Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 13, No. 42 October 15, 2020

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending October 10, 2020 (41st 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	419	15,974	500	23,821	26,433	28,161	30,892	32,181	
Varicella	340	27,158	970	82,868	96,467	80,092	54,060	46,330	
Measles	0	7	1	194	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	7	90	2	94	213	128	121	121	
Paratyphoid fever	8	142	1	55	47	73	56	44	
Shigellosis	0	47	2	151	191	112	113	88	
EHEC	4	309	2	146	121	138	104	71	
Viral hepatitis A	44	2,771	104	17,598	2,437	4,419	4,679	1,804	
Pertussis	0	121	9	496	980	318	129	205	
Mumps	180	8,464	318	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	293	6	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	17	2,190	182	7,562	15,777	22,838	11,911	7,002	
VRSA	0	7	-	3	0	0	-	-	
CRE	295	12,077	-	15,369	11,954	5,717	-	-	
Viral hepatitis E	3	85	-	-	-	-	-	-	
Category III									
Tetanus	0	24	0	31	31	34	24	22	
Viral hepatitis B	11	274	6	389	392	391	359	155	
Japanese encephalitis	0	1	2	34	17	9	28	40	
Viral hepatitis C	118	8,990	167	9,810	10,811	6,396	-	-	
Malaria	4	370	11	559	576	515	673	699	
Legionellosis	3	292	5	501	305	198	128	45	
Vibrio vulnificus sepsis	2	57	2	42	47	46	56	37	
Murine typhus	1	15	1	14	16	18	18	15	
Scrub typhus	21	570	296	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	3	82	5	138	118	103	117	104	
Brucellosis	0	7	0	1	5	6	4	5	
HFRS	6	130	14	399	433	531	575	384	
HIV/AIDS	15	602	22	1,005	989	1,008	1,060	1,018	
CJD	3	48	1	53	53	36	42	33	
Dengue fever	0	43	5	273	159	171	313	255	
Q fever	1	60	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	0	0	16	3	5	10	2	
SFTS	9	175	14	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 October 10, 2020 (41st 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	419	15,974	22,359	340	27,158	49,775	0	7	45	0	0	2
Seoul	62	2,780	4,095	37	3,223	5,571	0	2	6	0	0	0
Busan	27	1,042	1,565	17	1,487	2,818	0	0	2	0	0	1
Daegu	21	766	1,053	18	1,354	2,659	0	0	3	0	0	0
Incheon	13	819	1,172	15	1,381	2,509	0	0	2	0	0	0
Gwangju	13	397	552	9	1,219	1,644	0	0	0	0	0	0
Daejeon	8	344	498	0	881	1,384	0	0	5	0	0	0
Ulsan	8	291	462	17	575	1,558	0	0	1	0	0	0
Sejong	2	64	71	0	227	502	0	0	0	0	0	0
Gyonggi	97	3,404	4,799	127	7,107	13,946	0	3	15	0	0	0
Gangwon	15	684	944	11	786	1,356	0	0	1	0	0	0
Chungbuk	22	503	687	7	1,020	1,271	0	0	0	0	0	0
Chungnam	24	817	1,053	11	958	1,839	0	0	2	0	0	0
Jeonbuk	15	672	864	12	1,073	2,092	0	0	1	0	0	0
Jeonnam	21	832	1,158	11	1,059	2,066	0	1	2	0	0	0
Gyeongbuk	32	1,236	1,629	17	1,470	2,639	0	0	3	0	0	0
Gyeongnam	33	1,101	1,481	24	2,705	4,614	0	1	2	0	0	1
Jeju	6	222	277	7	633	1,307	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 October 10, 2020 (41st 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	7	90	117	8	142	46	0	47	104	4	309	99
Seoul	1	13	22	0	26	9	0	11	26	1	24	15
Busan	2	13	10	3	45	5	0	5	6	0	8	3
Daegu	0	3	3	0	8	2	0	0	6	0	7	4
Incheon	0	5	7	0	4	2	0	4	9	0	12	7
Gwangju	0	1	2	1	3	2	0	2	3	1	16	14
Daejeon	0	2	6	0	1	2	0	1	2	0	8	2
Ulsan	0	1	3	0	0	0	0	2	1	1	8	4
Sejong	0	0	1	0	0	0	0	0	0	0	1	1
Gyonggi	0	21	26	0	15	9	0	13	20	0	135	19
Gangwon	1	9	2	0	8	2	0	0	2	0	6	4
Chungbuk	0	0	4	0	1	2	0	0	2	0	4	3
Chungnam	0	4	5	0	3	1	0	3	6	1	12	3
Jeonbuk	0	0	2	0	1	3	0	0	2	0	3	2
Jeonnam	0	4	6	2	12	2	0	2	5	0	17	6
Gyeongbuk	0	3	5	1	4	1	0	1	6	0	19	4
Gyeongnam	2	9	10	0	8	3	0	3	7	0	14	4
Jeju	1	2	3	1	3	1	0	0	1	0	15	4

Cum: Cumulative counts from 1st week to current week in a year

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

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

2. *(Continued)* Reported cases by geography, week ending October 10, 2020 (41st 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	44	2,771	5,468	0	121	317	180	8,464	14,860	0	2	4
Seoul	16	563	1,010	0	16	38	23	1,079	1,519	0	0	1
Busan	1	76	199	0	6	31	16	461	935	0	1	0
Daegu	0	68	84	0	5	10	12	348	521	0	0	0
Incheon	12	294	368	0	5	17	8	421	657	0	0	0
Gwangju	1	54	91	0	10	15	5	301	802	0	0	0
Daejeon	0	110	617	0	7	6	1	221	355	0	0	1
Ulsan	0	32	37	0	2	8	9	245	506	0	0	0
Sejong	0	18	91	0	0	4	2	57	60	0	0	0
Gyonggi	0	826	1,652	0	19	51	52	2,479	3,820	0	1	1
Gangwon	1	77	97	0	0	3	4	268	461	0	0	0
Chungbuk	1	106	269	0	0	7	3	264	323	0	0	0
Chungnam	5	168	411	0	4	7	6	381	568	0	0	0
Jeonbuk	2	165	204	0	2	7	6	371	949	0	0	0
Jeonnam	0	49	102	0	20	13	9	328	702	0	0	1
Gyeongbuk	1	81	96	0	9	21	9	412	746	0	0	0
Gyeongnam	2	62	114	0	15	74	15	685	1,741	0	0	0
Jeju	2	22	26	0	1	5	0	143	195	0	0	0

