Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 13, No. 49 December 3, 2020

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending November 28, 2020 (48th 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	500	18,673	543	23,821	26,433	28,161	30,892	32,181	
Varicella	344	30,295	2,337	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	0	73	1	94	213	128	121	121	
Paratyphoid fever	3	99	1	55	47	73	56	44	
Shigellosis	0	39	2	151	191	112	113	88	
EHEC	1	320	1	146	121	138	104	71	
Viral hepatitis A	70	3,538	56	17,598	2,437	4,419	4,679	1,804	
Pertussis	1	128	9	496	980	318	129	205	
Mumps	153	9,618	345	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	2	322	10	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	16	2,311	264	7,562	15,777	22,838	11,911	7,002	
VRSA	0	9	-	3	0	0	-	-	
CRE	160	15,211	-	15,369	11,954	5,717	-	-	
Viral hepatitis E	7	161	-	-	-	-	-	-	
Category III									
Tetanus	0	28	0	31	31	34	24	22	
Viral hepatitis B	4	325	8	389	392	391	359	155	
Japanese encephalitis	0	6	0	34	17	9	28	40	
Viral hepatitis C	107	10,670	205	9,810	10,811	6,396	-	-	
Malaria	1	377	2	559	576	515	673	699	
Legionellosis	2	341	5	501	305	198	128	45	
Vibrio vulnificus sepsis	0	69	0	42	47	46	56	37	
Murine typhus	1	22	1	14	16	18	18	15	
Scrub typhus	290	3,564	636	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	9	157	4	138	118	103	117	104	
Brucellosis	0	6	0	1	5	6	4	5	
HFRS	7	235	20	399	433	531	575	384	
HIV/AIDS	11	720	19	1,005	989	1,008	1,060	1,018	
CJD	2	70	0	53	53	36	42	33	
Dengue fever	0	43	5	273	159	171	313	255	
Q fever	1	68	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	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 influenza* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending November 28, 2020 (48th 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	500	18,673	26,104	344	30,295	61,621	0	7	46	0	0	2
Seoul	82	3,242	4,802	1	3,560	7,273	0	2	7	0	0	0
Busan	30	1,201	1,823	1	1,652	3,324	0	0	2	0	0	1
Daegu	26	915	1,225	19	1,483	3,211	0	0	3	0	0	0
Incheon	33	957	1,369	16	1,556	3,173	0	0	2	0	0	0
Gwangju	9	464	642	13	1,325	2,096	0	0	0	0	0	0
Daejeon	8	398	585	14	984	1,708	0	0	5	0	0	0
Ulsan	10	350	533	9	641	1,793	0	0	1	0	0	0
Sejong	4	86	81	9	264	614	0	0	0	0	0	0
Gyonggi	116	4,057	5,596	117	8,029	17,379	0	3	15	0	0	0
Gangwon	13	790	1,106	0	839	1,664	0	0	1	0	0	0
Chungbuk	13	578	801	8	1,125	1,589	0	0	0	0	0	0
Chungnam	25	944	1,233	17	1,098	2,281	0	0	2	0	0	0
Jeonbuk	18	772	1,006	16	1,201	2,641	0	0	1	0	0	0
Jeonnam	29	985	1,354	27	1,175	2,545	0	1	2	0	0	0
Gyeongbuk	42	1,408	1,890	13	1,651	3,270	0	0	3	0	0	0
Gyeongnam	35	1,283	1,731	49	3,013	5,547	0	1	2	0	0	1
Jeju	7	243	326	15	699	1,513	0	0	0	0	0	0

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.

§ 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 28, 2020 (48th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Typhoid fever			Paratyphoid fever			Shigellosis			Enterohemorrhagic *Escherichia coli*		
	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	73	127	3	99	51	0	39	117	1	320	112
Seoul	0	8	24	0	11	10	0	7	29	0	27	17
Busan	0	7	10	0	26	6	0	5	7	0	9	3
Daegu	0	3	4	0	7	2	0	1	7	0	9	4
Incheon	0	5	7	0	5	2	0	2	9	0	9	9
Gwangju	0	1	3	0	2	2	0	2	3	0	18	16
Daejeon	0	2	6	0	1	2	0	0	3	0	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
Gyonggi	0	21	28	0	17	10	0	8	22	1	151	21
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	5	6	0	4	1	0	3	6	0	9	3
Jeonbuk	0	2	2	0	0	3	0	0	3	0	2	3
Jeonnam	0	1	6	2	9	2	0	3	7	0	15	8
Gyeongbuk	0	3	5	0	3	2	0	1	6	0	19	4
Gyeongnam	0	5	11	0	5	4	0	3	7	0	12	4
Jeju	0	1	3	1	3	1	0	1	2	0	14	5

