Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending April 18, 2020 (16th 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	367	6,487	565	23,821	26,433	28,161	30,892	32,181	
Varicella	341	16,088	1,337	82,864	96,467	80,092	54,060	46,330	
Measles	4	20	3	194	15	7	18	7	
Cholera	0	0	0	1	2	5	4	0	
Typhoid fever	3	22	3	96	213	128	121	121	
Paratyphoid fever	4	16	1	55	47	73	56	44	
Shigellosis	0	21	1	149	191	112	113	88	
EHEC	0	15	2	141	121	138	104	71	
Viral hepatitis A	45	998	154	17,596	2,437	4,419	4,679	1,804	
Pertussis	1	102	4	496	980	318	129	205	
Mumps	193	3,159	437	15,966	19,237	16,924	17,057	23,448	
Rubella	2	10	0	8	0	7	11	11	
Meningococcal disease	0	4	0	16	14	17	6	6	
Pneumococcal disease	5	181	12	526	670	523	441	228	
Hansen's disease	0	2	0	3					
Scarlet fever	42	1,441	343	7,562	15,777	22,838	11,911	7,002	
VRSA	0	0	-	3	0	0	-	-	
CRE	130	4,138	-	15,265	11,954	5,717	-	-	
Category III									
Tetanus	1	7	1	31	31	34	24	22	
Viral hepatitis B	5	114	7	388	392	391	359	155	
Japanese encephalitis	0	0	0	34	17	9	28	40	
Viral hepatitis C	148	3,438	136	9,811	10,811	6,396	-	-	
Malaria	3	25	5	559	576	515	673	699	Tanzania(1)
Legionellosis	5	106	3	482	305	198	128	45	
Vibrio vulnificus sepsis	0	1	0	41	47	46	56	37	
Murine typhus	0	5	0	14	16	18	18	15	
Scrub typhus	8	147	22	4,005	6,668	10,528	11,105	9,513	
Leptospirosis	2	19	1	139	118	103	117	104	
Brucellosis	0	11	0	1	5	6	4	5	
HFRS	1	41	4	399	433	531	575	384	
HIV/AIDS	16	224	17	996	989	1,008	1,060	1,018	
CJD	1	24	1	52	53	36	42	33	
Dengue fever	0	41	3	274	159	171	313	255	
Q fever	1	35	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	0	0	1	223	259	272	165	79	
Zika virus infection	0	0	-	3	3	11	16	-	

Abbreviation: EHEC= Enterohemorrhagic E*scherichia 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 influenza* type b, Epidemic typhus, Rabies, Yellow fever, West Nile fever and Tick-borne Encephalitis.

2. Reported cases by geography, week ending April 18, 2020 (16th 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	367	6,487	8,715	341	16,088	17,278	4	20	40	0	0	0
Seoul	64	1,121	1,584	50	1,834	1,912	0	4	5	0	0	0
Busan	24	429	610	14	823	1,055	0	0	2	0	0	0
Daegu	5	298	413	8	812	897	1	2	3	0	0	0
Incheon	17	349	457	22	763	900	0	0	2	0	0	0
Gwangju	10	161	225	24	780	601	0	0	0	0	0	0
Daejeon	14	147	194	6	525	455	0	1	4	0	0	0
Ulsan	6	138	172	7	244	529	0	0	1	0	0	0
Sejong	2	21	30	4	116	4,808	0	0	15	0	0	0
Gyonggi	66	1,398	1,860	112	4,240	488	2	8	1	0	0	0
Gangwon	22	295	382	5	510	375	0	1	0	0	0	0
Chungbuk	13	187	268	6	624	667	0	0	1	0	0	0
Chungnam	17	328	409	8	544	725	0	0	1	0	0	0
Jeonbuk	20	274	340	20	654	772	0	0	1	0	0	0
Jeonnam	17	337	450	6	540	912	0	1	2	0	0	0
Gyeongbuk	43	487	642	12	907	1,561	0	1	1	0	0	0
Gyeongnam	20	428	567	27	1,784	476	1	2	1	0	0	0
Jeju	7	89	114	10	388	145	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 18, 2020 (16th Week)*

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	3	22	52	4	16	10	0	21	39	0	15	11
Seoul	1	5	11	1	1	3	0	1	9	0	3	2
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	2	0	0	8	0	0	2
Gyonggi	1	7	2	0	2	0	0	7	1	0	3	1
Gangwon	0	0	2	0	1	0	0	0	1	0	0	0
Chungbuk	0	0	2	0	0	0	0	0	1	0	0	0
Chungnam	1	2	0	1	1	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	0	2	0
Gyeongbuk	0	0	3	0	1	1	0	1	1	0	0	1
Gyeongnam	0	2	0	1	1	0	0	2	0	0	2	1
Jeju	0	0	1	1	1	0	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 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 April 18, 2020 (16th Week)[*]