Cum: Cumulative counts from 1st week to current week in a year

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

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

2. *(Continued)* Reported cases by geography, week ending October 10, 2020 (41st 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	17	2,190	10,161	0	24	24	11	274	257
Seoul	0	1	3	1	314	1,345	0	2	2	0	44	46
Busan	0	1	1	2	126	713	0	2	2	0	14	17
Daegu	0	0	1	0	43	365	0	1	1	0	7	9
Incheon	0	1	1	2	116	475	0	0	1	1	17	14
Gwangju	0	0	0	4	268	486	0	1	1	0	4	5
Daejeon	0	0	0	0	82	383	0	0	1	0	12	9
Ulsan	0	0	0	1	80	445	0	0	0	1	7	6
Sejong	0	0	0	0	12	54	0	1	0	0	2	0
Gyonggi	0	2	2	0	541	2,969	0	2	3	4	77	63
Gangwon	0	0	1	2	47	157	0	1	1	1	10	8
Chungbuk	0	0	0	0	31	186	0	2	0	0	8	10
Chungnam	0	0	0	1	73	452	0	6	1	0	10	14
Jeonbuk	0	0	0	2	59	339	0	3	1	0	12	13
Jeonnam	0	0	0	1	97	388	0	2	4	2	13	12
Gyeongbuk	0	1	1	0	81	517	0	1	3	0	9	14
Gyeongnam	0	0	1	1	166	774	0	0	3	2	25	15
Jeju	0	0	0	0	54	113	0	0	0	0	3	2

Cum: Cumulative counts from 1st week to current week in a year

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

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

2. *(Continued)* Reported cases by geography, week ending October 10, 2020 (41st 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	1	17	4	370	571	3	292	177	2	57	41
Seoul	0	0	5	0	53	79	0	76	50	0	9	5
Busan	0	0	0	0	2	7	0	14	9	0	7	3
Daegu	0	0	1	0	3	7	1	9	6	0	0	1
Incheon	0	0	1	2	49	84	0	15	14	2	4	3
Gwangju	0	0	1	0	5	4	0	10	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	0	1	0	0	0	0	0	0
Gyonggi	0	1	3	2	217	328	1	73	40	0	4	8
Gangwon	0	0	0	0	13	16	1	6	8	0	1	0
Chungbuk	0	0	1	0	4	5	0	15	7	0	0	1
Chungnam	0	0	1	0	6	7	0	6	6	0	9	2
Jeonbuk	0	0	0	0	4	4	0	10	4	0	2	2
Jeonnam	0	0	1	0	1	4	0	11	5	0	10	5
Gyeongbuk	0	0	1	0	2	7	0	13	12	0	1	2
Gyeongnam	0	0	1	0	4	7	0	11	6	0	7	5
Jeju	0	0	0	0	0	3	0	16	3	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 October 10, 2020 (41st 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	15	8	21	570	1,266	3	82	64	0	7	1
Seoul	0	2	1	0	9	51	0	5	4	0	1	1
Busan	0	1	1	2	31	47	0	5	2	0	0	0
Daegu	0	1	0	0	1	15	0	1	1	0	0	0
Incheon	1	7	1	1	9	20	0	1	1	0	0	0
Gwangju	0	0	1	0	5	33	0	2	2	0	0	0
Daejeon	0	0	0	0	15	33	0	5	1	0	0	0
Ulsan	0	0	0	0	15	35	0	0	1	0	0	0
Sejong	0	0	0	0	5	7	1	3	0	0	0	0
Gyonggi	0	2	1	0	33	123	0	7	11	0	0	0
Gangwon	0	1	0	0	5	30	0	2	4	0	0	0
Chungbuk	0	0	0	1	10	26	1	11	3	0	0	0
Chungnam	0	1	1	1	57	129	0	8	9	0	0	0
Jeonbuk	0	0	0	2	85	127	0	8	4	0	4	0
Jeonnam	0	0	1	4	152	280	0	10	7	0	2	0
Gyeongbuk	0	0	0	3	23	79	0	7	7	0	0	0
Gyeongnam	0	0	1	7	103	219	1	7	6	0	0	0
Jeju	0	0	0	0	12	12	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 October 10, 2020 (41st 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	130	247	3	48	35	0	43	184	1	60	82
Seoul	0	4	10	0	10	9	0	14	58	0	1	4
Busan	1	1	8	0	6	2	0	5	10	0	1	1
Daegu	0	3	2	1	5	1	0	2	10	0	0	2
Incheon	0	2	4	1	3	1	0	2	10	0	2	2
Gwangju	0	1	4	0	2	0	0	0	2	0	2	3
Daejeon	0	1	4	0	1	1	0	0	4	0	2	2
Ulsan	0	0	1	0	2	1	0	1	3	0	0	2
Sejong	0	0	1	0	0	0	0	0	1	0	0	0
Gyonggi	0	16	58	0	8	8	0	13	51	0	10	11
Gangwon	0	13	9	0	0	2	0	0	4	0	0	0
Chungbuk	0	7	14	0	1	1	0	0	3	0	9	19
Chungnam	1	9	31	0	1	1	0	2	5	0	9	11
Jeonbuk	1	26	25	1	3	1	0	0	4	1	5	5
Jeonnam	1	24	39	0	1	1	0	1	4	0	14	9
Gyeongbuk	1	14	23	0	2	3	0	1	5	0	1	5
Gyeongnam	1	6	13	0	3	3	0	1	8	0	4	6
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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† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