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 28, 2020 (48th 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	70	3,538	5,937	1	128	386	153	9,618	17,265	0	2	7
Seoul	14	675	1,107	0	16	51	8	1,187	1,761	0	0	2
Busan	0	85	207	0	6	35	0	515	1,066	0	1	0
Daegu	2	72	91	0	5	13	10	397	607	0	0	0
Incheon	6	363	405	0	7	22	7	474	761	0	0	0
Gwangju	1	70	101	0	10	19	3	318	966	0	0	0
Daejeon	2	125	653	0	7	7	3	269	411	0	0	1
Ulsan	0	33	40	0	2	11	6	275	580	0	0	0
Sejong	0	19	95	0	0	5	3	69	73	0	0	0
Gyonggi	25	1,198	1,795	1	23	59	64	2,859	4,388	0	1	1
Gangwon	0	88	108	0	0	4	0	304	540	0	0	0
Chungbuk	4	132	289	0	0	9	0	282	376	0	0	0
Chungnam	9	227	444	0	4	8	10	444	668	0	0	0
Jeonbuk	2	191	229	0	3	8	8	422	1,073	0	0	0
Jeonnam	0	60	110	0	20	18	10	386	811	0	0	1
Gyeongbuk	3	101	110	0	9	25	6	473	865	0	0	1
Gyeongnam	1	72	125	0	15	86	12	776	2,098	0	0	1
Jeju	1	27	28	0	1	6	3	168	221	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 28, 2020 (48th 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	11	16	2,311	11,770	0	28	27	4	325	304
Seoul	0	1	3	1	329	1,545	0	2	3	0	51	54
Busan	0	0	1	0	132	825	0	2	2	0	18	21
Daegu	0	0	1	0	43	412	0	1	2	1	12	10
Incheon	0	1	1	0	116	549	0	0	1	0	18	16
Gwangju	0	0	0	4	298	568	0	1	1	0	6	6
Daejeon	0	0	0	1	87	439	0	0	1	1	13	10
Ulsan	0	0	0	1	83	510	0	0	0	0	7	7
Sejong	0	0	0	0	12	64	0	1	0	0	2	0
Gyonggi	0	2	2	3	581	3,444	0	3	3	1	88	75
Gangwon	0	0	1	0	50	185	0	1	1	0	13	9
Chungbuk	0	0	0	2	35	220	0	3	1	0	9	12
Chungnam	0	0	0	1	75	523	0	5	1	0	13	16
Jeonbuk	0	0	0	0	57	398	0	4	1	0	16	16
Jeonnam	0	0	0	0	101	451	0	2	4	0	17	14
Gyeongbuk	0	1	1	0	83	600	0	1	3	0	9	17
Gyeongnam	0	0	1	3	169	902	0	2	3	1	30	18
Jeju	0	0	0	0	60	135	0	0	0	0	3	3

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 28, 2020 (48th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Japanese encephalitis			Malaria			Legionellosis			*Vibrio vulnificus* 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	1	377	598	2	341	212	0	69	44
Seoul	0	0	8	1	56	85	0	94	62	0	11	6
Busan	0	0	0	0	2	8	0	19	10	0	6	3
Daegu	0	0	2	0	3	7	0	9	7	0	0	1
Incheon	0	0	1	0	51	88	0	16	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
Gyonggi	0	5	5	0	217	340	2	82	49	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	6	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	10	5
Gyeongbuk	0	0	1	0	3	7	0	14	14	0	2	2
Gyeongnam	0	0	1	0	4	8	0	13	6	0	7	6
Jeju	0	0	0	0	0	3	0	18	4	0	1	1

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.

§ 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 28, 2020 (48th 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	1	22	16	290	3,564	7,803	9	157	107	0	6	2
Seoul	0	2	2	1	40	233	0	9	6	0	1	1
Busan	0	1	1	21	251	512	0	7	6	0	0	0
Daegu	0	1	0	3	93	158	0	1	2	0	0	0
Incheon	0	7	1	1	26	80	0	1	2	0	0	0
Gwangju	0	0	2	6	93	229	1	5	3	0	0	0
Daejeon	0	0	0	4	108	229	2	19	2	0	0	0
Ulsan	1	4	1	30	208	343	0	0	2	0	0	1
Sejong	0	0	0	4	30	46	0	4	0	0	0	0
Gyonggi	0	4	2	3	156	632	0	17	17	0	0	0
Gangwon	0	1	0	0	13	67	0	5	5	0	0	0
Chungbuk	0	0	1	1	60	192	0	19	5	0	0	0
Chungnam	0	1	1	15	335	856	1	17	14	0	0	0
Jeonbuk	0	0	1	25	358	850	1	9	6	0	3	0
Jeonnam	0	0	2	64	666	1,274	2	18	14	0	2	0
Gyeongbuk	0	1	1	5	198	517	0	13	10	0	0	0
Gyeongnam	0	0	1	102	879	1,503	2	13	12	0	0	0
Jeju	0	0	0	5	50	82	0	0	1	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 28, 2020 (48th 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	7	235	404	2	70	41	0	43	219	1	68	99
Seoul	0	5	16	0	14	9	0	14	69	0	1	7
Busan	0	7	13	0	8	3	0	5	12	0	1	1
Daegu	0	4	3	0	6	2	0	2	11	0	0	2
Incheon	0	3	7	1	4	2	0	2	12	0	3	2
Gwangju	0	2	7	0	2	0	0	0	2	0	2	4
Daejeon	0	2	5	0	1	1	0	0	5	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	1	1	0
Gyonggi	1	34	79	0	16	10	0	13	62	0	12	12
Gangwon	0	14	13	0	1	2	0	0	4	0	0	0
Chungbuk	0	8	22	0	2	1	0	0	3	0	9	22
Chungnam	2	25	54	0	1	1	0	2	6	0	10	13
Jeonbuk	0	37	45	0	3	2	0	0	5	0	6	6
Jeonnam	2	44	68	0	2	1	0	1	4	0	14	11
Gyeongbuk	0	22	37	0	2	3	0	1	6	0	1	6
Gyeongnam	2	25	31	1	5	3	0	1	10	0	5	8
Jeju	0	3	1	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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† 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 28, 2020 (48th 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	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	-
Gyonggi	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	0	0	8	14	0	0	-
Gyeongbuk	0	0	1	0	33	27	0	0	-
Gyeongnam	0	0	1	1	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 November 28, 2020 (48th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 2.6 cases (=0.26%)
- Variation: decrease from 3.2 cases in 47th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
  ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

