

I. National Notifiable Infectious Diseases

1. Reported cases, week ending April 25, 2020 (17th 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	401	6,816	556	23,821	26,433	28,161	30,892	32,181	
Varicella	362	16,497	1,499	82,868	96,467	80,092	54,060	46,330	
Measles	1	15	1	194	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	3	25	3	94	213	128	121	121	
Paratyphoid fever	3	20	1	55	47	73	56	44	
Shigellosis	1	22	1	150	191	112	113	88	
EHEC	1	15	1	146	121	138	104	71	
Viral hepatitis A	79	1,089	155	17,598	2,437	4,419	4,679	1,804	
Pertussis	0	102	4	496	980	318	129	205	
Mumps	213	3,353	452	15,967	19,237	16,924	17,057	23,448	
Rubella	1	5	0	8	0	7	11	11	
Meningococcal disease	0	4	0	16	14	17	6	6	
Pneumococcal disease	4	185	12	526	670	523	441	228	
Hansen's disease	0	2	0	3					
Scarlet fever	47	1,493	347	7,562	15,777	22,838	11,911	7,002	
VRSA	0	0	-	3	0	0	-	-	
CRE	208	4,436	-	15,289	11,954	5,717	-	-	
Category III									
Tetanus	0	7	1	31	31	34	24	22	
Viral hepatitis B	8	124	6	389	392	391	359	155	
Japanese encephalitis	0	0	0	34	17	9	28	40	
Viral hepatitis C	292	3,881	134	9,811	10,811	6,396	-	-	
Malaria	1	27	6	559	576	515	673	699	
Legionellosis	8	121	3	501	305	198	128	45	
<i>Vibrio vulnificus</i> sepsis	0	1	0	42	47	46	56	37	
Murine typhus	1	4	0	14	16	18	18	15	
Scrub typhus	10	158	26	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	2	20	1	139	118	103	117	104	
Brucellosis	2	12	0	1	5	6	4	5	
HFRS	5	46	4	399	433	531	575	384	
HIV/AIDS	18	242	16	996	989	1,008	1,060	1,018	
CJD	1	24	1	53	53	36	42	33	
Dengue fever	0	41	3	274	159	171	313	255	
Q fever	5	38	3	162	163	96	81	27	
Lyme Borreliosis	0	2	0	23	23	31	27	9	
Melioidosis	0	0	0	8	2	2	4	4	
Chikungunya fever	0	0	0	16	3	5	10	2	
SFTS	1	1	1	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 2019, 2020 are provisional but the data from 2014 to 2018 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 April 25, 2020 (17th 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	401	6,816	9,299	362	16,497	18,579	1	15	44	0	0	0
Seoul	67	1,184	1,695	58	1,892	2,054	0	4	5	0	0	0
Busan	21	445	654	19	854	1,124	0	0	2	0	0	0
Daegu	17	315	437	9	821	963	1	2	3	0	0	0
Incheon	26	368	489	35	798	971	0	0	3	0	0	0
Gwangju	13	170	235	10	790	634	0	0	0	0	0	0
Daejeon	7	151	207	7	531	501	0	0	6	0	0	0
Ulsan	7	143	187	7	252	567	0	0	1	0	0	0
Sejong	1	22	32	8	124	5,189	0	0	16	0	0	0
Gyeonggi	79	1,451	1,978	103	4,348	530	0	6	1	0	0	0
Gangwon	19	311	406	13	529	406	0	1	0	0	0	0
Chungbuk	15	202	285	9	633	714	0	0	1	0	0	0
Chungnam	14	338	436	12	557	765	0	0	1	0	0	0
Jeonbuk	26	298	365	12	665	809	0	0	1	0	0	0
Jeonnam	23	357	480	13	553	976	0	1	2	0	0	0
Gyeongbuk	35	522	685	8	940	1,704	0	0	1	0	0	0
Gyeongnam	26	445	609	30	1,814	511	0	1	1	0	0	0
Jeju	5	94	120	9	396	161	0	0	0	0	0	0

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

* The reported data for year 2019, 2020 are provisional but the data from 2014 to 2018 are finalized.

