Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

Vol. 12, No. 51 **December 19, 2019**

Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending December 14, 2019 (50th 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	1	0	2	5	4	0	0	
Typhoid fever	2	102	3	213	128	121	121	251	
Paratyphoid fever	3	60	0	47	73	56	44	37	
Shigellosis	8	147	2	191	112	113	88	110	Philippines(3)
EHEC	0	159	1	121	138	104	71	111	
Viral hepatitis A	82	17,502	45	2,437	4,419	4,679	1,804	1,307	Russia(1), Philippines(1)
Category Ⅱ									
Pertussis	16	475	8	980	318	129	205	88	
Tetanus	0	37	0	31	34	24	22	23	
Measles	4	282	1	15	7	18	7	442	
Mumps	274	15,624	419	19,237	16,924	17,057	23,448	25,286	
Rubella	2	13	1	0	7	11	11	11	
Viral hepatitis B (Acute)	6	371	7	392	391	359	155	173	
Japanese encephalitis	0	33	0	17	9	28	40	26	
Varicella	2,620	77,427	2,374	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	494	11	670	523	441	228	36	
Category Ⅲ									
Malaria	3	559	2	576	515	673	699	638	Senegal(1), Cameroon(1)
Scarlet fever§	158	7,328	289	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	1	16	0	14	17	6	6	5	
Legionellosis	10	447	3	305	198	128	45	30	
Vibrio vulnificus sepsis	0	40	0	47	46	56	37	61	
Murine typhus	1	22	0	16	18	18	15	9	
Scrub typhus	99	3,935	208	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	2	148	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	18	411	17	433	531	575	384	344	
Syphilis	37	1,697	34	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	1	68	1	53	36	42	33	65	
Tuberculosis	508	23,349	575	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	22	954	19	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	163	9,392	-	10,811	6,396	-	-	-	
VRSA	0	2	-	0	0	-	-	-	
CRE	274	14,740	-	11,954	5,717	-	-	-	

1. *(Continued)* Reported cases, week ending December 14, 2019 (50th 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	269	3	159	171	313	255	165	Philippines(2), Maldives(1), Vietnam(1), Thailand(1)
Q fever	1	220	1	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	0	21	1	23	31	27	9	13	
Melioidosis	0	7	0	2	2	4	4	2	
Chikungunya fever	0	16	0	3	5	10	2	1	
SFTS	0	223	1	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	2	10	-	3	11	16	-	-	Indonesia(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 December 14, 2019 (50th 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	1	2	2	102	161	3	60	52	8	147	116
Seoul	0	1	0	0	19	28	1	12	10	1	45	26
Busan	0	0	1	2	8	10	1	5	6	2	13	7
Daegu	0	0	0	0	2	5	0	3	2	0	8	6
Incheon	0	0	0	0	7	8	0	1	3	0	8	14
Gwangju	0	0	0	0	0	6	0	3	2	0	3	2
Daejeon	0	0	0	0	7	8	0	2	2	0	4	2
Ulsan	0	0	0	0	3	2	0	1	1	1	4	1
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyonggi	0	0	0	0	30	33	0	14	9	3	34	19
Gangwon	0	0	0	0	1	5	0	2	2	0	1	2
Chungbuk	0	0	0	0	3	4	0	3	2	0	1	3
Chungnam	0	0	0	0	5	9	0	0	1	0	2	6
Jeonbuk	0	0	0	0	3	3	0	2	3	0	2	3
Jeonnam	0	0	0	0	2	8	0	0	3	0	9	6
Gyeongbuk	0	0	0	0	4	6	0	3	2	1	2	6
Gyeongnam	0	0	1	0	8	22	1	8	3	0	8	11
Jeju	0	0	0	0	0	3	0	1	1	0	3	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 December 14, 2019 (50th 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	0	159	108	82	17,502	2,813	16	475	333	0	37	24
Seoul	0	36	14	12	3,126	553	1	69	45	0	2	3
Busan	0	3	4	4	494	118	0	28	30	0	2	2
Daegu	0	6	9	2	188	61	1	21	9	0	6	1
Incheon	0	12	9	10	985	240	3	19	20	0	0	1
Gwangju	0	9	16	0	161	81	0	25	16	0	2	1
Daejeon	0	2	3	2	2,667	130	0	16	5	0	2	0
Ulsan	0	5	6	0	82	28	0	10	10	0	2	0
Sejong	0	3	1	0	391	18	0	6	5	0	1	0
Gyonggi	0	31	18	30	5,371	855	8	78	53	0	6	2
Gangwon	0	5	3	5	263	66	0	6	3	0	1	1
Chungbuk	0	9	2	3	1,075	84	0	9	7	0	1	1
Chungnam	0	4	3	3	1,432	178	0	6	11	0	3	1
Jeonbuk	0	6	2	6	556	141	0	15	5	0	1	1
Jeonnam	0	13	7	1	161	88	0	35	15	0	2	4
Gyeongbuk	0	6	3	1	251	70	1	46	21	0	4	3
Gyeongnam	0	4	4	2	230	85	2	78	73	0	2	3
Jeju	0	5	4	1	69	17	0	8	5	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 December 14, 2019 (50th 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	4	282	106	274	15,624	19,634	2	13	18	6	371	283
Seoul	1	40	25	30	2,012	1,860	0	2	3	1	61	48
Busan	0	8	4	19	862	1,402	0	0	1	0	33	17
Daegu	0	20	3	9	675	619	0	0	1	0	8	10
Incheon	0	14	12	27	784	798	0	1	0	0	19	16
Gwangju	0	3	1	7	468	1,527	0	0	1	0	5	6
Daejeon	2	38	4	9	464	420	0	1	1	0	13	9
Ulsan	0	4	1	7	484	626	0	0	0	1	5	8
Sejong	0	2	0	2	90	67	0	0	0	0	0	0
Gyonggi	0	95	33	73	4,528	4,545	2	4	6	1	87	72
Gangwon	0	7	1	15	511	622	0	0	0	1	12	9
Chungbuk	0	2	2	9	415	377	0	1	1	0	18	9
Chungnam	0	5	4	10	706	733	0	0	1	0	19	14
Jeonbuk	0	9	1	7	711	1,797	0	0	0	1	16	18
Jeonnam	0	11	9	9	600	978	0	1	0	0	18	13
Gyeongbuk	0	11	5	16	816	846	0	2	2	1	28	15
Gyeongnam	1	10	1	19	1,236	2,176	0	0	1	0	22	17
Jeju	0	3	0	6	262	241	0	1	0	0	7	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 December 14, 2019 (50th 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	33	24	2,620	77,427	59,142	3	559	619	158	7,328	11,980
Seoul	0	6	9	350	9,166	6,876	3	100	86	28	1,219	1,494
Busan	0	0	1	110	3,709	3,417	0	14	8	8	412	884
Daegu	0	3	1	136	4,200	3,147	0	2	9	5	220	461
Incheon	0	1	1	95	3,601	3,191	0	87	98	5	363	546
Gwangju	0	2	1	86	2,749	1,917	0	4	4	5	382	561
Daejeon	0	1	1	58	1,905	1,690	0	5	4	6	316	430
Ulsan	0	0	0	28	1,859	1,720	0	2	4	6	297	499
Sejong	0	0	0	12	831	504	0	1	1	2	50	58
Gyonggi	0	8	5	674	22,131	16,860	0	294	345	53	2,124	3,486
Gangwon	0	2	0	76	1,644	1,839	0	15	18	2	118	191
Chungbuk	0	1	1	73	1,880	1,475	0	7	5	3	119	221
Chungnam	0	4	1	66	2,866	2,265	0	9	8	7	319	545
Jeonbuk	0	0	0	151	2,992	2,677	0	3	5	3	231	430
Jeonnam	0	2	1	103	2,933	2,547	0	0	4	5	236	469
Gyeongbuk	0	1	1	209	5,166	2,772	0	5	8	8	323	635
Gyeongnam	0	2	1	333	8,347	4,762	0	8	9	11	498	935
Jeju	0	0	0	60	1,448	1,483	0	3	3	1	101	135

