Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report
Disease Surveillance Statistics

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Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Classification of disease‡	Current week	Cum. 2018	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2017	2016	2015	2014	2013	
Category Ⅰ									
Cholera	0	2	0	5	4	0	0	3	
Typhoid fever	4	221	1	128	121	121	251	156	
Paratyphoid fever	8	54	1	73	56	44	37	54	
Shigellosis	7	204	2	111	113	88	110	294	Hong Kong(1)
EHEC	2	126	2	138	104	71	111	61	
Viral hepatitis A	42	2,004	40	4,419	4,679	1,804	1,307	867	
Category Ⅱ									
Pertussis	33	759	4	318	129	205	88	36	
Tetanus	0	26	0	34	24	22	23	22	
Measles	4	33	1	7	18	7	442	107	
Mumps	301	15,825	402	16,924	17,057	23,448	25,286	17,024	
Rubella	3	15	1	7	11	11	11	18	
Viral hepatitis B (Acute)	6	321	4	391	359	155	173	117	
Japanese encephalitis	0	14	2	9	28	40	26	14	
Varicella	1,088	67,526	692	80,092	54,060	46,330	44,450	37,361	
Haemophilus influenza type b	0	2	0	3	0	0	0	0	
Streptococcus pneumoniae	6	519	4	523	441	228	36	-	
Category Ⅲ									
Malaria	14	561	13	515	673	699	638	445	Malaysia(1), Thailand(1)
Scarlet fever§	174	13,749	159	22,838	11,911	7,002	5,809	3,678	
Meningococcal meningitis	1	13	0	17	6	6	5	6	
Legionellosis	9	236	2	198	128	45	30	21	
Vibrio vulnificus sepsis	2	45	4	46	56	37	61	56	
Murine typhus	1	12	1	18	18	15	9	19	
Scrub typhus	222	1,834	430	10,528	11,105	9,513	8,130	10,365	
Leptospirosis	11	101	4	103	117	104	58	50	
Brucellosis	10	75	0	6	4	5	8	16	
Rabies	0	0	0	0	0	0	0	0	
HFRS	20	323	16	531	575	384	344	527	
Syphilis	27	1,806	28	2,148	1,569	1,006	1,015	799	
CJD/vCJD	6	67	1	36	42	33	65	34	
Tuberculosis	506	21,419	582	28,161	30,892	32,181	34,869	36,089	
HIV/AIDS	20	728	18	1,009	1,062	1,018	1,081	1,013	
Viral hepatitis C	164	8,694	-	6,396	-	-	-	-	
VRSA	0	0	-	0	-	-	-	-	
CRE	212	9,268	-	5,716	-	-	-	-	

