

## I. National Notifiable Infectious Diseases

## 1. Reported cases, week ending June 22, 2019 (25th Week)\*

Unit: no. of cases<sup>†</sup>

Classification of disease <sup>†</sup>		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	America(1)
Typhoid fever		16	85	4	213	128	121	121	251	
Paratyphoid fever		10	38	1	47	73	56	44	37	
Shigellosis		27	66	2	191	111	113	88	110	Philippines(25)
EHEC		6	54	5	121	138	104	71	111	
Viral hepatitis A		534	7,930	60	2,437	4,419	4,679	1,804	1,307	
Category II										
Pertussis		9	224	6	980	318	129	205	88	Indonesia(1)
Tetanus		1	22	1	31	34	24	22	23	
Measles		18	367	3	15	7	18	7	442	Vietnam(1), Philippines(1)
Mumps		522	8,689	513	19,237	16,924	17,057	23,448	25,286	
Rubella		0	13	0	0	7	11	11	11	Thailand(1)
Viral hepatitis B (Acute)		10	187	6	392	391	359	155	173	
Japanese encephalitis		0	0	0	17	9	28	40	26	
Varicella		1,719	42,813	1,379	96,467	80,092	54,060	46,330	44,450	
<i>Haemophilus influenza</i> type b		0	0	0	2	3	0	0	0	
<i>Streptococcus pneumoniae</i>		10	285	7	670	523	441	228	36	
Category III										
Malaria		32	149	29	576	515	673	699	638	Brazil(1), Angola(1), Sierra Leone(1),
Scarlet fever <sup>§</sup>		164	4,187	288	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis		0	8	0	14	17	6	6	5	
Legionellosis		9	175	2	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis		0	1	1	47	46	56	37	61	
Murine typhus		3	6	0	16	18	18	15	9	
Scrub typhus		31	404	35	6,668	10,528	11,105	9,513	8,130	
Leptospirosis		5	38	1	118	103	117	104	58	
Brucellosis		0	32	0	5	6	4	5	8	
Rabies		0	0	0	0	0	0	0	0	
HFRS		7	113	8	433	531	575	384	344	
Syphilis		18	857	30	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD		2	51	1	53	36	42	33	65	
Tuberculosis		578	12,354	617	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS		16	422	22	989	1,009	1,062	1,018	1,081	
Viral hepatitis C		189	4,838	-	10,811	6,396	-	-	-	
VRSA		0	0	-	0	0	-	-	-	
CRE		260	6,163	-	11,954	5,716	-	-	-	

# 1. (Continued) Reported cases, week ending June 22, 2019 (25th Week)\*

Unit: no. of cases<sup>†</sup>

Classification of disease <sup>‡</sup>	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	2	81	4	159	171	313	255	165	Cambodia(1), Thailand(1)
Q fever	5	143	3	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	17	72	1	23	31	27	9	13	
Melioidosis	0	2	0	2	2	4	4	2	
Chikungunya fever	0	5	0	3	5	10	2	1	
SFTS	8	34	5	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	6	-	3	11	16	-	-	

Abbreviation: EHEC= Enterohemorrhagic *Escherichia 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 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th 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	16	85	100	10	38	23	27	66	62
Seoul	0	0	0	6	20	20	2	7	4	13	27	12
Busan	0	0	0	2	8	8	0	2	3	1	2	4
Daegu	0	0	0	0	2	4	1	3	1	0	1	4
Incheon	0	0	0	0	6	6	0	1	2	0	3	11
Gwangju	0	0	0	1	1	4	3	3	1	1	3	1
Daejeon	0	0	0	0	7	4	0	1	0	0	0	1
Ulsan	0	0	0	0	3	1	0	1	0	0	1	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	5	22	17	1	6	5	8	17	11
Gangwon	0	0	0	0	0	2	0	0	0	1	1	1
Chungbuk	0	0	0	0	1	2	0	1	1	0	0	1
Chungnam	0	0	0	0	4	5	0	0	1	1	1	2
Jeonbuk	0	0	0	0	1	2	0	2	2	0	1	2
Jeonnam	0	0	0	0	1	4	3	3	1	1	5	3
Gyeongbuk	0	0	0	1	4	4	0	3	1	0	1	5
Gyeongnam	0	0	0	1	5	14	0	4	1	1	3	3
Jeju	0	0	0	0	0	2	0	1	0	0	0	1

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th Week)\*

Unit: no. of cases†

Reporting area	Diseases of Category I						Diseases of Category II					
	Enterohemorrhagic <i>Escherichia coli</i>			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	6	54	37	534	7,930	1,708	9	224	96	1	22	9
Seoul	1	15	5	105	1,440	328	1	36	17	0	2	1
Busan	0	2	1	5	141	92	1	12	6	0	1	1
Daegu	0	1	6	7	76	39	0	11	1	0	3	1
Incheon	1	5	1	40	501	140	1	12	7	0	0	0
Gwangju	0	1	4	3	65	52	0	13	6	0	2	0
Daejeon	0	0	1	41	1,140	77	0	10	2	0	2	0
Ulsan	0	1	1	2	29	20	0	4	1	0	2	0
Sejong	1	1	0	17	171	10	0	6	1	0	0	0
Gyeonggi	1	9	5	200	2,520	498	2	23	19	0	3	1
Gangwon	0	1	2	8	132	37	0	2	1	0	0	1
Chungbuk	0	2	2	36	526	43	0	6	3	0	1	0
Chungnam	0	1	1	40	648	113	0	4	3	0	0	0
Jeonbuk	0	0	0	15	205	79	1	7	3	1	1	0
Jeonnam	0	7	4	6	101	69	0	18	5	0	1	2
Gyeongbuk	1	2	1	6	111	39	0	20	9	0	3	1
Gyeongnam	1	3	1	2	96	61	2	35	11	0	1	1
Jeju	0	3	2	1	28	11	1	5	1	0	0	0

