Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending August 10, 2019 (32nd Week)[*]

Unit: no. of cases[†]

Classification of disease[‡]	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category I									
Cholera	0	0	0	2	5	4	0	0	
Typhoid fever	6	91	3	213	128	121	121	251	
Paratyphoid fever	7	56	2	47	73	56	44	37	
Shigellosis	3	88	3	191	112	113	88	110	
EHEC	12	107	4	121	138	104	71	111	
Viral hepatitis A	622	11,897	41	2,437	4,419	4,679	1,804	1,307	
Category II									
Pertussis	9	299	12	980	318	129	205	88	
Tetanus	0	27	1	31	34	24	22	23	
Measles	12	352	0	15	7	18	7	442	
Mumps	276	10,996	311	19,237	16,924	17,057	23,448	25,286	
Rubella	4	15	0	0	7	11	11	11	
Viral hepatitis B (Acute)	9	233	5	392	391	359	155	173	
Japanese encephalitis	0	0	0	17	9	28	40	26	
Varicella	1,304	53,995	776	96,467	80,092	54,060	46,330	44,450	
Haemophilus influenza type b	0	0	0	2	3	0	0	0	
Streptococcus pneumoniae	6	336	3	670	523	441	228	36	
Category III									
Malaria	29	373	29	576	515	673	699	638	Sierra Leone(1)
Scarlet fever[§]	95	5,221	143	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	12	0	14	17	6	6	5	
Legionellosis	19	247	3	305	198	128	45	30	
Vibrio vulnificus sepsis	2	6	2	47	46	56	37	61	
Murine typhus	1	7	0	16	18	18	15	9	
Scrub typhus	31	616	23	6,668	10,528	11,105	9,513	8,130	Uganda(1)
Leptospirosis	7	56	2	118	103	117	104	58	
Brucellosis	0	3	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	6	164	6	433	531	575	384	344	
Syphilis	35	1,131	34	2,280	2,148	1,569	1,006	1,015	Nepal(1)
CJD/vCJD	1	34	1	53	36	42	33	65	
Tuberculosis	551	15,699	600	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	31	578	22	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	176	6,205	-	10,811	6,396	-	-	-	
VRSA	0	1	-	0	0	-	-	-	
CRE	376	8,545	-	11,954	5,717	-	-	-	

1. *(Continued)* Reported cases, week ending August 10, 2019 (32nd Week)[*]

Classification of disease[‡]	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category IV									
Dengue fever	11	125	7	159	171	313	255	165	Malaysia(2), Maldives(2), Vietnam(2), Laos(1), Myanmar(1), India(1), Cambodia(1), Unknown(1)
Q fever	4	170	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	16	71	1	23	31	27	9	13	
Melioidosis	0	3	0	2	2	4	4	2	
Chikungunya fever	1	9	0	3	5	10	2	1	Myanmar(1)
SFTS	7	103	6	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	2	6	-	3	11	16	-	-	Vietnam(1), Thailand(1)

Abbreviation: EHEC= Enterohemorrhagic E*scherichia coli;* HFRS= Hemorrhagic fever with renal syndrome,
CJD/vCJD= Creutzfeldt-Jacob Disease / variant Creutzfeldt-Jacob Disease, VRSA = Vancomycin-resistant *Staphylococcus aureus,* CRE = Carbapenem-resistant Enterobacteriaceae, SFTS = Severe fever with thrombocytopenia syndrome,
MERS-CoV= Middle East Respiratory Syndrome Coronavirus.
Cum: Cumulative counts from 1st week to current week in a year.
* The reported data for year 2019 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.
‡ The reported surveillance data excluded Hansen's disease and no incidence data such as Diphtheria, Poliomyelitis, Epidemic typhus, Anthrax, Plague, Yellow fever, Viral hemorrhagic fever, Smallpox, Severe Acute Respiratory Syndrome, Animal influenza infection in humans, Novel Influenza, Tularemia, Newly emerging infectious disease syndrome and Tick-borne Encephalitis.
§ Data on scarlet fever included both cases of confirmed and suspected since September 27, 2012.

2. Reported cases by geography, week ending August 10, 2019 (32nd Week)*

Unit: no. of cases[†]

| Reporting area | Diseases of Category I | | | | | | | | | | | |
| | Cholera | | | Typhoid fever | | | Paratyphoid fever | | | Shigellosis | | |
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	0	0	0	6	91	119	7	56	29	3	88	78
Seoul	0	0	0	1	18	21	1	6	5	1	34	15
Busan	0	0	0	2	9	8	3	9	3	0	3	5
Daegu	0	0	0	0	2	4	0	2	1	0	1	5
Incheon	0	0	0	0	6	7	0	1	2	0	5	12
Gwangju	0	0	0	1	1	4	0	3	1	0	3	2
Daejeon	0	0	0	0	5	6	1	4	1	0	0	1
Ulsan	0	0	0	0	3	2	0	1	0	0	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyonggi	0	0	0	2	26	22	1	11	6	0	24	14
Gangwon	0	0	0	0	0	2	0	3	1	0	1	2
Chungbuk	0	0	0	0	1	3	0	3	1	0	1	1
Chungnam	0	0	0	0	5	6	0	0	1	0	1	5
Jeonbuk	0	0	0	0	3	3	0	2	2	1	2	2
Jeonnam	0	0	0	0	1	5	1	2	2	0	7	3
Gyeongbuk	0	0	0	0	3	5	0	3	1	0	1	5
Gyeongnam	0	0	0	0	8	17	0	5	2	1	4	5
Jeju	0	0	0	0	0	3	0	1	0	0	0	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Reporting area	Diseases of Category I						Diseases of Category II					
	Enterohemorrhagic *Escherichia coli*			Viral hepatitis A			Pertussis			Tetanus		
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	12	107	70	622	11,897	2,042	9	299	180	0	27	15
Seoul	1	30	9	119	2,250	394	1	43	23	0	2	1
Busan	0	3	2	47	315	100	0	17	16	0	2	2
Daegu	1	2	8	11	115	47	0	12	4	0	3	1
Incheon	1	12	5	28	716	168	1	15	12	0	0	0
Gwangju	1	3	11	6	102	61	0	15	8	0	2	0
Daejeon	0	0	1	92	1,671	88	1	12	3	0	2	0
Ulsan	2	4	4	4	50	22	0	6	5	0	2	0
Sejong	0	2	0	29	273	12	0	6	2	0	0	0
Gyonggi	3	19	11	157	3,718	615	2	39	29	0	3	1
Gangwon	0	5	3	7	176	46	0	4	2	0	0	1
Chungbuk	0	3	2	32	764	56	0	6	5	0	1	0
Chungnam	1	2	2	47	970	133	0	6	4	0	2	1
Jeonbuk	0	1	1	24	312	95	0	8	3	0	1	1
Jeonnam	1	9	4	2	120	75	1	22	7	0	2	3
Gyeongbuk	1	7	2	2	155	47	2	28	13	0	3	2
Gyeongnam	0	2	2	12	147	70	1	52	42	0	2	2
Jeju	0	3	3	3	43	13	0	8	2	0	0	0