1. *(Continued)* Reported cases, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Classification of disease‡	Current week	Cum. 2018	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2017	2016	2015	2014	2013	
Category IV									
Dengue fever	9	156	5	171	313	255	165	252	Indonesia(2), Philippines(2), Nepal(1), Myanmar(1), Vietnam(1), India(1), Thailand(1)
Q fever	26	317	1	96	81	27	8	11	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	8	88	0	31	27	9	13	11	
Melioidosis	0	1	0	2	4	4	2	2	
Chikungunya fever	2	14	0	5	10	2	1	2	Thailand(1), Philippines(1)
SFTS	18	229	9	272	165	79	55	36	
MERS	0	1	-	0	0	185	-	-	
Zika virus infection	0	13	-	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 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
‡ The reported surveillance data excluded 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 October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category I											
	Cholera			Typhoid fever			Paratyphoid fever			Shigellosis		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	0	2	1	4	221	131	8	54	44	7	204	85
Seoul	0	0	0	0	39	24	1	13	9	2	47	20
Busan	0	2	0	1	28	8	0	5	5	1	15	4
Daegu	0	0	0	0	5	5	1	5	2	1	22	2
Incheon	0	0	0	0	10	7	0	1	4	0	16	11
Gwangju	0	0	0	1	7	6	0	1	2	0	5	1
Daejeon	0	0	0	0	4	6	0	0	2	0	2	2
Ulsan	0	0	0	0	6	1	0	0	1	0	2	0
Sejong	0	0	0	0	2	0	0	0	0	0	1	0
Gyonggi	0	0	0	0	52	24	2	12	7	1	27	21
Gangwon	0	0	0	0	11	1	1	7	1	0	6	1
Chungbuk	0	0	0	0	8	3	0	1	2	0	3	2
Chungnam	0	0	0	0	7	7	1	1	1	0	19	3
Jeonbuk	0	0	0	0	4	3	1	1	2	0	1	3
Jeonnam	0	0	0	2	9	8	0	3	2	1	7	4
Gyeongbuk	0	0	0	0	10	5	0	2	1	1	21	2
Gyeongnam	0	0	1	0	16	21	1	1	2	0	9	8
Jeju	0	0	0	0	3	2	0	1	1	0	1	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st 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. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	2	126	85	42	2,004	2,159	33	759	113	0	26	20
Seoul	0	23	11	8	407	419	0	63	22	0	2	2
Busan	1	7	4	0	50	102	6	98	7	0	3	2
Daegu	0	10	8	0	56	46	3	29	1	0	3	0
Incheon	0	11	7	2	143	188	0	40	7	0	2	1
Gwangju	0	12	14	3	26	67	3	33	6	0	0	0
Daejeon	0	3	1	3	106	92	0	13	1	0	0	0
Ulsan	0	7	6	1	18	22	0	25	2	0	0	0
Sejong	0	0	1	2	18	11	1	12	0	0	0	0
Gyonggi	1	11	14	10	586	661	6	109	23	0	2	2
Gangwon	0	5	2	1	49	51	0	4	1	0	0	2
Chungbuk	0	3	2	2	73	67	0	24	1	0	0	1
Chungnam	0	5	2	4	177	127	1	15	6	0	1	1
Jeonbuk	0	2	1	0	135	101	0	12	2	0	3	1
Jeonnam	0	6	5	2	27	77	4	18	5	0	5	3
Gyeongbuk	0	10	2	1	62	48	0	38	9	0	4	2
Gyeongnam	0	6	2	3	62	67	9	224	17	0	1	3
Jeju	0	5	3	0	9	13	0	2	3	0	0	0

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category Ⅱ											
	Measles			Mumps			Rubella			Viral hepatitis B (Acute)		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	4	33	120	301	15,825	14,847	3	15	19	6	321	181
Seoul	2	8	24	44	1,970	1,437	0	2	3	1	60	31
Busan	0	2	4	20	931	1,078	0	0	2	1	18	13
Daegu	1	2	2	12	662	471	0	1	1	0	14	5
Incheon	0	1	12	14	806	628	0	0	1	0	15	12
Gwangju	0	0	1	11	466	1,104	1	1	0	0	9	4
Daejeon	0	2	3	7	532	526	0	1	1	0	14	6
Ulsan	0	0	1	16	503	466	0	0	1	0	8	5
Sejong	0	0	0	1	101	37	0	0	0	0	0	0
Gyonggi	1	9	34	74	4,477	3,263	1	5	5	2	86	43
Gangwon	0	1	2	13	516	546	0	0	0	0	10	6
Chungbuk	0	1	2	3	420	259	0	1	1	0	10	6
Chungnam	0	2	3	15	670	556	0	0	1	1	13	9
Jeonbuk	0	2	1	11	678	1,267	0	2	0	1	11	14
Jeonnam	0	1	9	17	614	725	1	1	0	0	13	8
Gyeongbuk	0	2	5	16	833	673	0	1	2	0	15	8
Gyeongnam	0	0	17	24	1,385	1,551	0	0	1	0	23	10
Jeju	0	0	0	3	261	260	0	0	0	0	2	1

