Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 12, No. 45 **November 7, 2019**

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending November 2, 2019 (44th 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	1	1	0	2	5	4	0	0	India(1)
Typhoid fever	7	104	2	213	128	121	121	251	
Paratyphoid fever	3	63	1	47	73	56	44	37	
Shigellosis	4	118	2	191	112	113	88	110	
EHEC	8	161	1	121	138	104	71	111	
Viral hepatitis A	101	17,001	46	2,437	4,419	4,679	1,804	1,307	
Category Ⅱ									
Pertussis	14	401	9	980	318	129	205	88	
Tetanus	0	34	0	31	34	24	22	23	
Measles	14	294	0	15	7	18	7	442	Unknown(1)
Mumps	320	14,143	419	19,237	16,924	17,057	23,448	25,286	
Rubella	4	14	0	0	7	11	11	11	Philippines(1)
Viral hepatitis B (Acute)	8	323	6	392	391	359	155	173	
Japanese encephalitis	0	26	2	17	9	28	40	26	
Varicella	1,338	65,086	1,343	96,467	80,092	54,060	46,330	44,450	
Haemophilus influenza type b	0	0	0	2	3	0	0	0	
Streptococcus pneumoniae	11	422	7	670	523	441	228	36	
Category Ⅲ									
Malaria	13	551	5	576	515	673	699	638	Nigeria(1), Uganda(1)
Scarlet fever§	120	6,566	220	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	14	0	14	17	6	6	5	
Legionellosis	7	389	3	305	198	128	45	30	
Vibrio vulnificus sepsis	2	37	1	47	46	56	37	61	
Murine typhus	0	15	1	16	18	18	15	9	
Scrub typhus	264	1,467	1,214	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	13	114	6	118	103	117	104	58	
Brucellosis	0	1	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	20	274	23	433	531	575	384	344	
Syphilis	27	1,510	35	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	4	53	1	53	36	42	33	65	
Tuberculosis	523	20,810	570	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	24	817	25	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	193	8,294	-	10,811	6,396	-	-	-	
VRSA	0	2	-	0	0	-	-	-	
CRE	306	12,872	-	11,954	5,717	-	-	-	

1. *(Continued)* Reported cases, week ending November 2, 2019 (44th 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 IV									
Dengue fever	5	239	5	159	171	313	255	165	Malaysia(1), Myanmar(1), Thailand(1), Philippines(1), Unknown(1)
Q fever	6	202	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	19	81	1	23	31	27	9	13	
Melioidosis	0	6	0	2	2	4	4	2	
Chikungunya fever	0	15	0	3	5	10	2	1	
SFTS	2	223	5	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	10	-	3	11	16	-	-	

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 November 2, 2019 (44th 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	1	1	2	7	104	147	3	63	47	4	118	107
Seoul	1	1	0	0	17	27	0	14	9	3	38	24
Busan	0	0	1	2	8	10	0	3	5	0	8	6
Daegu	0	0	0	0	2	5	1	4	2	0	6	6
Incheon	0	0	0	1	8	7	0	1	3	0	8	13
Gwangju	0	0	0	0	1	6	1	4	2	0	3	2
Daejeon	0	0	0	0	6	7	0	2	1	0	1	2
Ulsan	0	0	0	0	3	2	0	1	1	0	3	1
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyonggi	0	0	0	1	31	29	1	14	8	1	31	17
Gangwon	0	0	0	0	1	4	0	2	2	0	1	2
Chungbuk	0	0	0	2	4	4	0	3	2	0	1	2
Chungnam	0	0	0	0	5	6	0	0	1	0	2	6
Jeonbuk	0	0	0	0	3	3	0	2	3	0	1	3
Jeonnam	0	0	0	1	3	7	0	1	2	0	6	5
Gyeongbuk	0	0	0	0	4	6	0	3	2	0	1	6
Gyeongnam	0	0	1	0	8	20	0	8	3	0	6	10
Jeju	0	0	0	0	0	3	0	1	1	0	2	2

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 November 2, 2019 (44th Week)*

Unit: no. of cases†

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	8	161	99	101	17,001	2,547	14	401	287	0	34	21
Seoul	0	40	13	15	3,031	494	2	59	37	0	2	2
Busan	0	3	3	2	478	113	1	27	28	0	2	2
Daegu	1	5	9	2	180	55	2	18	7	0	4	1
Incheon	0	12	8	6	959	215	1	17	18	0	0	1
Gwangju	0	9	15	2	154	74	0	18	14	0	2	0
Daejeon	0	2	2	11	2,639	118	0	13	5	0	2	0
Ulsan	0	5	6	1	77	26	0	7	8	0	2	0
Sejong	0	3	1	0	389	15	0	6	3	0	1	0
Gyonggi	5	35	16	43	5,228	776	2	58	46	0	6	2
Gangwon	0	5	3	1	243	59	1	8	2	0	1	1
Chungbuk	1	8	2	3	1,046	74	0	7	6	0	1	0
Chungnam	0	4	3	4	1,397	163	0	5	9	0	2	1
Jeonbuk	0	4	1	4	524	125	0	13	5	0	1	1
Jeonnam	0	11	6	1	151	83	1	30	10	0	2	4
Gyeongbuk	0	6	3	3	225	62	2	39	18	0	4	3
Gyeongnam	1	4	4	2	213	80	2	68	67	0	2	3
Jeju	0	5	4	1	67	15	0	8	4	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 November 2, 2019 (44th 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	14	294	103	320	14,143	16,981	4	14	12	8	323	240
Seoul	0	35	24	39	1,794	1,638	1	2	2	2	50	42
Busan	0	9	4	20	791	1,216	0	0	1	1	30	15
Daegu	0	23	2	7	616	539	1	1	0	0	8	8
Incheon	0	11	12	11	692	708	1	2	0	1	18	13
Gwangju	0	3	1	8	440	1,269	0	0	0	1	5	6
Daejeon	0	37	4	9	429	372	0	1	1	0	12	8
Ulsan	0	5	1	17	454	545	0	0	0	0	2	7
Sejong	0	3	0	2	86	58	0	0	0	0	0	0
Gyonggi	10	106	32	97	4,057	4,000	0	0	5	2	78	60
Gangwon	3	8	1	5	459	529	0	1	0	0	11	7
Chungbuk	0	2	2	4	371	331	0	0	0	0	17	8
Chungnam	1	6	4	15	638	617	0	0	1	0	18	12
Jeonbuk	0	9	1	23	658	1,473	1	1	0	0	13	15
Jeonnam	0	11	9	11	543	859	0	1	0	1	15	12
Gyeongbuk	0	14	5	17	735	750	0	4	2	0	25	11
Gyeongnam	0	9	1	26	1,131	1,864	0	0	0	0	16	15
Jeju	0	3	0	9	249	213	0	1	0	0	5	1