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th 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	18	367	90	522	8,689	9,886	0	13	8	10	187	135
Seoul	6	50	24	77	1,134	964	0	3	2	0	26	22
Busan	1	15	3	36	521	723	0	0	1	1	23	9
Daegu	0	22	1	23	375	319	0	0	0	0	5	5
Incheon	0	11	10	18	411	426	0	1	0	0	10	9
Gwangju	0	1	1	28	287	689	0	0	0	2	3	3
Daejeon	1	82	4	11	267	233	0	0	1	0	7	4
Ulsan	0	2	1	15	330	304	0	0	0	0	2	4
Sejong	0	2	0	3	57	32	0	0	0	0	0	0
Gyeonggi	6	115	27	136	2,453	2,349	0	2	3	3	45	32
Gangwon	0	7	1	12	258	322	0	1	0	0	7	4
Chungbuk	0	1	2	19	247	196	0	0	0	0	7	5
Chungnam	1	4	3	24	378	366	0	0	0	1	12	7
Jeonbuk	0	10	1	33	402	833	0	0	0	1	9	9
Jeonnam	2	11	8	21	312	546	0	1	0	0	11	6
Gyeongbuk	0	24	4	24	444	440	0	4	1	2	12	7
Gyeongnam	1	7	0	34	671	1,018	0	1	0	0	6	8
Jeju	0	3	0	8	142	126	0	0	0	0	2	1

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th 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	1,719	42,813	29,867	32	149	173	164	4,187	7,011
Seoul	0	0	0	215	4,830	3,100	6	23	24	28	690	899
Busan	0	0	0	87	2,175	1,902	2	5	2	8	265	552
Daegu	0	0	0	102	2,285	1,667	1	2	2	6	126	274
Incheon	0	0	0	74	2,101	1,552	5	18	24	7	212	312
Gwangju	0	0	0	64	1,623	852	1	2	1	8	240	294
Daejeon	0	0	0	31	910	872	0	3	1	9	157	245
Ulsan	0	0	0	56	1,030	901	0	1	1	9	184	311
Sejong	0	0	0	13	478	246	1	1	1	0	20	32
Gyeonggi	0	0	0	505	12,375	8,543	13	78	100	38	1,179	2,015
Gangwon	0	0	0	35	716	931	1	7	6	0	66	111
Chungbuk	0	0	0	41	843	756	0	3	1	5	75	120
Chungnam	0	0	0	82	1,706	1,174	0	0	2	5	199	311
Jeonbuk	0	0	0	42	1,475	1,341	0	1	1	7	150	256
Jeonnam	0	0	0	37	1,510	1,262	0	1	1	6	145	268
Gyeongbuk	0	0	0	117	2,912	1,415	0	0	2	8	158	379
Gyeongnam	0	0	0	188	5,104	2,470	2	4	3	15	275	549
Jeju	0	0	0	30	740	883	0	0	1	5	46	83

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th Week)\*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Meningococcal meningitis			Legionellosis			<i>Vibrio vulnificus</i> 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	8	5	9	175	54	0	1	2	3	6	5
Seoul	0	1	2	1	49	15	0	1	0	0	0	1
Busan	0	0	1	1	9	4	0	0	0	0	0	0
Daegu	0	0	0	0	5	3	0	0	0	0	0	0
Incheon	0	1	0	0	11	4	0	0	0	0	0	0
Gwangju	0	0	0	1	5	0	0	0	0	0	0	1
Daejeon	0	0	0	1	3	1	0	0	0	1	1	0
Ulsan	0	0	0	0	1	2	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	4	1	1	44	11	0	0	1	1	3	0
Gangwon	0	2	0	0	4	2	0	0	0	0	0	0
Chungbuk	0	0	0	0	4	2	0	0	0	0	0	0
Chungnam	0	0	0	0	5	2	0	0	0	0	0	1
Jeonbuk	0	0	0	0	1	1	0	0	0	0	0	0
Jeonnam	0	0	0	2	11	1	0	0	1	0	0	1
Gyeongbuk	0	0	0	2	16	4	0	0	0	1	1	0
Gyeongnam	0	0	1	0	6	1	0	0	0	0	0	1
Jeju	0	0	0	0	1	1	0	0	0	0	1	0

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th Week)\*

Unit: no. of cases†

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	404	480	5	38	15	0	32	0	7	113	113
Seoul	0	20	22	0	5	0	0	7	0	0	3	5
Busan	1	14	19	0	1	1	0	0	0	0	4	2
Daegu	0	0	5	0	1	0	0	0	0	0	1	1
Incheon	0	5	11	1	1	0	0	2	0	0	2	1
Gwangju	0	7	11	1	3	1	0	0	0	0	1	1
Daejeon	0	5	14	1	1	1	0	2	0	0	0	2
Ulsan	0	13	9	0	0	0	0	0	0	0	0	1
Sejong	0	1	2	0	0	0	0	0	0	0	0	0
Gyeonggi	1	20	49	0	11	3	0	9	0	2	21	36
Gangwon	0	3	14	1	3	1	0	0	0	0	3	7
Chungbuk	0	3	10	1	3	0	0	4	0	0	3	7
Chungnam	2	38	45	0	5	2	0	0	0	0	15	12
Jeonbuk	3	39	44	0	0	1	0	0	0	2	18	8
Jeonnam	14	127	111	0	3	2	0	3	0	3	27	13
Gyeongbuk	0	9	35	0	0	1	0	1	0	0	10	11
Gyeongnam	10	88	74	0	1	2	0	4	0	0	5	5
Jeju	0	12	5	0	0	0	0	0	0	0	0	1