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 December 14, 2019 (50th 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	1	16	9	10	447	131	0	40	50	1	22	15
Seoul	0	3	3	2	132	38	0	6	5	0	2	2
Busan	0	0	1	0	19	8	0	3	5	0	0	1
Daegu	0	0	1	0	15	4	0	0	1	0	0	0
Incheon	0	1	0	0	34	10	0	0	4	0	4	1
Gwangju	0	0	0	0	14	0	0	0	1	0	1	2
Daejeon	0	0	0	0	4	1	0	0	1	0	0	0
Ulsan	0	1	0	0	3	3	0	1	1	0	2	2
Sejong	0	1	0	0	0	0	0	0	0	0	0	0
Gyonggi	1	6	2	4	120	29	0	10	9	0	4	2
Gangwon	0	2	0	1	11	7	0	0	0	0	0	0
Chungbuk	0	0	0	0	12	5	0	2	1	0	1	1
Chungnam	0	1	0	0	12	4	0	1	3	0	0	1
Jeonbuk	0	0	0	1	7	2	0	2	2	0	1	0
Jeonnam	0	0	0	0	17	3	0	7	7	0	2	1
Gyeongbuk	0	0	1	2	33	9	0	1	3	0	1	0
Gyeongnam	0	1	1	0	8	5	0	6	6	0	0	2
Jeju	0	0	0	0	6	3	0	1	1	1	4	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 December 14, 2019 (50th 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	99	3,935	9,092	2	148	96	0	3	4	18	411	426
Seoul	4	115	266	0	13	5	0	2	1	0	12	18
Busan	13	273	612	0	7	5	0	0	0	0	19	11
Daegu	1	66	193	0	2	1	0	0	0	0	3	3
Incheon	0	50	87	0	4	1	0	0	0	1	9	7
Gwangju	2	78	296	0	4	2	0	0	0	0	7	8
Daejeon	1	115	273	0	0	2	0	0	0	1	3	6
Ulsan	6	138	428	0	1	2	0	0	1	0	2	2
Sejong	0	11	54	0	1	0	0	0	0	0	0	3
Gyonggi	6	288	765	1	20	17	0	0	0	4	49	95
Gangwon	0	28	78	0	10	4	0	0	0	1	16	16
Chungbuk	0	92	228	0	5	4	0	0	0	0	18	24
Chungnam	5	439	963	0	26	12	0	0	0	2	55	57
Jeonbuk	9	395	1,006	1	8	5	0	0	0	3	60	43
Jeonnam	15	649	1,511	0	15	17	0	1	0	2	76	65
Gyeongbuk	3	277	569	0	17	8	0	0	1	3	41	37
Gyeongnam	24	823	1,675	0	14	11	0	0	0	0	39	30
Jeju	10	98	88	0	1	0	0	0	1	1	2	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 December 14, 2019 (50th 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	37	1,697	1,535	1	68	46	508	23,349	29,323	5	269	206
Seoul	2	335	322	0	13	10	91	4,180	5,499	2	71	65
Busan	2	171	98	0	2	3	42	1,620	2,074	0	10	13
Daegu	3	87	69	0	3	3	24	1,030	1,433	0	16	10
Incheon	6	133	133	0	3	2	33	1,285	1,514	1	19	10
Gwangju	3	40	52	0	1	0	13	562	718	1	3	3
Daejeon	2	61	46	0	4	1	13	484	679	0	7	5
Ulsan	0	19	21	0	0	1	11	466	604	0	12	2
Sejong	1	6	6	0	0	0	1	66	84	0	0	1
Gyonggi	8	439	424	1	20	10	123	5,151	6,207	1	83	57
Gangwon	0	45	36	0	2	2	21	994	1,254	0	5	3
Chungbuk	1	36	35	0	2	1	12	659	896	0	6	2
Chungnam	0	61	50	0	1	3	19	1,083	1,357	0	7	6
Jeonbuk	2	51	34	0	4	1	18	912	1,115	0	10	4
Jeonnam	1	35	39	0	4	1	33	1,267	1,490	0	2	4
Gyeongbuk	3	72	63	0	4	4	27	1,756	2,093	0	3	8
Gyeongnam	3	79	70	0	5	4	23	1,518	1,955	0	10	11
Jeju	0	27	37	0	0	0	4	316	349	0	5	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 December 14, 2019 (50th 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	1	220	72	0	21	20	0	223	180	2	10	-
Seoul	1	20	6	0	9	5	0	9	11	1	3	-
Busan	0	2	2	0	0	1	0	1	2	0	1	-
Daegu	0	5	1	0	0	1	0	7	5	0	0	-
Incheon	0	7	1	0	1	2	0	3	3	0	2	-
Gwangju	0	8	3	0	0	0	0	1	1	0	0	-
Daejeon	0	7	2	0	0	1	0	4	3	1	1	-
Ulsan	0	1	2	0	0	0	0	8	3	0	0	-
Sejong	0	1	0	0	0	0	0	4	1	0	0	-
Gyonggi	0	35	8	0	6	4	0	42	30	0	2	-
Gangwon	0	0	0	0	0	1	0	30	25	0	0	-
Chungbuk	0	38	17	0	0	0	0	3	9	0	0	-
Chungnam	0	21	10	0	1	1	0	24	14	0	0	-
Jeonbuk	0	19	3	0	0	1	0	18	6	0	0	-
Jeonnam	0	30	7	0	2	0	0	16	11	0	1	-
Gyeongbuk	0	16	3	0	0	2	0	25	28	0	0	-
Gyeongnam	0	10	7	0	2	1	0	19	16	0	0	-
Jeju	0	0	0	0	0	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 December 14, 2019 (50th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 28.5 cases (=2.85%)
- Variation: increase from 19.5 cases in 49th week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
  ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