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	45	998	1,493	1	102	80	193	3,159	4,469	2	10	2
Seoul	9	182	263	0	11	15	20	390	417	0	0	1
Busan	0	22	59	0	6	4	7	165	304	0	1	0
Daegu	0	21	27	0	5	3	4	117	140	0	0	0
Incheon	6	127	107	0	5	7	17	195	171	0	2	0
Gwangju	1	16	30	0	8	4	9	107	284	0	0	0
Daejeon	3	32	146	0	7	1	4	91	100	0	0	0
Ulsan	2	15	12	0	2	2	9	95	159	0	0	0
Sejong	0	9	432	0	0	11	0	16	1,116	0	0	1
Gyonggi	13	325	30	0	17	1	59	934	150	1	5	0
Gangwon	0	19	60	0	0	2	7	106	101	0	0	0
Chungbuk	1	41	114	0	0	2	7	99	173	0	0	0
Chungnam	5	63	58	0	4	3	9	152	372	0	1	0
Jeonbuk	3	50	45	0	1	4	12	141	240	0	0	0
Jeonnam	0	19	33	0	18	8	6	116	208	1	1	0
Gyeongbuk	2	33	47	0	8	9	3	135	465	0	0	0
Gyeongnam	0	19	9	1	9	1	20	255	52	0	0	0
Jeju	0	5	21	0	1	3	0	45	17	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 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.

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	42	1,441	3,809	1	7	2	5	114	85
Seoul	0	0	1	5	220	511	0	0	0	2	23	14
Busan	0	1	0	0	89	299	0	0	0	0	4	7
Daegu	0	0	0	0	37	125	0	0	0	0	2	3
Incheon	0	0	0	2	78	175	0	0	0	0	8	5
Gwangju	0	0	0	7	98	191	0	0	0	0	4	1
Daejeon	0	0	0	1	66	134	0	0	0	0	6	3
Ulsan	0	0	0	1	60	180	0	0	0	0	1	2
Sejong	0	0	1	1	8	1,064	0	0	0	0	2	23
Gyonggi	0	2	1	10	399	47	0	0	0	1	27	3
Gangwon	0	0	0	3	26	69	0	0	0	0	4	3
Chungbuk	0	0	0	3	19	180	0	2	0	0	0	4
Chungnam	0	0	0	1	45	134	0	3	0	0	1	3
Jeonbuk	0	0	0	1	36	156	1	1	1	1	5	3
Jeonnam	0	0	0	3	64	191	0	0	0	1	7	4
Gyeongbuk	0	1	1	0	53	296	0	1	1	0	5	6
Gyeongnam	0	0	0	3	113	41	0	0	0	0	14	1
Jeju	0	0	0	1	30	16	0	0	0	0	1	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 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 April 18, 2020 (16th Week)*

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	0	0	3	25	20	5	106	54	0	1	0
Seoul	0	0	0	1	7	6	0	30	16	0	0	0
Busan	0	0	0	0	1	0	1	6	3	0	0	0
Daegu	0	0	0	0	1	0	0	4	2	0	0	0
Incheon	0	0	0	1	1	2	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	10	0	0	12	0	0	0
Gyonggi	0	0	0	1	9	1	0	24	2	0	1	0
Gangwon	0	0	0	0	1	0	1	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	1	3	1	0	0	0
Jeonbuk	0	0	0	0	0	0	1	3	1	0	0	0
Jeonnam	0	0	0	0	0	0	0	6	5	0	0	0
Gyeongbuk	0	0	0	0	2	0	0	2	2	0	0	0
Gyeongnam	0	0	0	0	0	0	1	5	0	0	0	0
Jeju	0	0	0	0	0	0	0	8	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 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 April 18, 2020 (16th Week)*

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	0	5	0	8	147	185	2	19	11	0	11	0
Seoul	0	0	0	0	3	10	0	0	1	0	3	0
Busan	0	0	0	0	11	8	0	2	1	0	0	0
Daegu	0	0	0	0	1	1	0	2	0	0	0	0
Incheon	0	3	0	0	1	5	0	0	0	0	0	0
Gwangju	0	0	0	0	0	3	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	15	0	0	3	0	1	0
Gyonggi	0	1	0	0	8	5	0	1	0	0	0	0
Gangwon	0	0	0	0	3	4	0	1	0	0	0	0
Chungbuk	0	1	0	0	4	15	0	2	1	0	3	0
Chungnam	0	0	0	2	11	12	1	3	1	0	0	0
Jeonbuk	0	0	0	2	25	42	0	1	1	0	2	0
Jeonnam	0	0	0	3	39	12	1	2	1	0	1	0
Gyeongbuk	0	0	0	0	3	37	0	3	1	0	1	0
Gyeongnam	0	0	0	1	23	5	0	2	0	0	0	0
Jeju	0	0	0	0	7	1	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 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 April 18, 2020 (16th 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	1	41	57	1	24	13	0	41	52	1	35	31
Seoul	0	1	3	0	5	3	0	13	16	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	1	2	0	0	0	0	0	0	1
Daejeon	0	1	0	0	1	0	0	0	1	0	4	0
Ulsan	0	0	0	0	1	0	0	1	1	0	0	1
Sejong	0	0	20	0	0	4	0	0	14	0	1	5
Gyonggi	0	10	3	0	6	1	0	13	2	0	5	0
Gangwon	0	6	2	0	0	0	0	0	1	0	0	5
Chungbuk	0	0	6	0	1	0	0	0	2	0	10	3
Chungnam	0	3	4	0	1	1	0	2	0	0	1	3
Jeonbuk	1	4	6	0	1	0	0	0	2	0	3	2
Jeonnam	0	6	7	0	0	1	0	1	1	0	6	2
Gyeongbuk	0	3	3	0	1	1	0	1	3	1	2	2
Gyeongnam	0	2	0	0	0	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

* 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.