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th 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	18	857	713	2	51	21	578	12,354	14,907	2	81	81
Seoul	7	181	148	0	11	5	108	2,170	2,795	1	19	26
Busan	3	88	44	0	5	1	26	867	1,077	0	3	5
Daegu	1	37	34	0	0	2	33	545	743	0	5	4
Incheon	0	68	65	0	2	1	28	679	775	0	7	3
Gwangju	0	18	25	0	0	0	16	326	369	0	1	1
Daejeon	0	30	19	0	1	0	10	266	349	0	1	2
Ulsan	0	11	11	0	2	0	12	259	316	0	5	1
Sejong	0	2	4	0	1	0	0	35	45	0	0	0
Gyeonggi	1	207	193	1	11	5	129	2,704	3,114	1	20	24
Gangwon	0	22	18	0	2	1	21	518	648	0	5	1
Chungbuk	0	22	15	0	1	1	27	370	463	0	4	1
Chungnam	0	28	24	0	1	1	26	560	680	0	2	2
Jeonbuk	0	25	16	0	3	1	19	454	578	0	2	1
Jeonnam	2	16	19	0	2	0	29	687	756	0	2	2
Gyeongbuk	2	47	25	0	6	2	49	930	1,046	0	1	3
Gyeongnam	1	41	34	0	2	1	40	815	980	0	3	4
Jeju	1	14	19	1	1	0	5	169	172	0	1	1

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th 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	5	143	37	17	72	5	8	34	31	0	6	-
Seoul	0	22	4	3	22	2	0	0	1	0	1	-
Busan	0	2	1	0	3	0	0	0	1	0	1	-
Daegu	0	1	1	3	4	0	1	2	0	0	0	-
Incheon	1	6	1	2	4	0	0	0	0	0	1	-
Gwangju	0	3	1	2	7	0	0	1	0	0	0	-
Daejeon	0	5	1	1	4	0	0	0	0	0	1	-
Ulsan	0	0	1	1	3	0	0	0	0	0	0	-
Sejong	0	0	0	0	1	0	0	0	0	0	0	-
Gyeonggi	0	21	5	3	12	1	1	5	4	0	2	-
Gangwon	0	1	0	1	3	0	1	5	4	0	0	-
Chungbuk	1	18	7	0	0	0	0	0	1	0	0	-
Chungnam	1	11	5	0	2	1	1	5	4	0	0	-
Jeonbuk	0	16	1	0	3	0	1	6	2	0	0	-
Jeonnam	1	17	2	1	4	0	0	1	2	0	0	-
Gyeongbuk	1	7	2	0	0	1	3	5	4	0	0	-
Gyeongnam	0	12	5	0	0	0	0	3	4	0	0	-
Jeju	0	1	0	0	0	0	0	1	4	0	0	-

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

\* The reported data for year 2018-2019 are provisional but the data from 2014 to 2017 were 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 June 22, 2019 (25th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 4.4 cases (=0.44%)
- Variation: decrease from 4.7 cases in 24<sup>th</sup> week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2018-2019 outbreak standard: 6.3 cases (/1,000)

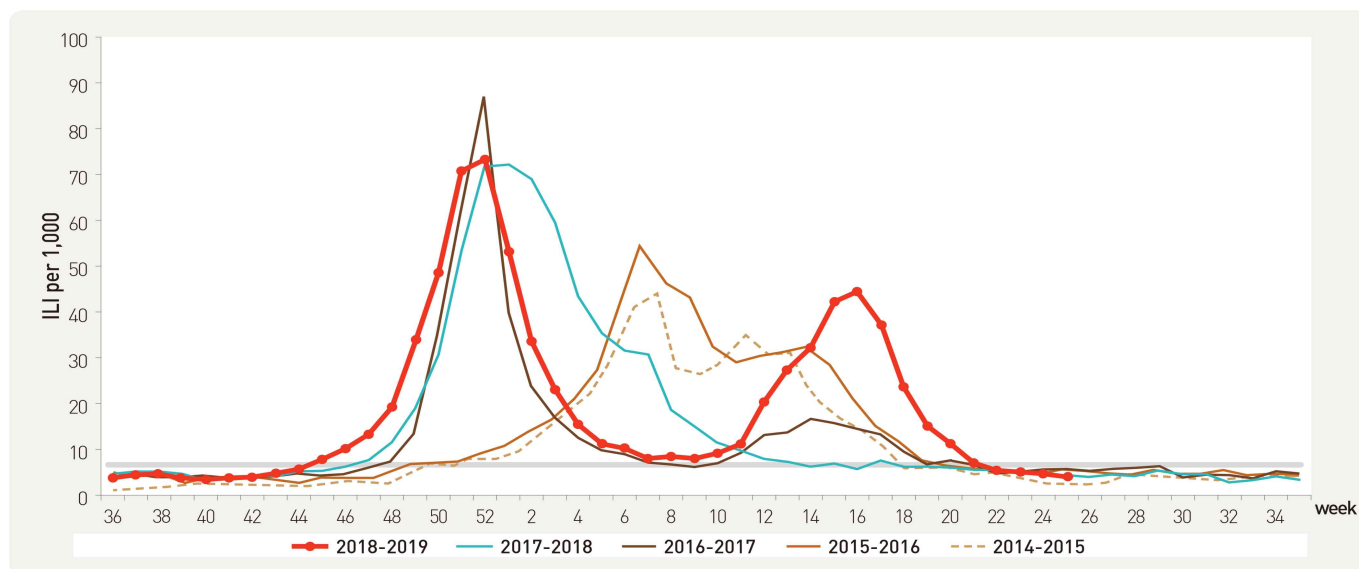


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

### 2. Hand, Foot and Mouth Disease (HFMD), weeks ending June 22, 2019 (25th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 41.0 cases
- Variation: increase from 29.0 cases in 24<sup>th</sup> week of 2019
- Sentinel reporting sites: 95 hospitals/clinics