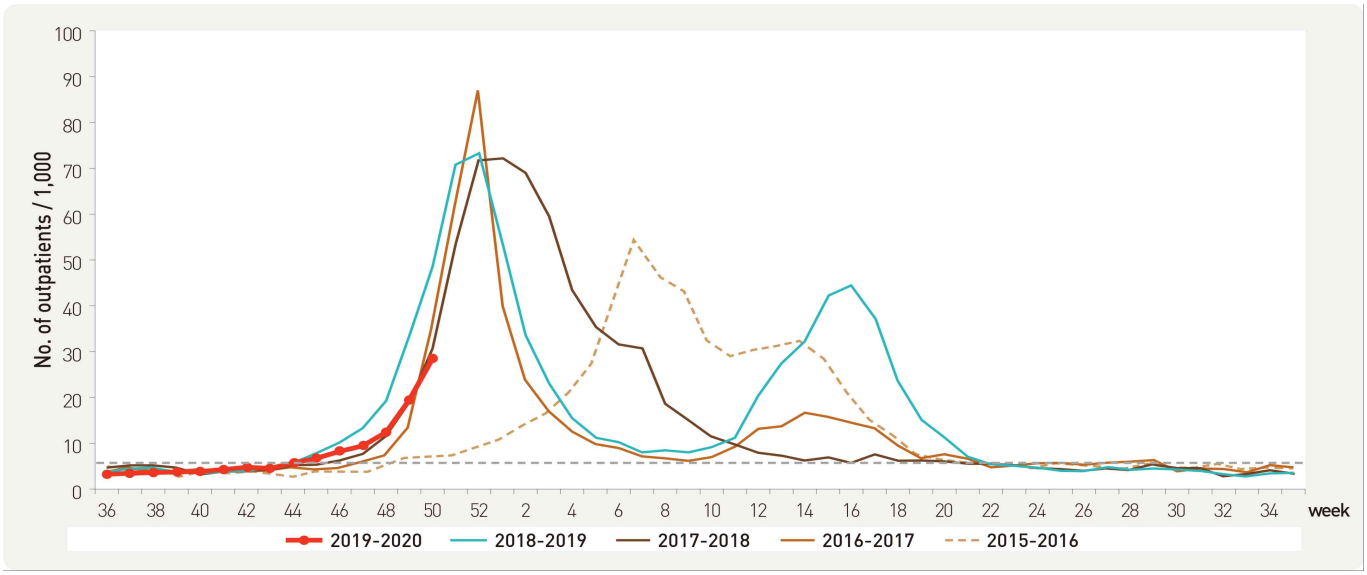


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2015-2016 to 2019-2020 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending December 14, 2019 (50th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 2.1 cases
- Variation: increase from 1.8 cases in 49th week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