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Unit: no. of cases†

| Reporting area | Diseases of Category II | | | | | | | | | | | |
| | Measles | | | Mumps | | | Rubella | | | Viral hepatitis B (Acute) | | |
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	12	352	97	276	10,996	12,667	4	15	9	9	233	182
Seoul	2	47	23	33	1,412	1,245	1	2	2	0	33	31
Busan	1	18	4	13	635	925	0	0	1	1	27	12
Daegu	0	22	2	12	493	403	0	0	0	0	4	6
Incheon	1	13	11	11	528	544	1	2	0	0	10	11
Gwangju	0	1	1	19	359	870	0	0	0	0	4	4
Daejeon	1	50	4	13	351	285	1	1	1	0	11	7
Ulsan	0	2	1	5	363	407	0	0	0	0	2	5
Sejong	0	2	0	1	65	42	0	0	0	0	0	0
Gyonggi	5	121	31	62	3,108	3,021	1	3	3	3	54	43
Gangwon	0	7	1	6	329	399	0	0	0	1	9	6
Chungbuk	0	3	2	3	294	251	0	0	0	1	11	6
Chungnam	1	5	3	14	485	477	0	0	1	1	15	9
Jeonbuk	0	11	1	18	516	1,073	0	0	0	0	10	12
Jeonnam	1	13	8	19	418	664	0	1	0	0	11	9
Gyeongbuk	0	26	5	15	562	562	0	4	1	2	18	9
Gyeongnam	0	8	0	27	889	1,331	0	1	0	0	11	11
Jeju	0	3	0	5	189	168	0	1	0	0	3	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category II						Diseases of Category III					
	Japanese encephalitis			Varicella			Malaria			Scarlet fever[¶]		
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	0	0	0	1,304	53,995	37,086	29	373	409	95	5,221	8,450
Seoul	0	0	0	158	6,075	3,885	7	66	54	16	867	1,065
Busan	0	0	0	74	2,686	2,324	0	8	5	3	315	639
Daegu	0	0	0	70	3,075	2,080	0	2	6	0	158	334
Incheon	0	0	0	40	2,617	1,912	8	57	61	2	260	378
Gwangju	0	0	0	45	1,950	1,102	0	4	3	9	292	371
Daejeon	0	0	0	39	1,265	1,037	1	5	2	7	210	300
Ulsan	0	0	0	55	1,505	1,156	0	1	3	4	220	365
Sejong	0	0	0	7	584	319	0	1	1	0	30	42
Gyonggi	0	0	0	352	15,450	10,529	10	191	235	32	1,490	2,459
Gangwon	0	0	0	30	927	1,156	1	13	13	6	86	137
Chungbuk	0	0	0	40	1,076	968	0	5	3	1	93	144
Chungnam	0	0	0	59	2,128	1,421	0	5	4	3	239	378
Jeonbuk	0	0	0	47	1,878	1,672	0	2	3	3	182	300
Jeonnam	0	0	0	55	1,940	1,576	0	0	3	1	170	324
Gyeongbuk	0	0	0	75	3,628	1,772	2	4	4	2	195	456
Gyeongnam	0	0	0	136	6,276	3,099	0	7	6	5	352	662
Jeju	0	0	0	22	935	1,078	0	2	3	1	62	96

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Meningococcal meningitis			Legionellosis			*Vibrio vulnificus* sepsis			Murine typhus		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	12	6	19	247	77	2	6	9	1	7	6
Seoul	0	2	2	2	65	21	0	3	1	0	2	1
Busan	0	0	1	0	14	5	0	0	0	0	0	0
Daegu	0	0	1	0	8	3	0	0	0	0	0	0
Incheon	0	1	0	3	16	6	0	0	1	1	3	1
Gwangju	0	0	0	1	8	0	0	0	0	0	0	1
Daejeon	0	0	0	0	3	1	0	0	0	0	0	0
Ulsan	0	0	0	0	1	2	0	0	0	0	0	0
Sejong	0	1	0	0	0	0	0	0	0	0	0	0
Gyonggi	0	4	1	6	65	15	0	0	1	0	1	1
Gangwon	0	2	0	0	6	4	0	0	0	0	0	0
Chungbuk	0	0	0	2	7	4	0	0	0	0	0	0
Chungnam	0	1	0	2	6	3	0	0	1	0	0	1
Jeonbuk	0	0	0	0	5	1	0	0	1	0	0	0
Jeonnam	0	0	0	1	13	1	2	2	3	0	0	1
Gyeongbuk	0	0	0	2	21	6	0	0	0	0	0	0
Gyeongnam	0	1	1	0	7	3	0	1	1	0	0	0
Jeju	0	0	0	0	2	2	0	0	0	0	1	0

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

* The reported data for year 2019 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 August 10, 2019 (32nd Week)[*]