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

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	0	0	0	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	-
Gyonggi	0	0	0	0	0	0	0	0	-
Gangwon	0	1	0	0	0	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	0	0	0	-
Jeju	0	0	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 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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending April 18, 2020 (16th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 2.3 cases (=0.23%)
- Variation: decrease from 2.7 cases in 15th week of 2020
- Sentinel reporting sites: 200 hospitals/clinics
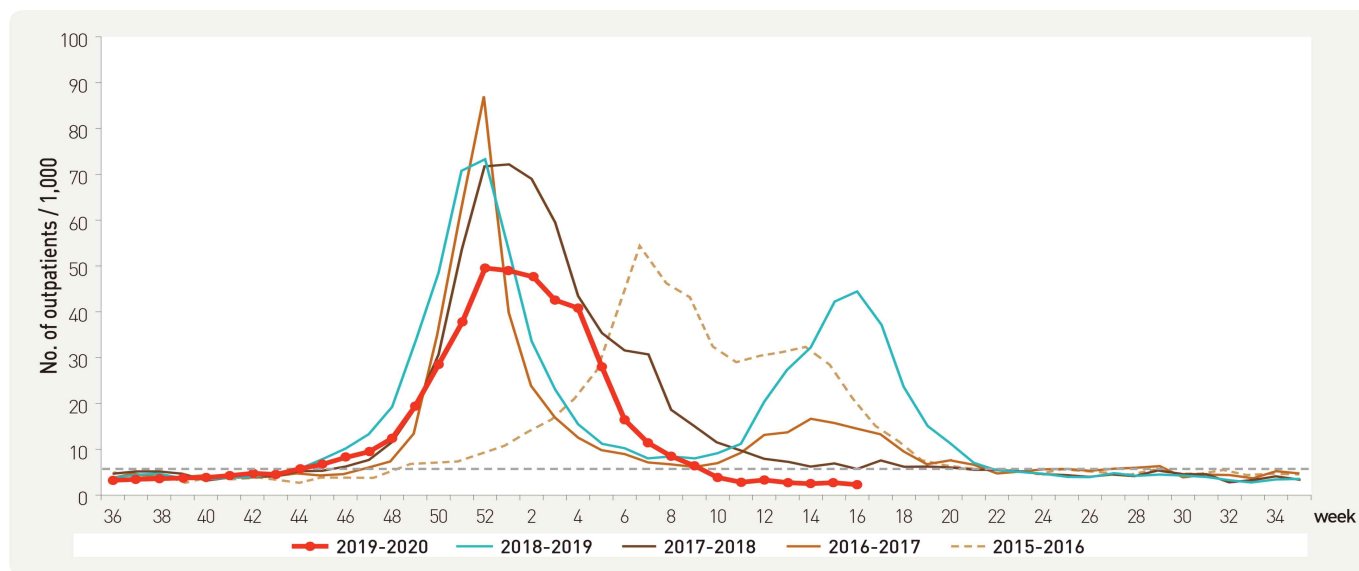 ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

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 18, 2020 (16th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.7 case
- Variation: decrease from 0.9 case in 15th week of 2020
- Sentinel reporting sites: 97 hospitals/clinics
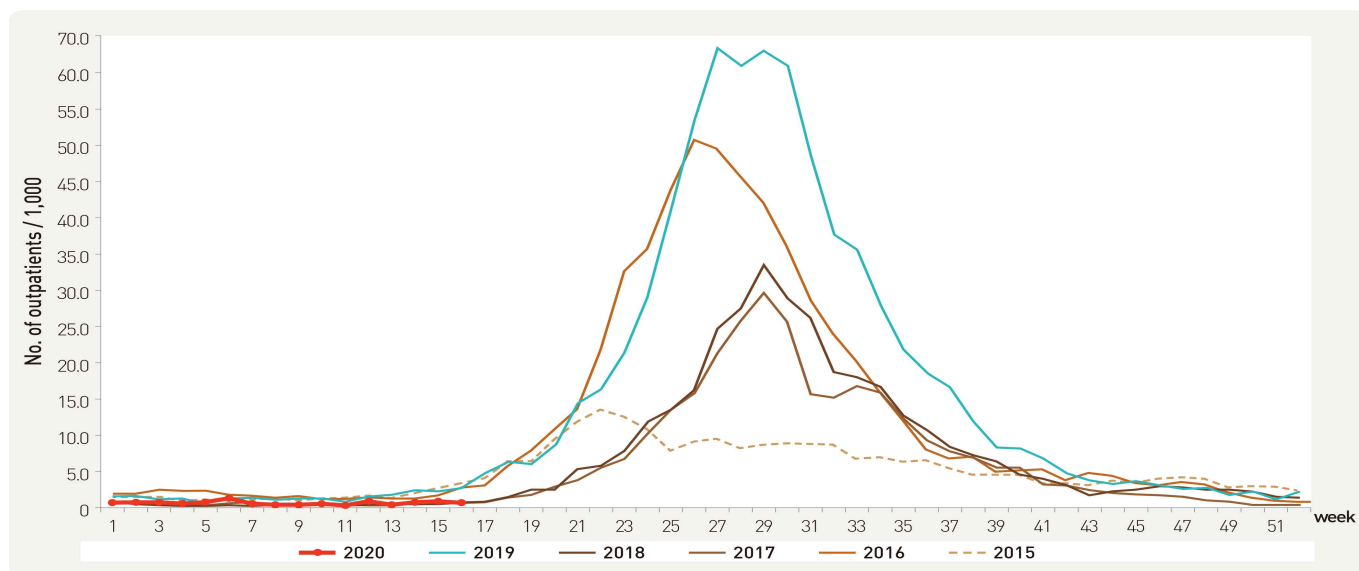
Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2015-2020