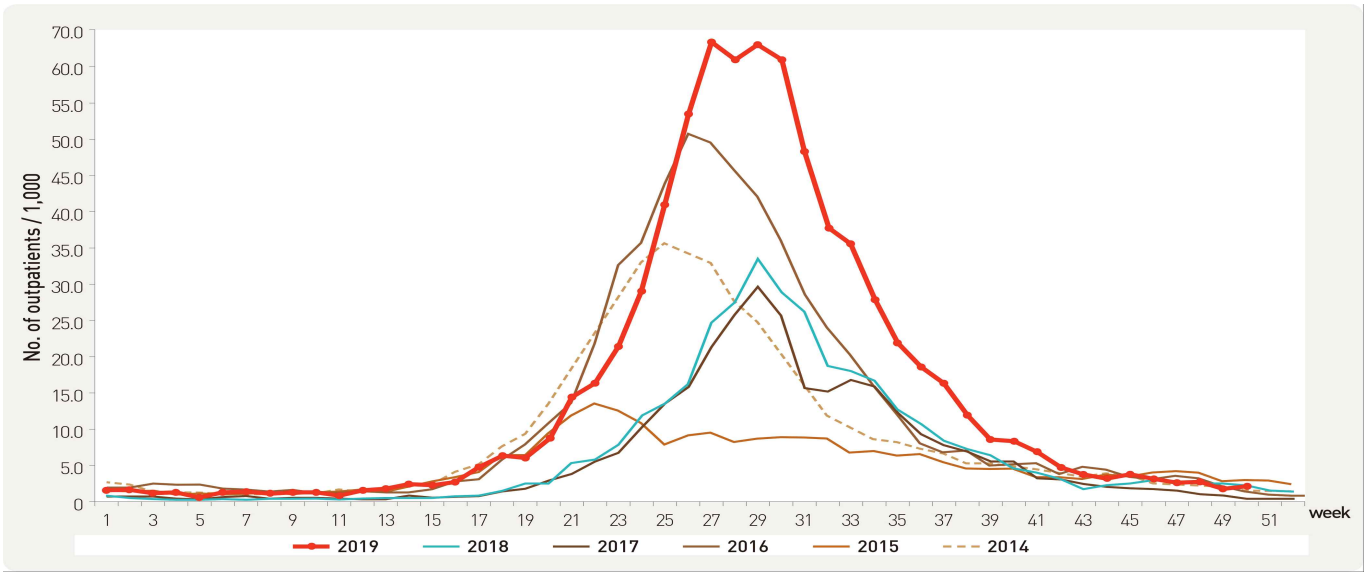


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending December 14, 2019 (50th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 14.4 cases
- Variation: increase from 13.5 cases in 49th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

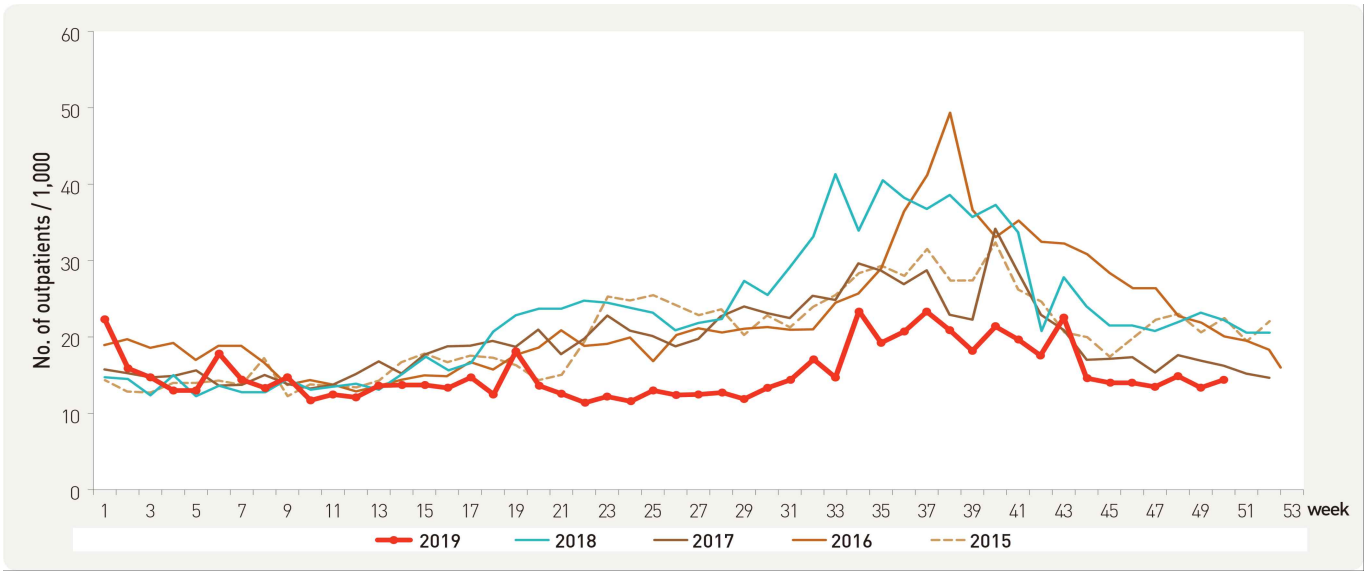


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.4 case
- Variation: increase from 0.3 case in 49th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