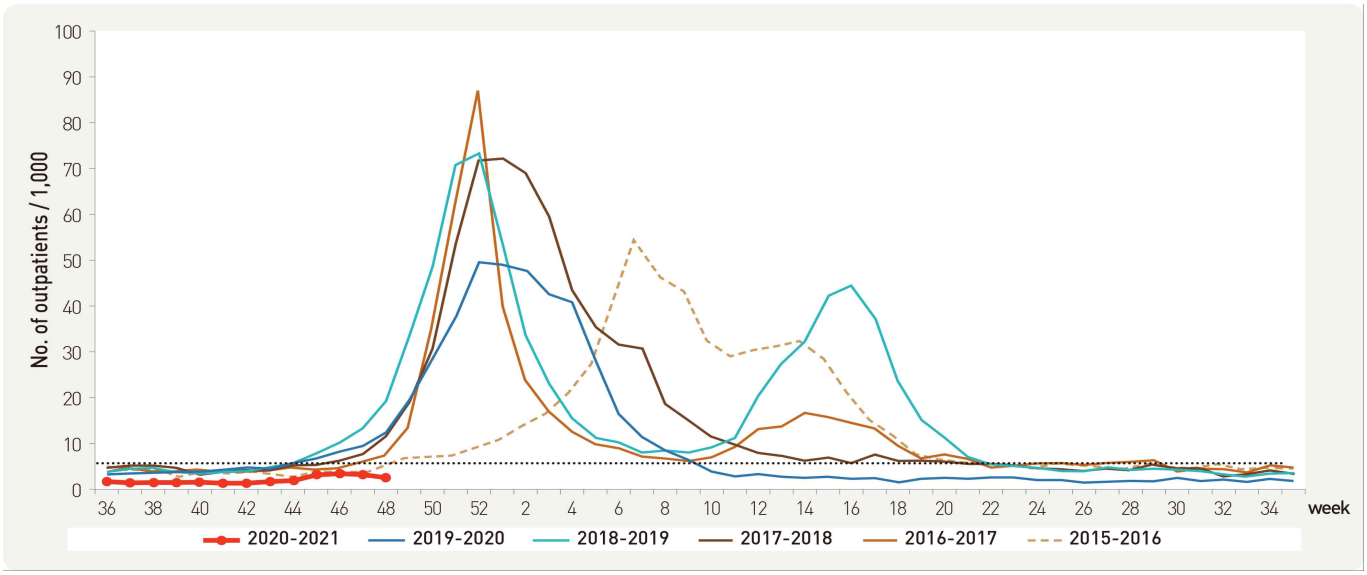


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending November 28, 2020 (48th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.6 case
- Variation: increase from 0.4 case in 47th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