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category Ⅱ						Diseases of Category Ⅲ					
	Japanese encephalitis			Varicella			Malaria			Scarlet fever¶		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	0	14	13	1,088	67,526	34,567	14	561	561	174	13,749	7,565
Seoul	0	5	4	158	7,431	3,604	3	82	73	19	2,049	872
Busan	0	0	0	41	3,795	2,246	0	7	8	8	1,141	533
Daegu	0	1	1	41	3,491	1,966	0	12	7	5	396	338
Incheon	0	0	1	46	2,886	2,061	3	79	92	8	634	347
Gwangju	0	2	0	41	2,460	1,026	0	5	4	18	640	342
Daejeon	0	0	1	14	1,640	976	0	3	4	7	456	271
Ulsan	0	0	0	24	2,100	1,157	1	4	4	5	748	282
Sejong	0	0	0	19	1,079	177	0	1	1	2	88	31
Gyonggi	0	1	3	316	19,057	9,660	6	316	308	51	3,757	2,254
Gangwon	0	0	0	26	1,848	1,354	1	12	19	0	233	113
Chungbuk	0	2	1	34	2,611	687	0	3	6	4	272	136
Chungnam	0	0	0	30	2,106	1,444	0	8	7	7	487	363
Jeonbuk	0	0	0	41	2,914	1,545	0	5	5	8	668	236
Jeonnam	0	1	1	47	2,402	1,560	0	6	4	10	532	280
Gyeongbuk	0	1	1	79	3,263	1,576	0	3	9	13	602	466
Gyeongnam	0	1	0	104	5,839	2,686	0	12	7	8	931	606
Jeju	0	0	0	27	2,604	842	0	3	3	1	115	95

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category Ⅲ											
	Meningococcal meningitis			Legionellosis			*Vibrio vulnificus* sepsis			Murine typhus		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	1	13	6	9	236	62	2	45	46	1	12	9
Seoul	1	3	2	3	58	18	0	7	5	0	1	2
Busan	0	1	1	1	20	3	0	6	4	0	0	1
Daegu	0	1	0	0	10	2	0	1	1	0	0	0
Incheon	0	3	0	1	19	5	0	5	3	1	2	1
Gwangju	0	0	0	0	1	0	0	0	1	0	0	1
Daejeon	0	0	0	0	3	1	0	0	1	0	0	0
Ulsan	0	0	0	0	3	2	0	0	2	0	1	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyonggi	0	1	2	0	47	12	1	7	9	0	4	2
Gangwon	0	0	0	0	13	4	0	0	0	0	0	0
Chungbuk	0	0	0	0	11	3	0	0	1	0	0	0
Chungnam	0	1	0	0	7	2	0	6	2	0	0	1
Jeonbuk	0	0	0	0	2	1	1	1	2	0	0	0
Jeonnam	0	0	0	1	4	1	0	4	7	0	0	1
Gyeongbuk	0	0	1	1	25	3	0	1	2	0	0	0
Gyeongnam	0	3	0	1	9	3	0	7	5	0	4	0
Jeju	0	0	0	1	4	2	0	0	1	0	0	0

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

* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.

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

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

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Scrub typhus			Leptospirosis			Brucellosis			Hemorrhagic fever with renal syndrome		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	222	1,834	1,022	11	101	45	10	75	5	20	323	223
Seoul	6	62	41	0	8	2	0	10	1	0	16	10
Busan	8	56	42	0	2	2	1	2	0	2	13	5
Daegu	2	19	16	0	1	1	0	5	1	1	4	1
Incheon	7	35	15	0	2	0	1	11	0	1	6	3
Gwangju	13	49	32	0	2	1	0	0	0	1	5	3
Daejeon	15	44	34	3	4	1	0	3	0	1	6	4
Ulsan	11	38	39	0	1	1	0	0	1	0	2	2
Sejong	1	9	5	0	0	0	1	1	0	0	1	1
Gyonggi	12	127	114	6	16	9	2	12	0	3	47	62
Gangwon	2	35	31	0	8	3	1	3	0	0	11	16
Chungbuk	5	51	24	0	7	1	2	9	0	1	19	13
Chungnam	29	223	89	2	17	5	1	8	0	2	51	24
Jeonbuk	26	214	103	0	2	3	0	1	0	1	40	18
Jeonnam	31	445	205	0	13	7	0	0	0	6	44	32
Gyeongbuk	17	120	58	0	11	4	0	1	1	0	36	18
Gyeongnam	37	293	167	0	7	5	1	9	0	1	21	10
Jeju	0	14	7	0	0	0	0	0	1	0	1	1

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

* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.