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

2. *(Continued)* Reported cases by geography, week ending October 10, 2020 (41st 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	16	9	175	171	0	0	-
Seoul	0	3	6	0	5	8	0	0	-
Busan	0	0	0	0	0	2	0	0	-
Daegu	0	0	0	3	21	4	0	0	-
Incheon	0	0	2	0	3	2	0	0	-
Gwangju	0	0	0	0	0	1	0	0	-
Daejeon	0	0	1	0	2	2	0	0	-
Ulsan	0	0	0	0	7	3	0	0	-
Sejong	0	0	0	1	2	1	0	0	-
Gyonggi	0	0	3	0	16	31	0	0	-
Gangwon	0	3	0	2	21	24	0	0	-
Chungbuk	0	0	0	0	3	7	0	0	-
Chungnam	0	1	1	1	14	16	0	0	-
Jeonbuk	0	0	1	0	10	8	0	0	-
Jeonnam	0	0	0	0	7	13	0	0	-
Gyeongbuk	0	0	1	2	25	23	0	0	-
Gyeongnam	0	0	1	0	27	15	0	0	-
Jeju	0	0	0	0	12	11	0	0	-

Cum: Cumulative counts from 1st week to current week in a year

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

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending October 10, 2020 (41st Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 1.2 cases (=0.12%)
- Variation: decrease from 1.4 cases in 40th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
  ※ 2020-2021 outbreak standard: 5.8 cases (/1,000)

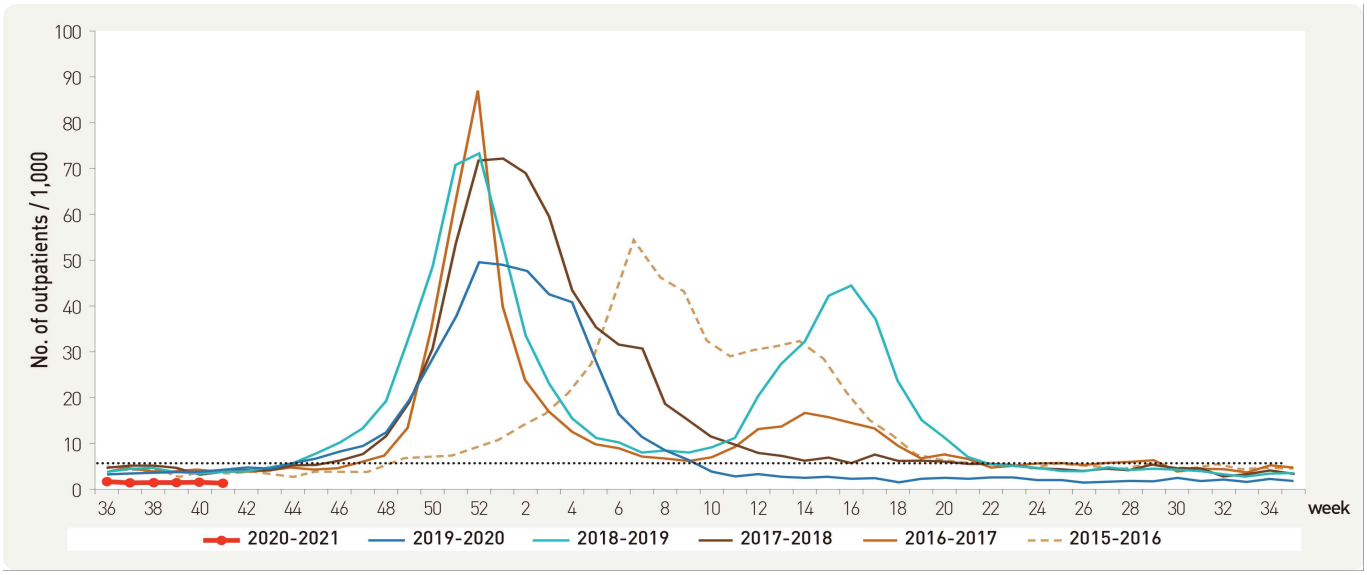


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2020-2021 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending October 10, 2020 (41st Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.5 case
- Variation: decrease from 0.9 case in 40th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

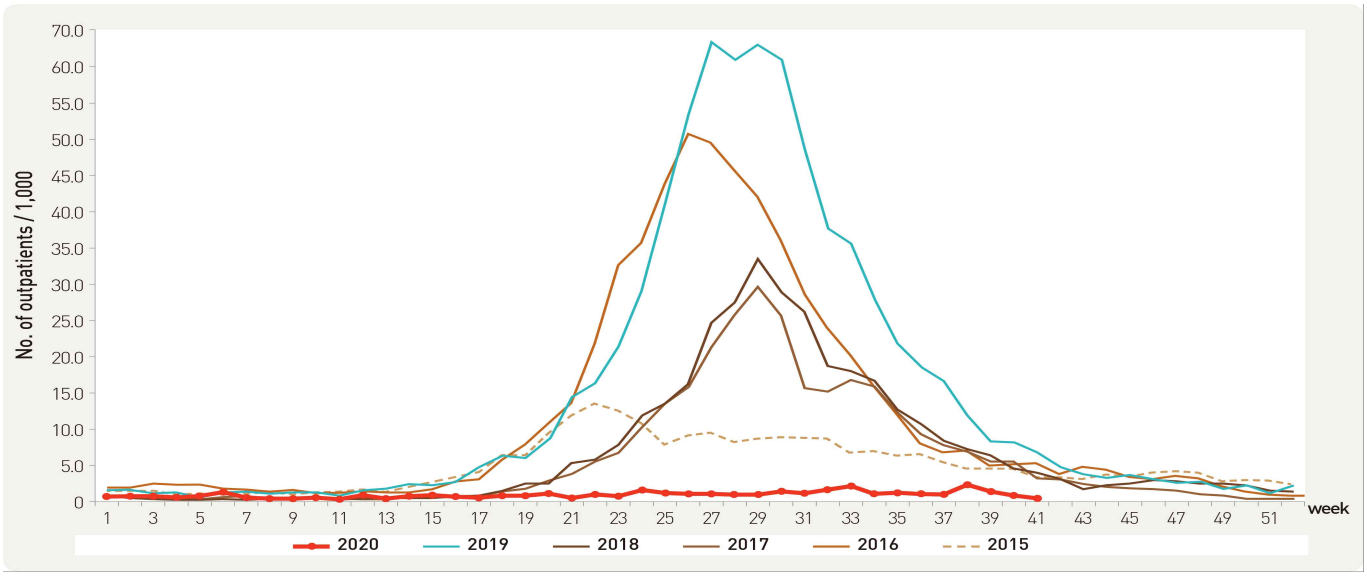


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending October 10, 2020 (41st Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 5.5 cases
- Variation: decrease from 6.5 cases in 40th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