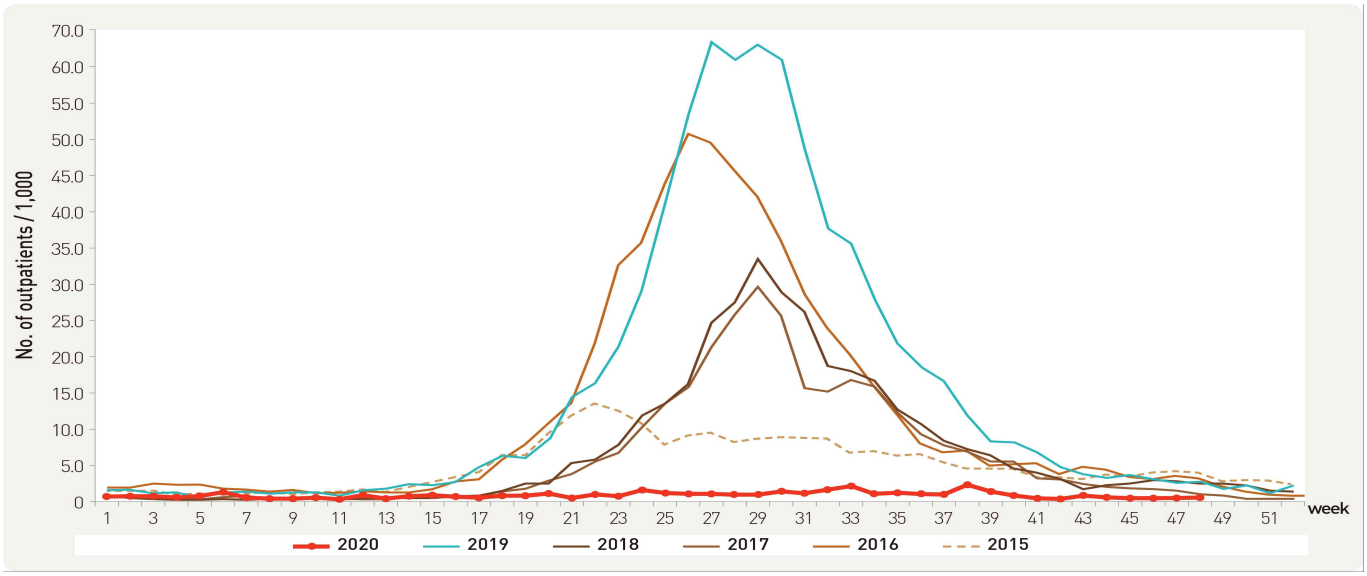


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending November 28, 2020 (48th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.4 cases
- Variation: decrease from 4.9 cases in 47th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

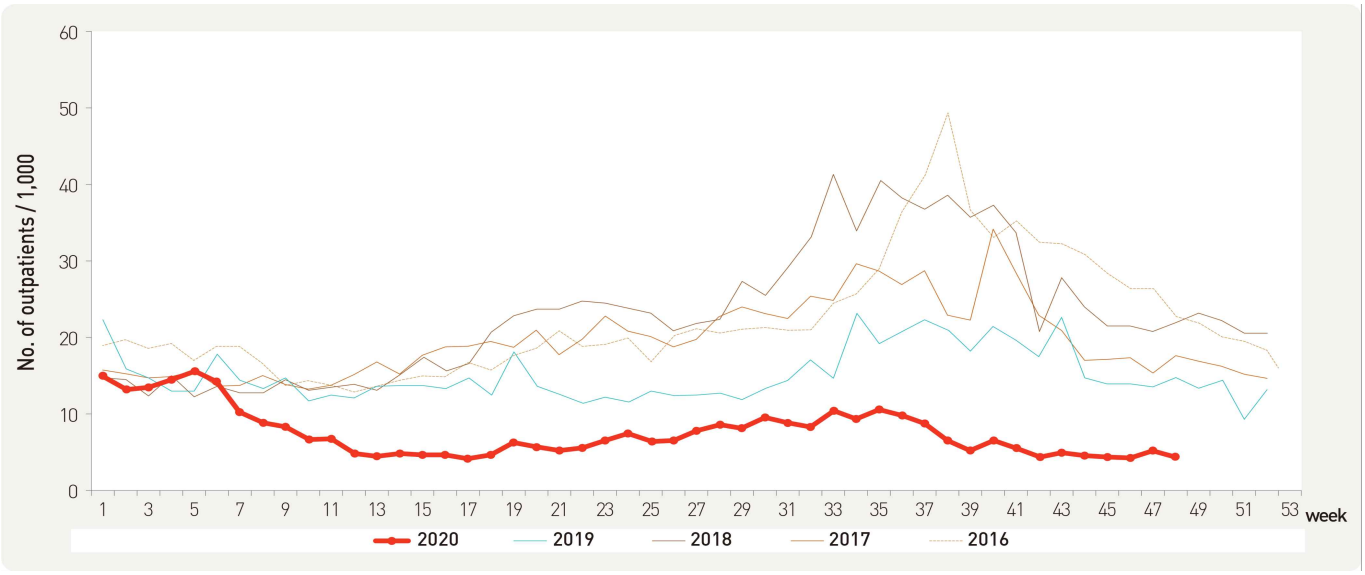


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.4 case
- Variation: no change from 0.4 case in 47th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