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

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

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III									Diseases of Category IV		
	Syphilis			CJD/vCJD			Tuberculosis			Dengue fever		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
Overall	27	1,806	976	6	67	39	506	21,419	25,718	9	156	189
Seoul	7	383	196	1	17	9	106	3,815	4,956	2	52	61
Busan	2	146	55	0	6	3	30	1,425	1,885	1	11	12
Daegu	1	77	45	0	3	3	29	990	1,286	0	8	8
Incheon	1	154	91	1	4	1	25	1,125	1,338	1	8	9
Gwangju	0	73	28	0	1	1	10	546	627	0	1	2
Daejeon	0	51	27	0	1	1	10	479	599	1	1	7
Ulsan	0	17	15	0	2	0	10	480	539	0	3	2
Sejong	0	9	3	0	0	0	2	81	68	0	0	1
Gyonggi	6	488	263	2	17	7	109	4,592	5,395	4	46	49
Gangwon	0	36	26	0	0	2	29	935	1,064	0	3	3
Chungbuk	3	58	22	0	0	1	13	709	762	0	2	2
Chungnam	2	64	34	0	1	3	26	1,035	1,141	0	4	5
Jeonbuk	2	43	21	0	3	1	12	817	956	0	5	4
Jeonnam	1	28	28	0	1	1	28	1,143	1,268	0	3	4
Gyeongbuk	0	77	40	1	6	4	28	1,499	1,844	0	3	8
Gyeongnam	2	65	56	1	4	2	36	1,442	1,694	0	5	10
Jeju	0	37	26	0	1	0	3	306	295	0	1	2

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

2. *(Continued)* Reported cases by geography, week ending October 13, 2018 (41st Week)*

Unit: no. of cases†

Reporting area	Diseases of Category IV											
	Q fever			Lyme Borreliosis			SFTS			Zika virus infection		
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 3-year average§	Current week	Cum. 2018	Cum. 3-year average§
Overall	26	317	32	8	88	12	18	229	102	0	13	-
Seoul	4	55	2	3	39	5	1	12	5	0	5	-
Busan	1	11	1	0	5	1	0	4	1	0	1	-
Daegu	0	9	1	0	1	1	0	1	4	0	0	-
Incheon	1	18	0	0	10	1	0	1	2	0	2	-
Gwangju	1	15	1	0	0	0	0	0	0	0	0	-
Daejeon	2	12	1	1	4	0	0	2	2	0	0	-
Ulsan	1	8	1	0	0	0	1	5	1	0	0	-
Sejong	1	1	0	0	0	0	0	0	0	0	0	-
Gyonggi	6	50	3	2	8	2	5	42	17	0	1	-
Gangwon	0	4	0	0	3	0	3	31	13	0	1	-
Chungbuk	3	32	10	0	0	0	2	12	5	0	0	-
Chungnam	3	27	4	0	3	0	1	19	9	0	0	-
Jeonbuk	1	12	1	0	2	1	0	12	2	0	2	-
Jeonnam	1	26	2	0	2	0	1	15	7	0	0	-
Gyeongbuk	0	13	2	0	2	1	1	32	17	0	0	-
Gyeongnam	1	23	3	2	7	0	1	28	8	0	1	-
Jeju	0	1	0	0	2	0	2	13	9	0	0	-

Cum: Cumulative counts from 1st week to current week in a year
* The reported data for year 2018 are provisional but the data from 2013 to 2017 are finalized data.
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending October 13, 2018 (41st Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.7 cases (=0.37%)
- Variation: increase from 3.5 cases in 40th week
- Sentinel reporting sites: 200 hospitals/clinics

  ※ 2018-2019 outbreak standard: 6.3 cases (/1,000)