3. Ophthalmologic infectious diseases, weeks ending April 18, 2020 (16th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 4.5 cases
- Variation: no change from 4.5 cases in 15th week of 2020
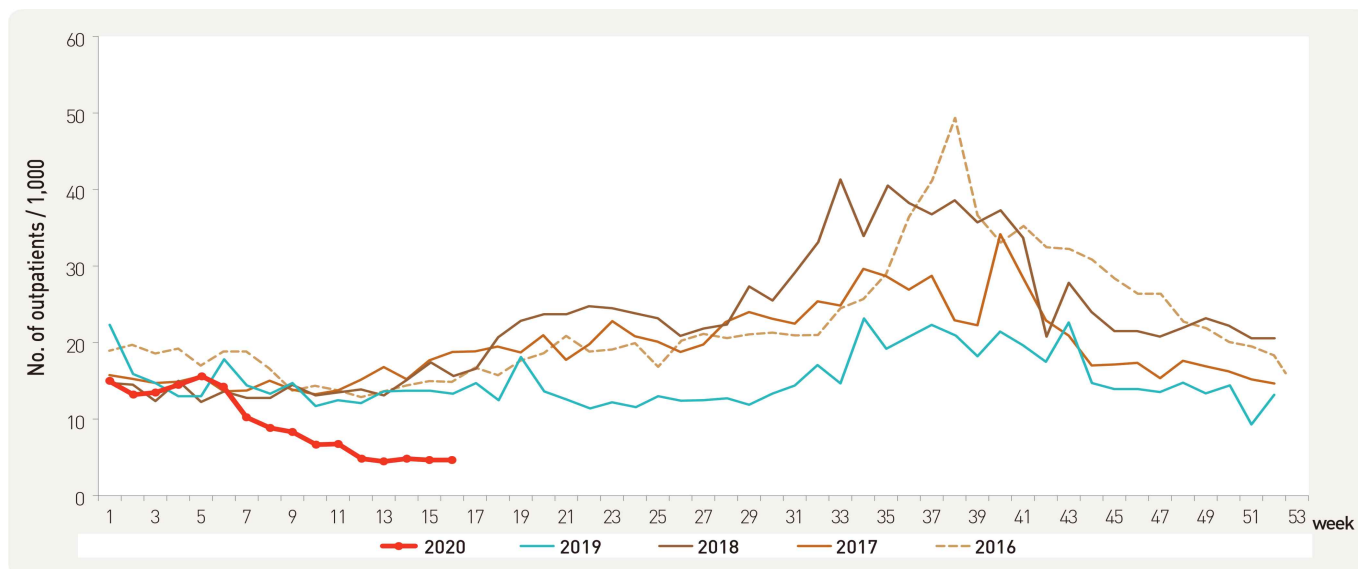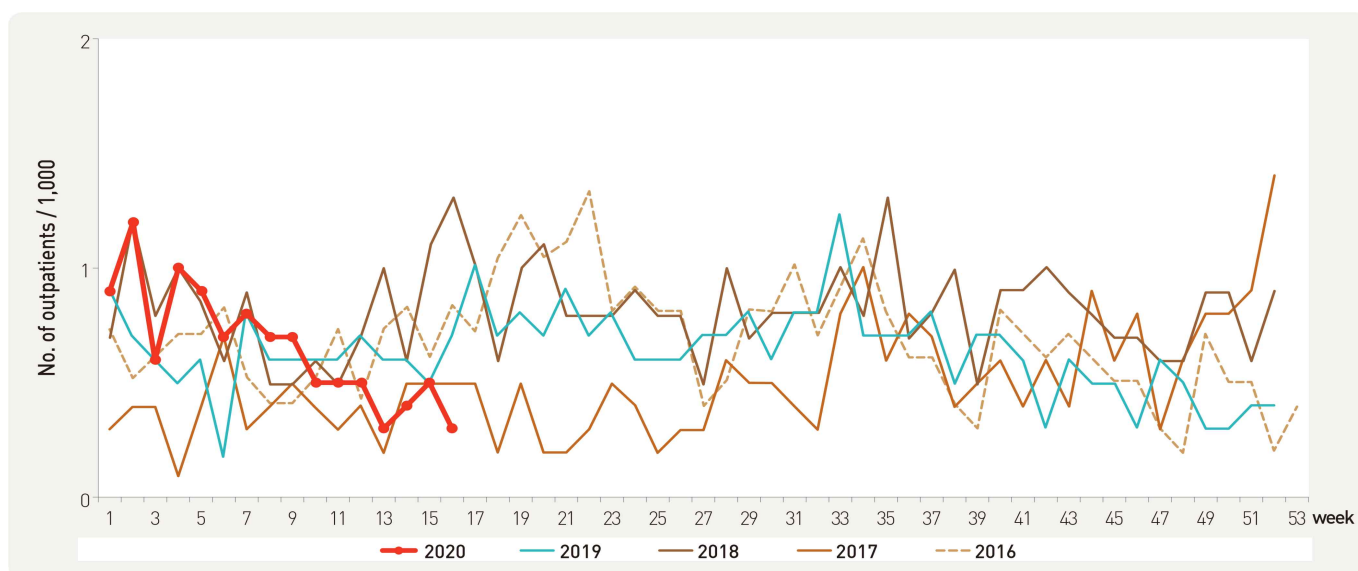- Sentinel reporting sites: 90 hospitals/clinics