<div align="right">Unit: no. of cases[†]</div>

Reporting area	Diseases of Category III											
	Scrub typhus			Leptospirosis			Brucellosis			Hemorrhagic fever with renal syndrome		
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	31	616	664	7	56	23	0	3	1	6	164	158
Seoul	2	26	29	0	6	1	0	2	1	0	4	8
Busan	1	19	26	0	2	1	0	0	0	0	6	4
Daegu	0	0	8	0	1	0	0	0	0	0	2	1
Incheon	1	10	13	0	2	0	0	0	0	0	2	2
Gwangju	0	7	17	1	3	1	0	0	0	1	2	2
Daejeon	0	12	16	0	2	1	0	0	0	1	1	3
Ulsan	0	16	14	0	1	0	0	0	0	0	1	1
Sejong	0	2	2	0	0	0	0	0	0	0	0	0
Gyonggi	1	33	67	1	10	5	0	1	0	1	30	46
Gangwon	0	4	20	1	5	1	0	0	0	0	7	9
Chungbuk	1	9	13	0	1	1	0	0	0	1	7	10
Chungnam	2	69	60	1	8	3	0	0	0	0	22	17
Jeonbuk	3	71	64	0	3	1	0	0	0	1	24	11
Jeonnam	13	183	158	2	5	3	0	0	0	0	31	21
Gyeongbuk	2	20	46	1	3	2	0	0	0	0	16	14
Gyeongnam	5	123	105	0	3	3	0	0	0	1	9	8
Jeju	0	12	6	0	1	0	0	0	0	0	0	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category III									Diseases of Category IV		
	Syphilis			CJD/vCJD			Tuberculosis			Dengue fever		
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	35	1,131	946	1	34	29	551	15,699	19,193	11	125	111
Seoul	8	234	197	0	6	6	99	2,774	3,595	6	35	36
Busan	1	114	59	0	3	2	45	1,084	1,376	0	5	7
Daegu	1	53	42	1	1	2	23	701	941	1	8	6
Incheon	4	87	84	0	1	1	29	856	995	1	10	5
Gwangju	1	25	33	0	1	0	9	388	476	0	2	1
Daejeon	1	39	27	0	1	1	19	332	439	0	1	3
Ulsan	1	15	14	0	1	0	11	319	406	1	7	1
Sejong	1	5	4	0	0	0	0	38	57	0	0	0
Gyonggi	7	292	257	0	5	6	133	3,438	4,045	1	34	31
Gangwon	0	25	23	0	3	1	16	676	835	0	5	2
Chungbuk	1	28	22	0	1	1	10	471	587	0	4	1
Chungnam	2	40	31	0	1	2	30	731	880	0	2	3
Jeonbuk	0	32	20	0	2	1	23	591	734	0	4	1
Jeonnam	0	18	26	0	2	1	31	857	977	0	2	3
Gyeongbuk	2	53	36	0	4	3	30	1,183	1,358	0	1	5
Gyeongnam	1	51	45	0	2	2	38	1,044	1,267	1	4	5
Jeju	4	20	26	0	0	0	5	216	224	0	1	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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 August 10, 2019 (32nd Week)*

Unit: no. of cases[†]

Reporting area	Diseases of Category IV											
	Q fever			Lyme Borreliosis			SFTS			Zika virus infection		
	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
Overall	4	170	45	16	71	9	7	103	73	2	6	-
Seoul	1	19	3	2	22	3	0	2	3	0	1	-
Busan	0	2	1	0	1	1	0	1	1	0	1	-
Daegu	0	2	1	0	0	0	1	3	1	0	0	-
Incheon	0	6	1	1	4	1	0	2	1	1	2	-
Gwangju	0	3	2	2	2	0	0	1	0	0	0	-
Daejeon	1	6	1	0	1	0	0	1	1	0	0	-
Ulsan	0	0	2	1	2	0	1	2	1	0	0	-
Sejong	0	0	0	0	0	0	0	0	0	0	0	-
Gyonggi	0	32	6	6	19	2	0	17	9	0	1	-
Gangwon	0	1	0	0	2	0	0	19	9	0	0	-
Chungbuk	0	22	11	0	2	0	0	0	2	0	0	-
Chungnam	0	14	6	3	7	0	1	13	8	0	0	-
Jeonbuk	0	17	1	0	0	1	0	12	3	0	0	-
Jeonnam	1	23	4	1	8	0	4	10	6	1	1	-
Gyeongbuk	1	12	2	0	1	1	0	10	12	0	0	-
Gyeongnam	0	10	4	0	0	0	0	8	9	0	0	-
Jeju	0	1	0	0	0	0	0	2	7	0	0	-

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2019 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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending August 10, 2019 (32nd Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.3 cases (=0.33%)
- Variation: decrease from 4.0 cases in 31st week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
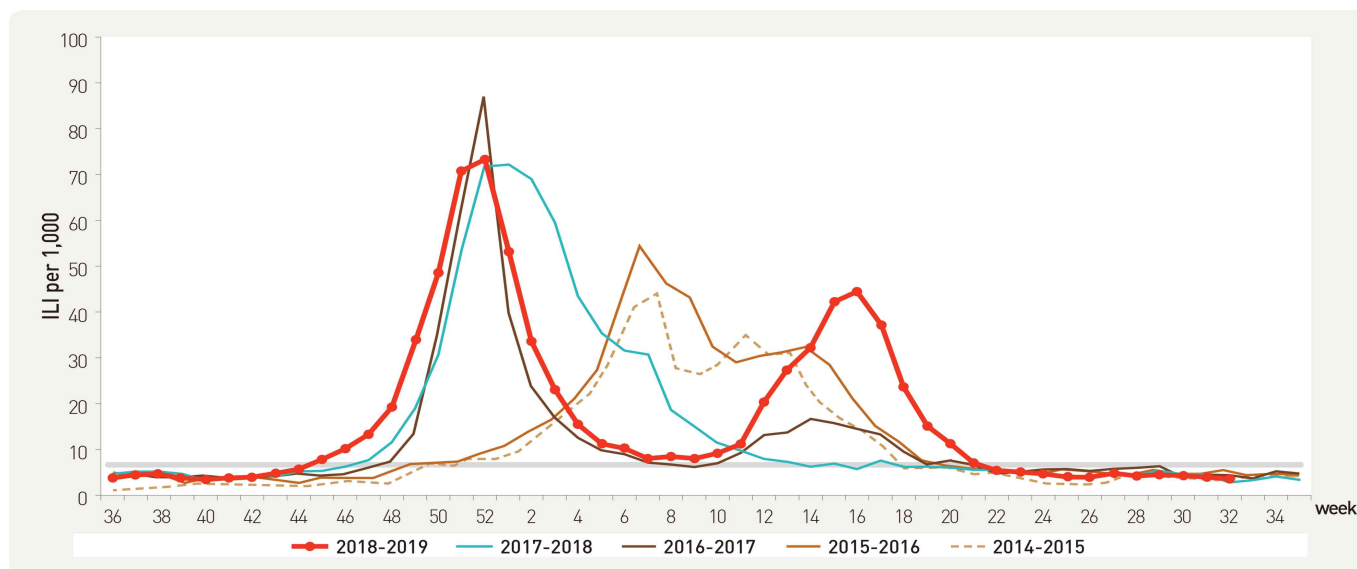 ※ 2018-2019 outbreak standard: 6.3 cases (/1,000)

Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending August 10, 2019 (32nd Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 37.7 cases
- Variation: decrease from 48.7 cases in 31st week of 2019
- Sentinel reporting sites: 97 hospitals/clinics
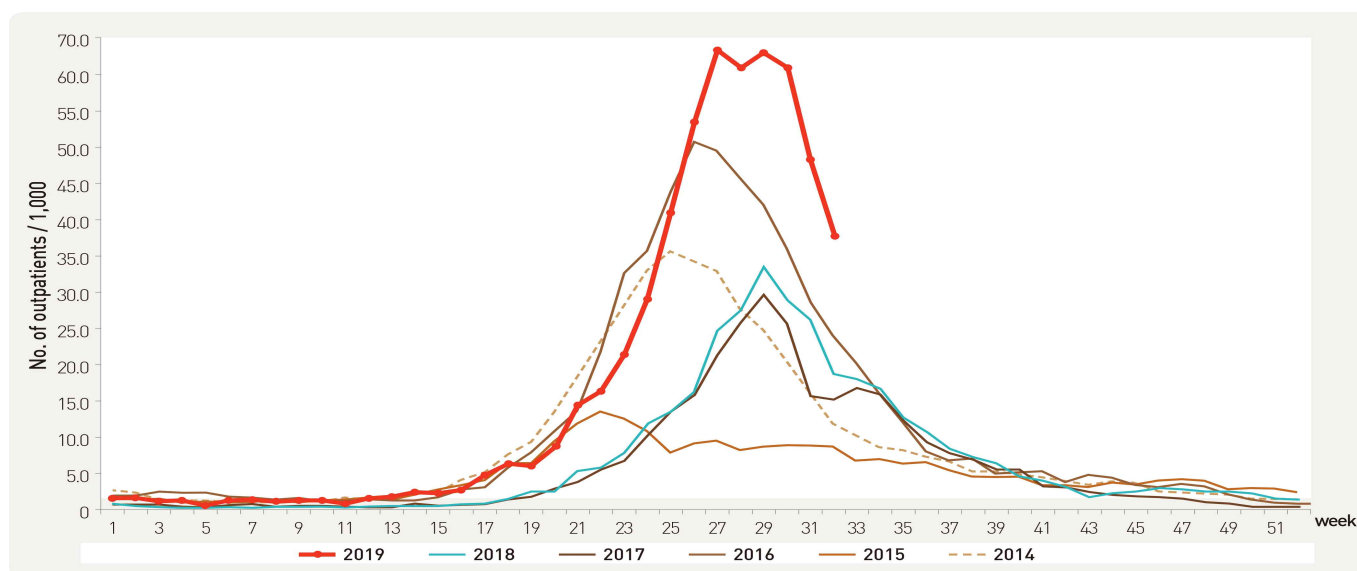
Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending August 10, 2019 (32nd Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 17.0 cases
- Variation: increase from 14.4 cases in 31st week of 2019
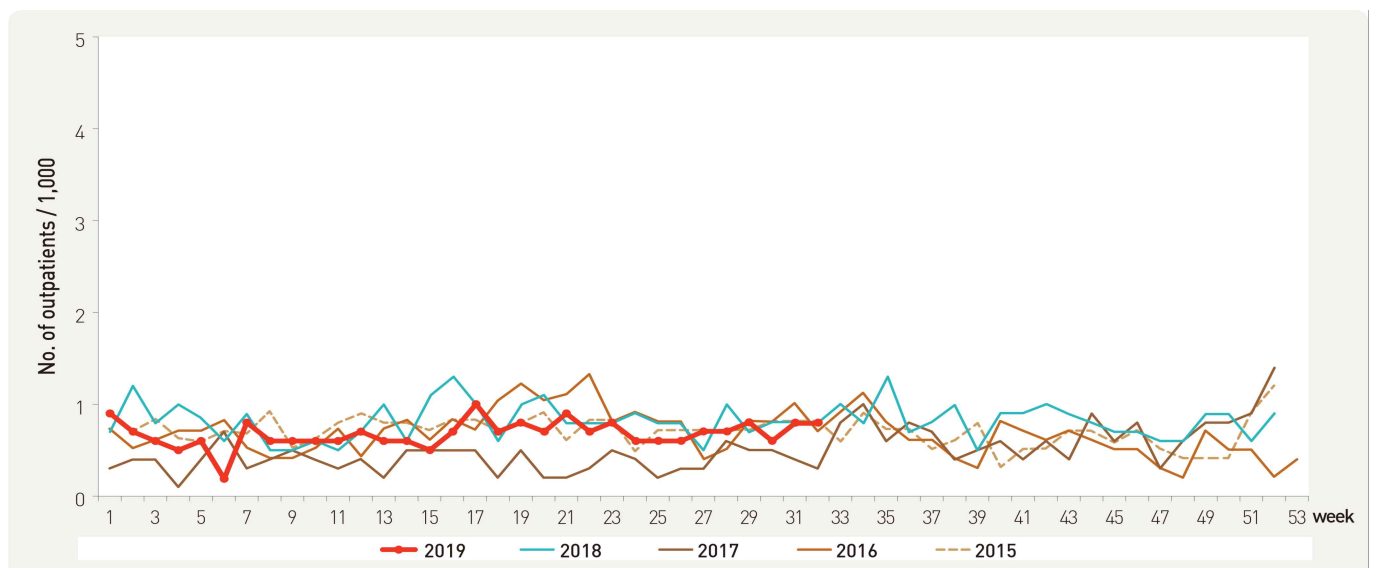- Sentinel reporting sites: 90 hospitals/clinics
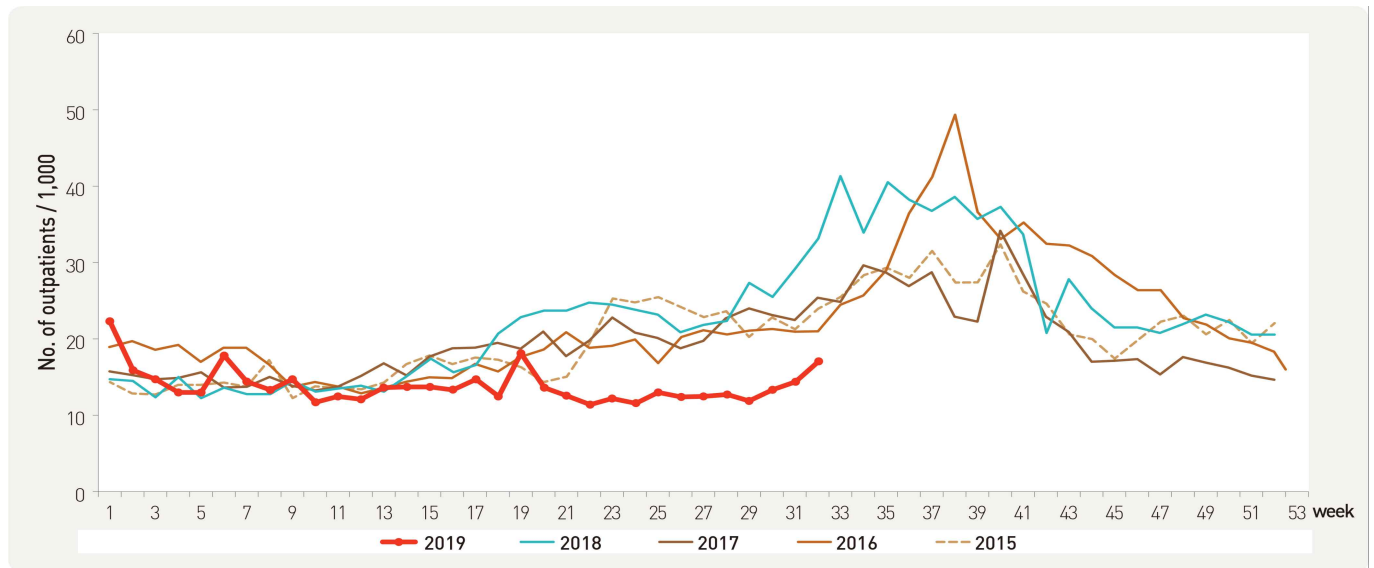
Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.7 case
- Variation: no change from 0.7 case in 31st week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending August 10, 2019 (32nd Week)