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 November 2, 2019 (44th 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	26	21	1,338	65,086	46,466	13	551	605	120	6,566	10,430
Seoul	0	4	8	211	7,667	5,121	2	93	83	16	1,108	1,306
Busan	0	0	0	55	3,253	2,817	2	15	8	8	374	770
Daegu	0	3	1	57	3,594	2,539	0	2	8	4	198	408
Incheon	0	1	1	58	3,088	2,487	0	87	96	5	330	472
Gwangju	0	2	1	52	2,290	1,454	0	4	4	3	350	476
Daejeon	0	1	1	31	1,596	1,337	0	5	4	3	276	380
Ulsan	0	0	0	12	1,757	1,449	0	2	4	5	263	440
Sejong	0	0	0	19	682	403	0	1	1	0	41	51
Gyonggi	0	5	4	370	18,661	13,093	4	293	339	36	1,885	3,038
Gangwon	0	1	0	46	1,247	1,460	0	15	17	1	106	162
Chungbuk	0	1	1	26	1,437	1,179	2	7	5	2	110	187
Chungnam	0	3	1	43	2,568	1,788	2	9	8	8	295	473
Jeonbuk	0	0	0	77	2,344	2,076	0	2	5	4	218	371
Jeonnam	0	2	1	43	2,359	1,990	0	0	4	7	208	406
Gyeongbuk	0	1	1	75	4,224	2,215	1	5	8	8	273	555
Gyeongnam	0	2	1	108	7,090	3,780	0	8	8	6	445	815
Jeju	0	0	0	55	1,229	1,278	0	3	3	4	86	120

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 November 2, 2019 (44th 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	14	8	7	389	113	2	37	50	0	15	12
Seoul	0	3	3	2	110	32	2	6	5	0	2	2
Busan	0	0	1	0	16	7	0	3	5	0	0	1
Daegu	0	0	1	1	15	4	0	0	1	0	0	0
Incheon	0	1	0	1	29	9	0	0	4	0	3	1
Gwangju	0	0	0	0	11	0	0	0	1	0	0	1
Daejeon	0	0	0	0	4	1	0	0	1	0	0	0
Ulsan	0	0	0	1	3	2	0	0	1	0	1	1
Sejong	0	1	0	0	1	0	0	0	0	0	0	0
Gyonggi	0	5	1	1	105	24	0	9	9	0	2	2
Gangwon	0	2	0	0	9	7	0	0	0	0	0	0
Chungbuk	0	0	0	0	12	5	0	2	1	0	1	0
Chungnam	0	1	0	0	12	4	0	1	3	0	0	1
Jeonbuk	0	0	0	0	6	2	0	3	2	0	1	0
Jeonnam	0	0	0	1	14	2	0	6	7	0	3	1
Gyeongbuk	0	0	1	0	30	7	0	1	3	0	0	0
Gyeongnam	0	1	1	0	8	5	0	5	6	0	0	2
Jeju	0	0	0	0	4	2	0	1	1	0	2	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 November 2, 2019 (44th 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	264	1,467	4,126	13	114	73	0	1	1	20	274	293
Seoul	6	50	134	0	9	4	0	1	1	1	6	12
Busan	10	54	193	0	2	3	0	0	0	2	13	8
Daegu	4	13	78	0	1	1	0	0	0	0	2	2
Incheon	1	20	43	0	4	1	0	0	0	0	6	4
Gwangju	4	27	154	1	4	2	0	0	0	1	5	5
Daejeon	6	36	147	0	0	2	0	0	0	0	1	5
Ulsan	9	42	192	0	1	2	0	0	0	1	2	2
Sejong	1	4	28	0	0	0	0	0	0	0	0	2
Gyonggi	23	125	416	2	16	13	0	0	0	0	29	68
Gangwon	2	12	46	1	10	3	0	0	0	0	12	12
Chungbuk	8	29	120	0	3	3	0	0	0	1	11	17
Chungnam	53	190	509	1	20	9	0	0	0	7	42	38
Jeonbuk	30	169	483	2	6	4	0	0	0	1	42	30
Jeonnam	41	316	675	2	14	11	0	0	0	3	53	45
Gyeongbuk	15	71	250	1	13	7	0	0	0	0	29	25
Gyeongnam	45	276	637	3	10	8	0	0	0	3	21	17
Jeju	6	33	21	0	1	0	0	0	0	0	0	1

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 November 2, 2019 (44th 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	27	1,510	1,326	4	53	40	523	20,810	25,831	5	239	182
Seoul	6	303	276	0	10	9	101	3,682	4,837	0	62	59
Busan	0	155	83	0	2	2	39	1,413	1,836	0	8	11
Daegu	1	73	59	0	2	3	32	927	1,270	0	16	9
Incheon	4	121	118	0	2	2	30	1,136	1,334	0	18	9
Gwangju	0	35	45	0	1	0	17	502	633	0	2	2
Daejeon	0	50	39	0	3	1	9	441	605	0	6	4
Ulsan	0	17	19	0	0	1	11	430	533	0	9	2
Sejong	0	5	5	0	0	0	2	62	76	0	0	1
Gyonggi	6	387	362	2	15	9	105	4,547	5,462	4	76	49
Gangwon	1	40	31	0	2	2	27	895	1,100	0	5	3
Chungbuk	0	32	32	2	3	1	10	598	787	0	6	2
Chungnam	3	56	46	0	0	2	32	976	1,197	0	7	5
Jeonbuk	2	43	28	0	2	1	21	816	982	0	6	3
Jeonnam	0	31	35	0	2	1	27	1,133	1,301	0	2	4
Gyeongbuk	1	67	54	0	4	3	29	1,596	1,859	0	2	7
Gyeongnam	2	70	62	0	5	3	27	1,376	1,714	0	10	10
Jeju	1	25	32	0	0	0	4	280	306	1	4	2

