

I. National Notifiable Infectious Diseases

1. Reported cases, week ending July 4, 2020 (27th 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	480	10,739	567	23,821	26,433	28,161	30,892	32,181	
Varicella	435	21,523	1,395	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	3	56	3	94	213	128	121	121	
Paratyphoid fever	11	65	2	55	47	73	56	44	
Shigellosis	0	39	4	151	191	112	113	88	
EHEC	35	189	5	146	121	138	104	71	
Viral hepatitis A	59	1,835	154	17,598	2,437	4,419	4,679	1,804	
Pertussis	0	113	12	496	980	318	129	205	
Mumps	241	5,871	435	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	4	236	7	526	670	523	441	228	
Hansen's disease	0	3	0	4					
Scarlet fever	16	1,835	263	7,562	15,777	22,838	11,911	7,002	
VRSA	0	1	-	3	0	0	-	-	
CRE	179	7,701	-	15,369	11,954	5,717	-	-	
Category III									
Tetanus	2	18	1	31	31	34	24	22	
Viral hepatitis B	4	177	8	389	392	391	359	155	
Japanese encephalitis	0	0	0	34	17	9	28	40	
Viral hepatitis C	161	6,108	232	9,810	10,811	6,396	-	-	
Malaria	18	147	34	559	576	515	673	699	
Legionellosis	3	173	5	501	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	7	1	42	47	46	56	37	
Murine typhus	1	7	0	14	16	18	18	15	
Scrub typhus	16	329	35	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	6	47	1	138	118	103	117	104	
Brucellosis	0	14	0	1	5	6	4	5	
HFRS	3	82	8	399	433	531	575	384	
HIV/AIDS	20	390	24	1,005	989	1,008	1,060	1,018	
CJD	1	46	1	53	53	36	42	33	
Dengue fever	0	42	5	273	159	171	313	255	
Q fever	4	62	3	162	163	96	81	27	
Lyme Borreliosis	0	4	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	4	57	8	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 July 4, 2020 (27th 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	480	10,739	14,973	435	21,523	37,357	0	7	52	0	0	0
Seoul	87	1,877	2,730	27	2,510	4,054	0	2	8	0	0	0
Busan	38	721	1,055	31	1,187	2,172	0	0	2	0	0	0
Daegu	20	498	717	20	1,041	2,022	0	0	3	0	0	0
Incheon	19	569	782	29	1,080	1,840	0	0	3	0	0	0
Gwangju	6	269	376	15	1,033	1,189	0	0	0	0	0	0
Daejeon	13	248	328	29	720	1,017	0	0	7	0	0	0
Ulsan	7	189	315	20	421	1,134	0	0	1	0	0	0
Sejong	2	41	48	6	181	10,568	0	0	18	0	0	0
Gyeonggi	100	2,260	3,200	105	5,584	1,018	0	3	1	0	0	0
Gangwon	23	480	641	4	643	947	0	0	0	0	0	0
Chungbuk	22	323	468	18	811	1,382	0	0	1	0	0	0
Chungnam	28	558	699	14	752	1,553	0	0	2	0	0	0
Jeonbuk	16	448	587	16	858	1,531	0	0	2	0	0	0
Jeonnam	26	569	785	19	812	1,978	0	1	2	0	0	0
Gyeongbuk	31	819	1,080	25	1,197	3,574	0	0	1	0	0	0
Gyeongnam	35	710	976	48	2,205	1,006	0	1	1	0	0	0
Jeju	7	160	185	9	488	372	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 July 4, 2020 (27th 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	3	56	88	11	65	27	0	39	67	35	189	50
Seoul	1	7	17	1	7	5	0	6	17	0	12	9
Busan	2	6	8	7	19	3	0	4	3	2	3	2
Daegu	0	2	3	0	6	2	0	0	4	0	1	2
Incheon	0	8	5	0	2	1	0	4	6	2	5	3
Gwangju	0	2	1	0	2	1	0	2	2	2	9	9
Daejeon	0	0	5	0	0	1	0	0	1	0	1	1
Ulsan	0	1	2	0	0	0	0	2	0	0	3	1
Sejong	0	0	18	0	0	6	0	0	13	0	0	7
Gyeonggi	0	18	2	0	5	0	0	12	1	20	104	2
Gangwon	0	1	3	0	5	1	0	0	1	0	2	2
Chungbuk	0	1	4	1	1	0	0	0	4	0	3	1
Chungnam	0	0	1	0	4	2	0	2	2	1	4	0
Jeonbuk	0	1	4	0	1	1	0	0	4	1	4	4
Jeonnam	0	0	4	1	7	1	0	1	5	1	11	2
Gyeongbuk	0	3	7	0	1	2	0	2	3	3	8	2
Gyeongnam	0	6	3	0	3	1	0	4	1	2	7	2
Jeju	0	0	1	1	2	0	0	0	0	1	12	1