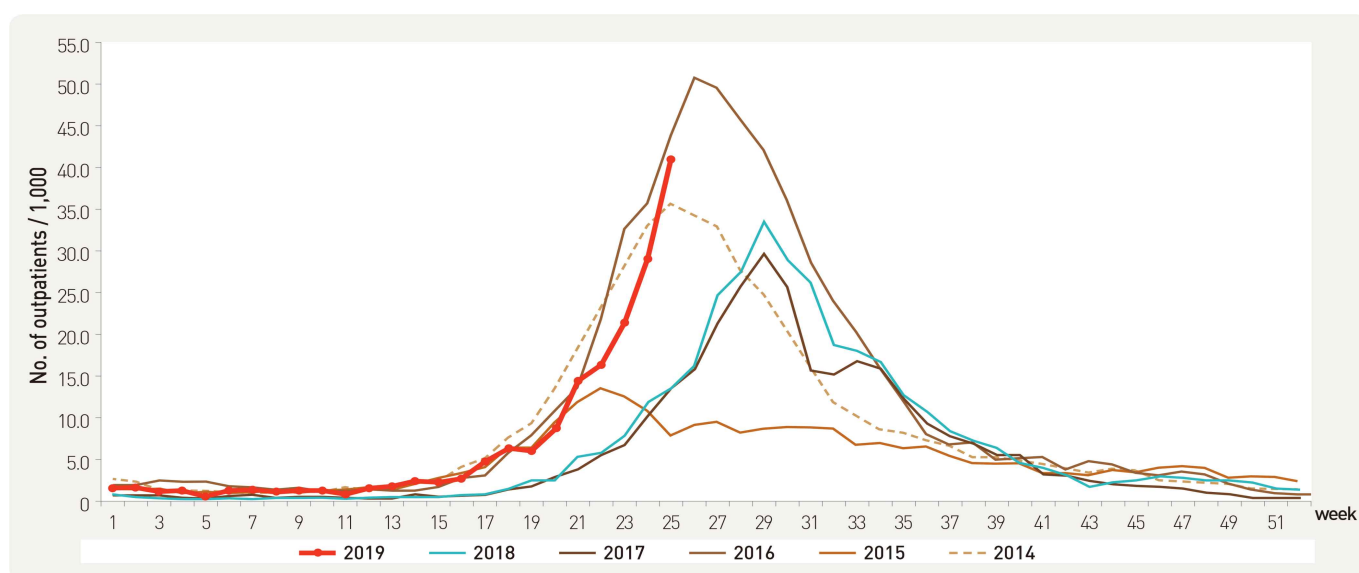


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

### 3. Ophthalmologic infectious diseases, weeks ending June 22, 2019 (25th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 13.0 cases
- Variation: increase from 11.6 cases in 24<sup>th</sup> week of 2019
- Sentinel reporting sites: 92 hospitals/clinics

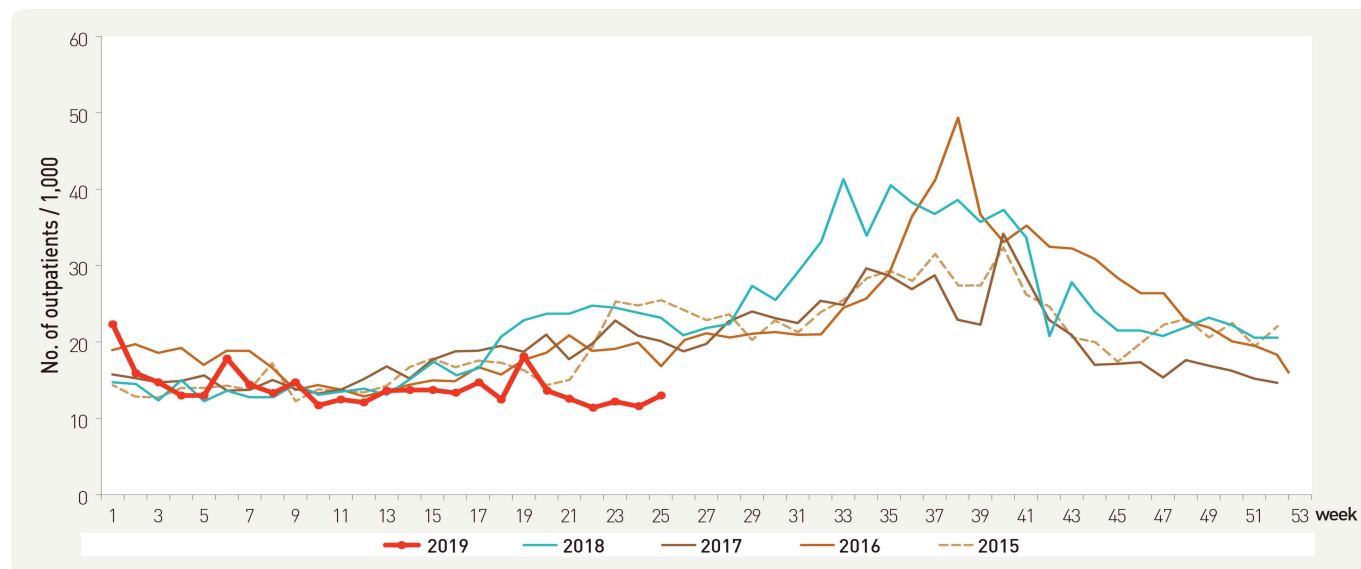


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.6 case
- Variation: no change from 0.6 case in 24<sup>th</sup> week of 2019
- Sentinel reporting sites: 92 hospitals/clinics