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 November 2, 2019 (44th 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	6	202	62	19	81	15	2	223	172	0	10	-
Seoul	1	19	4	4	32	4	1	9	10	0	2	-
Busan	0	2	1	0	1	1	0	1	2	0	1	-
Daegu	1	4	1	0	1	1	0	7	4	0	0	-
Incheon	0	7	1	3	7	2	0	3	3	0	4	-
Gwangju	1	8	3	3	7	0	0	1	1	0	0	-
Daejeon	0	6	2	0	0	1	0	4	3	0	0	-
Ulsan	0	1	2	0	1	0	0	8	3	0	0	-
Sejong	0	0	0	0	0	0	0	4	0	0	0	-
Gyonggi	1	34	8	3	14	3	0	42	30	0	2	-
Gangwon	0	0	0	0	2	0	1	30	24	0	0	-
Chungbuk	0	30	15	0	0	0	0	3	8	0	0	-
Chungnam	0	19	8	2	5	1	0	24	14	0	0	-
Jeonbuk	0	19	3	0	1	1	0	18	6	0	0	-
Jeonnam	1	28	6	2	6	0	0	16	10	0	1	-
Gyeongbuk	1	14	3	1	1	1	0	25	27	0	0	-
Gyeongnam	0	10	5	0	2	0	0	19	15	0	0	-
Jeju	0	1	0	1	1	0	0	9	12	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.
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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending November 2, 2019 (44th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 5.8 cases (=0.58%)
- Variation: increase from 4.5 cases in 43rd week of 2019
- Sentinel reporting sites: 200 hospitals/clinics

※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

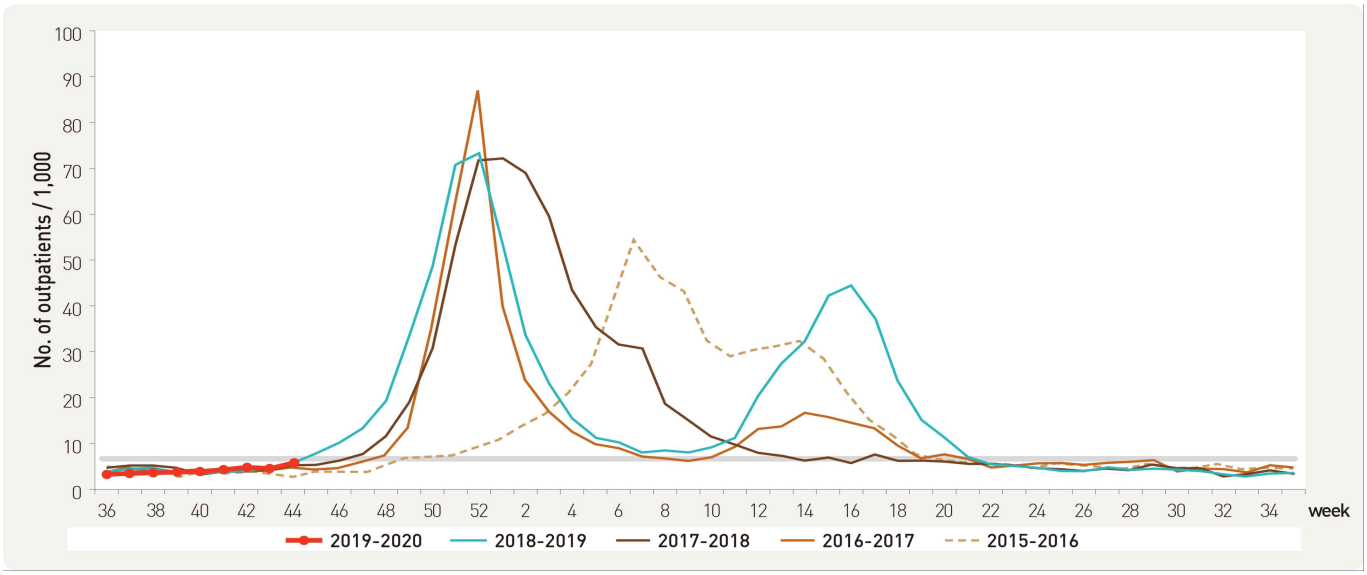


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending November 2, 2019 (44th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 3.3 cases
- Variation: decrease from 3.8 cases in 43rd week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