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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 July 4, 2020 (27th 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	59	1,835	3,442	0	113	156	241	5,871	10,535	0	2	3
Seoul	10	332	648	0	15	23	15	725	1,071	0	0	1
Busan	3	55	122	0	6	9	22	327	677	0	1	0
Daegu	1	46	55	0	5	4	5	221	363	0	0	0
Incheon	5	205	245	0	5	11	6	312	455	0	0	0
Gwangju	0	37	62	0	10	9	10	237	564	0	0	0
Daejeon	5	72	335	0	7	4	3	165	256	0	0	0
Ulsan	1	24	25	0	2	4	13	172	357	0	0	0
Sejong	1	11	1,047	0	0	26	3	34	2,711	0	0	1
Gyeonggi	8	583	63	0	17	2	79	1,707	322	0	1	0
Gangwon	0	42	164	0	0	4	2	185	235	0	0	0
Chungbuk	2	67	259	0	0	4	6	174	406	0	0	0
Chungnam	10	107	120	0	4	4	17	271	729	0	0	0
Jeonbuk	4	105	87	0	2	10	11	271	519	0	0	1
Jeonnam	2	30	62	0	20	14	6	225	520	0	0	0
Gyeongbuk	5	63	82	0	8	23	12	274	1,173	0	0	0
Gyeongnam	1	42	17	0	11	2	23	479	135	0	0	0
Jeju	1	14	49	0	1	3	8	92	42	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 July 4, 2020 (27th 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	8	16	1,835	7,777	2	18	13	4	177	171
Seoul	0	1	2	1	261	1,040	0	1	1	0	31	29
Busan	0	1	1	1	109	569	0	1	1	2	7	13
Daegu	0	0	0	0	39	280	1	1	1	0	7	6
Incheon	0	1	1	1	96	361	0	0	0	0	12	10
Gwangju	0	0	0	3	201	353	0	1	1	0	4	3
Daejeon	0	0	0	2	75	283	0	0	1	0	8	7
Ulsan	0	0	0	0	72	353	0	0	0	0	5	4
Sejong	0	0	2	0	14	2,263	0	0	1	0	2	42
Gyeonggi	0	2	1	0	477	118	0	2	0	2	44	5
Gangwon	0	0	0	0	31	139	0	1	0	0	5	6
Chungbuk	0	0	0	1	24	348	0	2	1	0	3	10
Chungnam	0	0	0	2	63	267	1	5	0	0	6	9
Jeonbuk	0	0	0	1	48	293	0	3	3	0	7	8
Jeonnam	0	0	0	1	78	394	0	0	2	0	10	9
Gyeongbuk	0	1	1	0	70	590	0	1	1	0	9	9
Gyeongnam	0	0	0	2	134	86	0	0	0	0	16	1
Jeju	0	0	0	1	43	40	0	0	0	0	1	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 July 4, 2020 (27th 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	0	0	18	147	247	3	173	97	0	7	2
Seoul	0	0	0	2	33	32	0	48	28	0	1	1
Busan	0	0	0	0	2	3	2	10	5	0	0	0
Daegu	0	0	0	0	1	2	0	5	4	0	0	0
Incheon	0	0	0	4	16	32	0	7	7	0	1	0
Gwangju	0	0	0	0	4	2	0	7	1	0	0	0
Daejeon	0	0	0	0	2	2	0	3	1	0	0	0
Ulsan	0	0	0	2	3	2	0	1	2	0	0	0
Sejong	0	0	0	0	0	148	0	0	22	0	0	1
Gyeonggi	0	0	0	6	65	9	0	40	3	0	3	0
Gangwon	0	0	0	2	10	2	0	1	3	0	0	0
Chungbuk	0	0	0	1	1	2	0	7	3	0	0	0
Chungnam	0	0	0	1	3	1	1	4	2	0	1	0
Jeonbuk	0	0	0	0	2	2	0	7	3	0	0	0
Jeonnam	0	0	0	0	0	2	0	10	8	0	0	0
Gyeongbuk	0	0	0	0	2	3	0	5	3	0	0	0
Gyeongnam	0	0	0	0	3	2	0	8	2	0	1	0
Jeju	0	0	0	0	0	1	0	10	0	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 July 4, 2020 (27th 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	7	5	16	329	601	6	47	20	0	14	1
Seoul	0	0	1	0	6	27	0	5	1	0	3	1
Busan	0	0	0	2	21	23	0	3	1	0	0	0
Daegu	0	0	0	0	2	5	0	3	0	0	0	0
Incheon	1	5	1	1	4	12	1	2	0	0	1	0
Gwangju	0	0	1	0	4	14	0	0	1	0	0	0
Daejeon	0	0	0	2	10	15	1	3	0	0	0	0
Ulsan	0	1	0	1	8	13	0	0	0	0	0	0
Sejong	0	0	0	0	4	56	0	0	5	0	1	0
Gyeonggi	0	1	0	1	31	16	1	9	1	0	1	0
Gangwon	0	0	0	0	5	12	0	1	1	0	0	0
Chungbuk	0	0	1	0	6	58	0	1	3	0	4	0
Chungnam	0	0	0	0	28	54	1	5	1	0	1	0
Jeonbuk	0	0	1	2	48	149	1	5	2	0	2	0
Jeonnam	0	0	0	4	82	40	1	3	2	0	1	0
Gyeongbuk	0	0	0	0	7	98	0	4	2	0	0	0
Gyeongnam	0	0	0	3	53	7	0	3	0	0	0	0
Jeju	0	0	0	0	10	2	0	0	0	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 July 4, 2020 (27th 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	82	138	1	46	22	0	42	90	4	62	61
Seoul	0	4	6	0	10	6	0	14	28	0	2	6
Busan	0	0	4	0	5	2	0	5	6	0	2	1
Daegu	1	2	1	0	2	1	0	1	5	0	0	1
Incheon	0	2	2	0	5	0	0	2	5	0	1	2
Gwangju	0	1	2	0	2	0	0	0	1	0	1	2
Daejeon	0	1	2	0	1	1	0	0	1	2	8	1
Ulsan	0	0	1	0	1	0	0	1	2	0	0	1
Sejong	0	0	39	0	0	5	0	0	25	0	1	10
Gyeonggi	0	15	5	0	12	1	0	13	2	1	8	0
Gangwon	0	9	8	0	0	0	0	0	1	0	0	12
Chungbuk	1	4	16	0	3	1	0	0	2	1	15	7
Chungnam	1	6	11	0	1	1	0	2	2	0	4	4
Jeonbuk	0	12	19	0	1	1	0	0	2	0	3	6
Jeonnam	0	13	14	0	0	2	0	1	2	0	13	3
Gyeongbuk	0	7	7	0	0	1	0	1	4	0	0	5
Gyeongnam	0	3	1	1	3	0	0	1	2	0	4	0
Jeju	0	3	0	0	0	0	0	1	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 July 4, 2020 (27th 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	4	7	4	57	47	0	0	-
Seoul	0	2	3	0	2	1	0	0	-
Busan	0	0	0	0	0	1	0	0	-
Daegu	0	0	0	0	2	1	0	0	-
Incheon	0	0	1	0	2	0	0	0	-
Gwangju	0	0	0	0	0	0	0	0	-
Daejeon	0	0	0	0	1	0	0	0	-
Ulsan	0	0	0	0	2	1	0	0	-
Sejong	0	0	1	0	0	7	0	0	-
Gyeonggi	0	0	0	1	1	7	0	0	-
Gangwon	0	1	0	0	7	1	0	0	-
Chungbuk	0	0	1	0	2	5	0	0	-
Chungnam	0	1	0	0	8	3	0	0	-
Jeonbuk	0	0	0	0	1	3	0	0	-
Jeonnam	0	0	1	0	4	6	0	0	-
Gyeongbuk	0	0	0	0	8	6	0	0	-
Gyeongnam	0	0	0	2	13	5	0	0	-
Jeju	0	0	0	1	4	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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending July 4, 2020 (27th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 1.8 cases (=0.18%)
- Variation: increase from 1.7 cases in 26th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