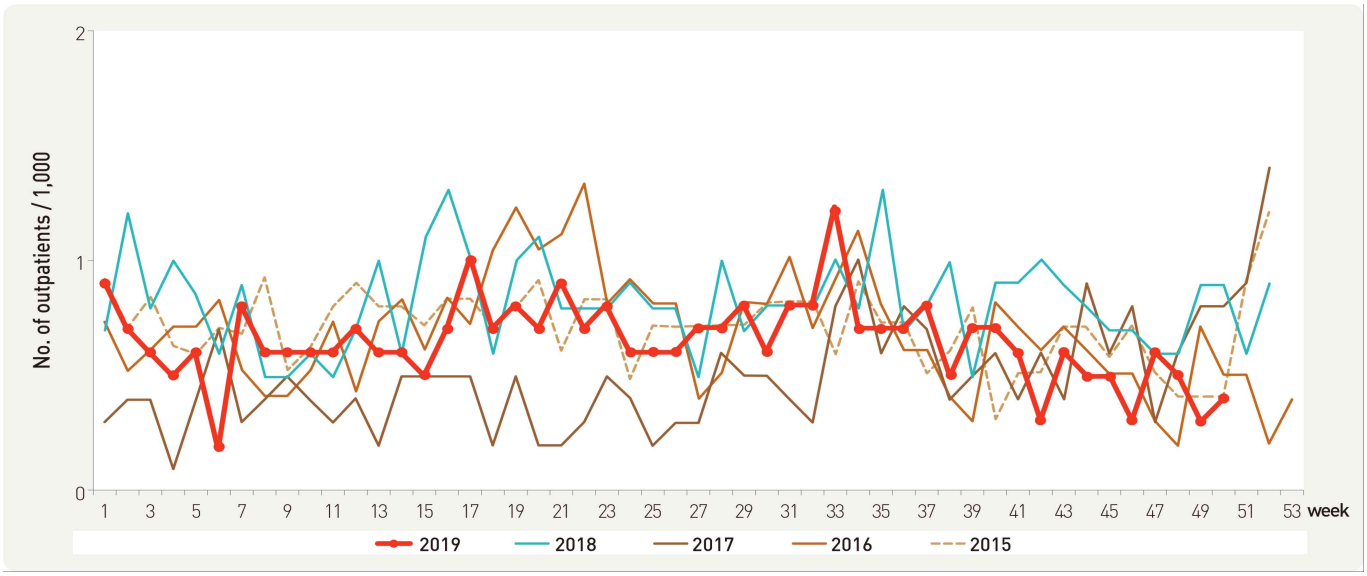


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases†, weeks ending December 14, 2019 (50th Week)

- Cases per sentinel: 2.0 for genital herpes, 2.0 for chlamydia, 2.0 for condyloma acuminata, 1.8 for gonorrhea

- Variation from 49th week of 2019

No change: gonorrhea (1.8 → 1.8)

Decrease: chlamydia (3.3 → 2.0), genital herpes (3.5 → 2.0), condyloma acuminata (2.8 → 2.0)

- Sentinel reporting sites: 592 hospitals/clinics

※ No. of reported sites in 50th week: 20 for gonorrhea, 57 for chlamydia, 43 for genital herpes, 40 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§
1.8	8.9	10.0	2.0	33.6	27.9	2.0	47.9	32.2	2.0	25.4	19.6

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 December 14, 2019 (50th Week)

- No. of reported outbreaks: 6 with 63 patients (cumulative no. of outbreaks: 576 with 6,820 patients)
- Variation: decrease from 8 in 49th week of 2019
- Reporting sites: 254 health centers