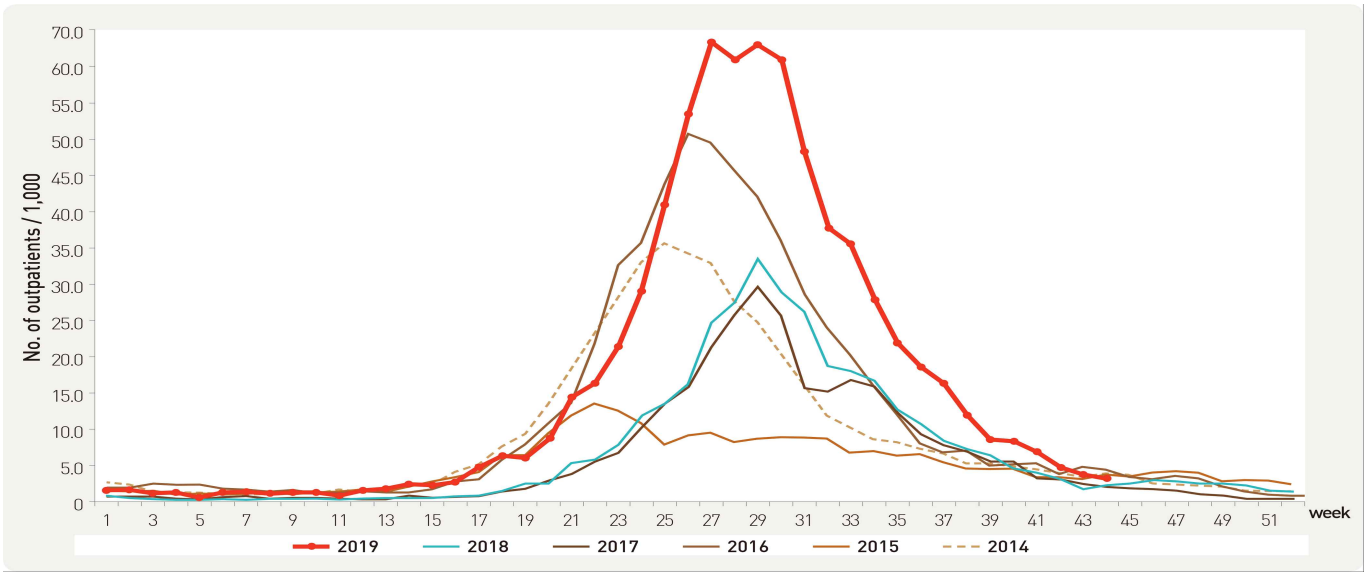


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending November 2, 2019 (44th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 14.8 cases
- Variation: decrease from 21.4 cases in 43rd week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

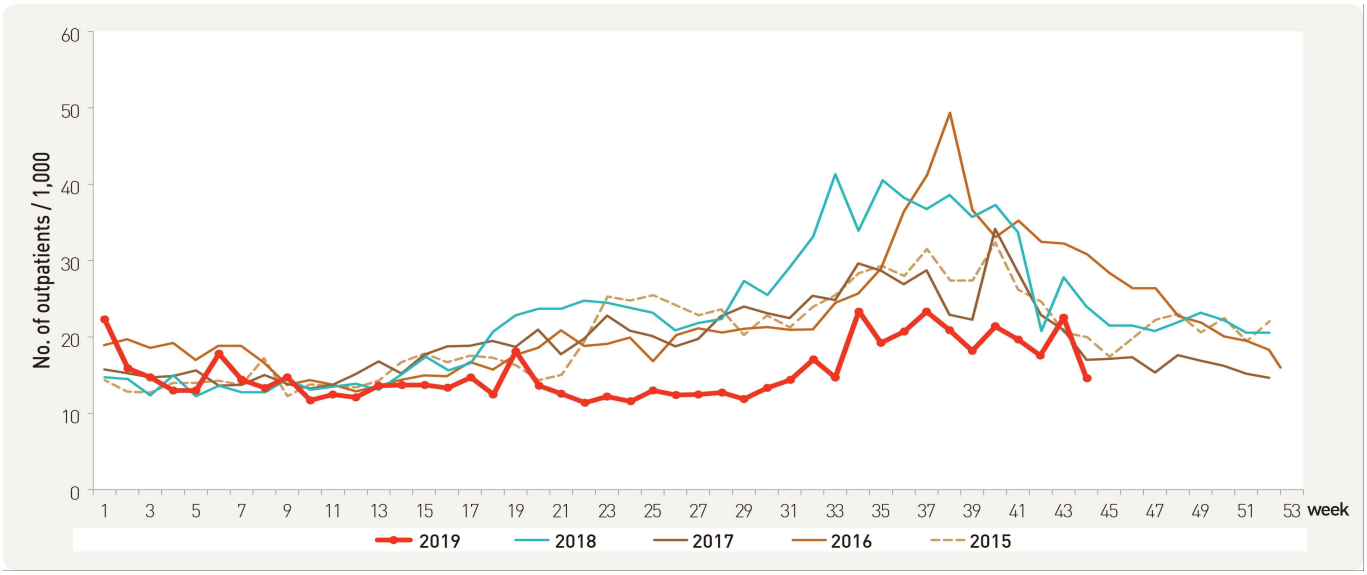


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.6 case
- Variation: no change from 0.6 case in 43rd week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

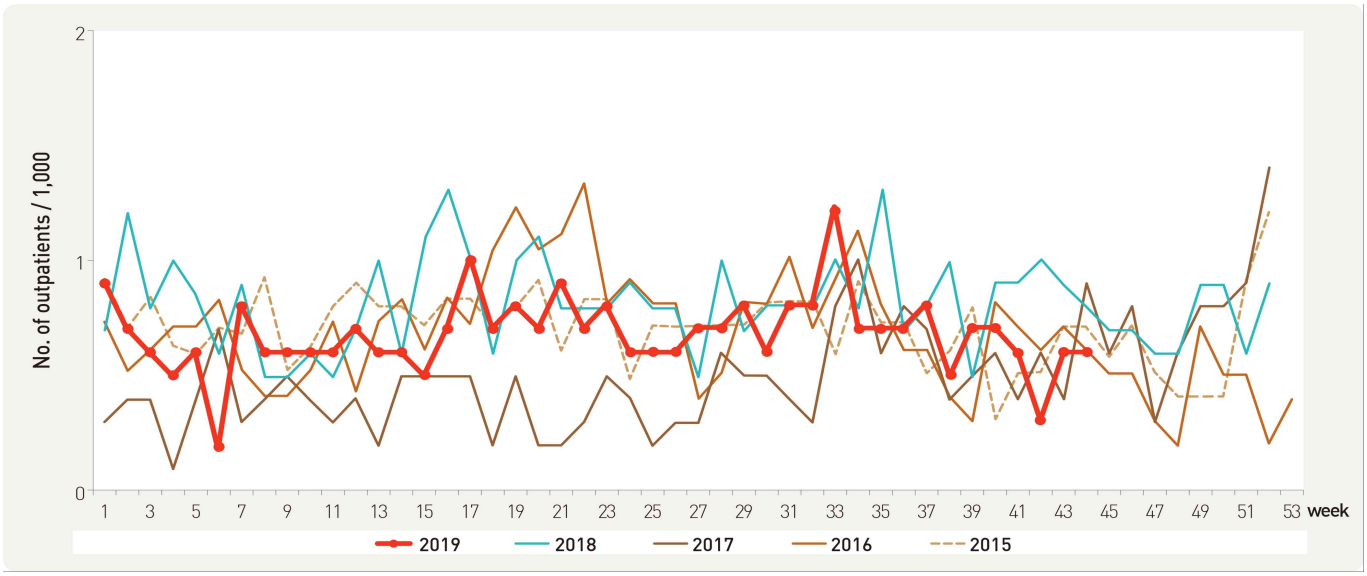


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases†, weeks ending November 2, 2019 (44th Week)