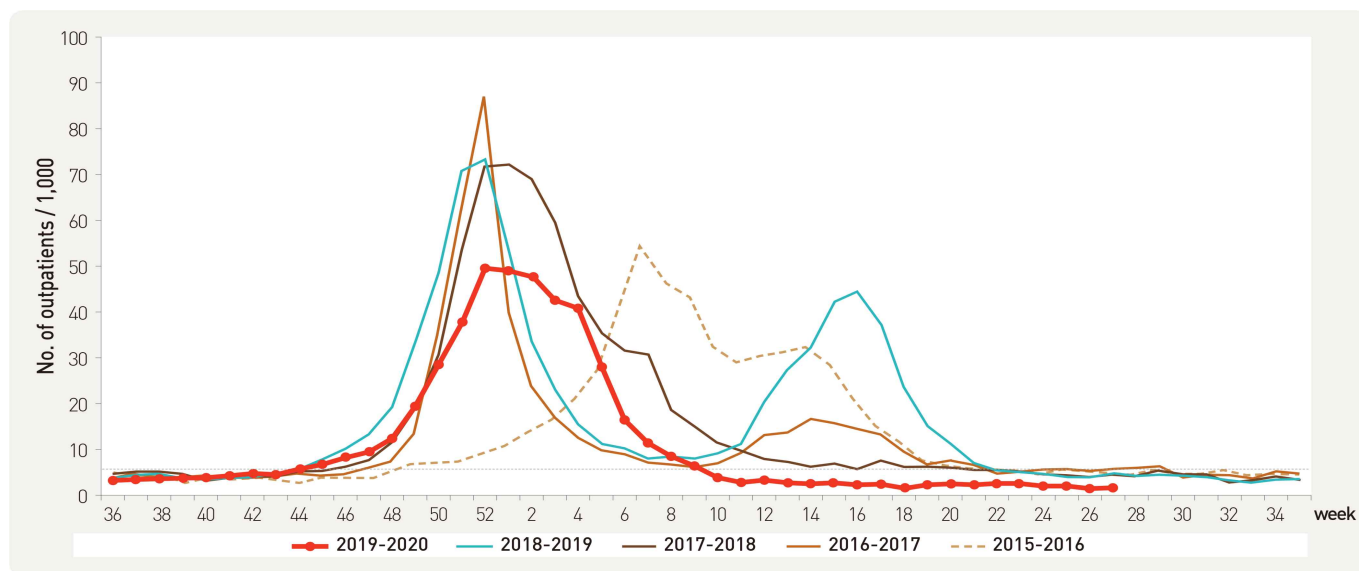


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending July 4, 2020 (27th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 1.1 cases
- Variation: no change from 1.1 cases in 26th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