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

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.3 case
- Variation: decrease from 0.5 case in 15th 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 18, 2020 (16th Week)

- Cases per sentinel: 2.7 for genital herpes, 2.6 for human Papilloma virus infection, 2.2 for condyloma acuminata, 2.0 for secondary Syphilis, 1.8 for chlamydia, 1.2 for gonorrhea, 1.0 for primary Syphilis, 0.0 for congenital Syphilis
- Variation from 15th week of 2020

  Increase: gonorrhea (1.1 → 1.2), condyloma acuminata (1.5 → 2.2)

  No change: primary Syphilis (1.0 → 1.0), secondary Syphilis (2.0 → 2.0), congenital Syphilis (0.0 → 0.0)

  Decrease: chlamydia (2.1 → 1.8), genital herpes (3.0 → 2.7), human Papilloma virus infection (4.5 → 2.6)
- Sentinel reporting sites: 592 hospitals/clinics

  ※ No. of reported sites in 16th week: 19 for gonorrhea, 54 for chlamydia, 48 for genital herpes, 25 for condyloma acuminata, 18 for human Papilloma virus infection, 2 for primary Syphilis, 4 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	2.2	6.9	1.8	5.2	12.5	2.7	18.6	11.7	2.2	28.8	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[§]
2.6	9.3	0.0	1.0	1.0	0.0	2.0	1.5	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 18, 2020 (16th Week)

- No. of reported outbreaks: 3 with 12 patient (cumulative no. of outbreaks: 61 with 502 patients)
- Variation: increase from 2 in 15th week of 2020
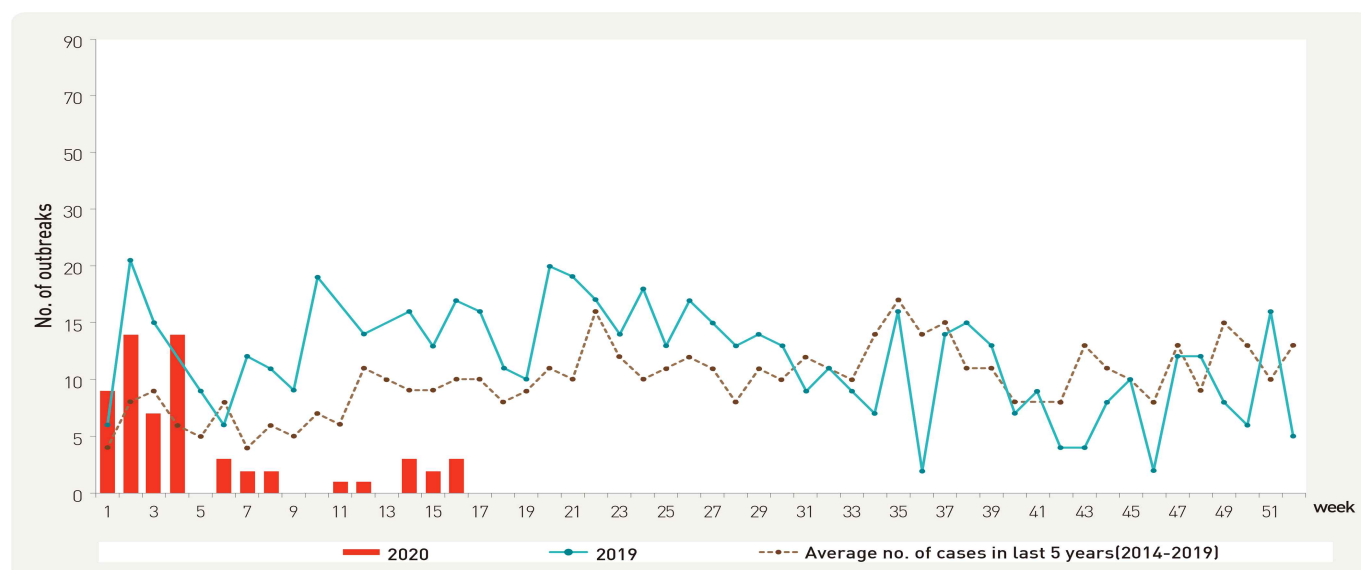- Reporting sites: 254 health centers