- Cases per sentinel: 2.9 for genital herpes, 2.2 for chlamydia, 1.8 for condyloma acuminata, 1.2 for gonorrhea

- Variation from 43rd week of 2019
  Increase: chlamydia (2.0 → 2.2), genital herpes (2.7 → 2.9)
  No change: gonorrhea (1.2 → 1.2)
  Decrease: condyloma acuminata (2.2 → 1.8)
- Sentinel reporting sites: 592 hospitals/clinics
  ※ No. of reported sites in 44th week: 29 for gonorrhea, 83 for chlamydia, 62 for genital herpes, 44 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§
1.2	8.2	9.3	2.2	30.5	24.8	2.9	43.5	29.1	1.8	23.2	17.6

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 November 2, 2019 (44th Week)

- No. of reported outbreaks: 8 with 57 patients (cumulative no. of outbreaks: 521 with 6,094 patients)
- Variation: increase from 5 in 43rd week of 2019
- Reporting sites: 254 health centers

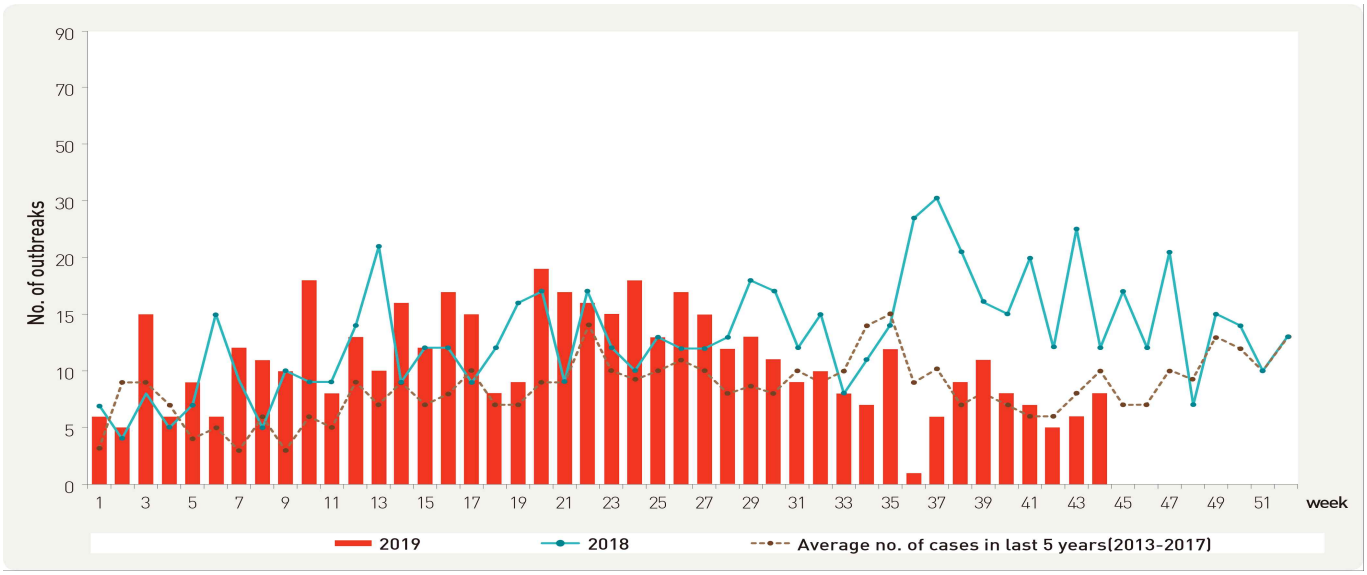


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending November 2, 2019 (44th Week)

- Weekly reported number of specimens positive for influenza: 14 cases (5.4%) / 260 specimens [influenza subtype: A(H1N1)pdm09 11 cases, A(H3N2) 3 cases, B 0 case]
- Variation (%p): increase from 9 cases (3.8%) / 237 specimens in 43rd week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

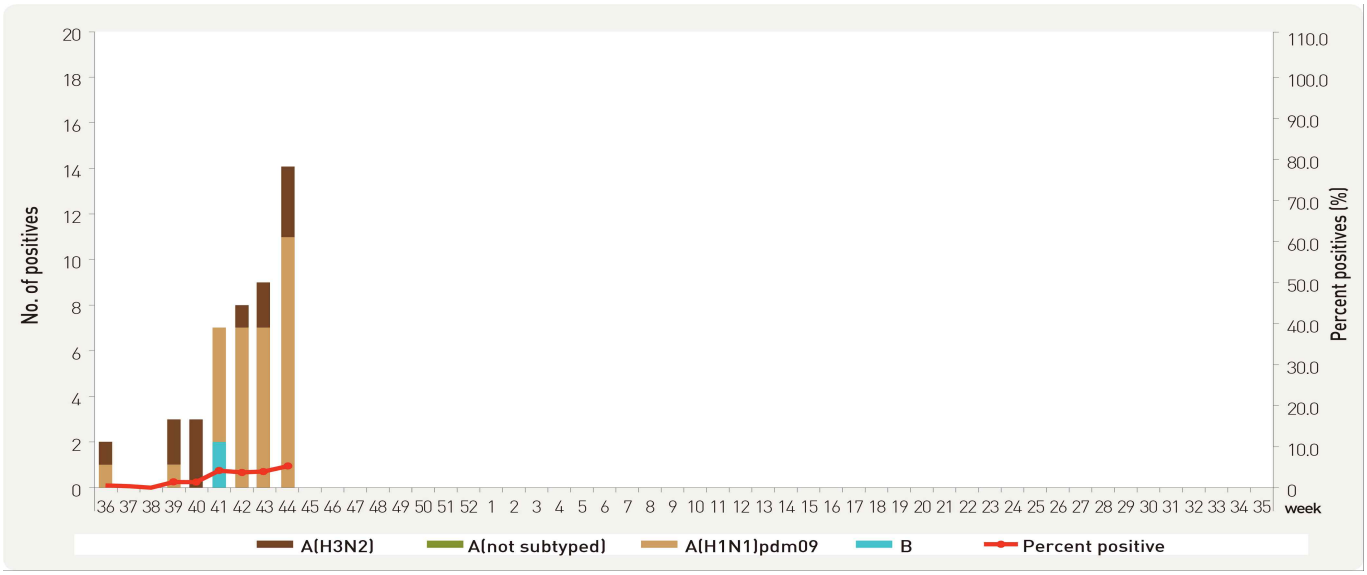


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending November 2, 2019 (44th Week)