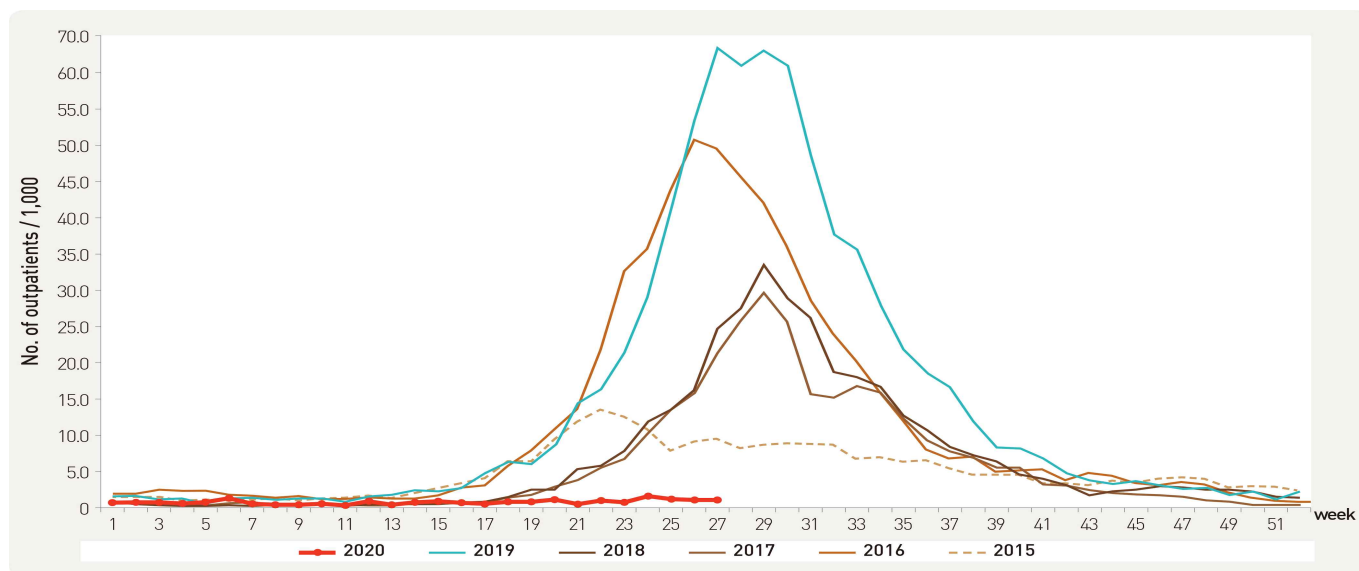


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending July 4, 2020 (27th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 7.8 cases
- Variation: increase from 6.8 cases in 26th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

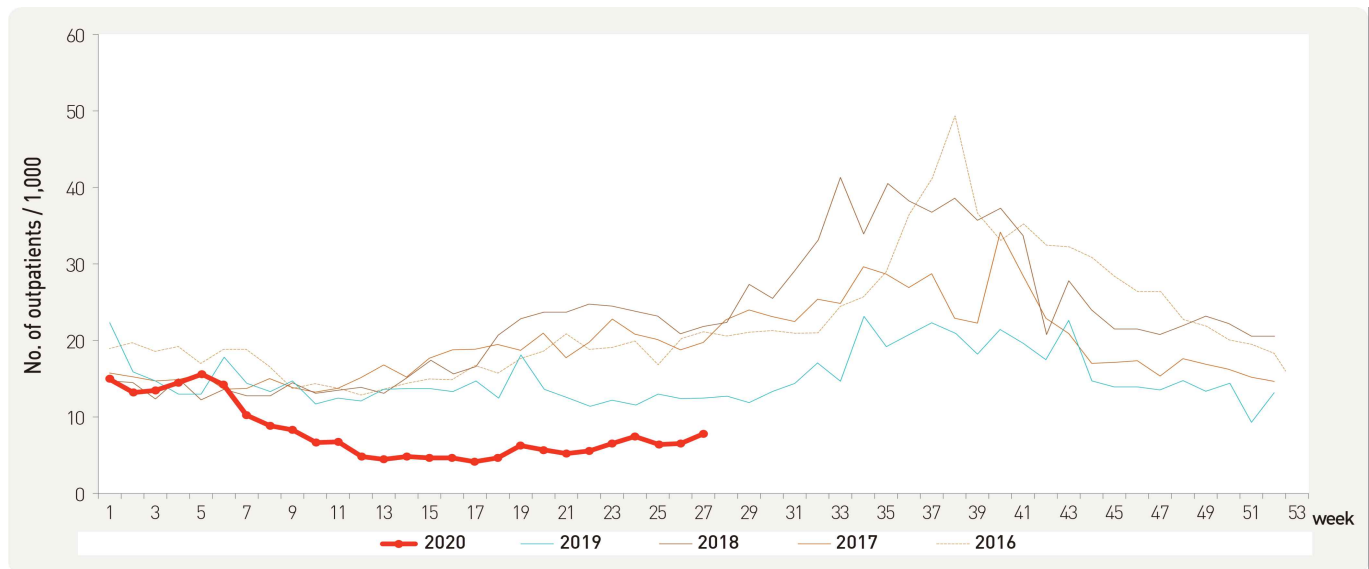


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.7 case
- Variation: increase from 0.5 case in 26th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