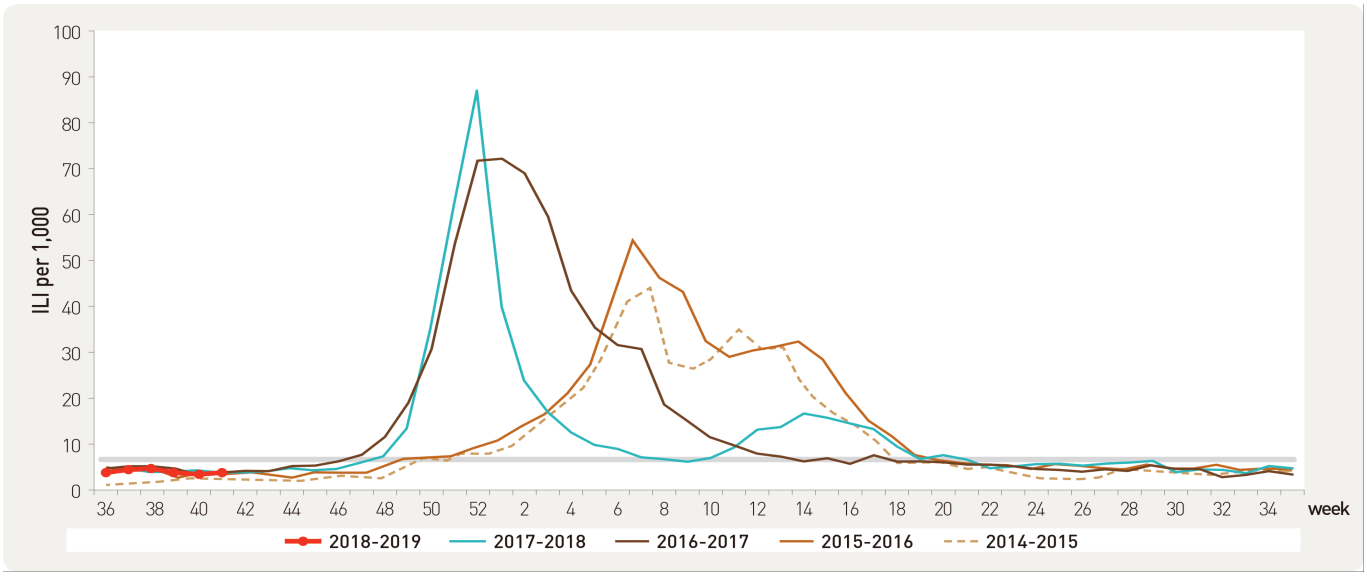


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending October 13, 2018 (41st Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 4.0 cases
- Variation: decrease from 4.5 cases in 40th week
- Sentinel reporting sites: 95 hospitals/clinics

