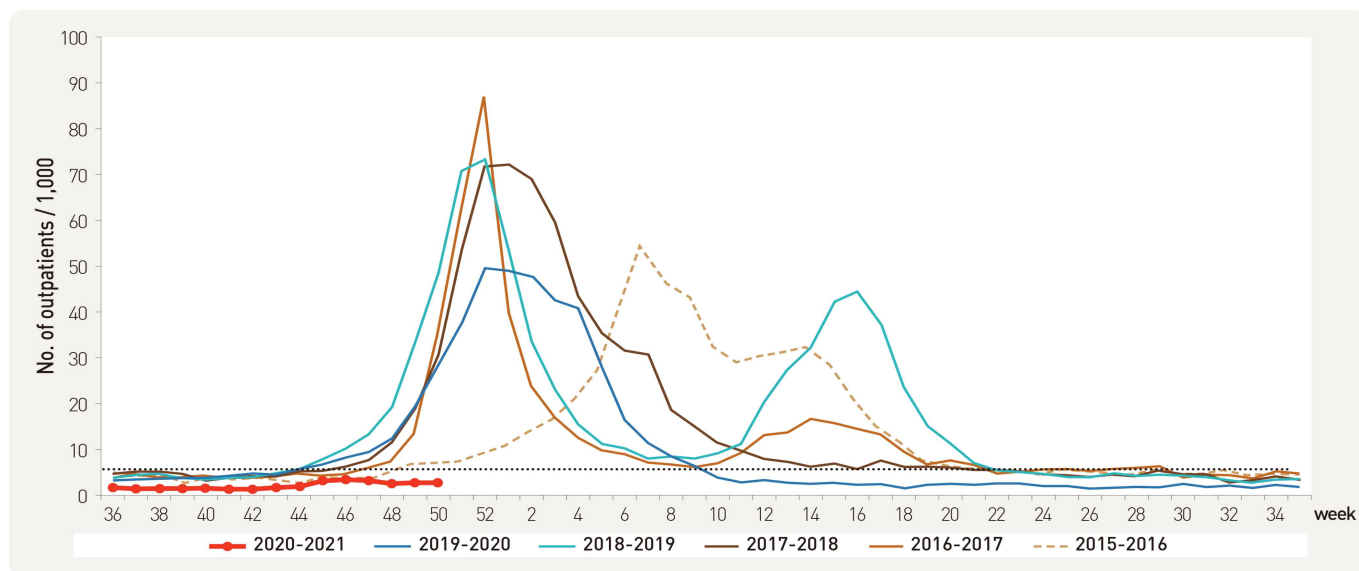


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending December 12, 2020 (50th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 1.3 cases
- Variation: increase from 0.9 case in 49th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