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 18, 2020 (16th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 63 specimens
  [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 cases (0.0%) / 88 specimens in 15th week of 2020
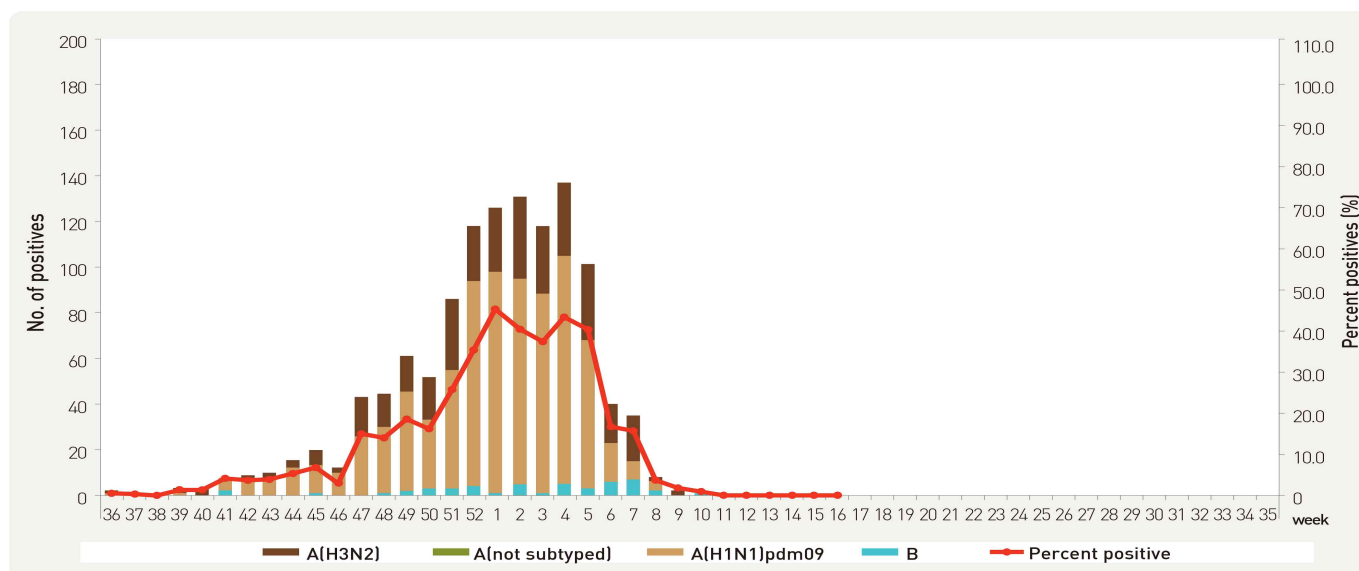- Sentinel reporting sites: 52 hospitals/clinics

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

2. Respiratory viruses, weeks ending April 18, 2020 (16th Week)

- Detection rate: 14.3% (cumulative mean proportion during preceding three weeks plus current week: 14.9% out of 302 specimens)
- Variation (%p): increase from 13.6% in 15th 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
13	71	12.7	7.0	0.0	1.4	0.0	0.0	4.2	0.0	0.0
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
Cum.※	302	14.9	7.6	0.0	0.3	0.0	0.3	4.3	2.3	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 22, 2020 – April 18, 2020 (Average no. of detected cases is 76 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 11, 2020 (15th Week)

- Detection rate: 8.3% [cumulative mean proportion in 2020: 201 cases (38.4%) out of 523 specimens]
- Variation (%p): increase from 5.7% in 14th 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	12	25	1	(4.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(4.0)
	13	20	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	14	35	2	(5.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(5.7)
	15	24	2	(8.3)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(8.3)
Cum. 2020		523	146	(27.9)	28	(5.4)	10	(1.9)	14	(2.7)	3	(0.6)	201	(38.4)

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

2. Acute gastroenteritis-causing bacteria, weeks ending April 11, 2020 (15th Week)

- Detection rate: 12.1% [cumulative mean proportion in 2020: 219 cases (10.2%) out of 2,137 specimens]
- Variation (%p): increase from 9.0% in 14th 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.parahae molyticus*	*V. cholerae*	*Campylob acter* spp.	*C.perfring ens*	*S. aureus*	*B. cereus*	Total
2020	12	124	0 (0)	2 (1.6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0.8)	2 (1.6)	2 (1.6)	8 (6.5)
	13	114	1 (0.9)	2 (1.8)	1 (0.9)	0 (0)	0 (0)	1 (0.9)	2 (1.8)	0 (0)	2 (1.8)	9 (7.9)
	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	91	1 (1.1)	3 (3.3)	0 (0)	0 (0)	0 (0)	0 (0)	3 (3.3)	1 (1.1)	3 (3.3)	11 (12.1)
Cum. 2020		2,137	29 (1.4)	38 (1.8)	2 (0.1)	0 (0)	0 (0)	22 (1.0)	57 (2.7)	39 (1.8)	25 (1.2)	219 (10.2)

* 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 April 11, 2020 (15th Week)