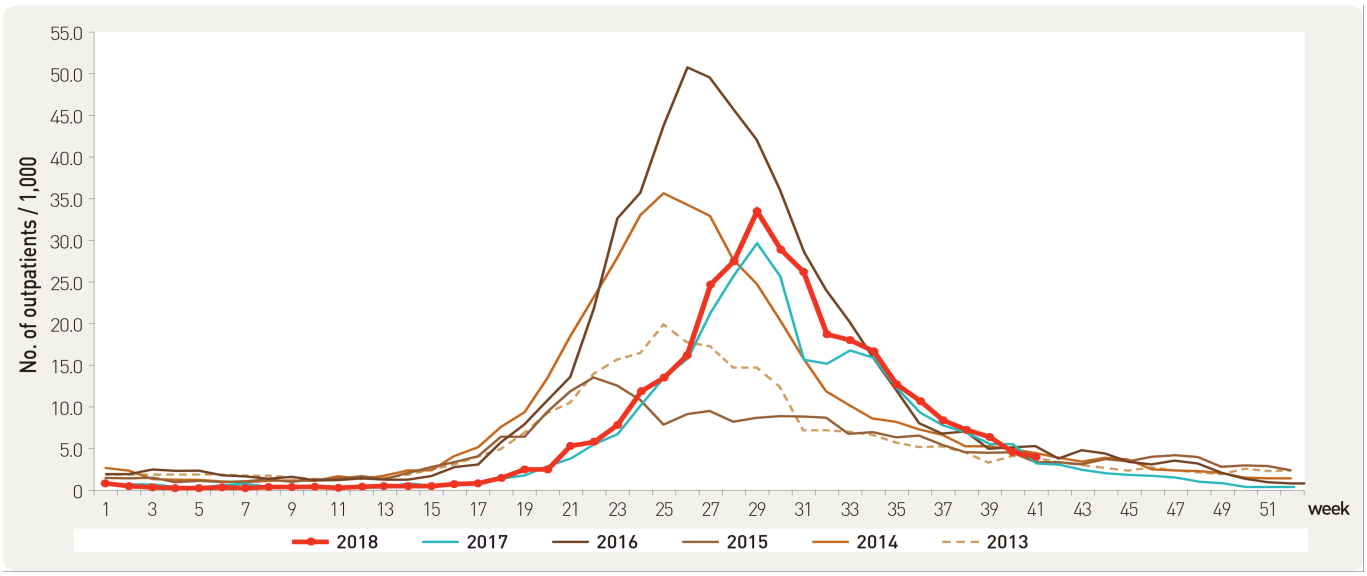


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2013-2017

3. Ophthalmologic infectious diseases, weeks ending October 13, 2018 (41st Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 33.7 cases
- Variation: decrease from 37.0 cases in 40th week
- Sentinel reporting sites: 92 hospitals/clinics

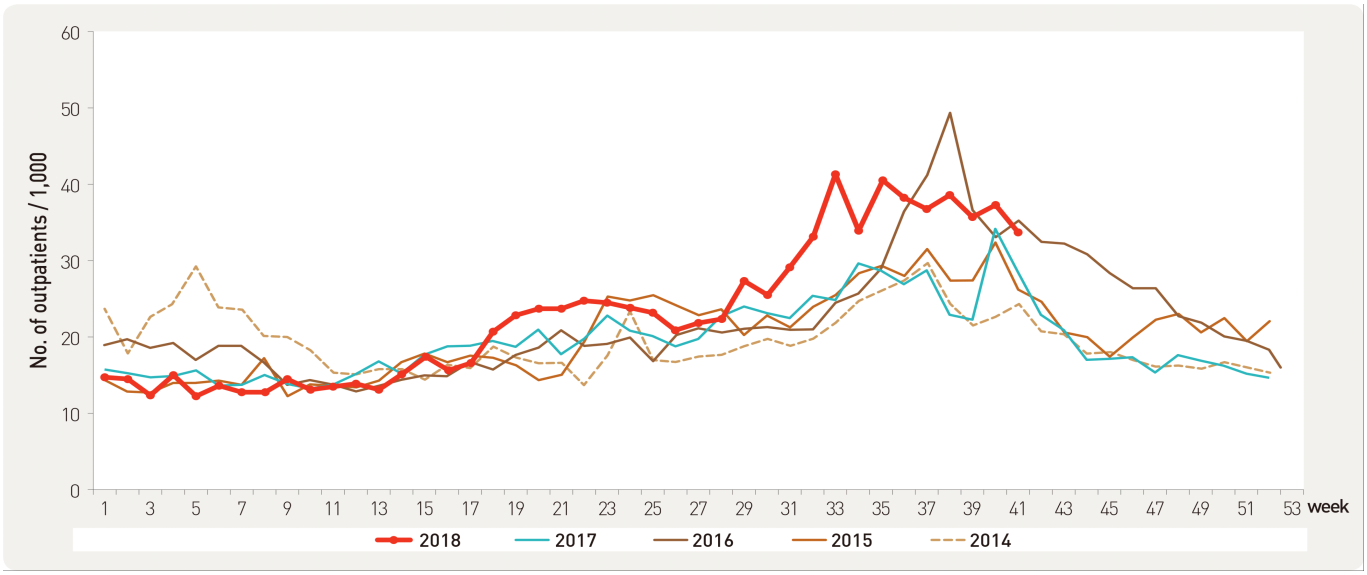


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2014-2018

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.9 case
- Variation: no change from 0.9 case in 40th week
- Sentinel reporting sites: 92 hospitals/clinics