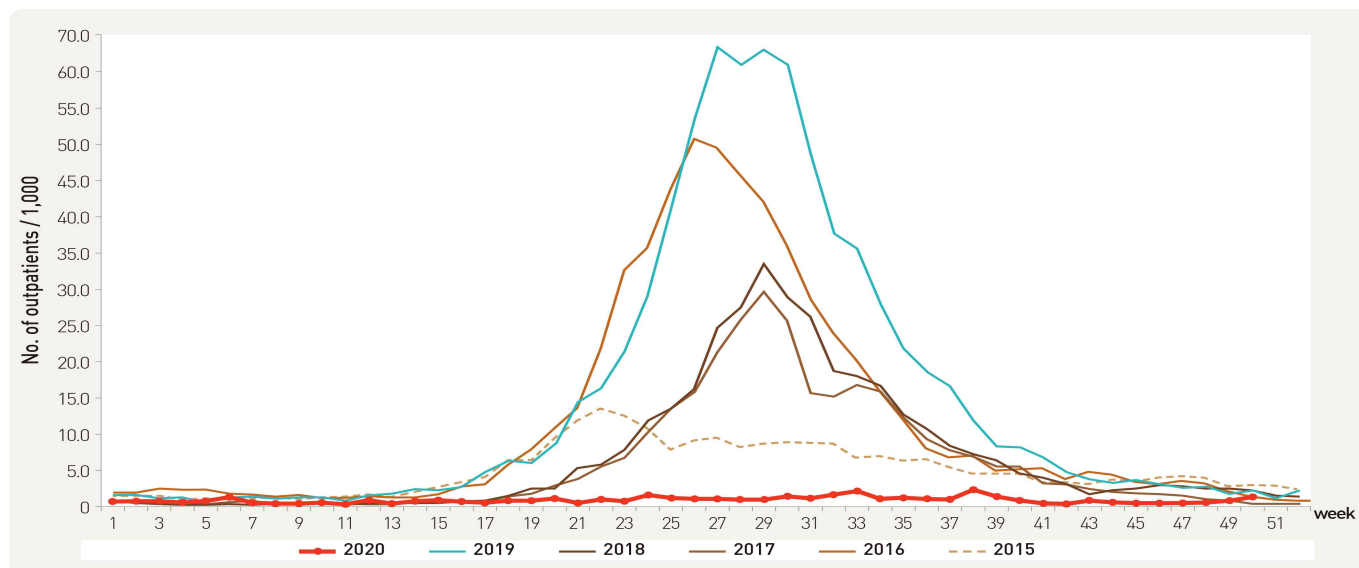


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending December 12, 2020 (50th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.7 cases
- Variation: decrease from 4.9 cases in 49th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

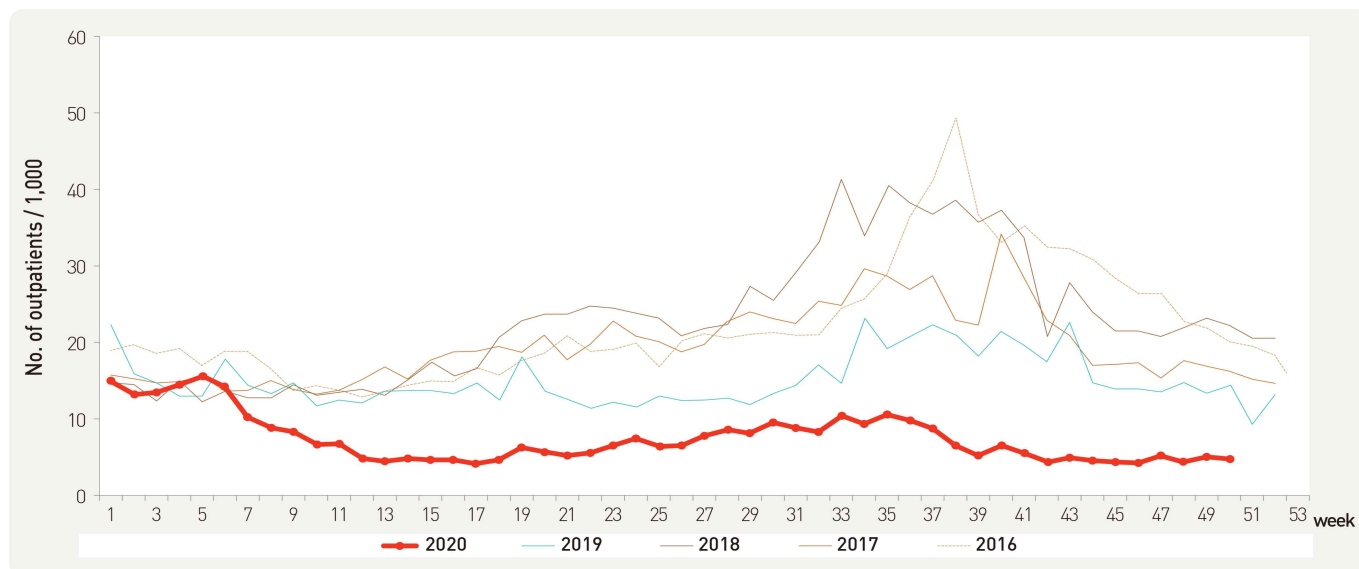


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.2 case
- Variation: decrease from 0.4 case in 49th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