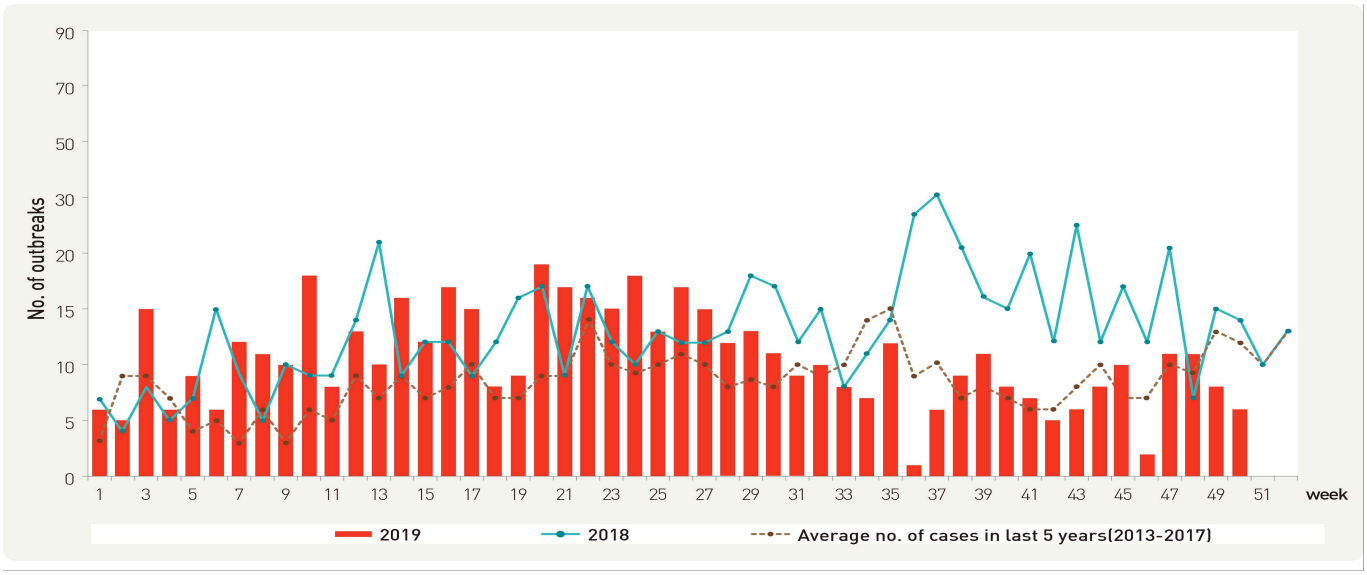


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending December 14, 2019 (50th Week)

- Weekly reported number of specimens positive for influenza: 50 cases (16.2%) / 308 specimens [influenza subtype: A(H1N1)pdm09 32 cases, A(H3N2) 15 cases, B 3 cases]
- Variation (%p): decrease from 59 cases (18.6%) / 318 specimens in 49th week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

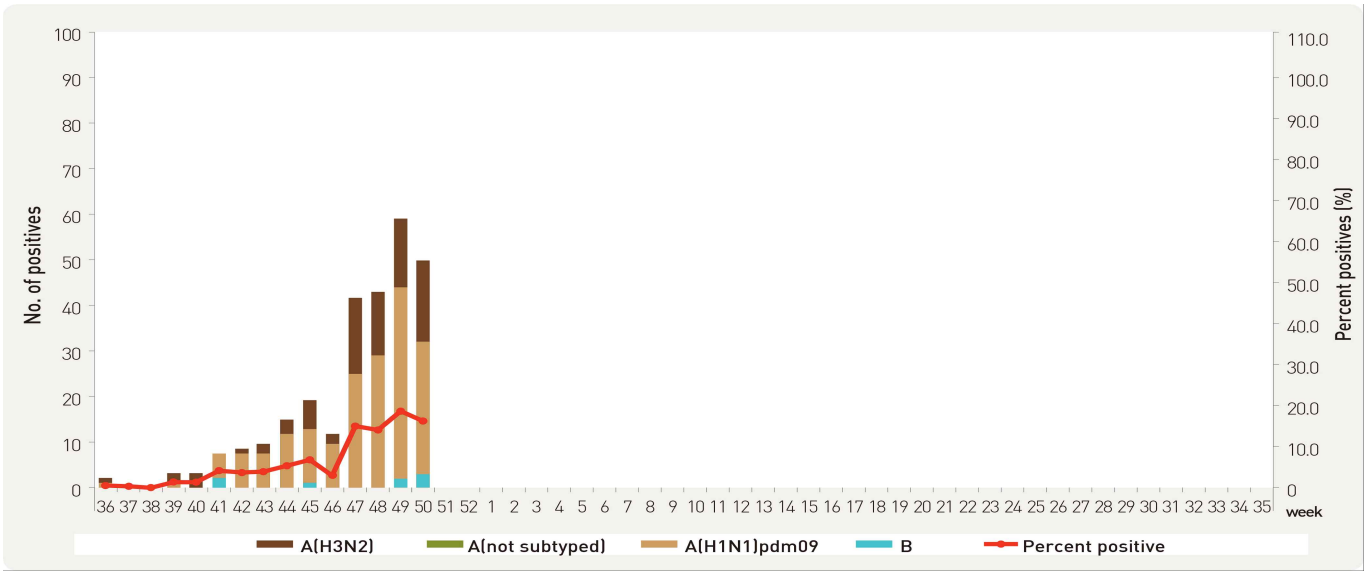


Figure 6. Number of specimens positive for influenza by subtype, 2019-2020 flu season

2. Respiratory viruses, weeks ending December 14, 2019 (50th Week)

- Detection rate: 66.6% (cumulative mean proportion during preceding three weeks plus current week: 62.7% out of 1,207 specimens)
- Variation (%p): increase from 64.2% in 49th 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
47	272	64.0	11.0	1.1	10.7	15.4	3.7	20.6	1.5	0.0
48	309	56.3	9.1	2.3	10.4	13.9	3.6	15.2	0.6	1.3
49	318	64.2	11.9	1.6	9.7	18.6	4.4	15.4	1.9	0.6
50	308	66.6	9.1	1.6	15.3	16.2	8.1	14.0	1.0	1.3
Cum.※	1,207	62.7	10.3	1.6	11.5	16.1	5.0	16.2	1.2	0.8
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 November 17, 2019 – December 14, 2019 (Average no. of detected cases is 302 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 December 7, 2019 (49th Week)