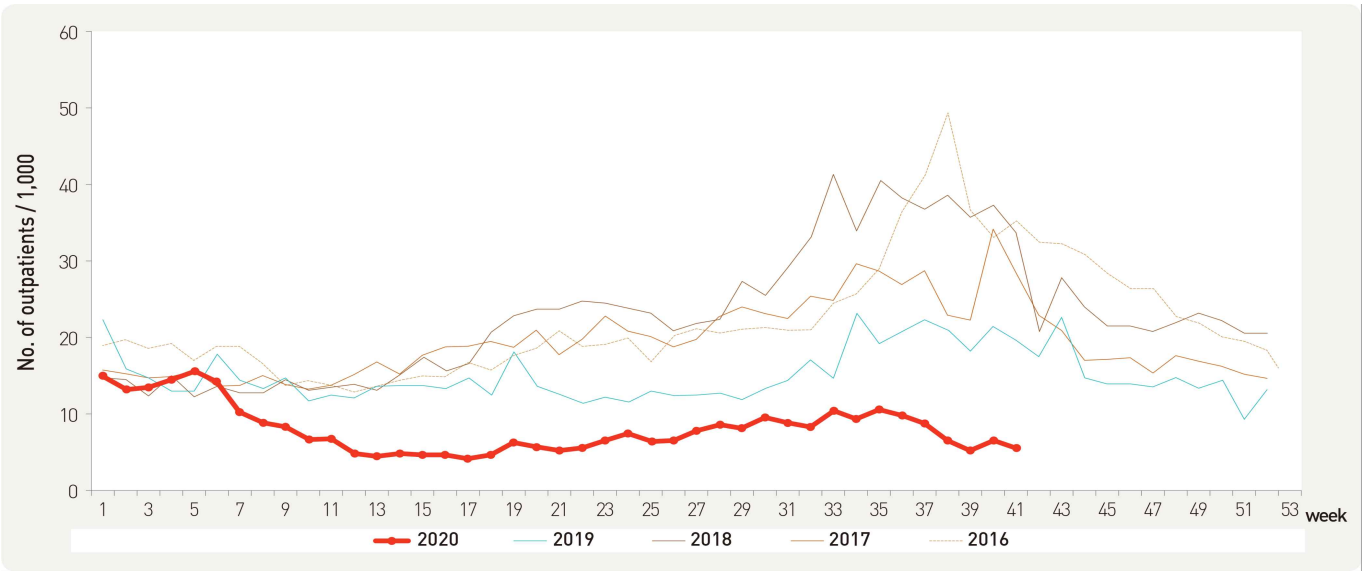


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.6 case
- Variation: decrease from 0.8 case in 40th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

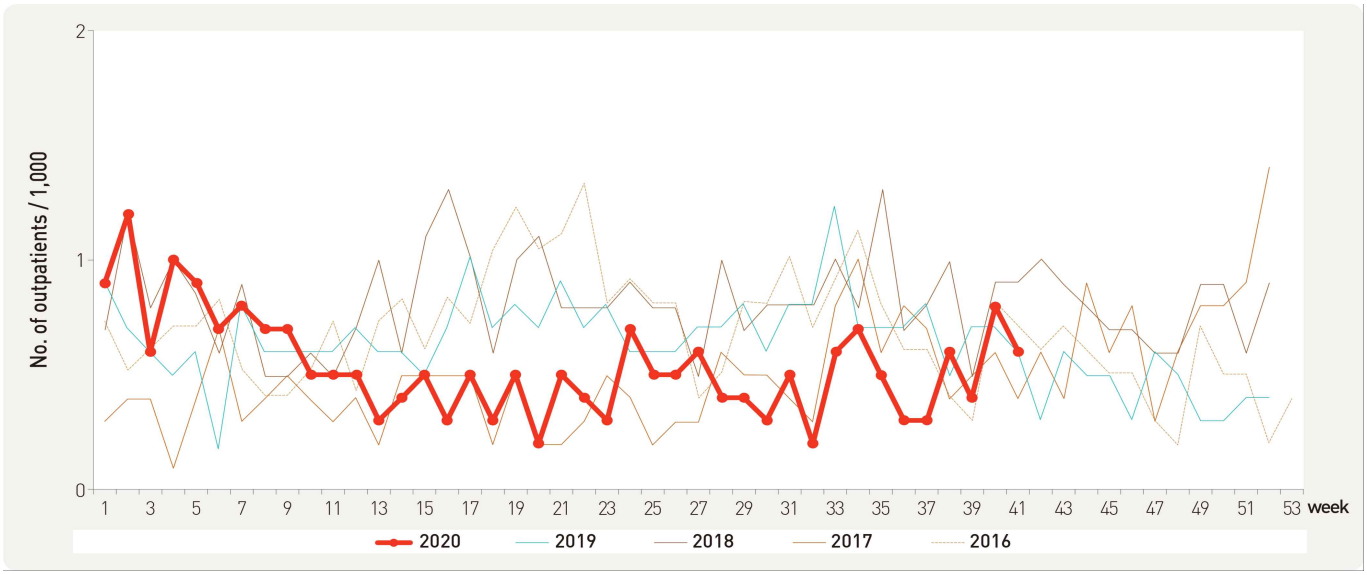


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases†, weeks ending October 10, 2020 (41st Week)

- Cases per sentinel: 2.9 for human Papilloma virus infection, 2.6 for condyloma acuminata, 2.0 for chlamydia, 1.9 for genital herpes, 1.3 for gonorrhea, 1.0 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 40th week of 2020
  Increase: condyloma acuminata (1.8 → 2.6), human Papilloma virus infection (2.4 → 2.9), primary Syphilis (0.0 → 1.0)
  Decrease: chlamydia (2.4 → 2.0), genital herpes (2.3 → 1.9)
  No change: gonorrhea (1.3 → 1.3), secondary Syphilis (0.0 → 0.0), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 41st week: 6 for gonorrhea, 22 for chlamydia, 29 for genital herpes, 18 for condyloma acuminata, 17 for human Papilloma virus infection, 2 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	9.1	10.2	2.0	26.6	32.2	1.9	38.5	41.3	2.6	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§
2.9	76.2	76.2	1.0	3.7	3.7	0.0	4.3	4.3	0.0	1.5	1.5

Cum: Cumulative counts from 1st week to current week in a year
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.
※ Added human Papilloma virus infection and syphilis from 1st week 2020.