- Cases per sentinel: 2.8 for genital herpes, 2.0 for condyloma acuminata, 1.9 for chlamydia, 1.4 for gonorrhea

- Variation from 31st week of 2019
  Increase: gonorrhea (1.3 → 1.4)
  Decrease: chlamydia (2.4 → 1.9), genital herpes (3.7 → 2.8), condyloma acuminata (2.6 → 2.0)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 32nd week: 34 for gonorrhea, 90 for chlamydia, 65 for genital herpes, 41 for condyloma acuminata

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]	Current week	Cum. 2019	Cum. 5-year average[§]
1.4	6.1	7.3	1.9	22.0	19.2	2.8	32.5	22.5	2.0	17.2	13.9

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.

III. Waterborne and Foodborne Infectious Diseases

1. Waterborne and foodborne disease outbreaks, weeks ending August 10, 2019 (32nd Week)

- No. of reported outbreaks: 10 with 126 patients (cumulative no. of outbreaks: 412 with 5,053 patients)
- Variation: increase from 9 in 31st week of 2019
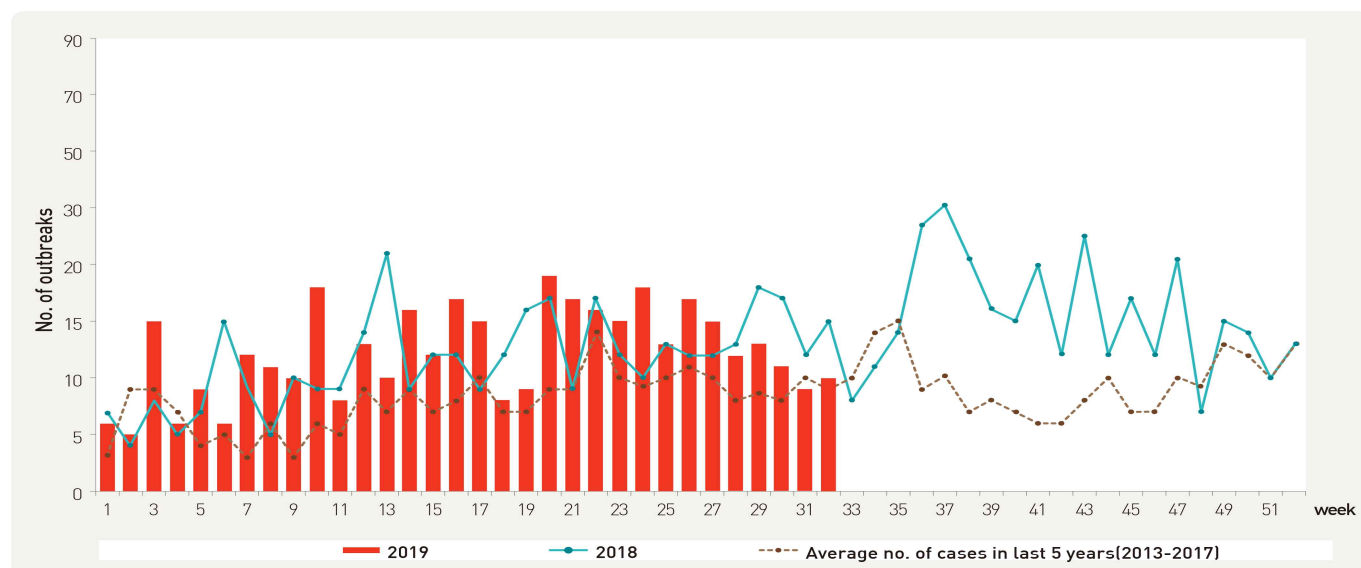- Reporting sites: 254 health centers

Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending August 10, 2019 (32nd Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 163 specimens
  [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation (%p): no change from 0 case (0.0%) / 163 specimens in 31st week of 2019
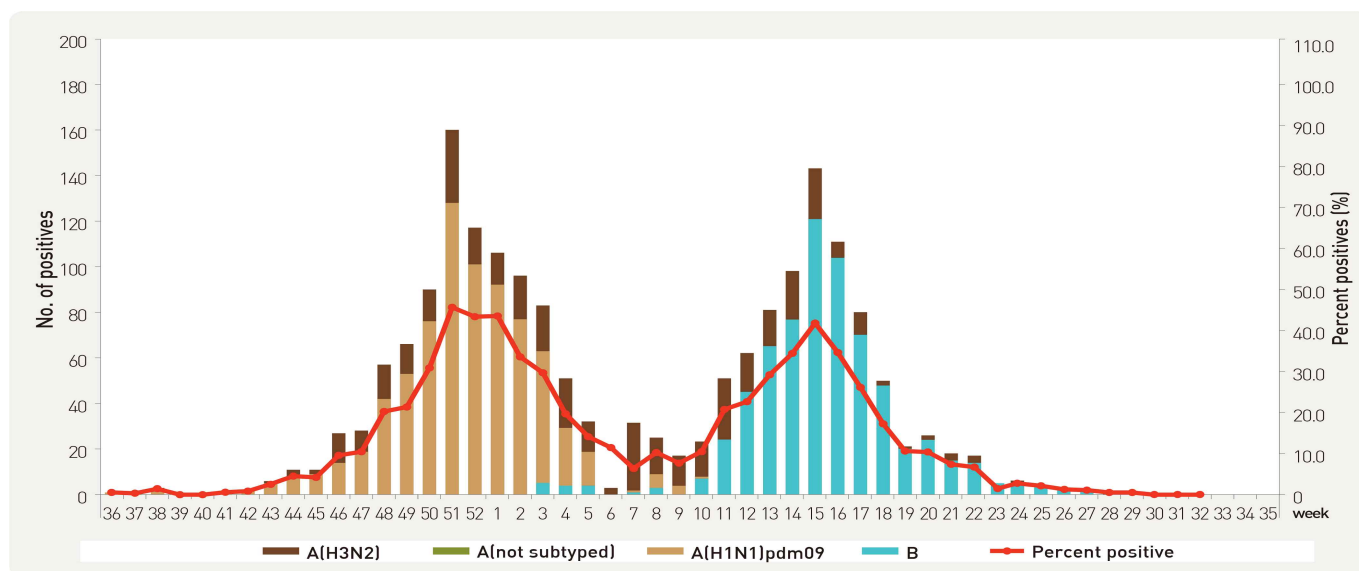- Sentinel reporting sites: 52 hospitals/clinics

Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending August 10, 2019 (32nd Week)

- Detection rate: 49.7% (cumulative mean proportion during preceding three weeks plus current week: 55.2% out of 706 specimens)
- Variation (%p): increase from 49.1% in 31st week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2019 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
29	197	65.5	8.1	14.7	0.0	0.5	0.0	28.4	9.1	4.6
30	183	54.6	7.7	14.8	0.0	0.0	1.1	23.5	3.8	3.8
31	163	49.1	4.3	14.7	0.0	0.0	0.0	22.7	4.9	2.5
32	163	49.7	11.0	17.8	0.0	0.0	1.2	15.3	1.8	2.5
Cum.※	706	55.2	7.8	15.4	0.0	0.1	0.6	22.8	5.1	3.4
2018 Cum.∀	11,966	63.0	6.8	6.1	4.4	17.0	5.7	16.3	1.7	4.9

- 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 July 14, 2019 – August 10, 2019 (Average no. of detected cases is 177 last 4 weeks)
- ∀ 2018 Cum. : the rate of detected cases between January 01, 2018 – December 29, 2018

V. Laboratory–based Pathogen Surveillance: Acute Gastroenteritis Viruses/Bacteria

1. Acute gastroenteritis-causing virus, weeks ending August 3, 2019 (31st Week)

- Detection rate: 17.2% [cumulative mean proportion in 2019: 634 cases (34.6%) out of 1,895 specimens]
- Variation (%p): increase from 6.4% in 30th week of 2019
- 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	
2019	28	48	1	(2.1)	1	(2.1)	0	(0.0)	1	(2.1)	2	(4.2)	5	(10.4)
	29	53	2	(3.8)	0	(0.0)	0	(0.0)	2	(3.8)	3	(5.7)	7	(13.2)
	30	47	2	(4.3)	0	(0.0)	1	(2.1)	0	(0.0)	0	(0.0)	3	(6.4)
	31	29	1	(3.4)	1	(3.4)	0	(0.0)	1	(3.4)	2	(6.9)	5	(17.2)
Cum. 2019		1,895	438	(23.9)	113	(6.2)	24	(1.3)	36	(2.0)	23	(1.3)	634	(34.6)

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

2. Acute gastroenteritis-causing bacteria, weeks ending August 3, 2019 (31st Week)

- Detection rate: 21.1% [cumulative mean proportion in 2019: 679 cases (12.5%) out of 5,427 specimens]
- Variation (%p): increase from 18.0% in 30th week of 2019
- 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
2019	28	207	3 (1.4)	9 (4.3)	0 (0)	0 (0)	0 (0)	3 (1.4)	3 (1.4)	5 (2.4)	2 (1.0)	25 (12.1)
	29	206	8 (3.9)	19 (9.2)	0 (0)	0 (0)	0 (0)	4 (1.9)	3 (1.5)	3 (1.5)	2 (1.0)	39 (18.9)
	30	239	9 (3.8)	17 (7.1)	0 (0)	0 (0)	0 (0)	4 (1.7)	0 (0)	1 (0.4)	12 (5.0)	43 (18.0)
	31	95	4 (4.2)	8 (8.4)	0 (0)	0 (0)	0 (0)	3 (3.2)	0 (0)	4 (4.2)	1 (1.1)	20 (21.1)
Cum. 2019		5,427	133 (2.5)	199 (3.7)	0 (0)	1 (0.02)	0 (0)	53 (1.0)	106 (2.0)	108 (2.0)	73 (1.3)	679 (12.5)