- Detection rate: 22.6% [cumulative mean proportion in 2019: 732 cases (28.3%) out of 2,586 specimens]
- Variation (%p): increase from 13.8% in 48th 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	46	22	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(4.5)	1	(4.5)
	47	19	1	(5.3)	1	(5.3)	0	(0.0)	2	(10.5)	0	(0.0)	4	(21.1)
	48	29	0	(0.0)	2	(6.9)	1	(3.4)	1	(3.4)	0	(0.0)	4	(13.8)
	49	31	5	(16.1)	1	(3.2)	0	(0.0)	1	(3.2)	0	(0.0)	7	(22.6)
Cum. 2019		2,586	464	(17.9)	129	(5.0)	40	(1.5)	55	(2.1)	44	(1.7)	732	(28.3)

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

2. Acute gastroenteritis-causing bacteria, weeks ending December 7, 2019 (49th Week)

- Detection rate: 9.9% [cumulative mean proportion in 2019: 1,250 cases (15.5%) out of 8,052 specimens]
- Variation (%p): decrease from 11.5% in 48th 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	46	129	2 (1.6)	2 (1.6)	0 (0)	0 (0)	0 (0)	1 (0.8)	4 (3.1)	2 (1.6)	0 (0)	11 (8.5)
	47	127	4 (3.1)	8 (6.3)	0 (0)	1 (0.8)	0 (0)	1 (0.8)	6 (4.7)	8 (6.3)	0 (0)	28 (22.0)
	48	130	3 (2.3)	2 (1.5)	0 (0)	1 (0.8)	0 (0)	0 (0)	5 (3.8)	4 (3.1)	0 (0)	15 (11.5)
	49	111	1 (0.9)	4 (3.6)	0 (0)	0 (0)	0 (0)	1 (0.9)	2 (1.8)	3 (2.7)	0 (0)	11 (9.9)
Cum. 2019		8,052	258 (3.2)	419 (5.2)	1 (0.01)	7 (0.08)	0 (0)	108 (1.3)	171 (2.1)	162 (2.0)	115 (1.4)	1,250 (15.5)

* 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 December 7, 2019 (49th Week)

- Detection rate: 40.0% (4 cases / 10 specimens) [cumulative mean proportion in 2019: 37.9% (667 cases / 1,761 specimens)]
  - Aseptic meningitis: 2 cases (Cum. 2019: 256 cases)
  - HFMD and herpangina: 0 case (Cum. 2019: 247 cases)
  - HFMD with complications: 0 case (Cum. 2019: 14 cases)
  - Other: 2 cases (Cum. 2019: 150 cases)
- Variation (%p): increase from 0.0% in 48th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