III. Waterborne and Foodborne Infectious Diseases

1. Waterborne and foodborne disease outbreaks, weeks ending October 10, 2020 (41st Week)

- No. of reported outbreaks: 4 with 11 patients (cumulative no. of outbreaks: 181 with 2,187 patients)
- Variation: no change from 4 in 40th week of 2020
- Reporting sites: 254 health centers

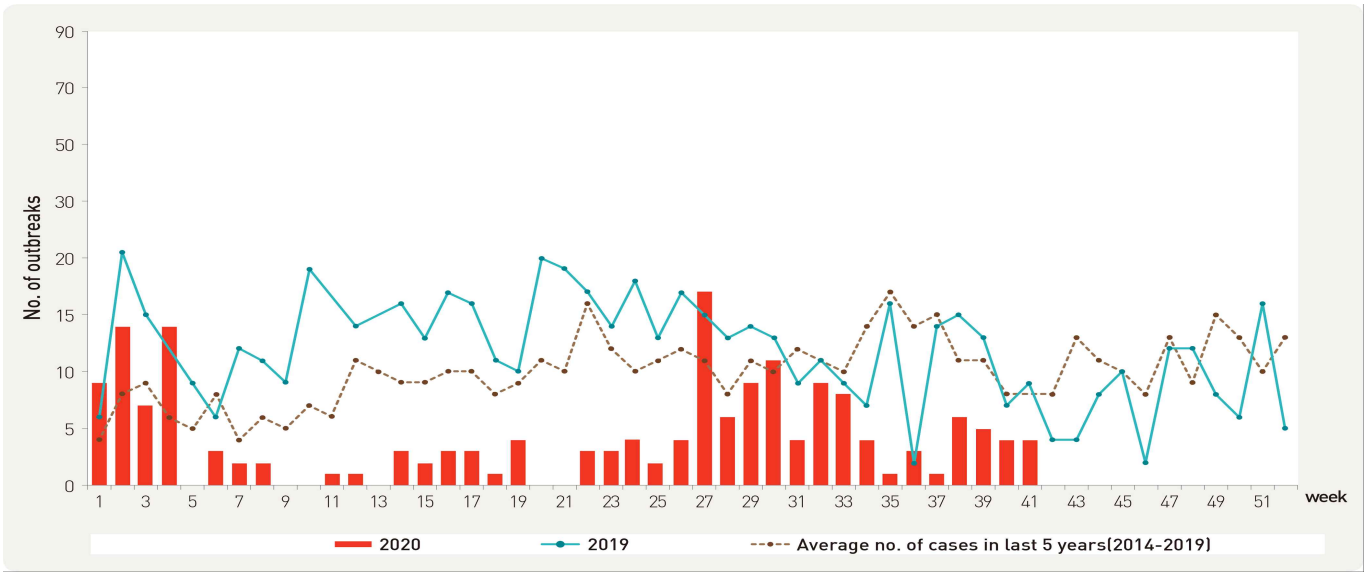


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending October 10, 2020 (41st Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 65 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 40 specimens in 40th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

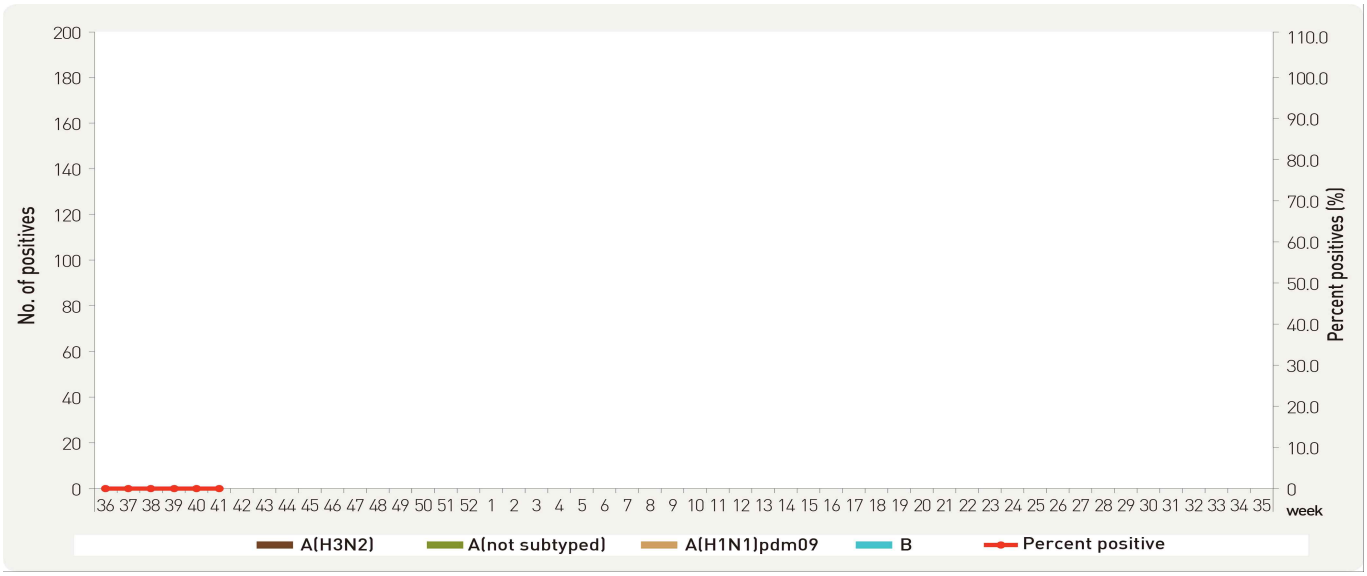


Figure 6. Number of specimens positive for influenza by subtype, 2020-2021 flu season