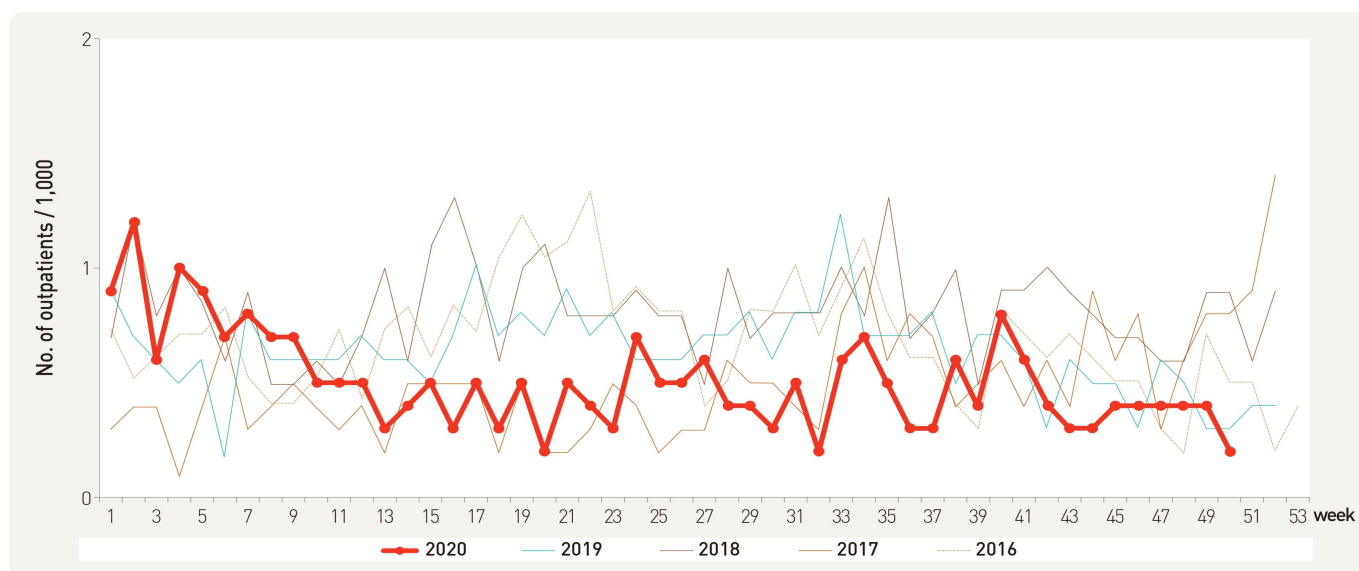


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending December 12, 2020 (50th Week)

- Cases per sentinel: 3.1 for human Papilloma virus infection, 3.0 for genital herpes, 2.2 for chlamydia, 2.0 for condyloma acuminata, 1.3 for gonorrhea, 0.0 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 49th week of 2020
Increase: chlamydia (2.0 → 2.2), genital herpes (2.8 → 3.0), condyloma acuminata (1.8 → 2.0)
Decrease: human Papilloma virus infection (5.2 → 3.1), primary Syphilis (1.0 → 0.0), secondary Syphilis (1.0 → 0.0)
No change: gonorrhea (1.3 → 1.3), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 50th week: 10 for gonorrhea, 31 for chlamydia, 35 for genital herpes, 23 for condyloma acuminata, 31 for human Papilloma virus infection, 0 for primary Syphilis, 0 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 [§]
1.3	8.3	10.0	2.2	28.2	32.5	3.0	42.5	42.1	2.0	23.6	23.8

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 [§]
3.1	78.7	78.7	0.0	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 December 12, 2020 (50th Week)

- No. of reported outbreaks: 1 with 10 patients (cumulative no. of outbreaks: 223 with 2,993 patients)
- Variation: decrease from 7 in 49th week of 2020
- Reporting sites: 254 health centers