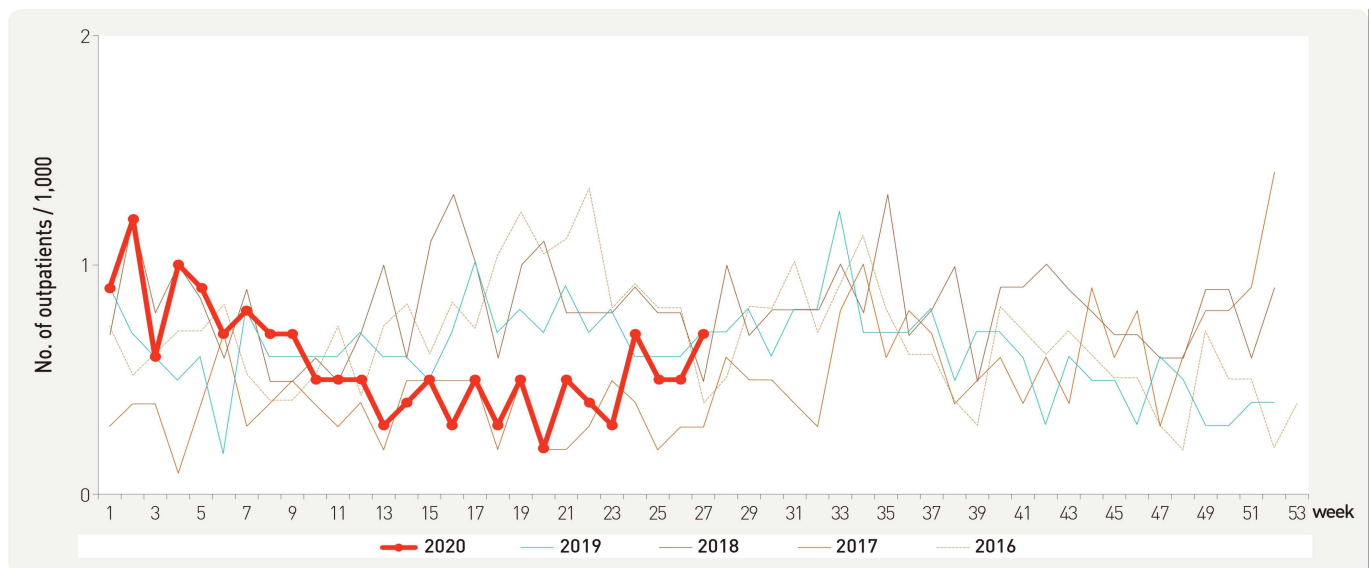


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending July 4, 2020 (27th Week)

- Cases per sentinel: 3.3 for human Papilloma virus infection, 3.0 for condyloma acuminata, 2.2 for genital herpes, 1.7 for chlamydia, 1.6 for gonorrhea, 1.0 for secondary Syphilis, 0.0 for primary Syphilis, 0.0 for congenital Syphilis
- Variation from 26th week of 2020
Increase: gonorrhea (1.3 → 1.6), condyloma acuminata (1.9 → 3.0)
Decrease: genital herpes (2.3 → 2.2), human Papilloma virus infection (4.8 → 3.3), primary Syphilis (1.0 → 0.0), secondary Syphilis (2.0 → 1.0)
No change: chlamydia (1.7 → 1.7), congenital Syphilis (0.0 → 0.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 27th week: 5 for gonorrhea, 37 for chlamydia, 40 for genital herpes, 22 for condyloma acuminata, 24 for human Papilloma virus infection, 0 for primary Syphilis, 1 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 [§]
1.6	6.0	6.7	1.7	17.8	14.2	2.2	25.8	15.0	3.0	15.6	15.4

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 [§]
3.3	46.9	46.9	0.0	2.4	2.4	1.0	2.7	2.7	0.0	2.5	2.5

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 July 4, 2020 (27th Week)

- No. of reported outbreaks: 17 with 171 patient (cumulative no. of outbreaks: 103 with 976 patients)
- Variation: increase from 4 in 26th week of 2020
- Reporting sites: 254 health centers

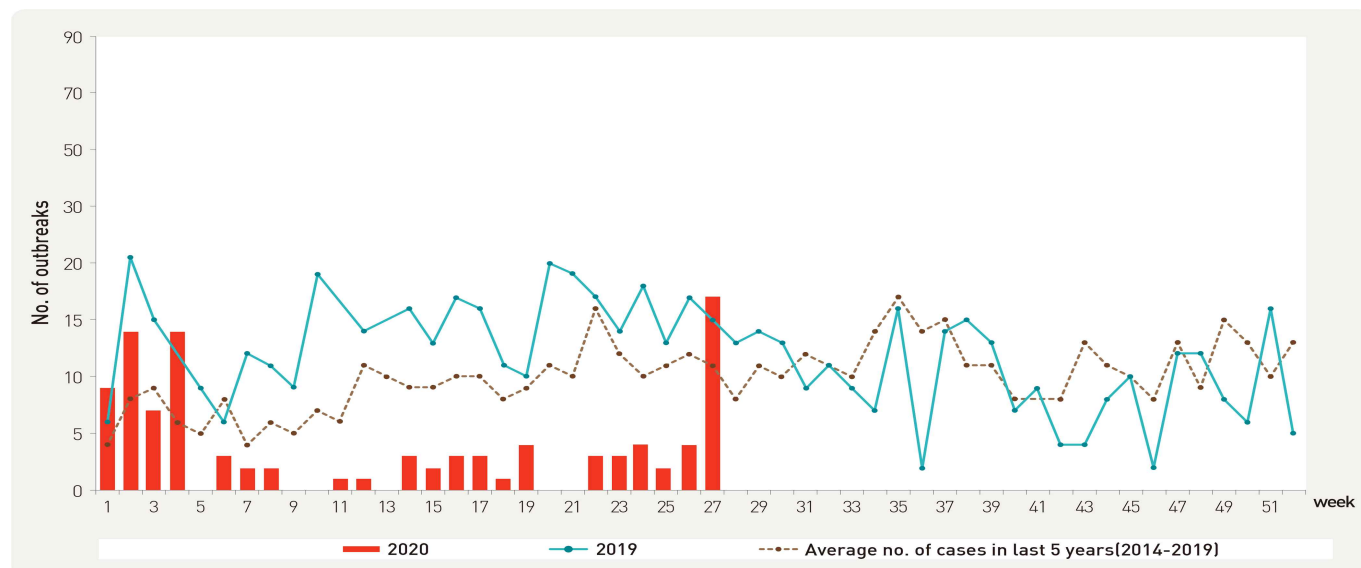


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending July 4, 2020 (27th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 102 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 cases (0.0%) / 78 specimens in 26th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