† 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 April 25, 2020 (17th 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	25	56	3	20	11	1	22	39	1	15	13
Seoul	0	5	12	2	3	3	1	3	9	0	3	3
Busan	0	0	5	0	2	1	0	4	2	0	0	0
Daegu	0	1	1	0	4	0	0	0	3	0	1	1
Incheon	0	3	4	0	0	1	0	2	3	0	1	1
Gwangju	0	1	1	0	1	0	0	1	1	0	0	2
Daejeon	0	0	3	0	0	0	0	0	1	0	0	0
Ulsan	0	1	2	0	0	0	0	2	0	0	0	0
Sejong	0	0	11	0	0	3	0	0	8	0	0	2
Gyeonggi	1	8	2	1	3	0	0	6	1	0	2	1
Gangwon	0	0	2	0	1	0	0	0	1	0	0	0
Chungbuk	0	0	3	0	0	0	0	0	1	0	0	0
Chungnam	0	1	0	0	3	1	0	1	1	0	1	0
Jeonbuk	0	0	2	0	0	1	0	0	3	0	2	0
Jeonnam	0	0	2	0	1	0	0	0	4	1	3	1
Gyeongbuk	1	1	4	0	1	1	0	1	1	0	0	1
Gyeongnam	1	4	1	0	1	0	0	2	0	0	2	1
Jeju	0	0	1	0	0	0	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 April 25, 2020 (17th 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	79	1,089	1,637	0	102	88	213	3,353	4,897	1	5	2
Seoul	16	200	289	0	11	16	22	418	467	1	1	1
Busan	1	26	63	0	6	4	9	166	330	0	1	0
Daegu	1	24	28	0	5	3	5	122	158	0	0	0
Incheon	9	136	119	0	5	8	14	211	193	0	0	0
Gwangju	0	16	32	0	8	4	10	116	303	0	0	0
Daejeon	2	34	160	0	7	1	8	97	112	0	0	0
Ulsan	1	15	12	0	2	2	7	94	171	0	0	0
Sejong	0	9	481	0	0	12	1	17	1,221	0	0	1
Gyeonggi	33	365	33	0	17	1	73	997	163	0	3	0
Gangwon	3	22	66	0	0	3	5	114	109	0	0	0
Chungbuk	2	43	127	0	0	3	3	101	189	0	0	0
Chungnam	0	63	63	0	4	3	9	156	404	0	0	0
Jeonbuk	2	52	48	0	1	5	7	148	260	0	0	0
Jeonnam	1	20	34	0	18	8	6	122	227	0	0	0
Gyeongbuk	5	37	50	0	8	11	12	154	513	0	0	0
Gyeongnam	3	22	9	0	9	1	17	270	57	0	0	0
Jeju	0	5	23	0	1	3	5	50	20	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 April 25, 2020 (17th 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	4	4	47	1,493	4,197	0	7	3	8	124	91
Seoul	0	0	1	8	229	564	0	0	0	1	24	15
Busan	0	1	0	3	94	325	0	0	0	0	4	7
Daegu	0	0	0	0	37	144	0	0	0	1	3	3
Incheon	0	0	0	2	80	194	0	0	0	0	8	5
Gwangju	0	0	0	8	106	208	0	0	0	0	4	1
Daejeon	0	0	0	3	68	150	0	0	0	0	6	3
Ulsan	0	0	0	2	61	195	0	0	0	1	2	2
Sejong	0	0	1	1	9	1,172	0	0	0	0	2	24
Gyeonggi	0	2	1	5	404	53	0	0	0	1	29	3
Gangwon	0	0	0	0	26	74	0	0	0	0	5	3
Chungbuk	0	0	0	3	22	196	0	2	0	0	0	5
Chungnam	0	0	0	4	48	149	0	3	0	0	1	4
Jeonbuk	0	0	0	1	37	168	0	1	1	0	5	4
Jeonnam	0	0	0	0	64	214	0	0	1	1	8	4
Gyeongbuk	0	1	1	1	60	327	0	1	1	2	7	7
Gyeongnam	0	0	0	5	117	45	0	0	0	1	15	1
Jeju	0	0	0	1	31	19	0	0	0	0	1	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 April 25, 2020 (17th 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	1	27	26	8	121	55	0	1	0
Seoul	0	0	0	0	7	7	2	37	16	0	0	0
Busan	0	0	0	0	1	0	1	7	3	0	0	0
Daegu	0	0	0	0	1	0	0	4	2	0	0	0
Incheon	0	0	0	0	1	3	0	5	4	0	0	0
Gwangju	0	0	0	0	3	1	0	4	0	0	0	0
Daejeon	0	0	0	0	0	0	0	1	1	0	0	0
Ulsan	0	0	0	0	0	0	0	1	2	0	0	0
Sejong	0	0	0	0	0	13	0	0	13	0	0	0
Gyeonggi	0	0	0	1	11	2	3	29	2	0	1	0
Gangwon	0	0	0	0	1	0	0	1	2	0	0	0
Chungbuk	0	0	0	0	0	0	0	3	1	0	0	0
Chungnam	0	0	0	0	0	0	0	3	1	0	0	0
Jeonbuk	0	0	0	0	0	0	0	3	1	0	0	0
Jeonnam	0	0	0	0	0	0	1	7	5	0	0	0
Gyeongbuk	0	0	0	0	2	0	0	2	2	0	0	0
Gyeongnam	0	0	0	0	0	0	0	5	0	0	0	0
Jeju	0	0	0	0	0	0	1	9	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 April 25, 2020 (17th 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	4	1	10	158	203	2	20	13	2	12	0
Seoul	0	0	0	0	2	11	0	0	1	0	3	0
Busan	0	0	0	1	13	9	0	2	1	0	0	0
Daegu	0	0	0	0	1	1	0	2	0	0	0	0
Incheon	1	2	0	0	1	5	0	0	0	0	0	0
Gwangju	0	0	0	0	0	4	0	0	1	0	0	0
Daejeon	0	0	0	0	3	4	0	0	0	0	0	0
Ulsan	0	0	0	0	3	6	0	0	0	0	0	0
Sejong	0	0	0	0	2	17	0	0	3	0	1	0
Gyeonggi	0	1	0	1	11	5	0	1	1	0	0	0
Gangwon	0	0	0	0	3	5	0	1	0	0	0	0
Chungbuk	0	1	1	0	4	17	0	2	1	2	5	0
Chungnam	0	0	0	1	11	14	1	4	1	0	0	0
Jeonbuk	0	0	0	1	26	47	1	2	2	0	2	0
Jeonnam	0	0	0	2	42	14	0	1	1	0	1	0
Gyeongbuk	0	0	0	0	4	38	0	3	1	0	0	0
Gyeongnam	0	0	0	4	25	5	0	2	0	0	0	0
Jeju	0	0	0	0	7	1	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 April 25, 2020 (17th 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	5	46	60	1	24	13	0	41	55	5	38	34
Seoul	1	2	3	0	6	3	0	13	17	0	2	4
Busan	0	0	1	0	1	1	0	5	3	0	0	1
Daegu	0	1	0	0	2	1	0	1	3	0	0	1
Incheon	0	2	1	0	2	0	0	2	3	0	0	1
Gwangju	0	1	1	0	2	0	0	0	1	0	0	1
Daejeon	0	1	0	0	1	0	0	0	1	0	4	1
Ulsan	0	0	0	0	0	0	0	1	1	0	0	1
Sejong	0	0	20	0	0	4	0	0	15	0	1	5
Gyeonggi	2	12	3	0	6	1	0	13	2	1	6	0
Gangwon	0	6	3	0	0	0	0	0	1	0	0	6
Chungbuk	0	0	6	0	1	0	0	0	2	3	13	3
Chungnam	1	4	5	0	1	1	0	2	0	1	2	3
Jeonbuk	0	4	7	0	1	0	0	0	2	0	3	3
Jeonnam	1	7	7	0	0	1	0	1	1	0	6	2
Gyeongbuk	0	3	3	0	0	1	0	1	3	0	0	2
Gyeongnam	0	2	0	1	1	0	0	1	0	0	1	0
Jeju	0	1	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 April 25, 2020 (17th 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	2	1	1	1	1	0	0	-
Seoul	0	1	1	0	0	0	0	0	-
Busan	0	0	0	0	0	0	0	0	-
Daegu	0	0	0	0	0	0	0	0	-
Incheon	0	0	0	0	0	0	0	0	-
Gwangju	0	0	0	0	0	0	0	0	-
Daejeon	0	0	0	0	0	0	0	0	-
Ulsan	0	0	0	0	0	0	0	0	-
Sejong	0	0	0	0	0	0	0	0	-
Gyeonggi	0	0	0	0	0	0	0	0	-
Gangwon	0	1	0	1	1	0	0	0	-
Chungbuk	0	0	0	0	0	0	0	0	-
Chungnam	0	0	0	0	0	0	0	0	-
Jeonbuk	0	0	0	0	0	0	0	0	-
Jeonnam	0	0	0	0	0	0	0	0	-
Gyeongbuk	0	0	0	0	0	0	0	0	-
Gyeongnam	0	0	0	0	0	1	0	0	-
Jeju	0	0	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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending April 25, 2020 (17th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 2.4 cases (=0.24%)
- Variation: increase from 2.3 cases in 16th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