2. Respiratory viruses, weeks ending October 10, 2020 (41st Week)

- Detection rate: 13.9% (cumulative mean proportion during preceding three weeks plus current week: 20.1% out of 268 specimens)
- Variation (%p): decrease from 25.0% in 40th 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
38	85	25.9	10.9	0.0	1.2	0.0	0.0	9.4	4.7	0.0
39	78	16.7	2.6	0.0	0.0	0.0	0.0	12.8	1.3	0.0
40	40	25.0	7.5	0.0	0.0	0.0	0.0	12.5	5.0	0.0
41	65	13.9	1.5	0.0	0.0	0.0	0.0	12.3	0.0	0.0
Cum.※	268	20.1	5.6	0.0	0.4	0.0	0.0	11.6	2.6	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 September 13, 2020 – October 10, 2020 (Average no. of detected cases is 67 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 3, 2020 (40th Week)

- Detection rate: 8.0% [cumulative mean proportion in 2020: 287 cases (16.7%) out of 1,720 specimens]
- Variation (%p): increase from 0.0% in 39th 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	37	49	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	38	44	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	39	28	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	40	25	0	(0.0)	2	(8.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(8.0)
Cum. 2020		1,720	218	(12.7)	36	(2.1)	13	(0.8)	16	(0.9)	4	(0.2)	287	(16.7)

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

2. Acute gastroenteritis-causing bacteria, weeks ending October 3, 2020 (40th Week)

- Detection rate: 13.0% [cumulative mean proportion in 2020: 1,199 cases (16.3%) out of 7,341 specimens]
- Variation (%p): decrease from 20.0% in 39th 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	37	178	15 (8.4)	15 (8.4)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.1)	3 (1.7)	1 (0.6)	5 (2.8)	42 (23.6)
	38	160	5 (3.1)	13 (8.1)	0 (0.0)	0 (0.0)	0 (0.0)	2 (1.3)	7 (4.4)	2 (1.3)	4 (2.5)	34 (21.3)
	39	135	2 (1.5)	11 (8.1)	0 (0.0)	0 (0.0)	0 (0.0)	4 (3.0)	3 (2.2)	3 (2.2)	4 (3.0)	27 (20.0)
	40	54	2 (3.7)	1 (1.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	2 (3.7)	2 (3.7)	7 (13.0)
Cum. 2020		7,341	207 (2.8)	350 (4.8)	2 (0.03)	2 (0.03)	0 (0.0)	153 (2.1)	181 (2.5)	133 (1.8)	153 (2.1)	1,199 (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 October 3, 2020 (40th Week)

- Detection rate: 25.0% (1 case / 4 specimens) [cumulative mean proportion in 2020: 4.6% (17 cases / 370 specimens)]
  - Aseptic meningitis: 0 case (Cum. 2020: 4 cases)
  - HFMD and herpangina: 1 case (Cum. 2020: 6 cases)
  - HFMD with complications: 0 case (Cum. 2020: 0 case)
  - Other: 0 case (Cum. 2020: 7 cases)
- Variation (%p): decrease from 100.0% in 39th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