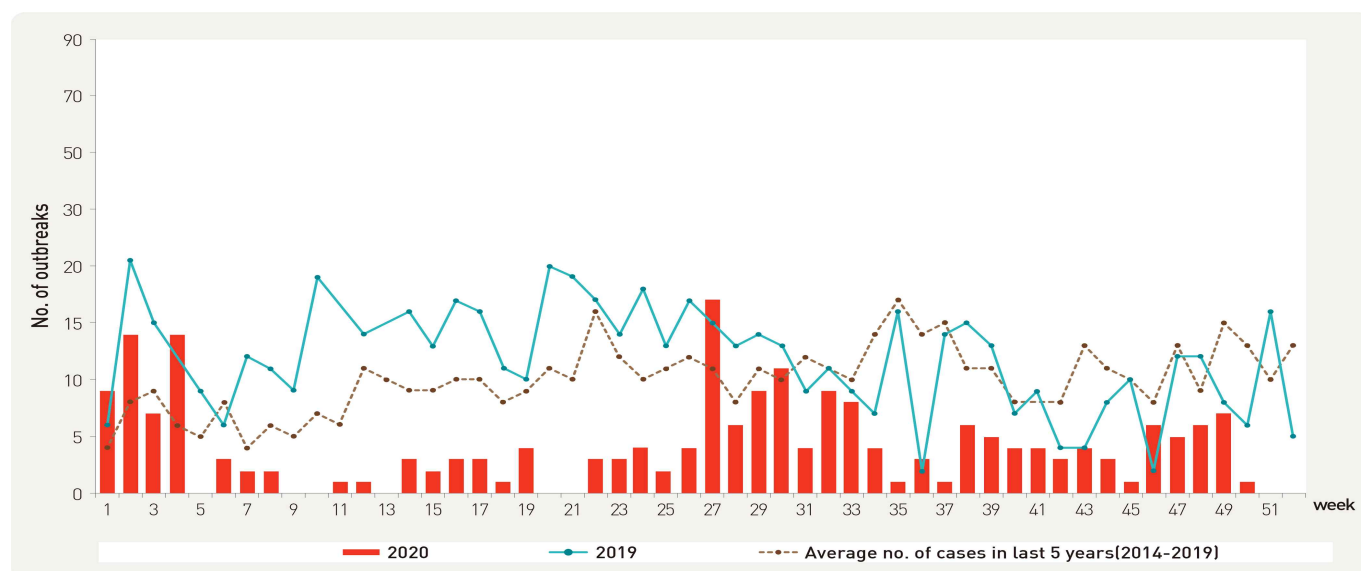


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending December 12, 2020 (50th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 110 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 112 specimens in 49th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