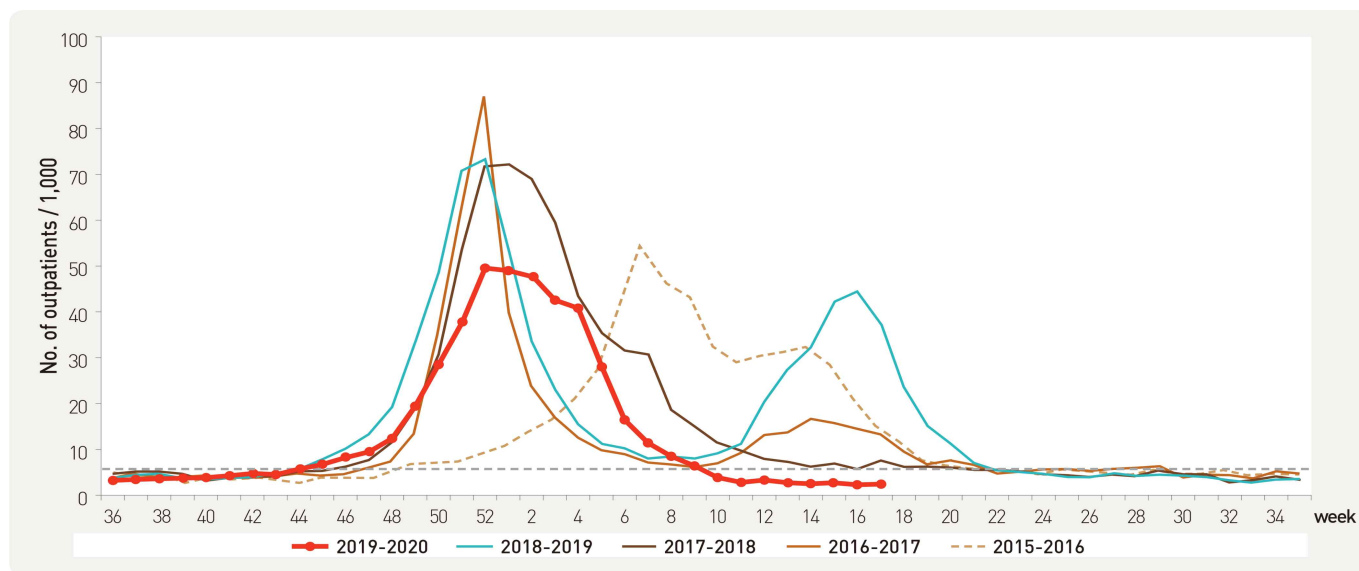


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending April 25, 2020 (17th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.5 case
- Variation: decrease from 0.7 case in 16th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics

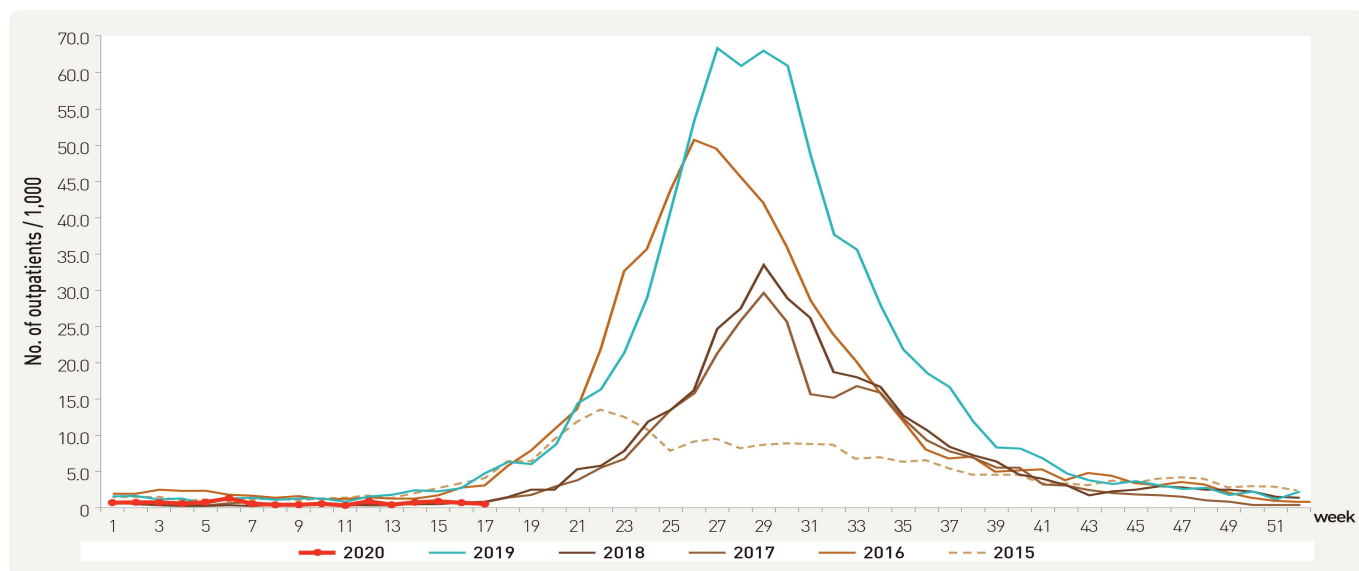


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending April 25, 2020 (17th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.1 cases
- Variation: decrease from 4.4 cases in 16th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

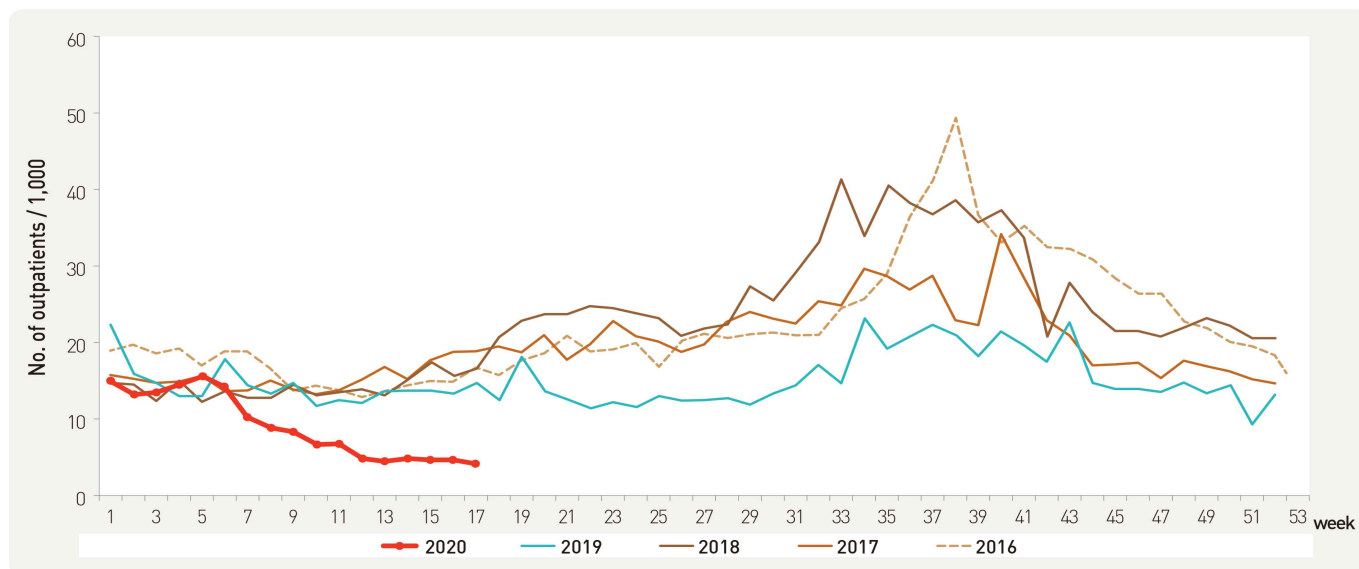


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2016-2020

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.5 case
- Variation: increase from 0.3 case in 16th week of 2020
- Sentinel reporting sites: 90 hospitals/clinics