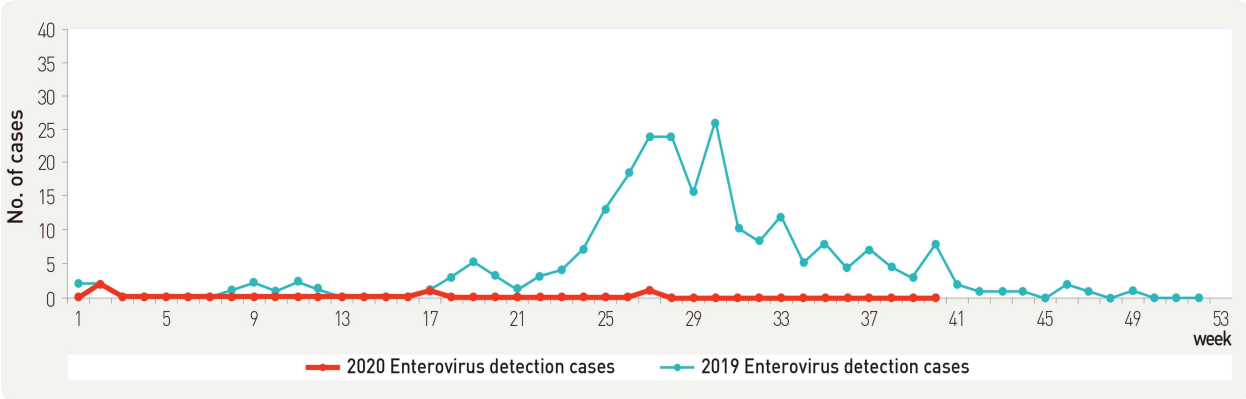


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

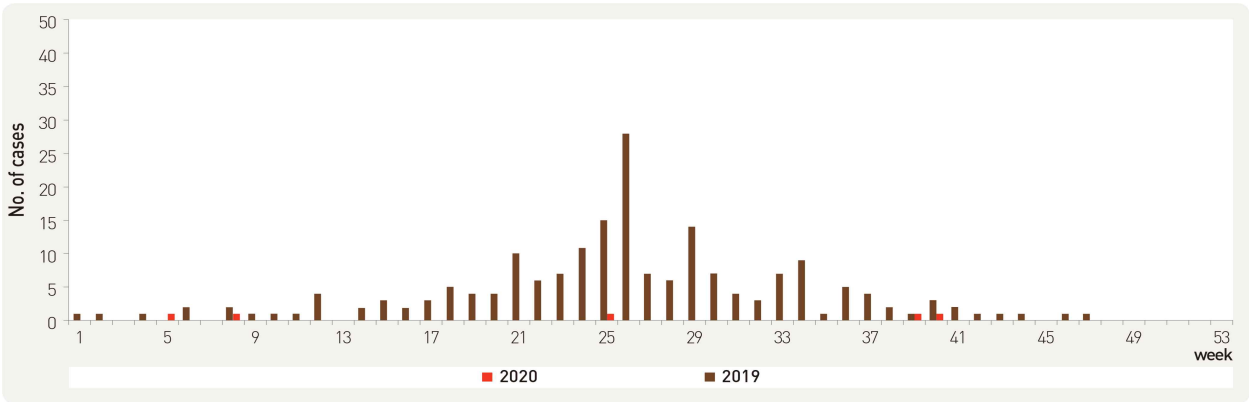


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

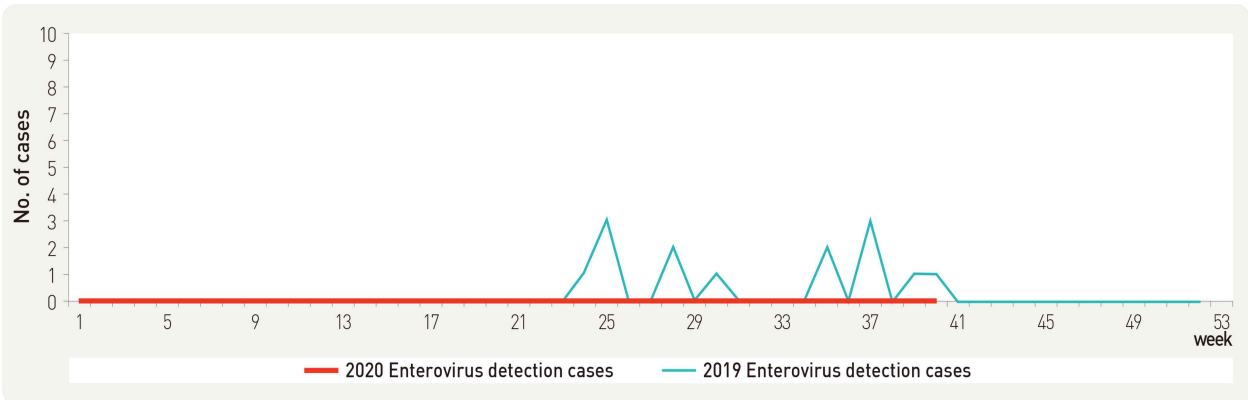


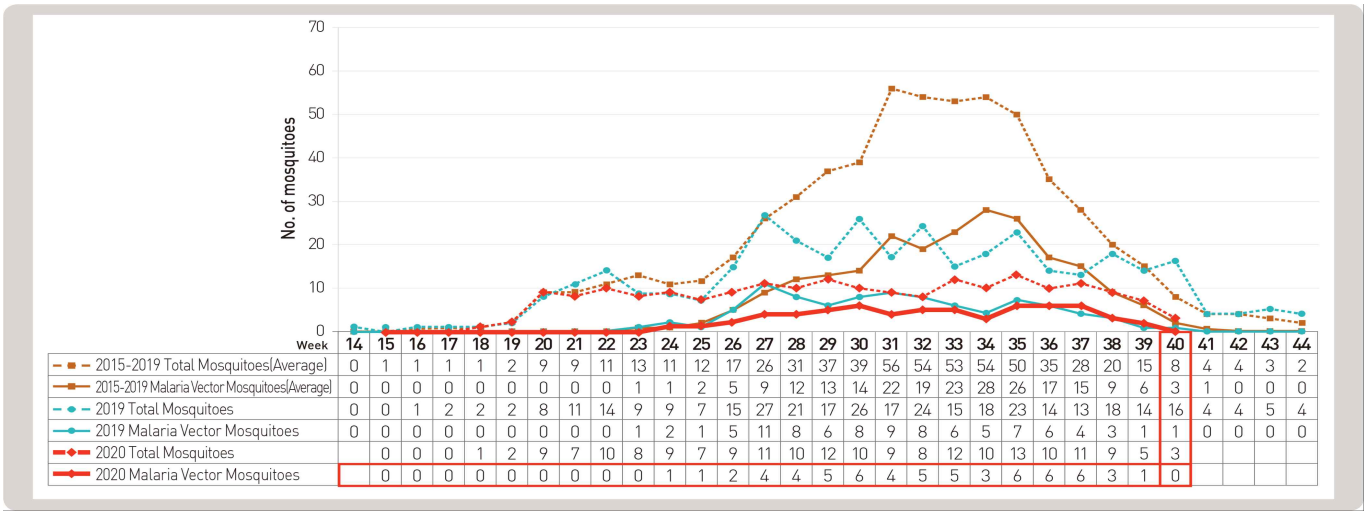
Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending October 3, 2020 (40th Week)

- No. of malaria vector mosquitoes: 0
- Variation: decrease from 1 in 39th week of 2020
- Sentinel reporting sites: 3 city/province (51 sites)

※ No. of mosquitoes: average number of mosquitoes/trap/day



Week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2015-2019 Total Mosquitoes(Average)	0	1	1	1	1	2	9	9	11	13	11	12	17	26	31	37	39	56	54	53	54	50	35	28	20	15	8	4	4	3	2
2015-2019 Malaria Vector Mosquitoes(Average)	0	0	0	0	0	0	0	0	0	1	1	2	5	9	12	13	14	22	19	23	28	26	17	15	9	6	3	1	0	0	0
2019 Total Mosquitoes	0	0	1	2	2	2	8	11	14	9	9	7	15	27	21	17	26	17	24	15	18	23	14	13	18	14	16	4	4	5	4
2019 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	0	0	1	2	1	5	11	8	6	8	9	8	6	5	7	6	4	3	1	1	0	0	0	0
2020 Total Mosquitoes		0	0	0	1	2	9	7	10	8	9	7	9	11	10	12	10	9	8	12	10	13	10	11	9	5	3				
2020 Malaria Vector Mosquitoes		0	0	0	0	0	0	0	0	0	1	1	2	4	4	5	6	4	5	5	3	6	6	6	3	1	0				