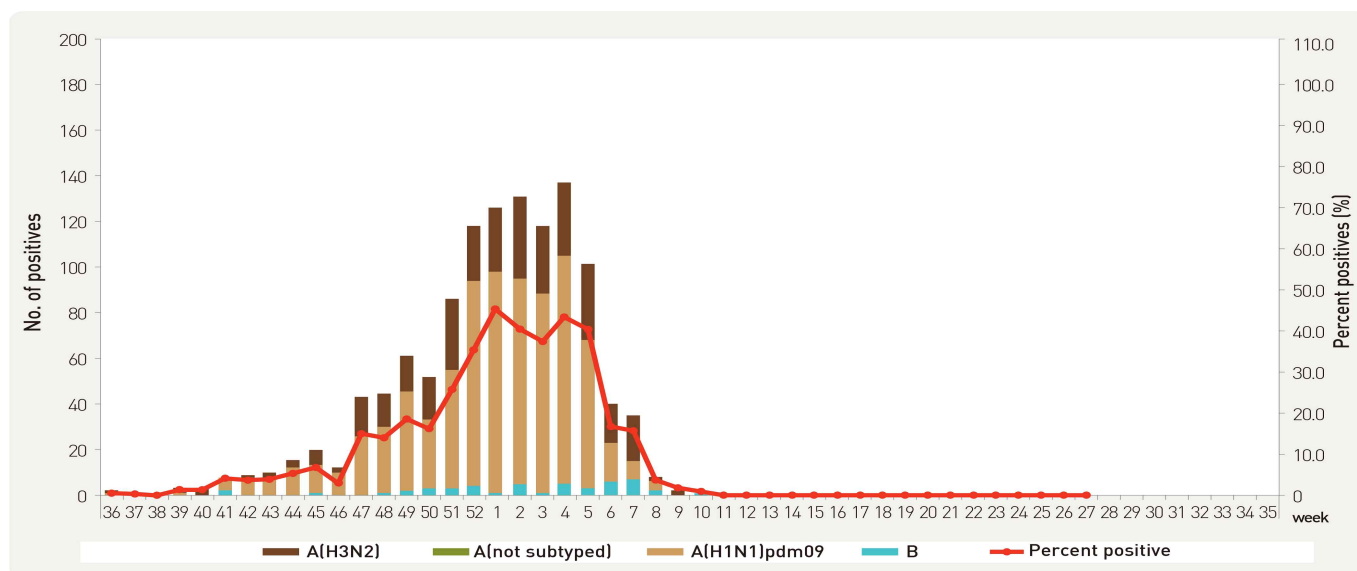


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending July 4, 2020 (27th Week)

- Detection rate: 45.1% (cumulative mean proportion during preceding three weeks plus current week: 49.4% out of 352 specimens)
- Variation (%p): decrease from 46.6% in 26th 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
24	84	48.8	3.6	1.2	0.0	0.0	0.0	44.0	0.0	0.0
25	78	59.0	10.3	0.0	0.0	0.0	0.0	48.7	0.0	0.0
26	88	46.6	6.8	0.0	0.0	0.0	0.0	34.1	4.5	1.1
27	102	45.1	7.8	0.0	0.0	0.0	0.0	35.3	2.0	0.0
Cum.*	352	49.4	7.1	0.3	0.0	0.0	0.0	40.1	1.7	0.3
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 June 7, 2020 – July 4, 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 June 27, 2020 (26th Week)

- Detection rate: 10.9% [cumulative mean proportion in 2020: 260 cases (24.6%) out of 1,059 specimens]
- Variation (%p): decrease from 17.3% in 25th 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 23	41	3	(7.3)	0	(0.0)	1	(2.4)	1	(2.4)	1	(2.4)	5	(12.2)
24	43	8	(18.6)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	8	(18.6)
25	52	8	(15.4)	1	(1.9)	0	(0.0)	0	(0.0)	0	(0.0)	9	(17.3)
26	55	5	(9.1)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	6	(10.9)
Cum. 2020	1,059	198	(18.7)	32	(3.0)	11	(1.0)	15	(1.4)	4	(0.4)	260	(24.6)

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

2. Acute gastroenteritis-causing bacteria, weeks ending June 27, 2020 (26th Week)

- Detection rate: 20.7% [cumulative mean proportion in 2020: 572 cases (13.3%) out of 4,296 specimens]
- Variation (%p): decrease from 23.2% in 25th 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.parahae molyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C.perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2020	23	230	6 (2.6)	11 (4.8)	0 (0)	1 (0.4)	0 (0)	7 (3.0)	11 (4.8)	4 (1.7)	6 (2.6)	46 (20.0)
	24	197	14 (7.1)	13 (6.6)	0 (0)	0 (0)	0 (0)	4 (2.0)	4 (2.0)	5 (2.5)	5 (2.5)	46 (23.4)
	25	207	20 (9.7)	15 (7.2)	0 (0)	0 (0)	0 (0)	4 (1.9)	3 (1.4)	4 (1.9)	2 (1.0)	48 (23.2)
	26	116	6 (5.2)	7 (6.0)	0 (0)	0 (0)	0 (0)	5 (4.3)	0 (0)	4 (3.4)	2 (1.7)	24 (20.7)
Cum. 2020		4,296	102 (2.4)	125 (2.9)	2 (0.05)	1 (0.02)	0 (0)	68 (1.6)	111 (2.6)	78 (1.8)	74 (1.7)	572 (13.3)

* 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 June 27, 2020 (26th Week)

- Detection rate: 0.0% (0 case / 9 specimens) [cumulative mean proportion in 2020: 5.0% (13 cases / 260 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2020: 3 cases)
 - HFMD and herpangina: 0 case (Cum. 2020: 4 cases)
 - HFMD with complications: 0 case (Cum. 2020: 0 case)
 - Other: 0 case (Cum. 2020: 6 cases)
- Variation (%p): decrease from 14.3% in 25th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