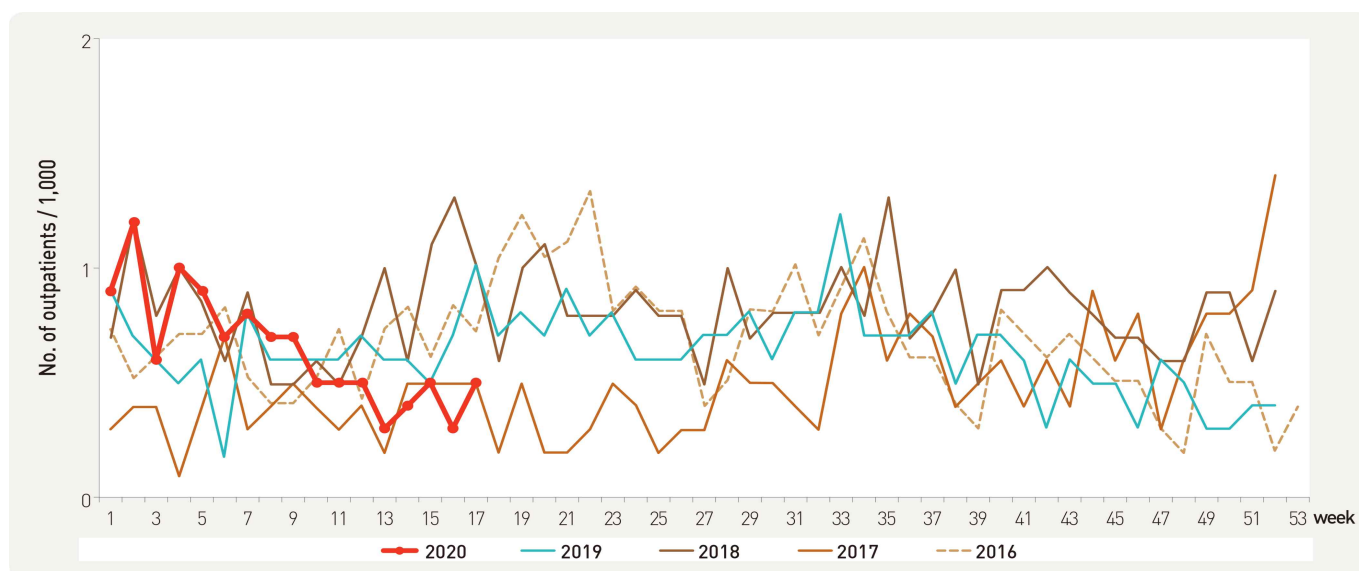


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2016-2020

4. Sexually Transmitted Diseases[†], weeks ending April 25, 2020 (17th Week)

- Cases per sentinel: 3.2 for human Papilloma virus infection, 2.7 for genital herpes, 2.3 for chlamydia, 1.6 for gonorrhea, 1.4 for condyloma acuminata, 1.3 for primary Syphilis, 0.0 for secondary Syphilis, 0.0 for congenital Syphilis
- Variation from 16th week of 2020
Increase: gonorrhea (1.2 → 1.6), chlamydia (1.8 → 2.3), human Papilloma virus infection (2.6 → 3.2), primary Syphilis (1.0 → 1.3)
No change: genital herpes (2.7 → 2.7), congenital Syphilis (0.0 → 0.0)
Decrease: condyloma acuminata (2.2 → 1.4), secondary Syphilis (2.0 → 0.0),
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 17th week: 18 for gonorrhea, 63 for chlamydia, 44 for genital herpes, 25 for condyloma acuminata, 34 for human Papilloma virus infection, 3 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 [§]
1.6	3.8	6.9	2.3	11.3	12.5	2.7	16.4	11.7	1.4	9.5	14.4

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 [§]
3.2	23.5	0.0	1.3	1.6	0.0	0.0	1.8	0.0	0.0	1.0	0.0

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 April 25, 2020 (17th Week)

- No. of reported outbreaks: 4 with 99 patient (cumulative no. of outbreaks: 65 with 601 patients)
- Variation: increase from 3 in 16th week of 2020
- Reporting sites: 254 health centers