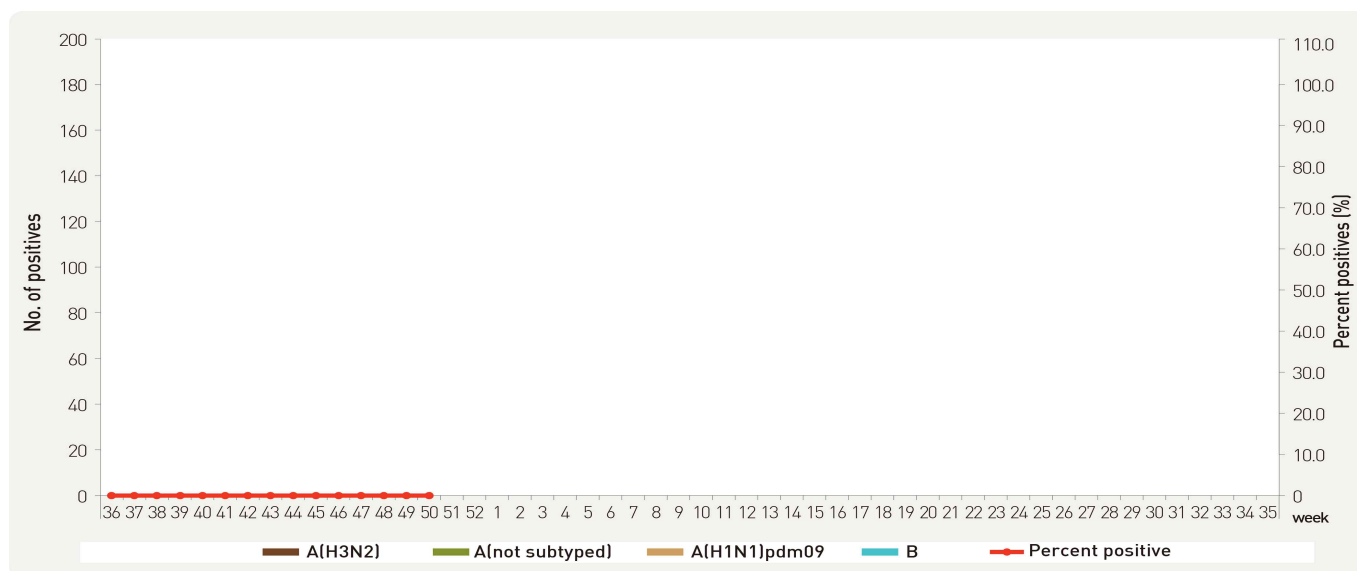


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending December 12, 2020 (50th Week)

- Detection rate: 50.9% (cumulative mean proportion during preceding three weeks plus current week: 50.3% out of 485 specimens)
- Variation (%p): increase from 49.6% in 49th 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
47	136	50.7	4.4	0.0	0.0	0.0	0.0	41.9	9.6	0.0
48	127	49.6	6.3	0.0	0.0	0.0	0.8	29.1	13.4	0.0
49	112	49.6	6.3	0.0	0.0	0.0	0.0	32.1	11.6	0.0
50	110	50.9	12.7	0.0	0.0	0.0	0.0	21.8	16.4	0.0
Cum.*	485	50.3	7.2	0.0	0.0	0.0	0.2	30.3	12.6	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 November 15, 2020 – December 12, 2020 (Average no. of detected cases is 121 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 December 5, 2020 (49th Week)

- Detection rate: 45.7% [cumulative mean proportion in 2020: 337 cases (16.2%) out of 2,079 specimens]
- Variation (%p): increase from 24.5% in 48th 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 46	53	7	(13.2)	2	(3.8)	0	(0.0)	0	(0.0)	0	(0.0)	9	(17.0)
47	39	5	(12.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	5	(12.8)
48	49	9	(18.4)	2	(4.1)	1	(2.0)	0	(0.0)	0	(0.0)	12	(24.5)
49	35	16	(45.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	16	(45.7)
Cum. 2020	2,079	258	(12.4)	42	(2)	15	(0.7)	18	(0.9)	4	(0.2)	337	(16.2)

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

2. Acute gastroenteritis-causing bacteria, weeks ending December 5, 2020 (49th Week)

- Detection rate: 15.7% [cumulative mean proportion in 2020: 1,450 cases (16.3%) out of 8,911 specimens]
- Variation (%p): decrease from 16.8% in 48th 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	46	168	2 (1.2)	6 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.2)	2 (1.2)	8 (4.8)	1 (0.6)	21 (12.5)
	47	163	1 (0.6)	6 (3.7)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.2)	3 (1.8)	5 (3.1)	2 (1.2)	20 (12.3)
	48	143	2 (1.4)	4 (2.8)	0 (0.0)	0 (0.0)	0 (0.0)	4 (2.8)	2 (1.4)	6 (4.2)	5 (3.5)	24 (16.8)
	49	108	2 (1.9)	5 (4.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	3 (2.8)	3 (2.8)	3 (2.8)	17 (15.7)
Cum. 2020		8,911	240 (2.7)	422 (4.7)	2 (0.02)	2 (0.02)	0 (0.0)	171 (1.9)	222 (2.5)	181 (2.0)	187 (2.1)	1,450 (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 December 5, 2020 (49th Week)

- Detection rate: 0.0% (0 case / 2 specimens) [cumulative mean proportion in 2020: 3.8% (17 cases / 450 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 48th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