Figure 10. Weekly incidences of malaria vector mosquitoes in 2020

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

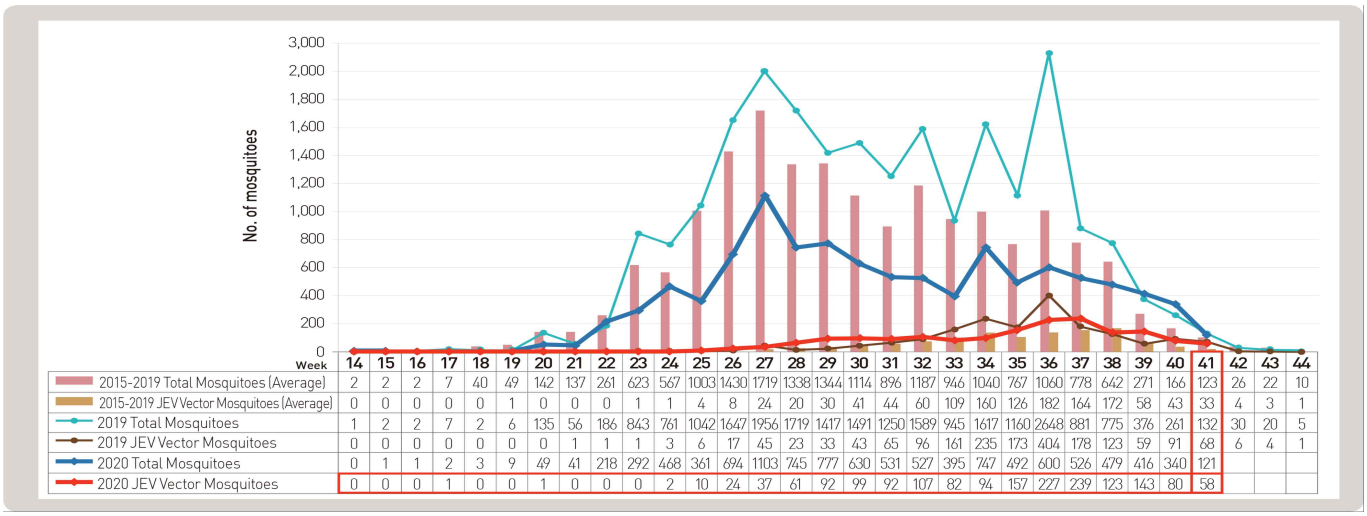
1. Japanese encephalitis vector mosquitoes, weeks ending October 10, 2020 (41st Week)

- No. of Japanese encephalitis vector mosquitoes: 58

※ JEV: Japanese encephalitis vector

- Variation: decrease from 80 in 40th week of 2020
- Sentinel reporting sites: 9 city/provincial health and environmental institutes (9 sites)

※ No. of mosquitoes: average number of mosquitoes/trap/day



Week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2015-2019 Total Mosquitoes (Average)	2	2	2	7	40	49	142	137	261	623	567	1003	1430	1719	1338	1344	1114	896	1187	946	1040	767	1060	778	642	271	166	123	26	22	10
2015-2019 JEV Vector Mosquitoes (Average)	0	0	0	0	0	1	0	0	0	1	1	4	8	24	20	30	41	44	60	109	160	126	182	164	172	58	43	33	4	3	1
2019 Total Mosquitoes	1	2	2	7	2	6	135	56	186	843	761	1042	1647	1956	1719	1417	1491	1250	1589	945	1617	1160	2648	881	775	376	261	132	30	20	5
2019 JEV Vector Mosquitoes	0	0	0	0	0	0	0	1	1	1	3	6	17	45	23	33	43	65	96	161	235	173	404	178	123	59	91	68	6	4	1
2020 Total Mosquitoes	0	1	1	2	3	9	49	41	218	292	468	361	694	1103	745	777	630	531	527	395	747	492	600	526	479	416	340	121			
2020 JEV Vector Mosquitoes	0	0	0	1	0	0	1	0	0	0	2	10	24	37	61	92	99	92	107	82	94	157	227	239	123	143	80	58			

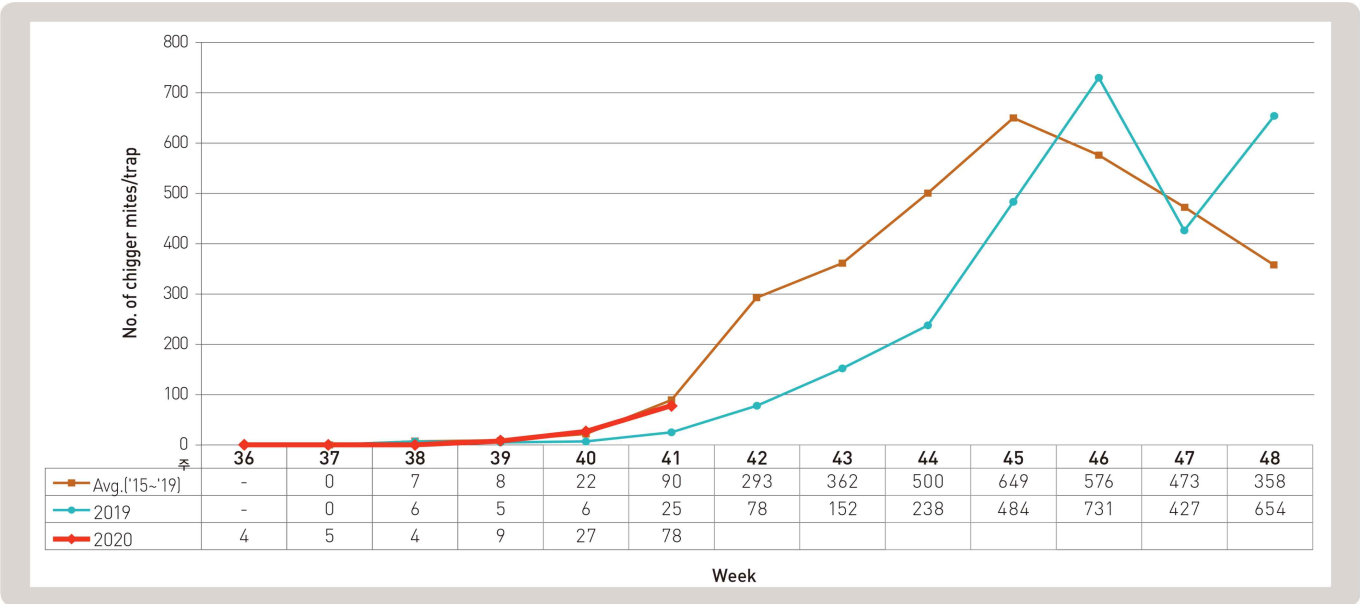
Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2020

IX. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending October 10, 2020 (41st Week)

- No. of chigger mites: 78
- Variation: increase from 27 in 40th 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



주	36	37	38	39	40	41	42	43	44	45	46	47	48
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
2020	4	5	4	9	27	78							

Figure 12. 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 + … + 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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