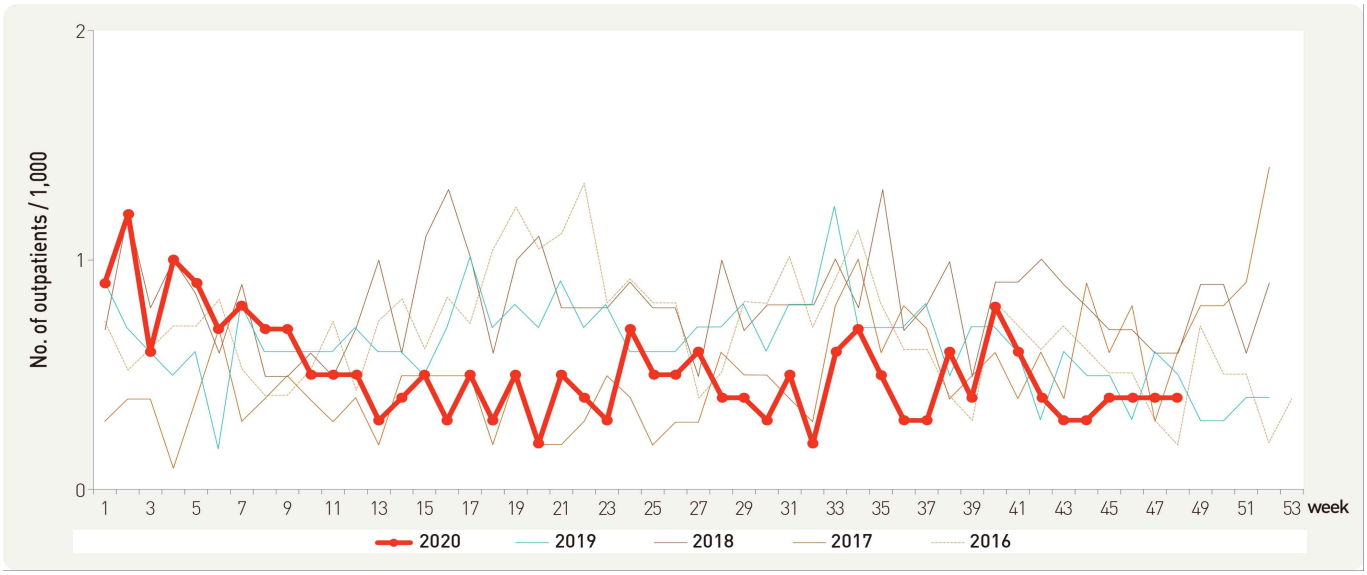


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases†, weeks ending November 28, 2020 (48th Week)

- Cases per sentinel: 3.7 for human Papilloma virus infection, 2.0 for genital herpes, 2.0 for condyloma acuminata, 1.8 for chlamydia, 1.2 for gonorrhea, 1.0 for primary Syphilis, 1.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 47th week of 2020
  Increase: gonorrhea (1.0 → 1.2), primary Syphilis (0.0 → 1.0), secondary Syphilis (0.0 → 1.0)
  Decrease: chlamydia (2.1 → 1.8), genital herpes (3.0 → 2.0), condyloma acuminata (2.1 → 2.0)
  No change: human Papilloma virus infection (3.7 → 3.7), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 48th week: 9 for gonorrhea, 28 for chlamydia, 31 for genital herpes, 12 for condyloma acuminata, 24 for human Papilloma virus infection, 2 for primary Syphilis, 1 for secondary Syphilis, 0 for congenital Syphilis

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
1.2	8.0	9.4	1.8	27.3	30.0	2.0	40.6	38.6	2.0	22.9	21.9

Human Papilloma virus infection			Primary Syphilis			Secondary Syphilis			Congenital Syphilis		
Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§	Current week	Cum. 2020	Cum. 5-year average§
3.7	75.1	75.1	1.0	2.3	2.3	1.0	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 28, 2020 (48th Week)

- No. of reported outbreaks: 6 with 48 patients (cumulative no. of outbreaks: 212 with 2,842 patients)
- Variation: increase from 4 in 47th week of 2020
- Reporting sites: 254 health centers

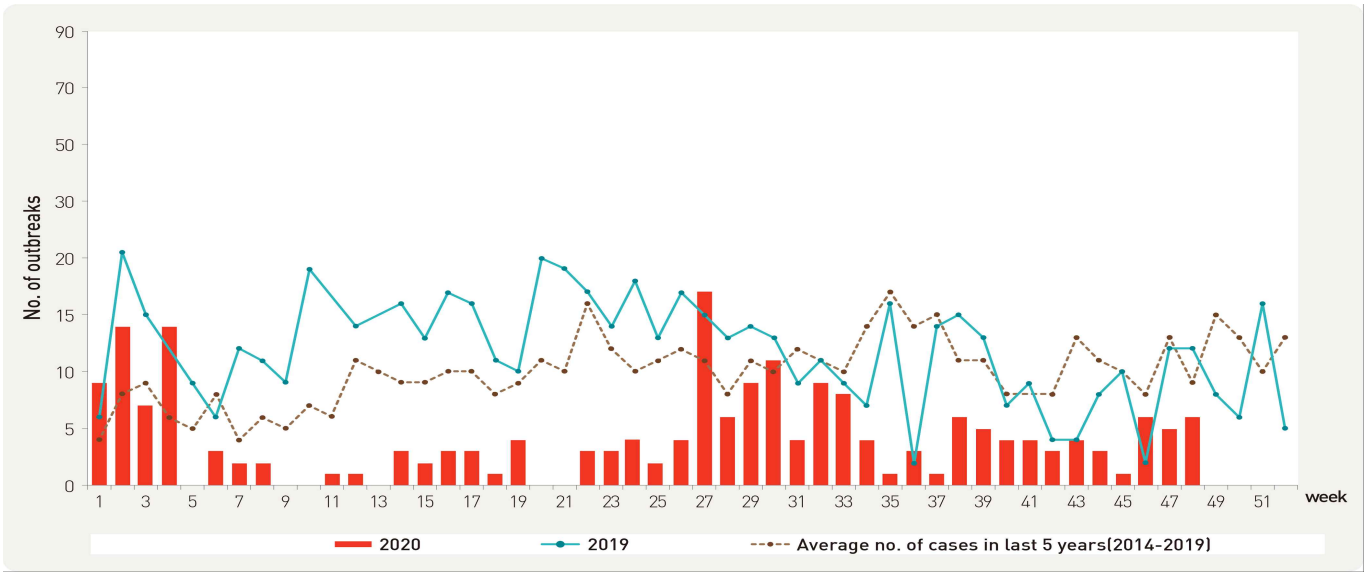


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending November 28, 2020 (48th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 127 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 136 specimens in 47th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