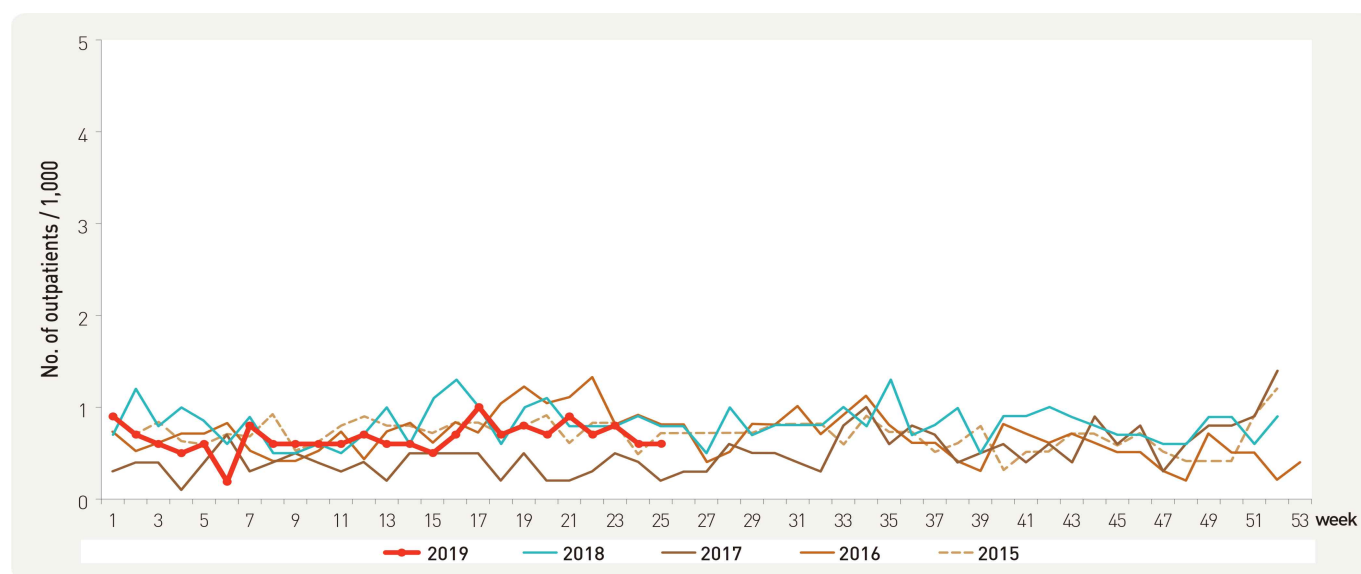


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

#### 4. Sexually Transmitted Diseases<sup>†</sup>, weeks ending June 22, 2019 (25th Week)

- Cases per sentinel: 2.6 for genital herpes, 2.2 for chlamydia, 2.1 for condyloma acuminata, 1.5 for gonorrhea
- Variation from 24<sup>th</sup> week of 2019  
Increase: genital herpes (2.5 → 2.6), condyloma acuminata (1.8 → 2.1)  
No change: gonorrhea (1.5 → 1.5), chlamydia (2.2 → 2.2)
- Sentinel reporting sites: 590 hospitals/clinics  
※ No. of reported sites in 25<sup>th</sup> week: 15 for gonorrhea, 60 for chlamydia, 36 for genital herpes, 26 for condyloma acuminata

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2019	Cum. 5-year average <sup>§</sup>	Current week	Cum. 2019	Cum. 5-year average <sup>§</sup>	Current week	Cum. 2019	Cum. 5-year average <sup>§</sup>	Current week	Cum. 2019	Cum. 5-year average <sup>§</sup>
1.5	5.0	6.2	2.2	16.7	15.7	2.6	24.6	18.5	2.1	12.8	11.6

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

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

<sup>§</sup> 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 June 22, 2019 (25th Week)

- No. of reported outbreaks: 13 with 115 patients (cumulative no. of outbreaks: 320 with 4,177 patients)
- Variation: decrease from 16 in 24<sup>th</sup> week of 2019
- Reporting sites: 254 health centers

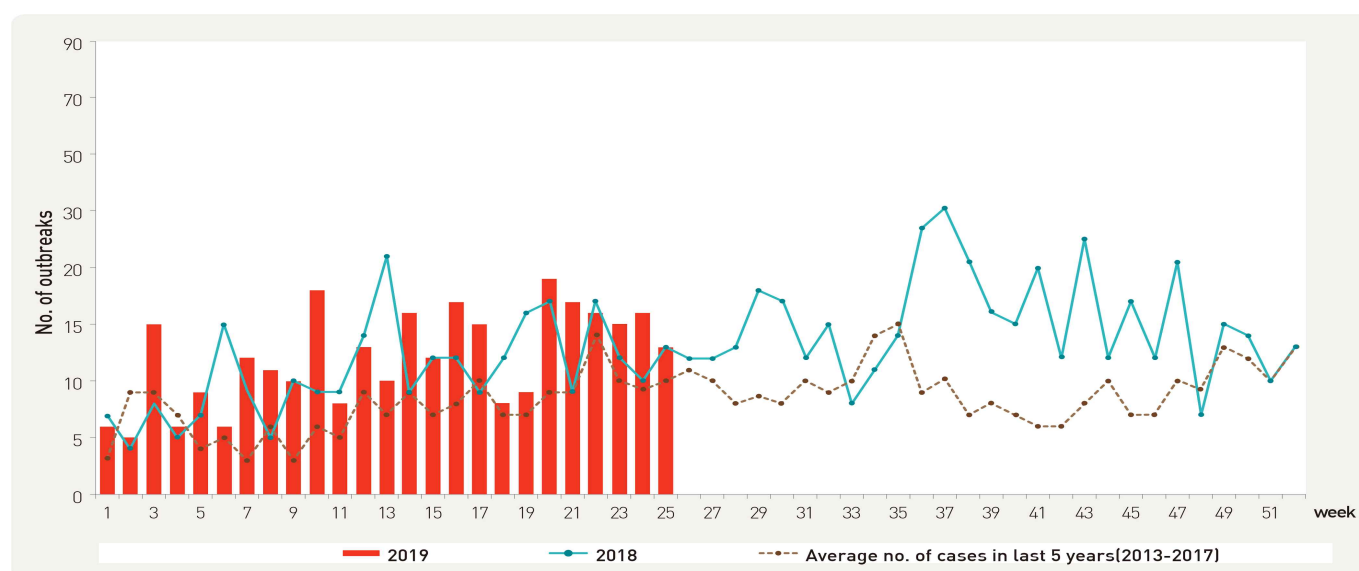


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

### 1. Influenza viruses, weeks ending June 22, 2019 (25th Week)

- Weekly reported number of specimens positive for influenza: 4 cases (2.1%) / 192 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 4 cases]
- Variation (%p): decrease from 6 cases (3.0%) / 201 specimens in 24<sup>th</sup> week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