- Detection rate: 53.1% (cumulative mean proportion during preceding three weeks plus current week: 46.7% out of 948 specimens)
- Variation (%p): increase from 46.0% in 43rd 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
41	219	41.1	9.1	5.9	3.2	3.2	0.0	18.3	0.0	1.4
42	232	45.7	6.9	4.7	3.9	3.4	1.3	22.0	1.3	2.2
43	237	46.0	10.1	2.5	5.5	3.8	1.3	21.9	0.4	0.4
44	260	53.1	9.6	1.5	5.0	5.4	3.8	26.5	1.2	0.0
Cum.※	948	46.7	9.0	3.6	4.4	4.0	1.7	22.4	0.7	0.9
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 October 6, 2019 – November 2, 2019 (Average no. of detected cases is 237 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 October 26, 2019 (43rd Week)

- Detection rate: 4.8% [cumulative mean proportion in 2019: 705 cases (29.3%) out of 2,406 specimens]
- Variation (%p): decrease from 11.1% in 42nd 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	40	42	1	(2.4)	0	(0.0)	1	(2.4)	0	(0.0)	2	(4.8)	4	(9.5)
	41	45	1	(2.2)	1	(2.2)	0	(0.0)	0	(0.0)	1	(2.2)	3	(6.7)
	42	36	1	(2.8)	1	(2.8)	1	(2.8)	1	(2.8)	0	(0.0)	4	(11.1)
	43	21	1	(4.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(4.8)
Cum. 2019		2,406	457	(19.0)	121	(5.0)	38	(1.6)	48	(2.0)	41	(1.7)	705	(29.3)

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

2. Acute gastroenteritis-causing bacteria, weeks ending October 26, 2019 (43rd Week)

- Detection rate: 24.0% [cumulative mean proportion in 2019: 1,122 cases (15.6%) out of 7,209 specimens]
- Variation (%p): increase from 18.7% in 42nd 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.parahaemolyticus*	*V. cholerae*	*Campylobacter* spp.	*C.perfringens*	*S. aureus*	*B. cereus*	Total
2019	40	145	4 (2.8)	9 (6.2)	0 (0)	0 (0)	0 (0)	4 (2.8)	5 (3.4)	0 (0)	3 (2.1)	25 (17.2)
	41	113	7 (6.2)	12 (10.6)	0 (0)	0 (0)	0 (0)	5 (4.4)	5 (4.4)	4 (3.5)	2 (1.8)	36 (31.9)
	42	123	5 (4.1)	5 (4.1)	0 (0)	0 (0)	0 (0)	2 (1.6)	2 (1.6)	6 (4.9)	3 (2.4)	23 (18.7)
	43	75	3 (4.0)	5 (6.7)	0 (0)	0 (0)	0 (0)	1 (1.3)	5 (6.7)	2 (2.7)	1 (1.3)	18 (24.0)
Cum. 2019		7,209	231 (3.2)	385 (5.3)	1 (0.01)	4 (0.06)	0 (0)	100 (1.4)	144 (2.0)	139 (1.9)	110 (1.5)	1,122 (15.6)

* 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 2019 (70 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending October 26, 2019 (43rd Week)

- Detection rate: 23.1% (3 cases / 13 specimens) [cumulative mean proportion in 2019: 39.3% (647 cases / 1,648 specimens)]
  - Aseptic meningitis: 1 case (Cum. 2019: 250 cases)
  - HFMD and herpangina: 1 case (Cum. 2019: 244 cases)
  - HFMD with complications: 0 case (Cum. 2019: 14 cases)
  - Other: 1 case (Cum. 2019: 139 cases)
- Variation (%p): increase from 21.4% in 42nd week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