* 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 2019 (70 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending August 3, 2019 (31st Week)

- Detection rate: 40.0% (18 cases / 45 specimens) [cumulative mean proportion in 2019: 37.6% (455 cases / 1,210 specimens)]
  - Aseptic meningitis: 10 cases (Cum. 2019: 174 cases)
  - HFMD and herpangina: 4 cases (Cum. 2019: 199 cases)
  - HFMD with complications: 0 case (Cum. 2019: 7 cases)
  - Other: 4 cases (Cum. 2019: 75 cases)
- Variation (%p): decrease from 58.3% in 30th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics
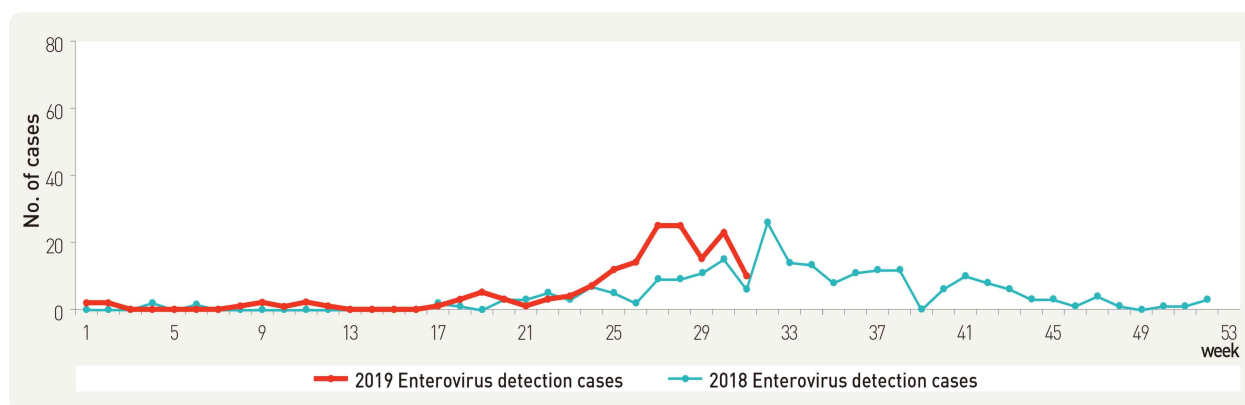

Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018
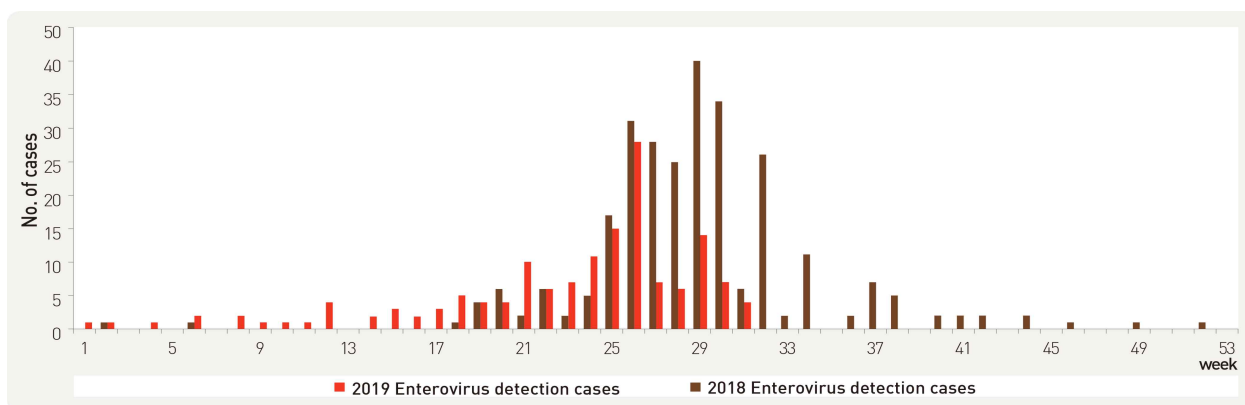

Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018
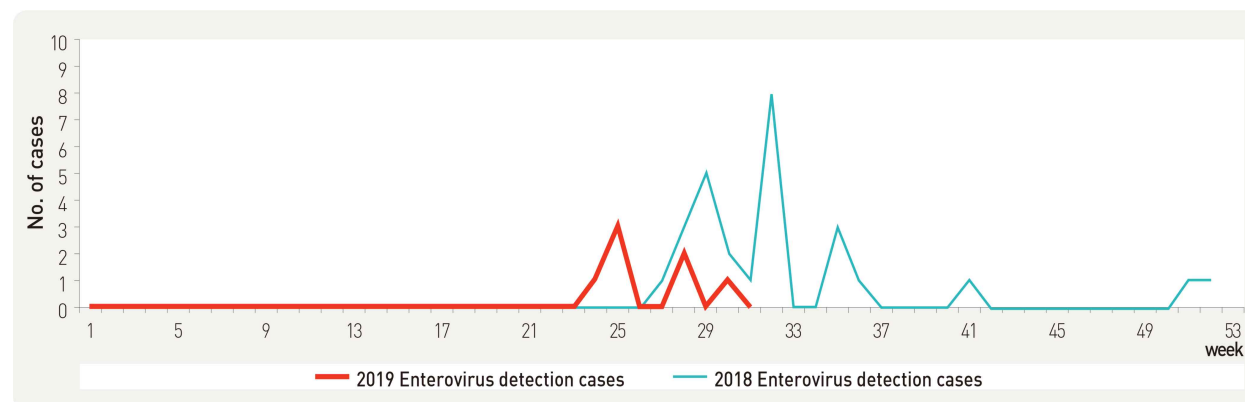

Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending August 3, 2019 (31st Week)