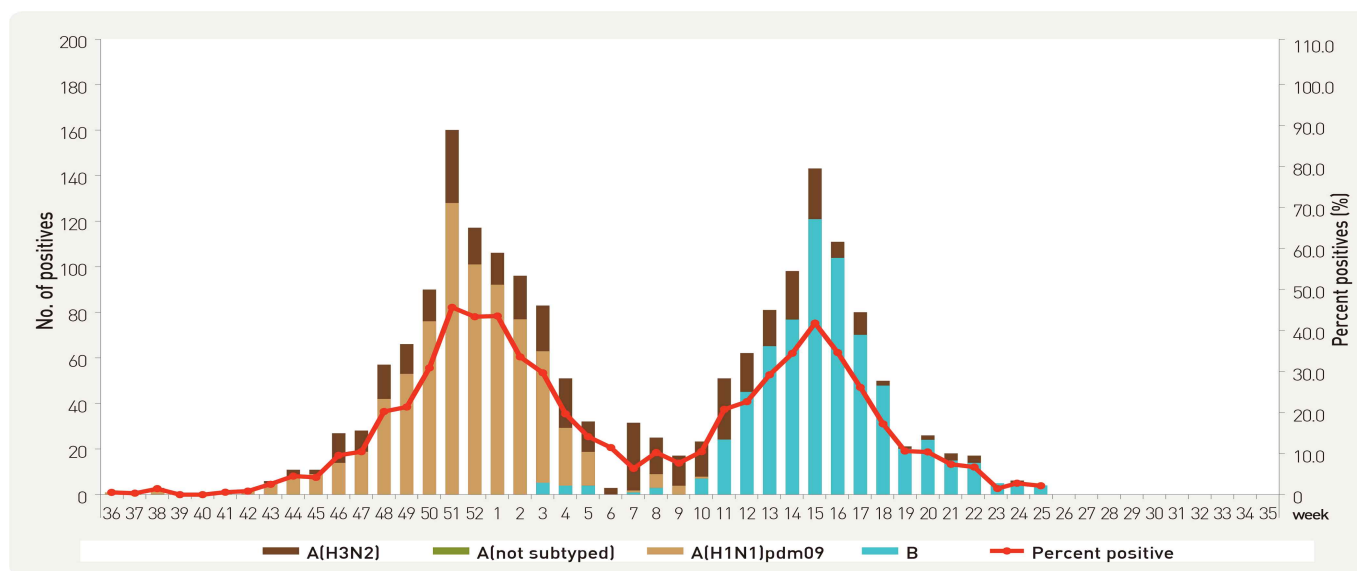


Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

### 2. Respiratory viruses, weeks ending June 22, 2019 (25th Week)

- Detection rate: 71.4% (cumulative mean proportion during preceding three weeks plus current week: 74.0% out of 877 specimens)
- Variation (%p): decrease from 72.6% in 24<sup>th</sup> 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
22	260	76.2	8.1	20.0	0.4	6.5	0.0	20.4	5.0	15.8
23	224	75.4	11.6	21.9	0.4	2.2	0.9	17.4	8.0	12.9
24	201	72.6	10.0	17.4	0.0	3.0	2.0	17.4	15.9	7.0
25	192	71.4	9.9	20.3	0.0	2.1	1.6	18.2	11.5	7.8
Cum.*	877	74.0	9.8	19.9	0.2	3.6	1.0	18.5	9.7	11.3
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 May 26, 2019 – June 22, 2019 (Average no. of detected cases is 219 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 June 15, 2019 (24th Week)

- Detection rate: 26.1% [cumulative mean proportion in 2019: 588 cases (39.8%) out of 1,477 specimens]
- Variation (%p): increase from 23.1% in 23<sup>rd</sup> 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 21	57	11	(19.3)	5	(8.8)	1	(1.8)	0	(0.0)	0	(0.0)	17	(29.8)
22	54	10	(18.5)	1	(1.9)	1	(1.9)	0	(0.0)	0	(0.0)	12	(22.2)
23	52	8	(15.4)	0	(0.0)	2	(3.8)	0	(0.0)	2	(3.8)	12	(23.1)
24	46	9	(19.6)	0	(0.0)	2	(4.3)	1	(2.2)	0	(0.0)	12	(26.1)
Cum. 2019	1,477	417	(28.2)	109	(7.4)	23	(1.6)	28	(1.9)	11	(0.7)	588	(39.8)

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

### 2. Acute gastroenteritis-causing bacteria, weeks ending June 15, 2019 (24th Week)

- Detection rate: 21.6% [cumulative mean proportion in 2019: 424 cases (10.8%) out of 3,938 specimens]
- Variation (%p): increase from 15.2% in 23<sup>rd</sup> 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, %)									
			<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
2019	21	208	5 (2.4)	9 (4.3)	0 (0)	1 (0.5)	0 (0)	2 (1.0)	2 (1.0)	6 (2.9)	5 (2.4)	30 (14.4)
	22	138	8 (5.8)	8 (5.8)	0 (0)	0 (0)	0 (0)	2 (1.4)	6 (4.3)	4 (2.9)	1 (0.7)	29 (21.0)
	23	132	6 (4.5)	4 (3.0)	0 (0)	0 (0)	0 (0)	1 (0.8)	4 (3.0)	4 (3.0)	1 (0.8)	20 (15.2)
	24	88	5 (5.7)	7 (8.0)	0 (0)	0 (0)	0 (0)	1 (1.1)	3 (3.4)	2 (2.3)	1 (1.1)	19 (21.6)
Cum. 2019		3,938	86 (2.2)	98 (2.5)	0 (0)	1 (0.03)	0 (0)	30 (0.8)	86 (2.2)	84 (2.1)	34 (0.9)	424 (10.8)