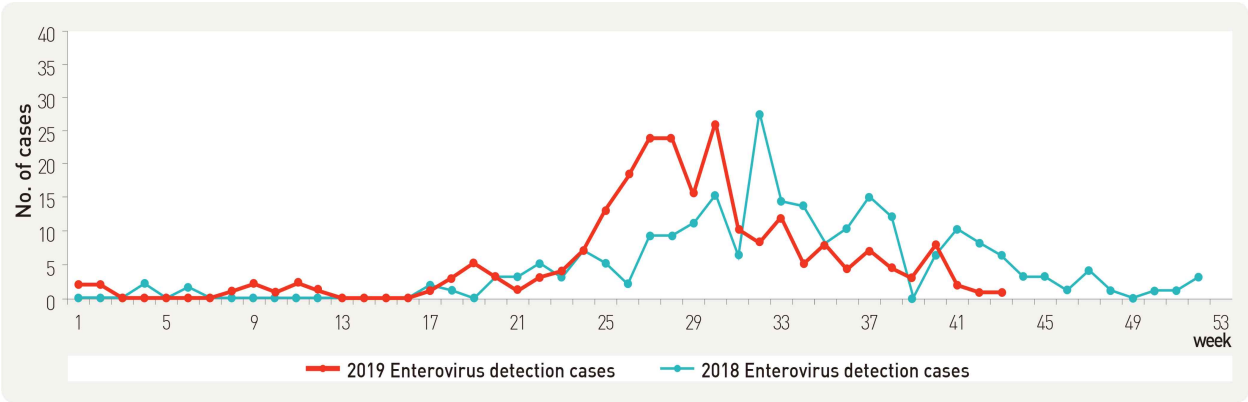


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

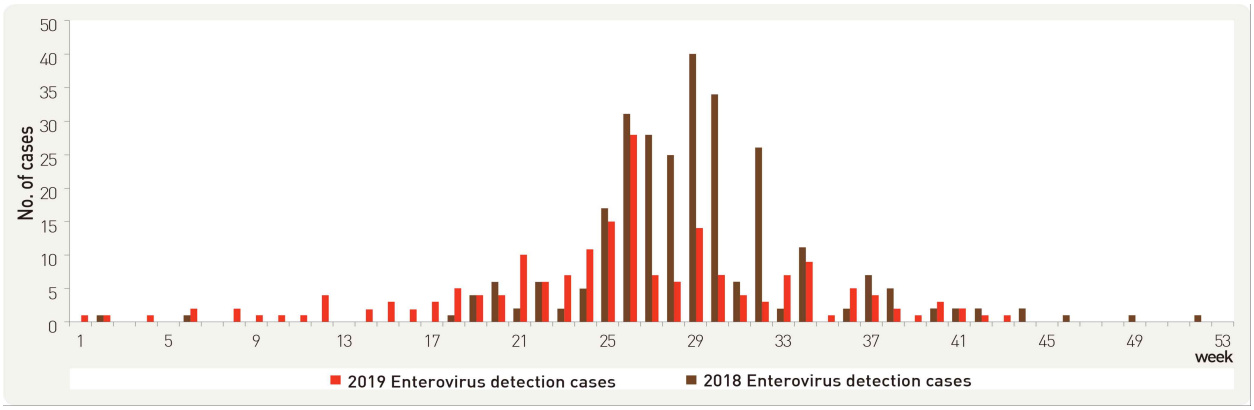


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

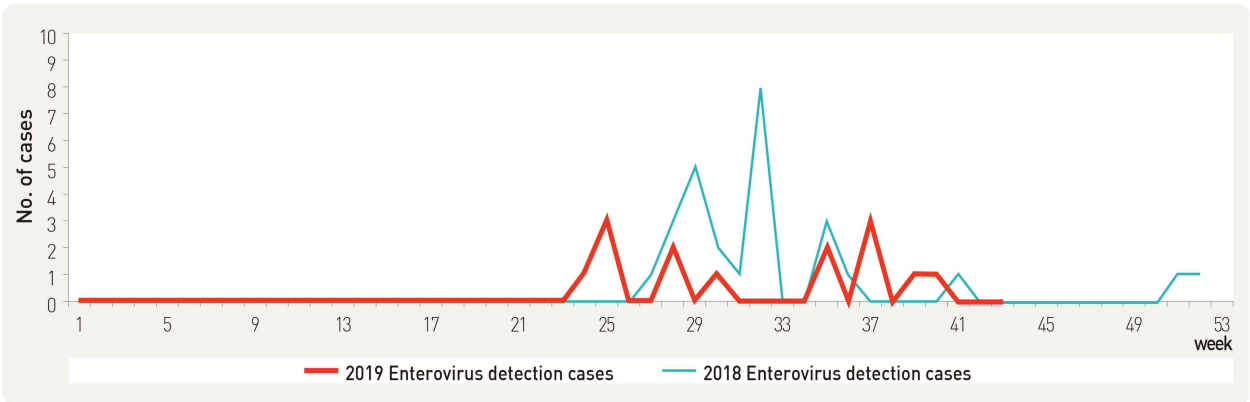


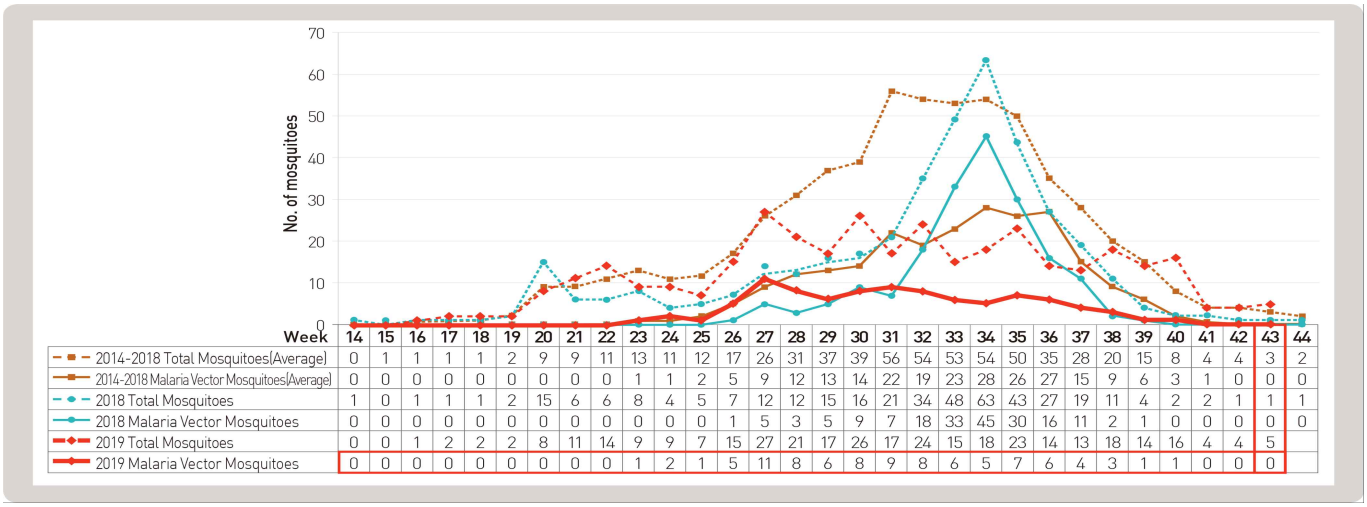
Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending October 26, 2019 (43rd Week)

- No. of malaria vector mosquitoes: 0
- Variation: no change from 0 in 42nd 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	27	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	24	15	18	23	14	13	18	14	16	4	4	5	
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	

Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

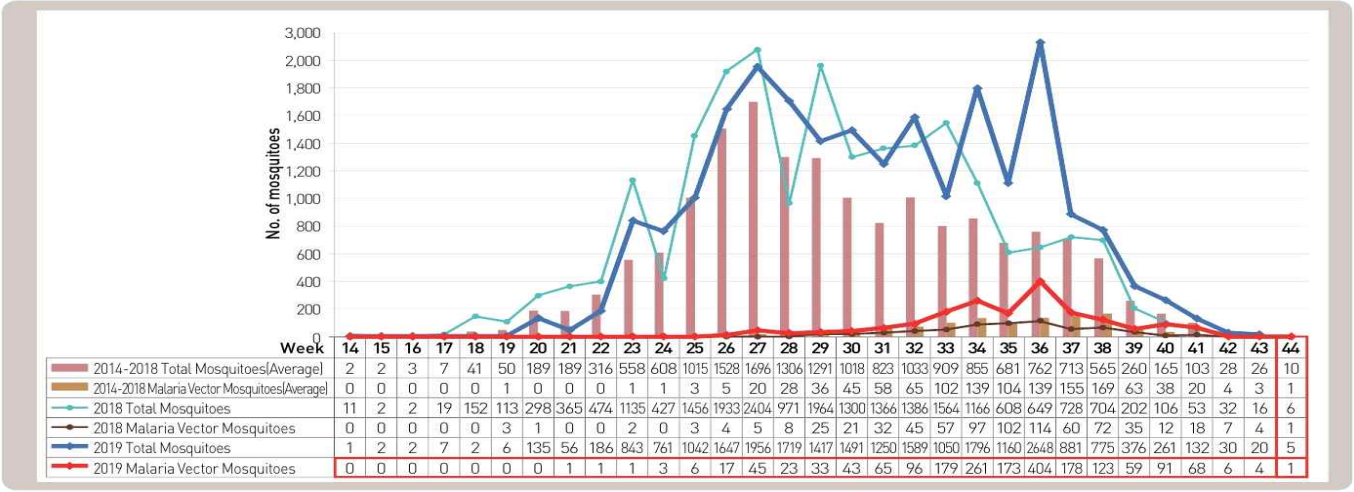
1. Japanese encephalitis vector mosquitoes, weeks ending November 2, 2019 (44th Week)

- No. of Japanese encephalitis vector mosquitoes: 1

※ JEV: Japanese encephalitis vector

- Variation: decrease from 4 in 43rd 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	0	1	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	1050	1796	1160	2648	881	775	376	261	132	30	20	5
2019 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	1	1	1	3	6	17	45	23	33	43	65	96	179	261	173	404	178	123	59	91	68	6	4	1

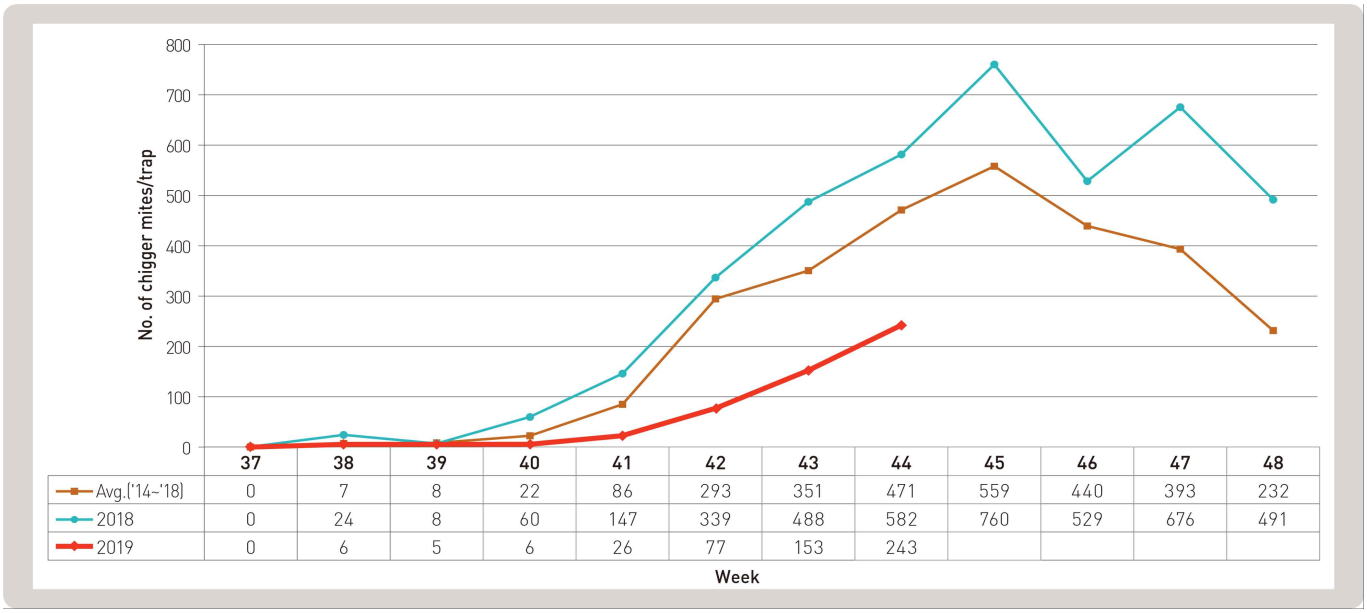
Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

IX. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending November 2, 2019 (44th Week)

- No. of chigger mites: 243
- Variation: increase from 153 in 43rd week of 2019
- Sentinel reporting sites: 11 city/province (16 sites)

※ No. of chigger mites: total number of chigger in 320 traps



	37	38	39	40	41	42	43	44	45	46	47	48
Avg.('14~'18)	0	7	8	22	86	293	351	471	559	440	393	232
2018	0	24	8	60	147	339	488	582	760	529	676	491
2019	0	6	5	6	26	77	153	243				

Figure 12. Weekly incidences of scrub typhus vector chiggers in 2019

X. Vector Surveillance: Severe fever with thrombocytopia syndrome vector ticks

1. Severe fever with thrombocytopenia syndrome vector ticks, weeks ending November 2, 2019 (44th Week, October)

- No. of severe fever with thrombocytopenia syndrome vector ticks per trap: 33.5
  ※ T.I.: Trap index (No. of ticks / trap)
- Variation: decrease from 158.9 in 39th week (September) of 2019
- Sentinel reporting sites: 11 city/province (16 sites)
  ※ No. of vector ticks: average number of vector ticks/trap/day

Month	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
2015-2018 T.I. [Average]	27.9	53.1	55.6	50.1	82.3	77.1	21.1	2.9
2018 T.I.	35.8	56.7	62.7	67.7	154.2	156.5	38.5	5.2
2019 T.I.	54.4	77.5	61.2	49.5	123.0	158.9	33.5	

Figure 13. Monthly incidences of severe fever with thrombocytopenia syndrome vector ticks in 2019

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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