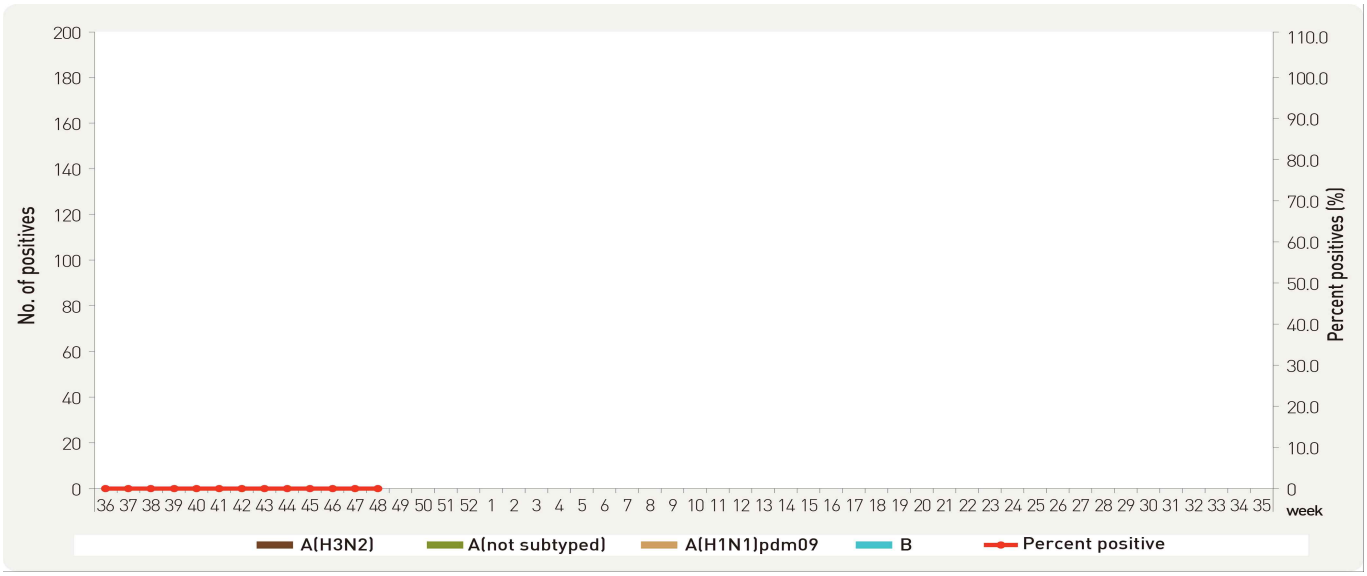


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending November 28, 2020 (48th Week)

- Detection rate: 49.6% (cumulative mean proportion during preceding three weeks plus current week: 53.2% out of 489 specimens)
- Variation (%p): decrease from 50.7% in 47th 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
45	109	63.3	3.8	0.0	0.0	0.0	0.0	40.6	7.6	0.0
46	117	50.4	4.6	0.0	0.0	0.0	0.0	52.3	6.4	0.0
47	136	50.7	4.3	0.0	0.0	0.0	0.0	39.3	6.8	0.0
48	127	49.6	4.4	0.0	0.0	0.0	0.0	41.9	9.6	0.0
Cum.※	489	53.2	4.3	0.0	0.0	0.0	0.0	41.6	7.7	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 November 1, 2020 – November 28, 2020 (Average no. of detected cases is 122 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 21, 2020 (47th Week)

- Detection rate: 10.0% [cumulative mean proportion in 2020: 307 cases (15.5%) out of 1,978 specimens]
- Variation (%p): decrease from 18.0% in 46th 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	44	32	0	(0.0)	2	(6.3)	1	(3.1)	0	(0.0)	0	(0.0)	3	(9.4)
	45	30	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	46	50	7	(14.0)	2	(4.0)	0	(0.0)	0	(0.0)	0	(0.0)	9	(18.0)
	47	30	3	(10.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(10.0)
Cum. 2020		1,978	231	(11.7)	40	(2)	14	(0.7)	18	(0.9)	4	(0.2)	307	(15.5)