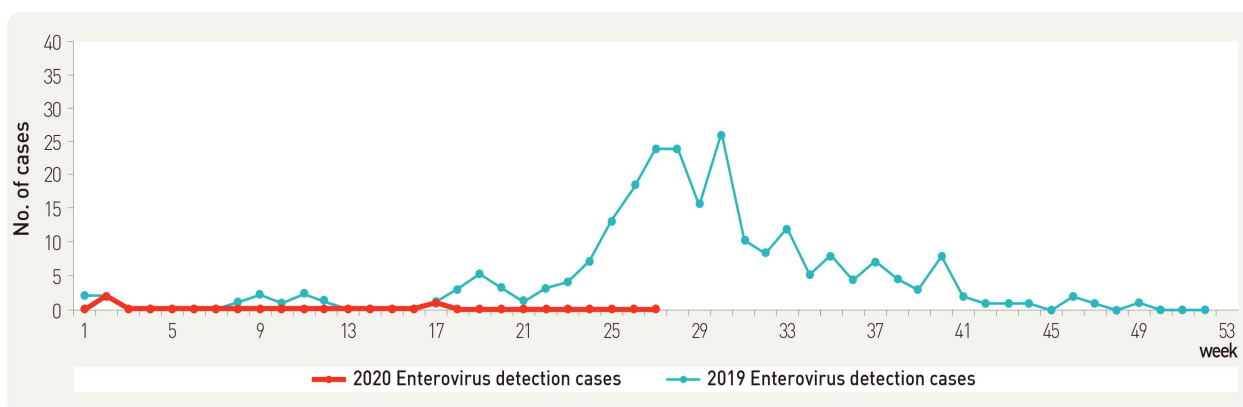


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

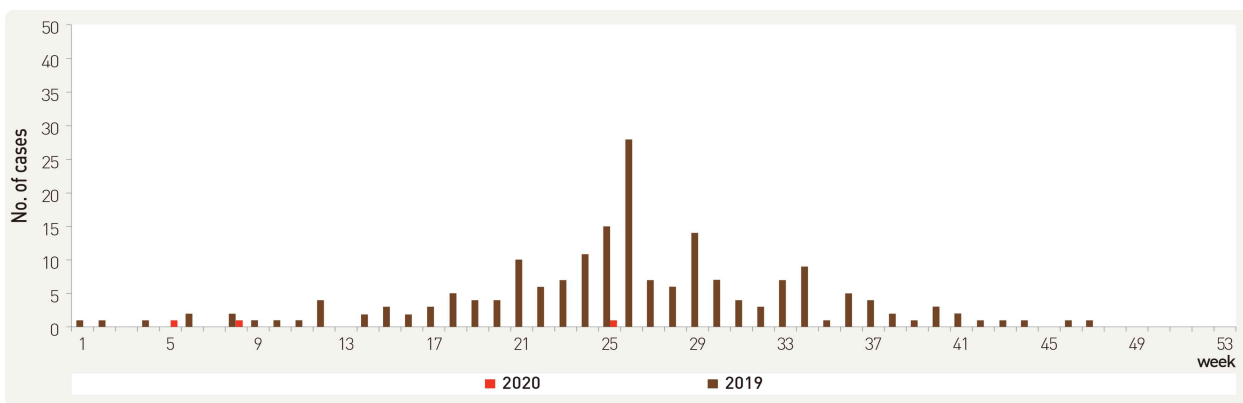


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

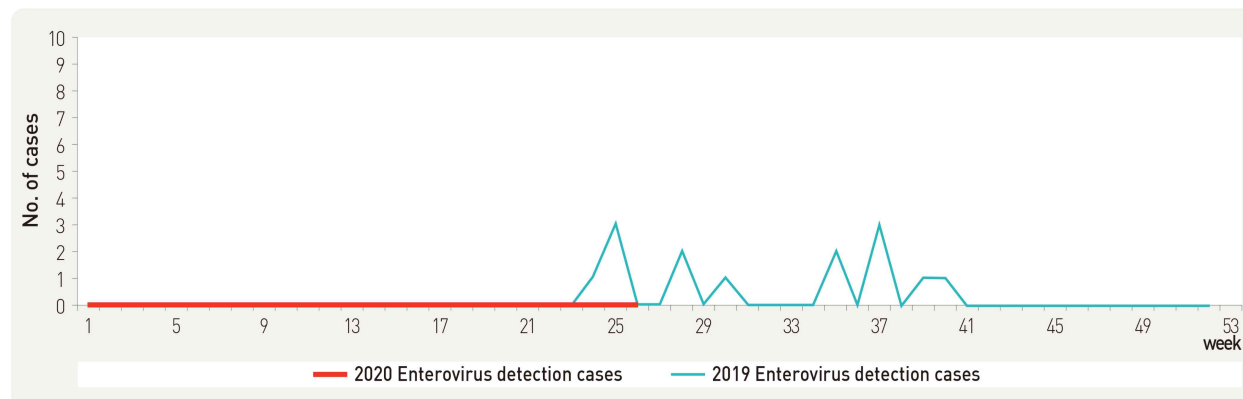


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending June 27, 2020 (26th Week)

- No. of malaria vector mosquitoes: 2
- Variation: increase from 1 in 25th week of 2020
- Sentinel reporting sites: 3 city/province (51 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