\* 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 June 15, 2019 (24th Week)

- Detection rate: 44.2% (19 cases / 43 specimens) [cumulative mean proportion in 2019: 21.7% (150 cases / 692 specimens)]
  - Aseptic meningitis: 7 cases (Cum. 2019: 43 cases)
  - HFMD and herpangina: 11 cases (Cum. 2019: 81 cases)
  - HFMD with complications: 1 case (Cum. 2019: 1 case)
  - Other: 0 case (Cum. 2019: 25 cases)
- Variation (%p): increase from 30.6% in 23<sup>rd</sup> week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

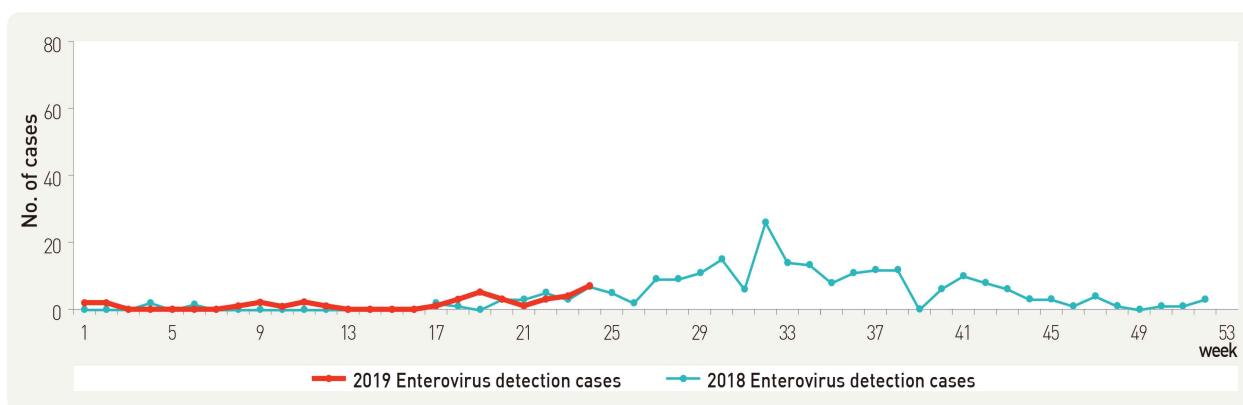


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

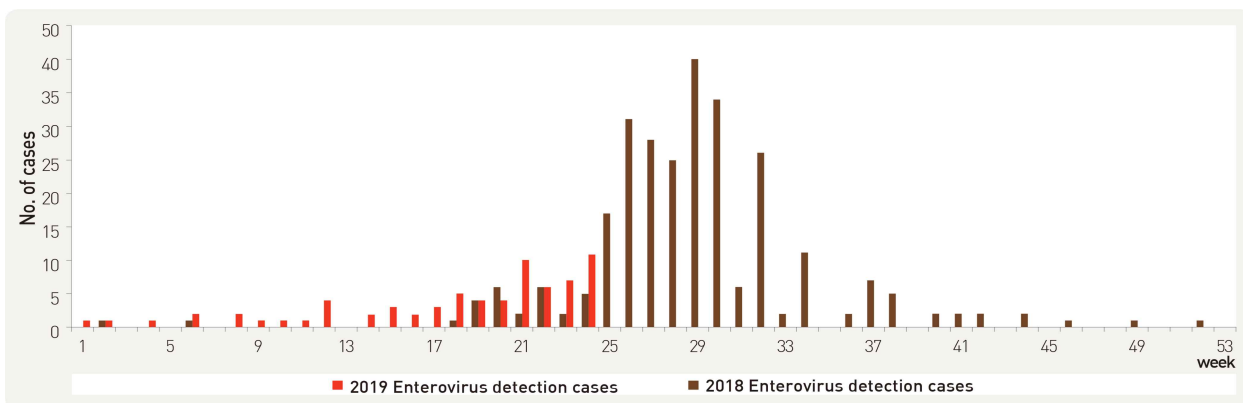


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

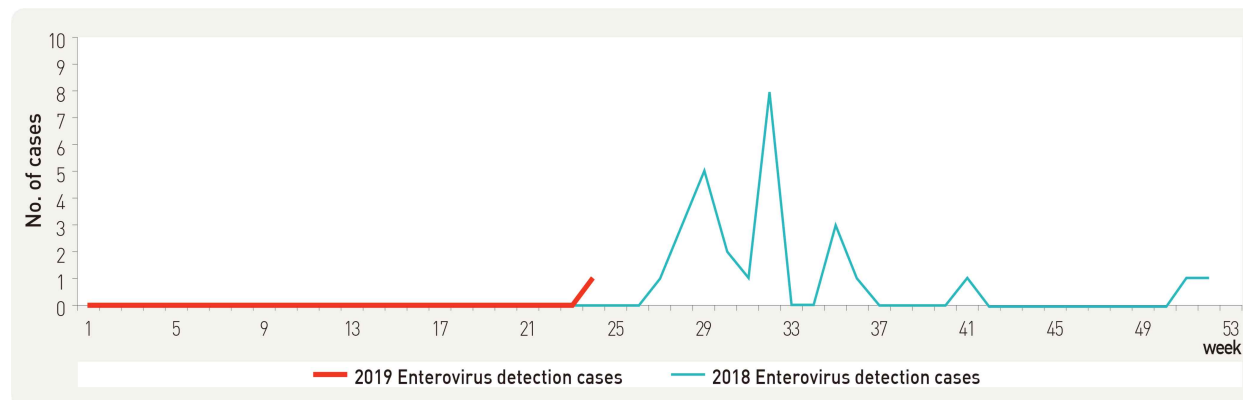


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018



## VII. Vector Surveillance: Malaria Vector Mosquitoes

### 1. Malaria vector mosquitoes, weeks ending June 15, 2019 (24th Week)

- No. of malaria vector mosquitoes: 2
- Variation: increase from 1 in 23<sup>rd</sup> week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