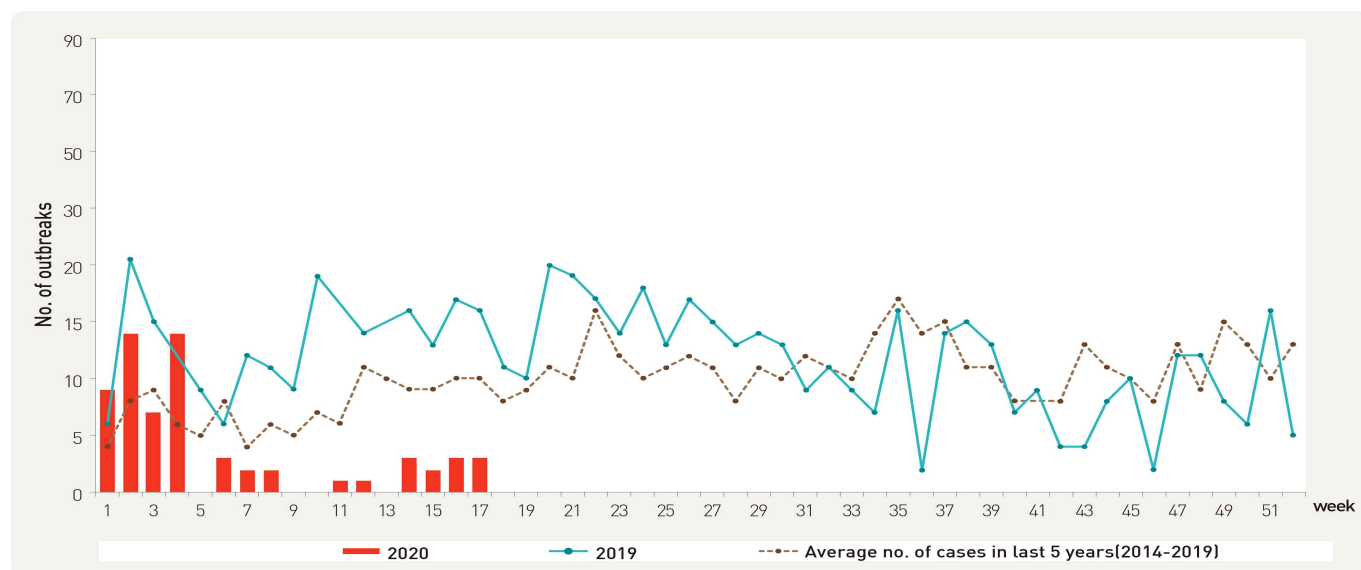


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2019-2020

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

1. Influenza viruses, weeks ending April 25, 2020 (17th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 69 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 cases (0.0%) / 63 specimens in 16th week of 2020
- Sentinel reporting sites: 52 hospitals/clinics

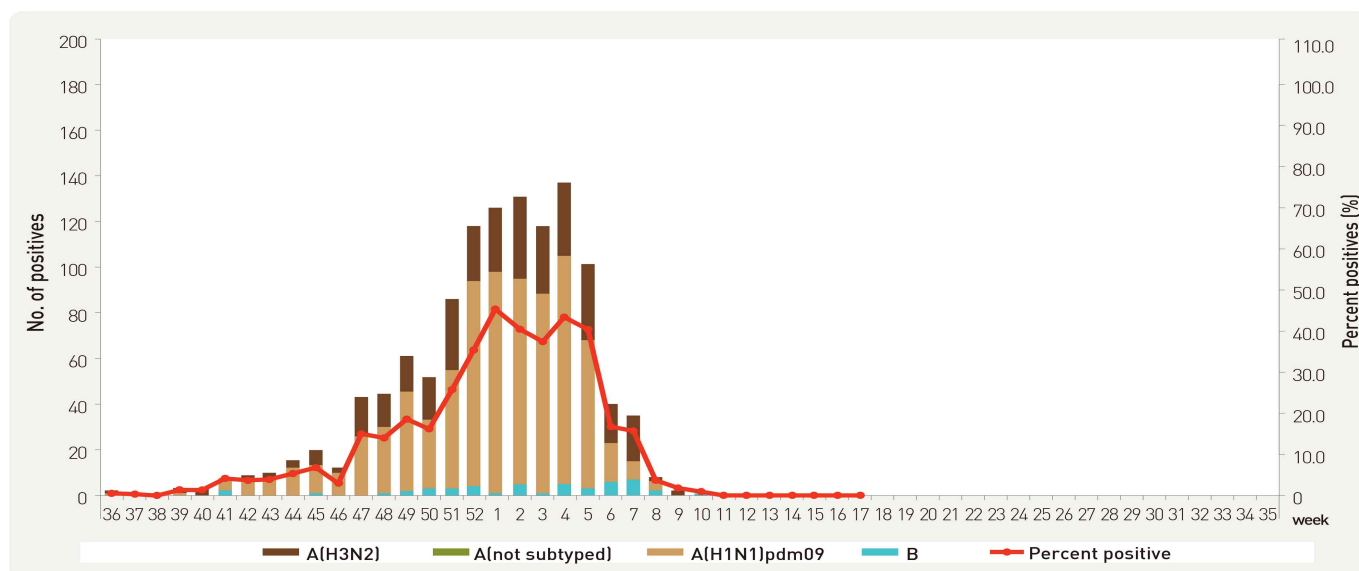


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending April 25, 2020 (17th Week)

- Detection rate: 21.7% (cumulative mean proportion during preceding three weeks plus current week: 17.0% out of 300 specimens)
- Variation (%p): increase from 14.3% in 16th 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
14	80	18.8	12.5	0.0	0.0	0.0	0.0	1.3	5.0	0.0
15	88	13.6	3.4	0.0	0.0	0.0	0.0	6.8	3.4	0.0
16	63	14.3	3.4	0.0	0.0	0.0	1.6	4.8	0.0	0.0
17	69	21.7	8.7	0.0	0.0	0.0	0	11.6	1.5	0.0
Cum.*	300	17.0	8.0	0.0	0.0	0.0	0.3	6.0	2.7	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 March 29, 2020 – April 25, 2020 (Average no. of detected cases is 75 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 April 18, 2020 (16th Week)

- Detection rate: 17.4% [cumulative mean proportion in 2020: 206 cases (33.8%) out of 610 specimens]
- Variation (%p): increase from 6.7% in 15th 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 13	20	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
14	37	3	(8.1)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(8.1)
15	30	2	(6.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(6.7)
16	23	4	(17.4)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(17.4)
Cum. 2020	610	151	(24.8)	28	(4.6)	10	(1.6)	14	(2.3)	3	(0.5)	206	(33.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending April 18, 2020 (16th Week)

- Detection rate: 15.0% [cumulative mean proportion in 2020: 244 cases (10.6%) out of 2,305 specimens]
- Variation (%p): increase from 11.7% in 15th 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	13	129	1 (0.8)	3 (2.3)	1 (0.8)	0 (0)	0 (0)	4 (3.1)	2 (1.6)	0 (0)	2 (1.6)	13 (10.1)
	14	155	1 (0.6)	0 (0)	0 (0)	0 (0)	0 (0)	2 (1.3)	5 (3.2)	1 (0.6)	5 (3.2)	14 (9.0)
	15	137	1 (0.7)	3 (2.2)	0 (0)	0 (0)	0 (0)	1 (0.7)	4 (2.9)	3 (2.2)	4 (2.9)	16 (11.7)
	16	107	0 (0)	3 (2.8)	0 (0)	0 (0)	0 (0)	3 (2.8)	4 (3.7)	2 (1.9)	3 (2.8)	16 (15.0)
Cum. 2020		2,305	29 (1.3)	42 (1.8)	2 (0.1)	0 (0)	0 (0)	29 (1.3)	62 (2.7)	43 (1.9)	29 (1.3)	244 (10.6)