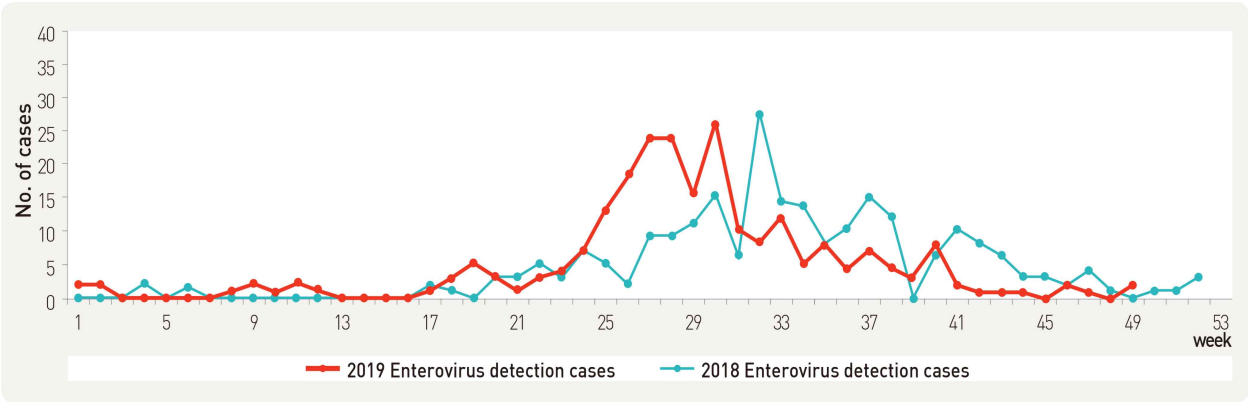


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2018 to 2019

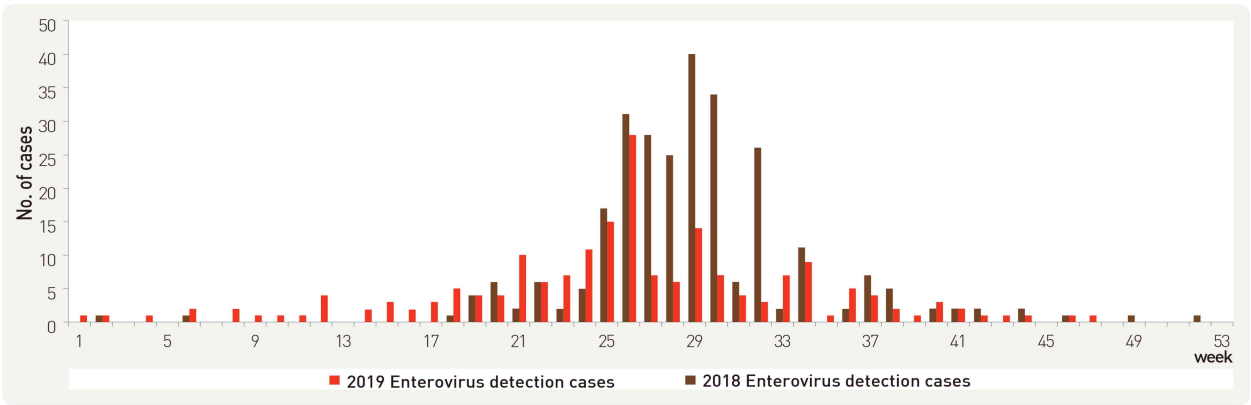


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2018 to 2019

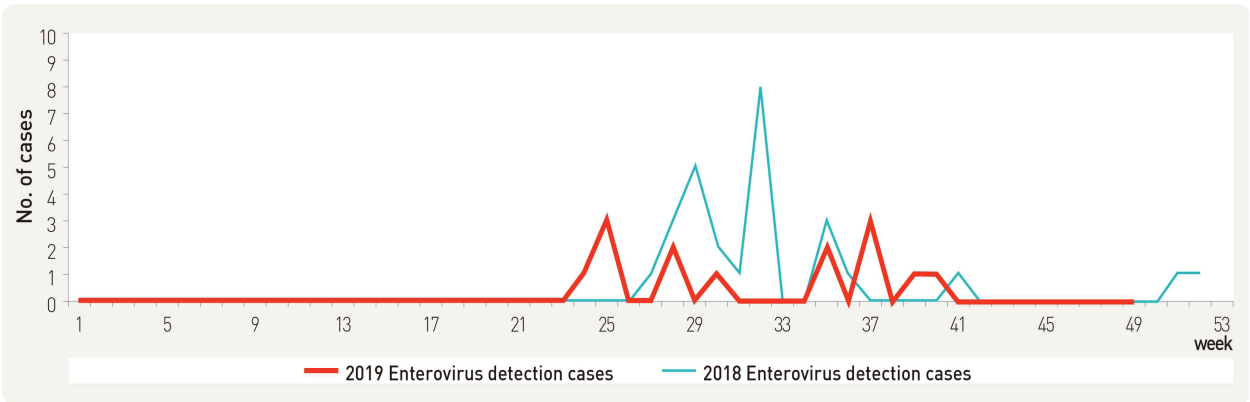


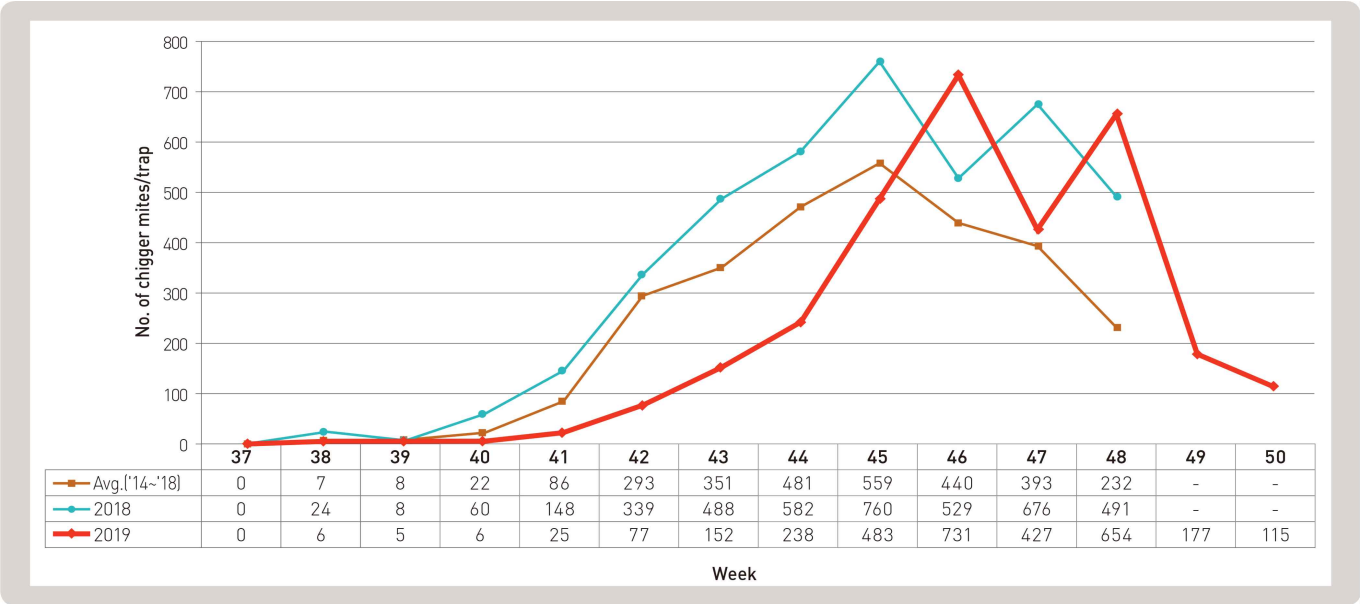
Figure 9. Detection of enterovirus in HFMD with complications patients from 2018 to 2019

VII. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending December 14, 2019 (50th Week)

- No. of chigger mites: 115
- Variation: decrease from 177 in 49th week of 2019
- Sentinel reporting sites: 9 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	49	50
Avg.('14~'18)	0	7	8	22	86	293	351	481	559	440	393	232	-	-
2018	0	24	8	60	148	339	488	582	760	529	676	491	-	-
2019	0	6	5	6	25	77	152	238	483	731	427	654	177	115

Figure 10. Weekly incidences of scrub typhus vector chiggers 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

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

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