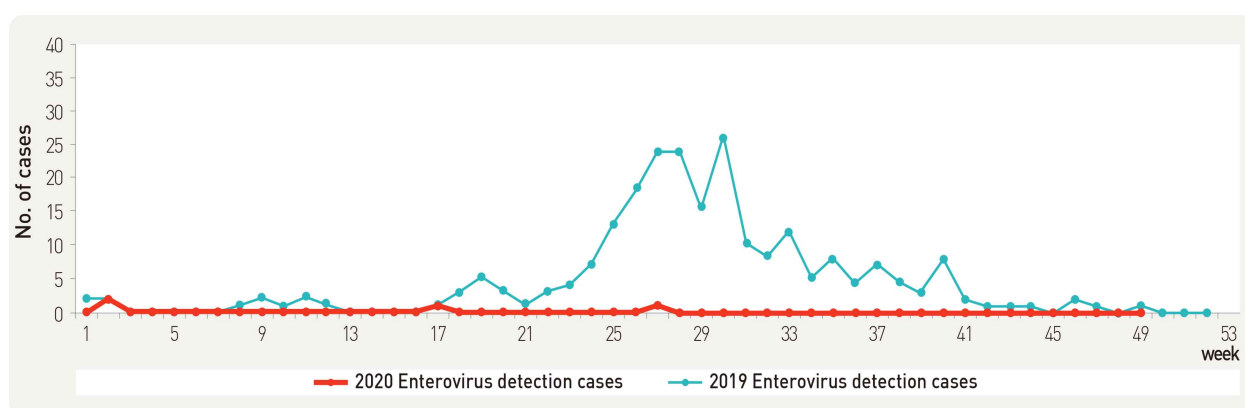


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

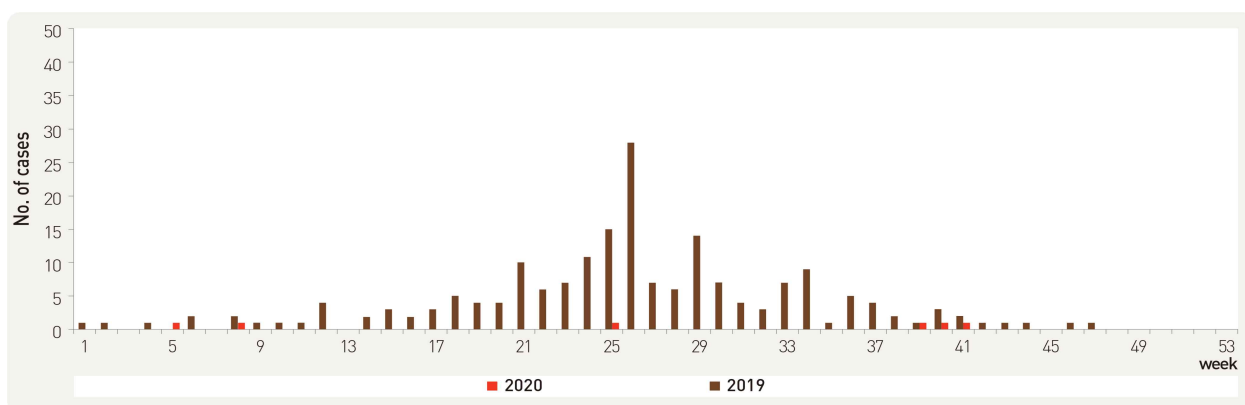


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

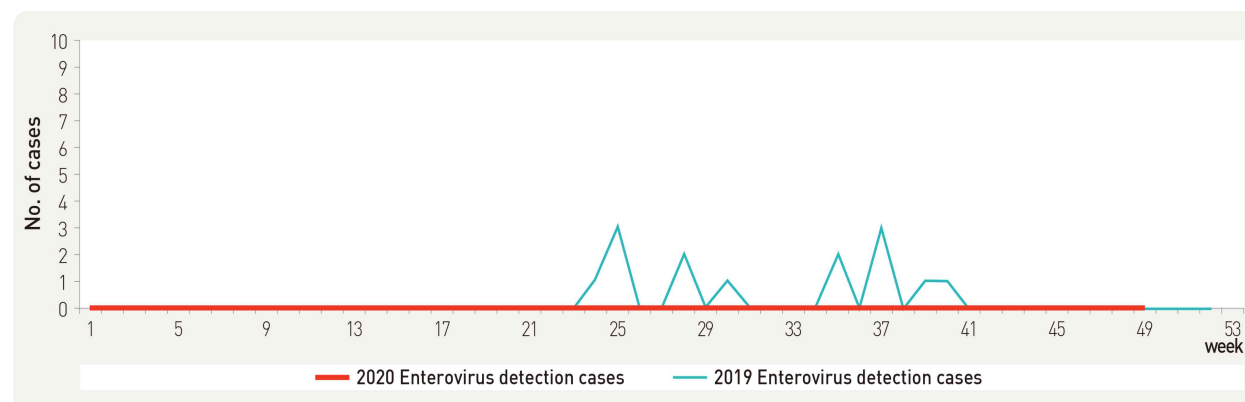


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending December 12, 2020 (50th Week)

- No. of chigger mites: 258