- Detection rate: 0.0% (0 case / 11 specimens) [cumulative mean proportion in 2020: 5.2% (9 cases / 172 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 14th week of 2020
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics
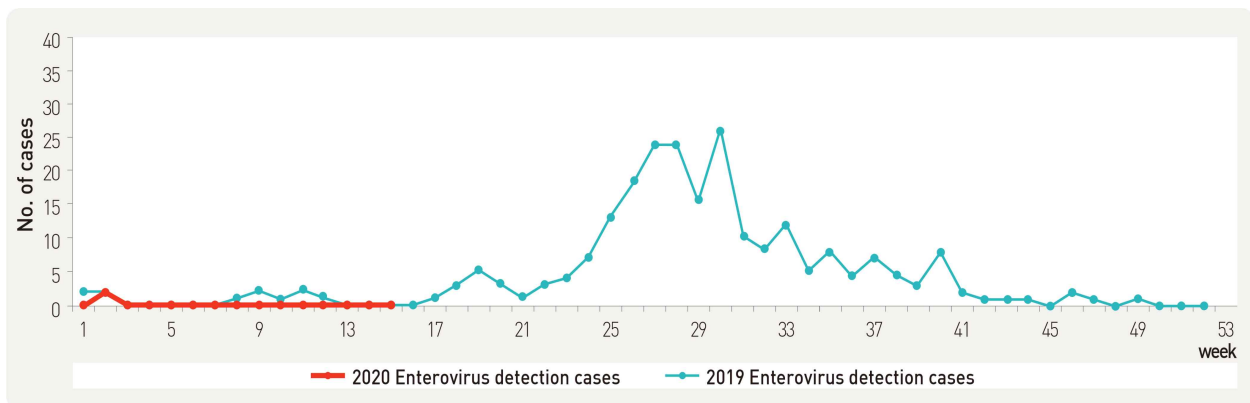

Figure 7. Detection of enterovirus in aseptic meningitis patients from 2019 to 2020
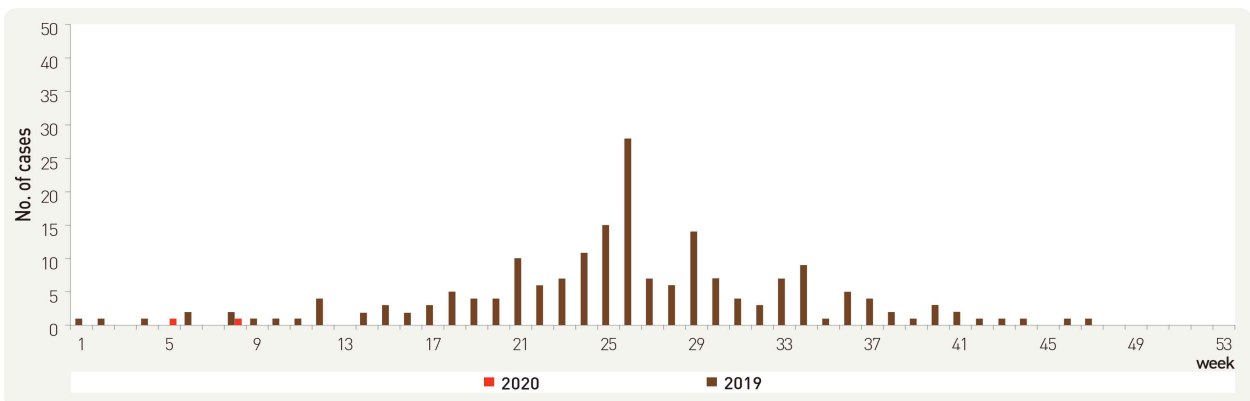

Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2019 to 2020
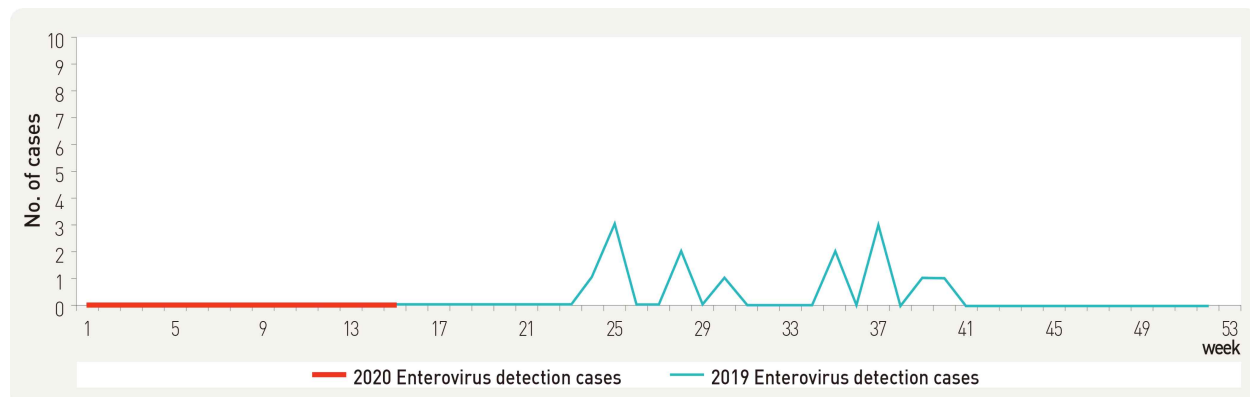

Figure 9. Detection of enterovirus in HFMD with complications patients from 2019 to 2020

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending April 11, 2020 (15th Week)