* 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 April 18, 2020 (16th Week)

- Detection rate: 0.0% (0 case / 10 specimens) [cumulative mean proportion in 2020: 4.9% (9 cases / 183 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2020: 2 cases)
 - HFMD and herpangina: 0 case (Cum. 2020: 3 cases)
 - HFMD with complications: 0 case (Cum. 2020: 0 case)
 - Other: 0 case (Cum. 2020: 4 cases)
- Variation (%p): no change from 0.0% in 15th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

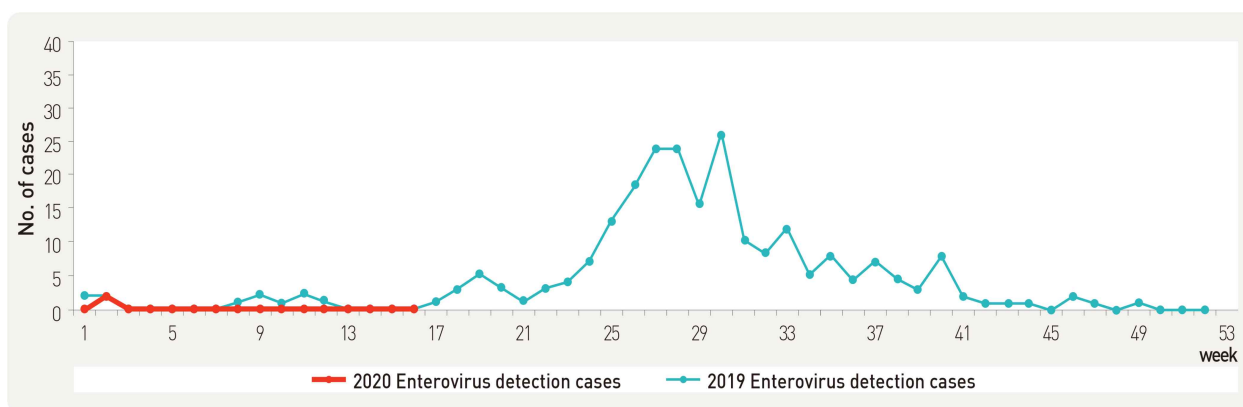


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020

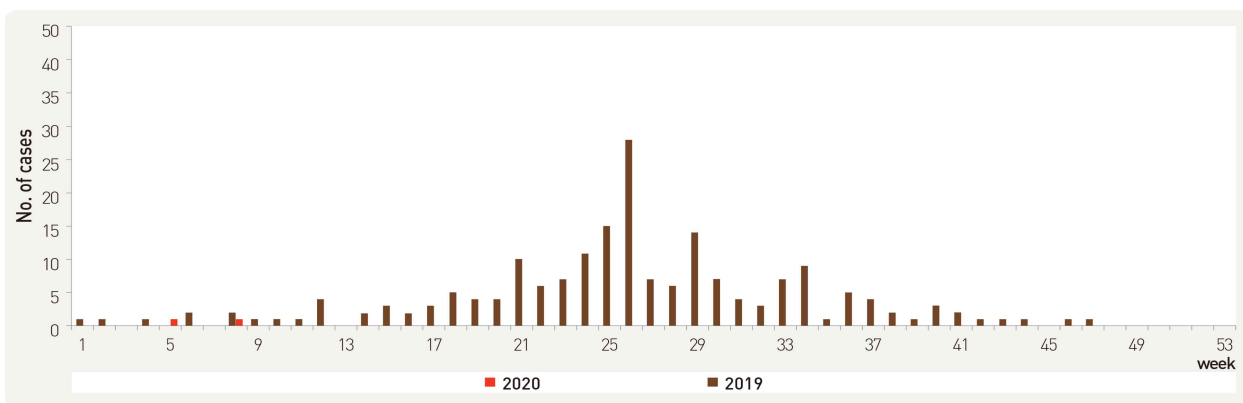


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020

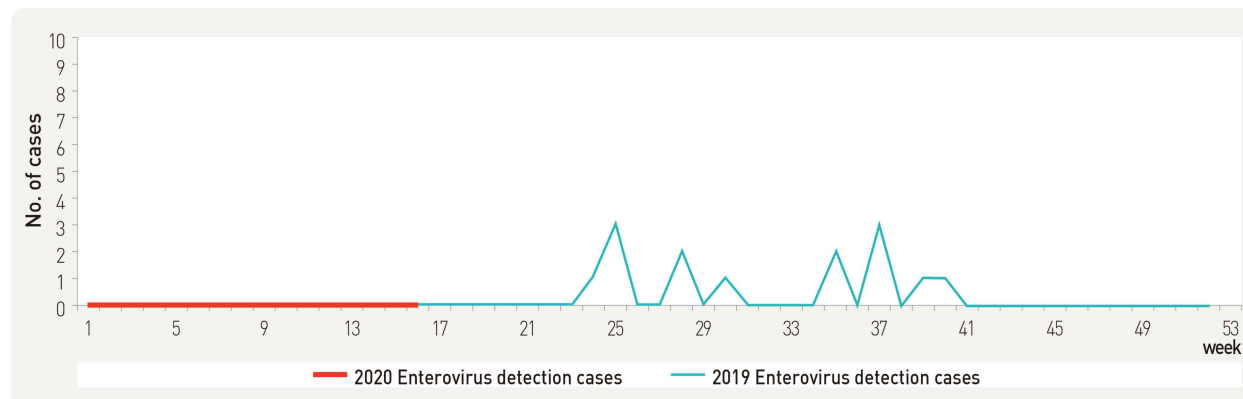


Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending April 18, 2020 (16th Week)