- No. of malaria vector mosquitoes: 9
- Variation: increase from 8 in 30th week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
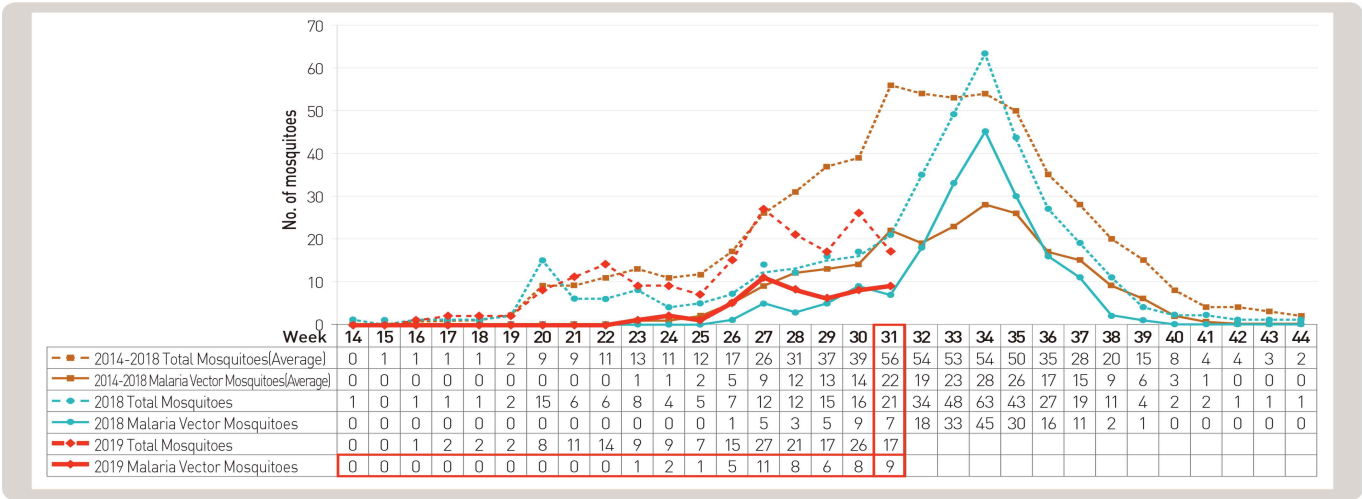 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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
2014-2018 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
2014-2018 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
2018 Total Mosquitoes	1	0	1	1	1	2	15	6	6	8	4	5	7	12	12	15	16	21	34	48	63	43	27	19	11	4	2	2	1	1	1
2018 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	5	9	7	18	33	45	30	16	11	2	1	0	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													
2019 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	0	0	1	2	1	5	11	8	6	8	9													

Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending August 10, 2019 (32nd Week)

- No. of Japanese encephalitis vector mosquitoes: 96
  ※ JEV: Japanese encephalitis vector
- Variation: increase from 65 in 31st week of 2019
- Sentinel reporting sites: 10 city/provincial health and environmental institutes and health centers (10 sites)
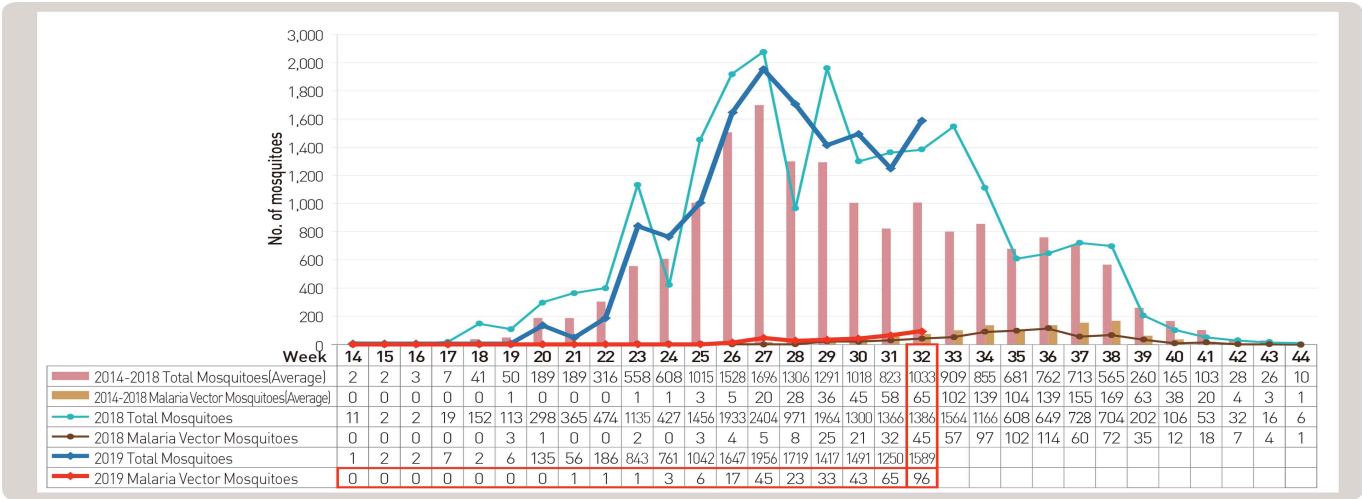 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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
2014-2018 Total Mosquitoes(Average)	2	2	3	7	41	50	189	189	316	558	608	1015	1528	1696	1306	1291	1018	823	1033	909	855	681	762	713	565	260	165	103	28	26	10
2014-2018 Malaria Vector Mosquitoes(Average)	0	0	0	0	0	1	0	0	1	3	5	20	28	36	45	58	65	102	139	104	139	155	169	63	38	20	4	3	1		
2018 Total Mosquitoes	11	2	2	19	152	113	298	365	474	1135	427	1456	1933	2404	971	1964	1300	1366	1386	1564	1166	608	649	728	704	202	106	53	32	16	6
2018 Malaria Vector Mosquitoes	0	0	0	0	0	3	1	0	0	2	0	3	4	5	8	25	21	32	45	57	97	102	114	60	72	35	12	18	7	4	1
2019 Total Mosquitoes	1	2	2	7	2	6	135	56	186	843	761	1042	1647	1956	1719	1417	1491	1250	1589												
2019 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	1	1	1	3	6	17	45	23	33	43	65	96												

Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

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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