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

2. Acute gastroenteritis-causing bacteria, weeks ending November 21, 2020 (47th Week)

- Detection rate: 12.0% [cumulative mean proportion in 2020: 1,385 cases (16.2%) out of 8,540 specimens]
- Variation (%p): decrease from 12.4% in 46th 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, %)									
			Salmonella spp.	Pathogenic *E.coli*	*Shigella* spp.	*V.parahaemolyticus*	*V. cholerae*	*Campylobacter* spp.	*C.perfringens*	*S. aureus*	*B. cereus*	Total
2020	44	172	2 (1.2)	9 (5.2)	0 (0.0)	0 (0.0)	0 (0.0)	3 (1.7)	3 (1.7)	5 (2.9)	5 (2.9)	27 (15.7)
	45	135	2 (1.5)	4 (3.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.7)	6 (4.4)	5 (3.7)	6 (4.4)	24 (17.8)
	46	137	1 (0.7)	5 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.5)	1 (0.7)	7 (5.1)	1 (0.7)	17 (12.4)
	47	117	0 (0.0)	6 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.9)	1 (0.9)	4 (3.4)	1 (0.9)	14 (12.0)
Cum. 2020		8,540	233 (2.7)	400 (4.7)	2 (0.02)	2 (0.02)	0 (0.0)	166 (1.9)	214 (2.5)	169 (2.0)	178 (2.1)	1,385 (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 November 21, 2020 (47th Week)

- Detection rate: 0.0% (0 case / 14 specimens) [cumulative mean proportion in 2020: 3.9% (17 cases / 439 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 46th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 60 hospitals/clinics