- Variation: decrease from 302 in 49th 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

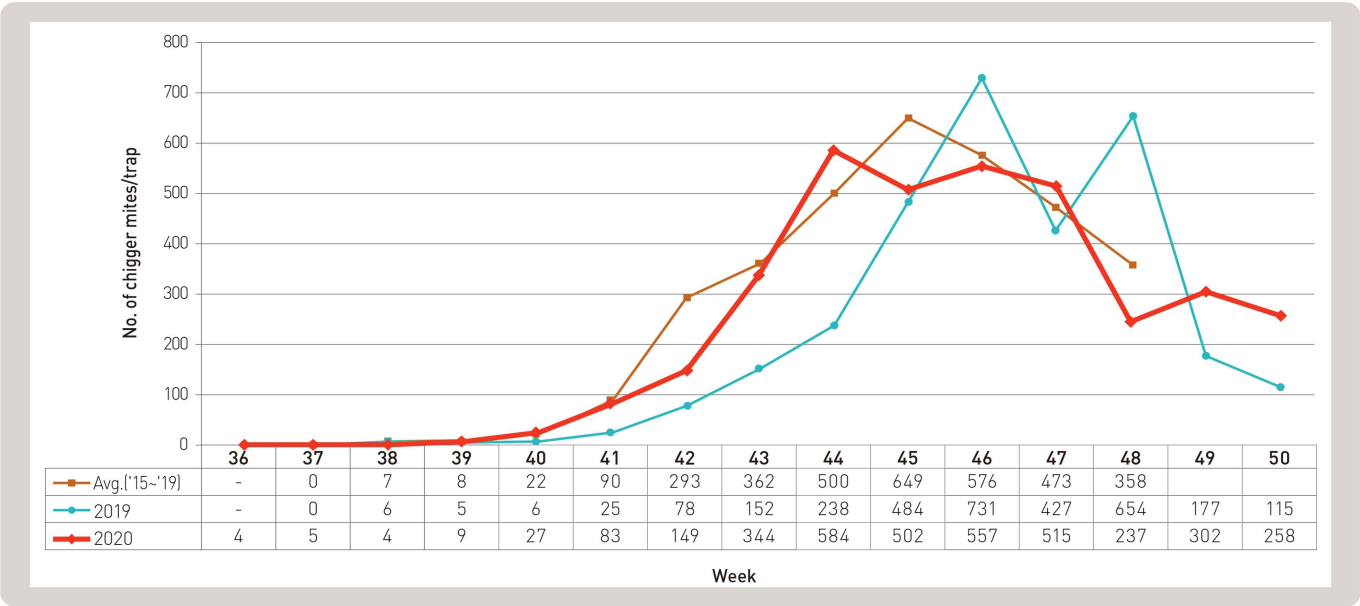


Figure 10. Weekly incidences of scrub typhus vector chiggers in 2020

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 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

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