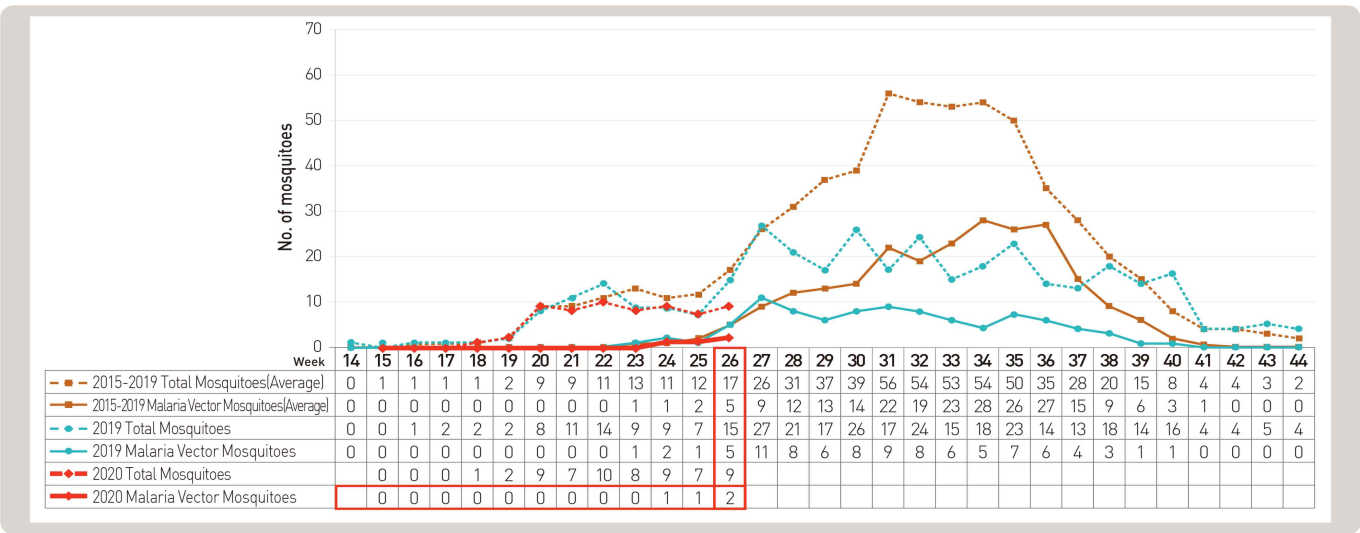


Figure 10. Weekly incidences of malaria vector mosquitoes in 2020

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending July 4, 2020 (27th Week)

- No. of Japanese encephalitis vector mosquitoes: 37
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 24 in 26th week of 2020
- Sentinel reporting sites: 9 city/provincial health and environmental institutes (9 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

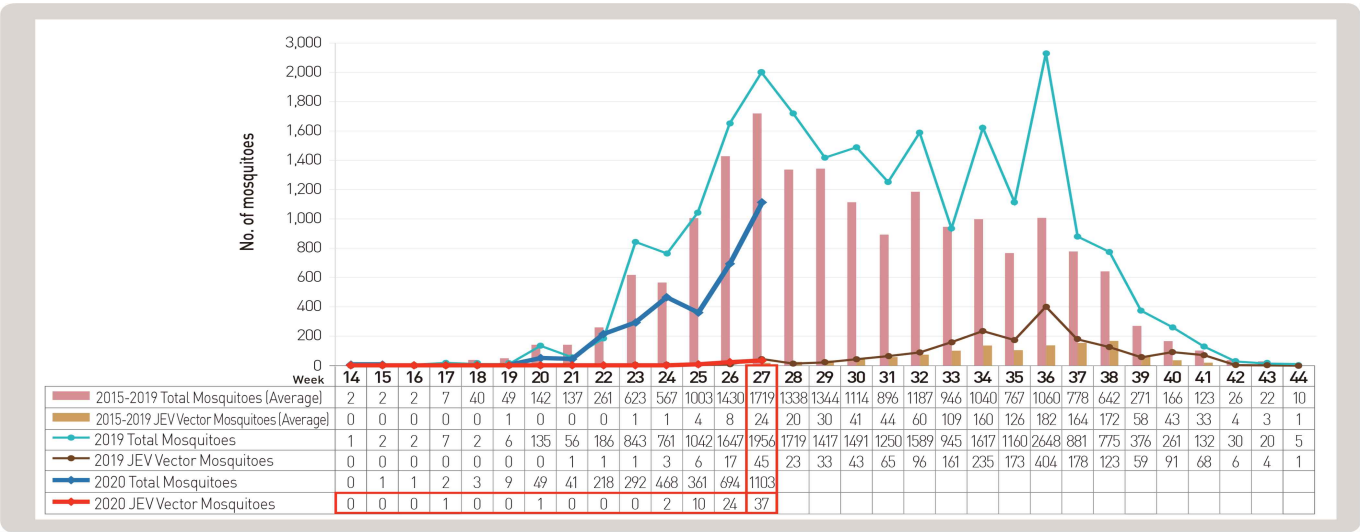


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2020

About PHWR Disease Surveillance Statistics

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

Using and Interpreting These Data in Tables

- **Current Week** – The number of cases under current week denotes cases who have been reported to Korea CDC at the central level via corresponding jurisdictions(health centers, and health departments) during that week and accepted/approved by surveillance staff.
- **Cum. 2018** – For the current year, it denotes the cumulative(Cum) year-to-date provisional counts for the specified condition.
- **5-year weekly average** – The 5-year weekly average is calculated by summing, for the 5 proceeding years, the provisional incidence counts for the current week, the two weeks preceding the current week, and the two weeks following the current week. The total sum of cases is then divided by 25 weeks. It gives help to discern the statistical aberration of the specified disease incidence by comparing difference between counts under current week and 5-year weekly average.

For example,

		Week Number				
		10	11	12	13	14
Year	2018			Current week		
	2017	X1	X2	X3	X4	X5
	2016	X6	X7	X8	X9	X10
	2015	X11	X12	X13	X14	X15
	2014	X16	X17	X18	X19	X20
	2013	X21	X22	X23	X24	X25

5-year weekly average for current week

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

- **Cum. 5-year average** – Mean value calculated by cumulative counts from 1st week to current week for 5 preceding years. It gives help to understand the increasing or decreasing pattern of the specific disease incidence by comparing difference between cum. 2018 and cum. 5-year average.

Contact Us

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