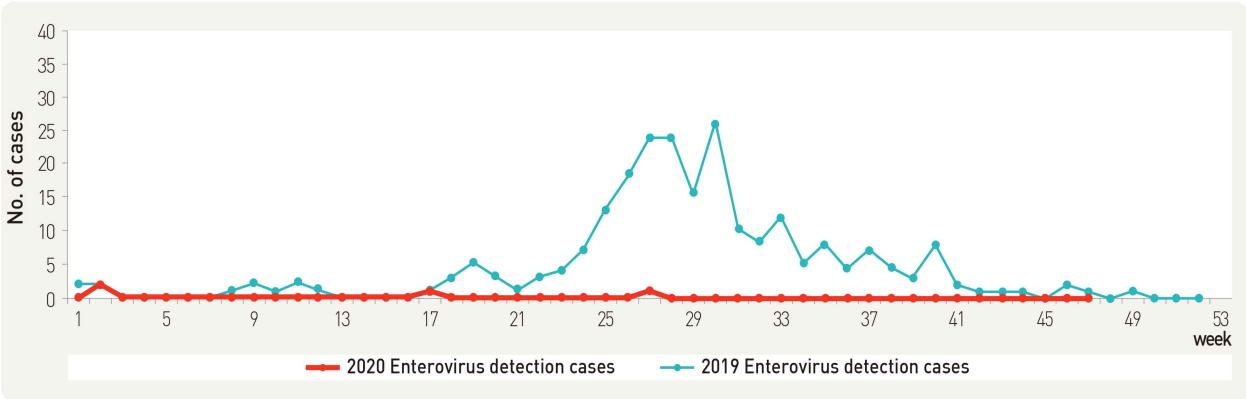


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

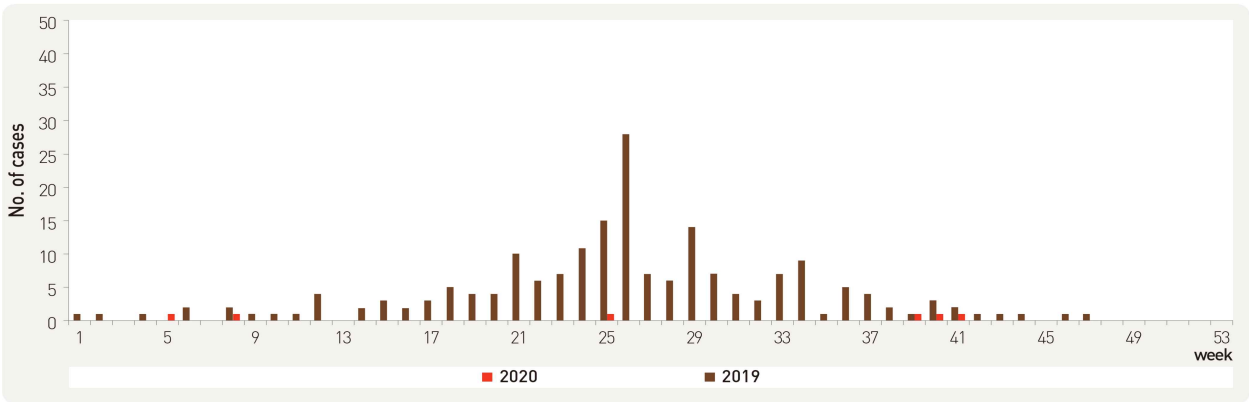


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

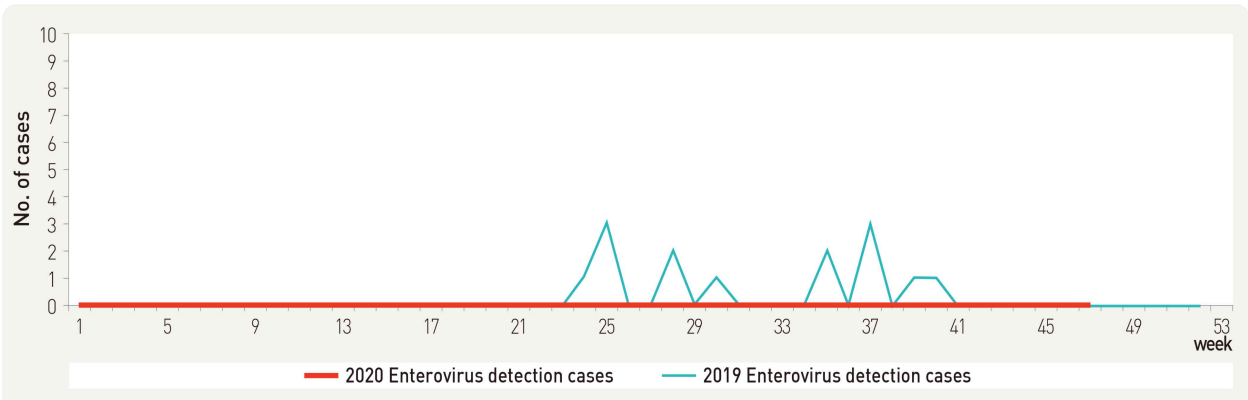


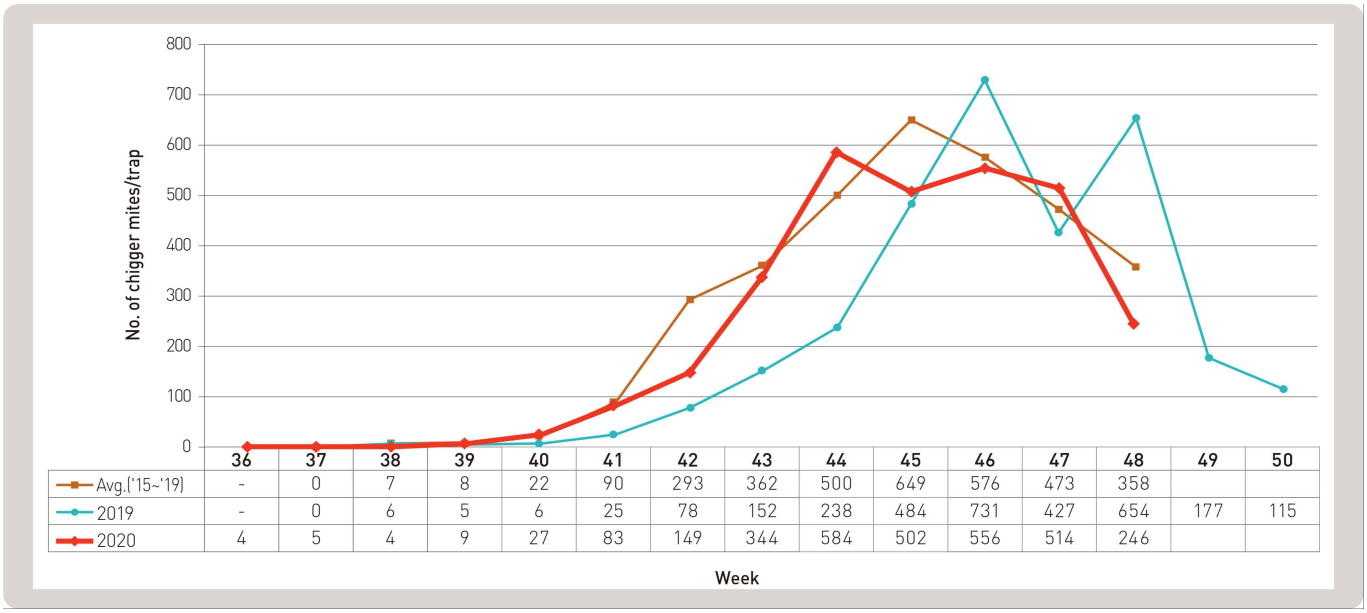
Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending November 28, 2020 (48th Week)

- No. of chigger mites: 246
- Variation: decrease from 514 in 47th 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



	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Avg.('15~'19)	-	0	7	8	22	90	293	362	500	649	576	473	358		
2019	-	0	6	5	6	25	78	152	238	484	731	427	654	177	115
2020	4	5	4	9	27	83	149	344	584	502	556	514	246		

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

VIII. Vector Surveillance: Severe fever with thrombocytopia syndrome vector ticks

1. Severe fever with thrombocytopenia syndrome vector ticks, weeks ending November 21, 2020 (47th Week)

- No. of severe fever with thrombocytopenia syndrome vector ticks per trap: 4.3
  ※ T.I.: Trap index (No. of ticks / trap)
- Variation: decrease from 10.5 in 43rd week (October) of 2020
- Sentinel reporting sites: 11 city/province (16 sites)
  ※ No. of vector ticks: average number of vector ticks/trap/day

Month	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.
2015-2019 T.I. [Average]	33.2	58.0	56.7	49.9	90.4	93.5	23.6	3.1
2019 T.I.	54.4	77.5	61.2	49.5	123.0	158.9	33.5	4.0
2020 T.I.	30.4	74.8	48.7	36.3	55.9	69.1	10.5	4.3

Figure 11. Monthly incidences of severe fever with thrombocytopenia syndrome vector ticks 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 + … + 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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