- No. of malaria vector mosquitoes: 0
- Variation: no change from 0 in 15th week of 2019
- Sentinel reporting sites: 3 city/province (32 sites)
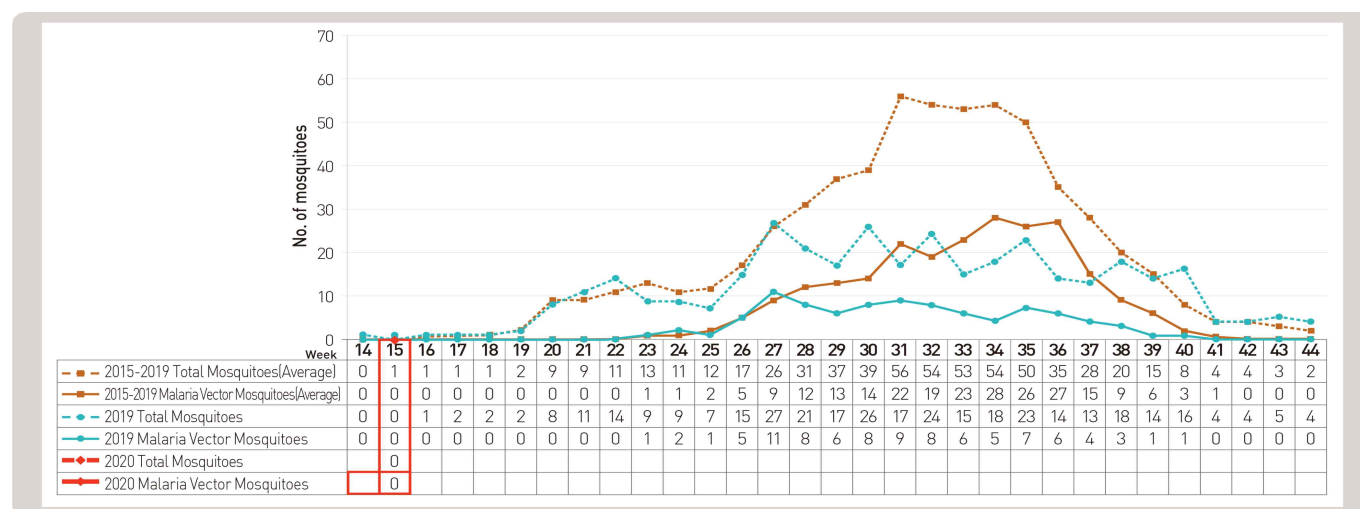 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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	1	1	2	5	9	12	13	14	22	19	23	28	26	27	15	9	6	3	1	0	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																													
2020 Malaria Vector Mosquitoes		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 April 18, 2020 (16th Week)

- No. of Japanese encephalitis vector mosquitoes: 0
  ※ JEV: Japanese encephalitis vector
- Variation: no change from 0 in 15th week of 2020
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)
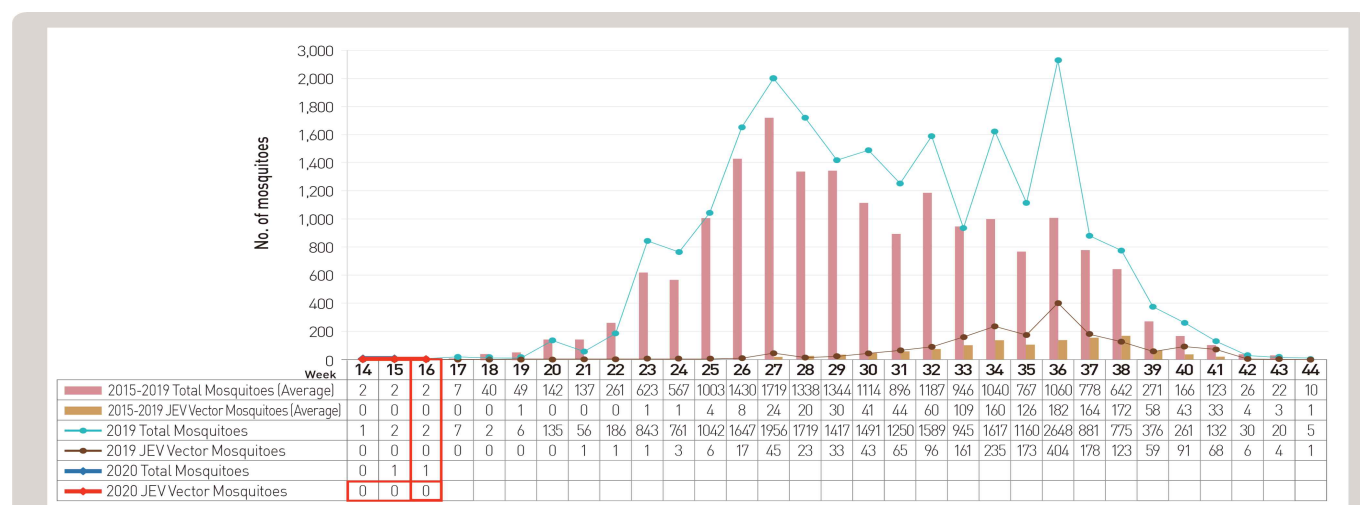 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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	1	0	1	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																												
2020 JEV Vector Mosquitoes	0	0	0																												

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 + ... + 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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