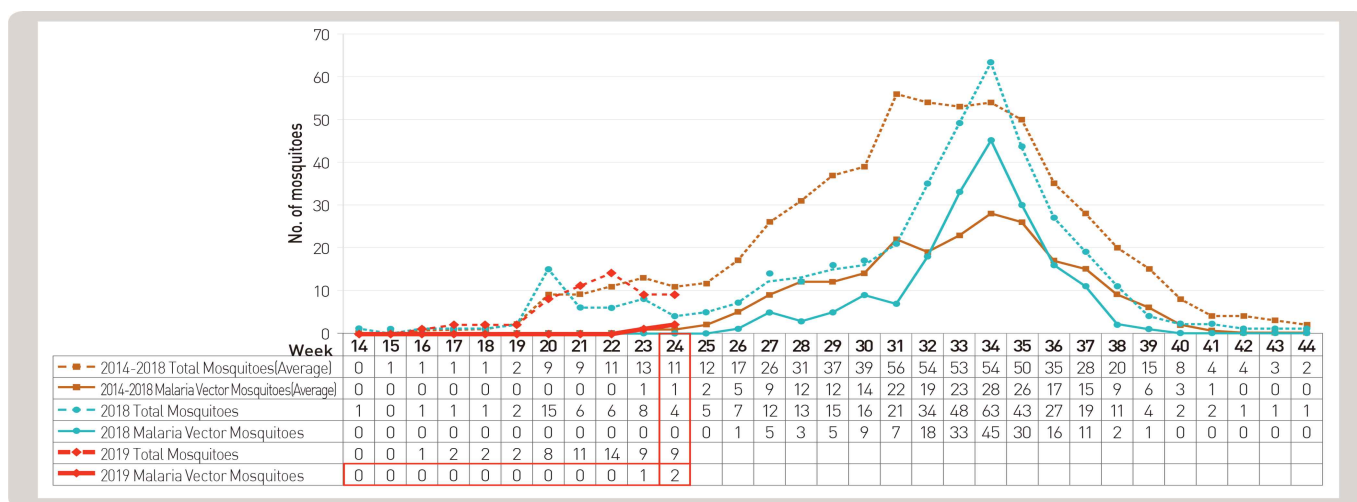


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

## VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

### 1. Japanese encephalitis vector mosquitoes, weeks ending June 22, 2019 (25th Week)

- No. of Japanese encephalitis vector mosquitoes: 6
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 3 in 24<sup>th</sup> 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

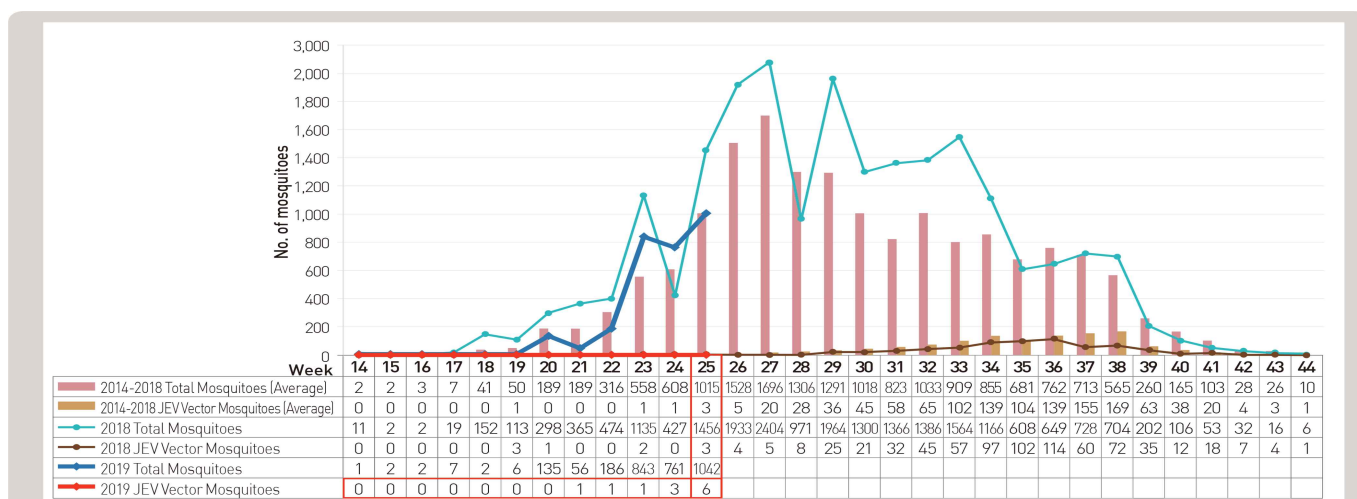


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

## 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 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 1<sup>st</sup> 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

Questions or comments about the PHWR Disease Surveillance Statistics can be sent to [kcdc215@korea.kr](mailto:kcdc215@korea.kr) or to the following:

### Mail:

Division of Medical Science Knowledge Management  
Korea Centers for Disease Control and Prevention  
202 Osongsaengmyeong 2-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea, 28160