- No. of malaria vector mosquitoes: 0
- Variation: no change from 0 in 15th week of 2020
- Sentinel reporting sites: 3 city/province (32 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

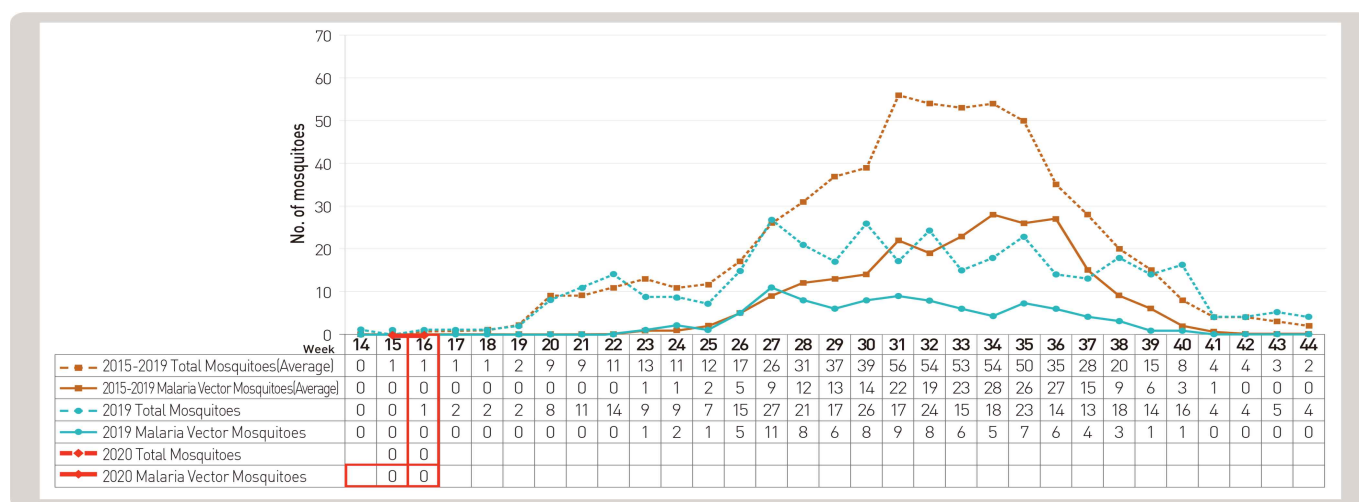


Figure 10. Weekly incidences of malaria vector mosquitoes in 2020

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending April 25, 2020 (17th Week)

- No. of Japanese encephalitis vector mosquitoes: 1
 - ※ JEV: Japanese encephalitis vector
- Variation: increase from 0 in 16th week of 2020
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)
 - ※ No. of mosquitoes: average number of mosquitoes/trap/day

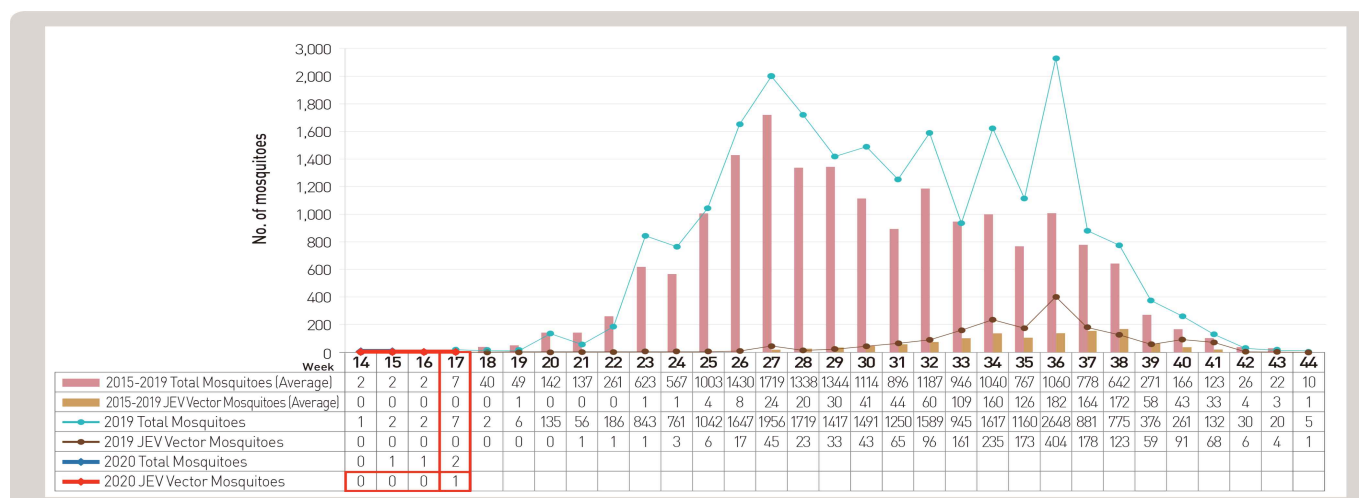


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2020

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 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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