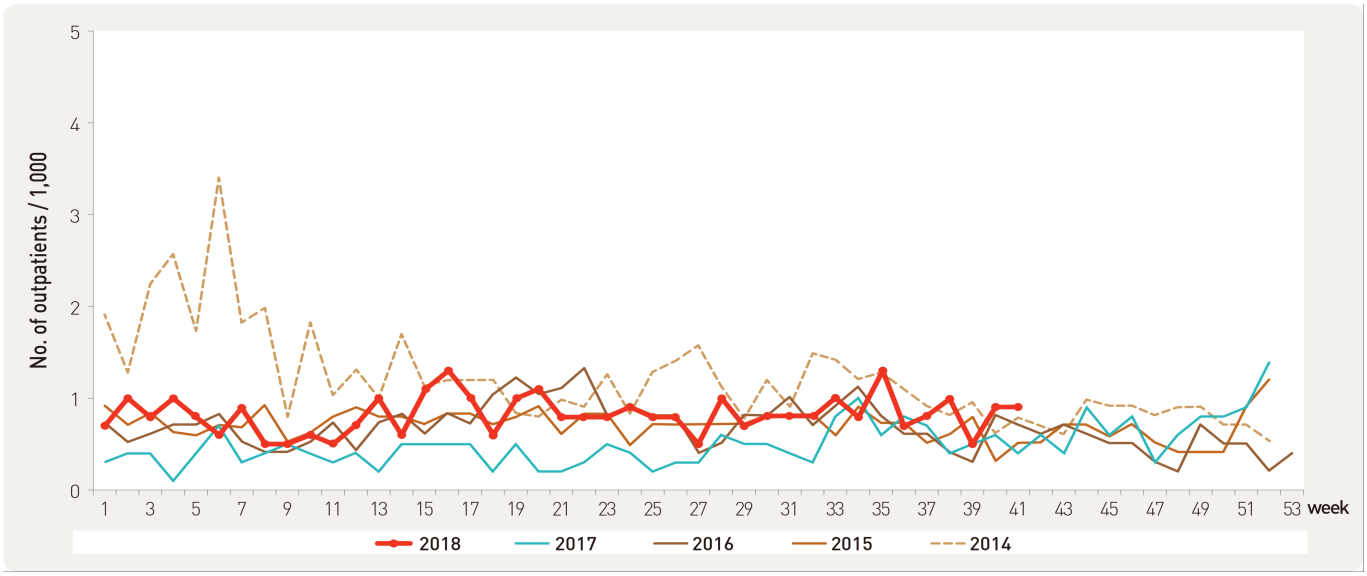


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2014-2018

4. Sexually Transmitted Diseases†, weeks ending October 13, 2018 (41st Week)

- Cases per sentinel: 2.4 for condyloma acuminata, 2.2 for genital herpes, 2.1 for chlamydia, 1.4 for gonorrhea
- Variation from 40th week
  Increase: condyloma acuminata (1.5 → 2.4)
  No change: gonorrhea (1.4 → 1.4)
  Decrease: chlamydia (2.2 → 2.1), genital herpes (2.4 → 2.2)
- Sentinel reporting sites: 580 hospitals/clinics
  ※ No. of reported sites in 41st week: 20 for gonorrhea, 53 for chlamydia, 37 for genital herpes, 19 for condyloma acuminata

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average§
1.4	7.0	9.3	2.1	26.1	21.8	2.2	34.6	24.5	2.4	19.3	15.0

Cum: Cumulative counts from 1st week to current week in a year
† According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.
§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

III. Waterborne and Foodborne Infectious Diseases

1. Waterborne and foodborne disease outbreaks, weeks ending October 13, 2018 (41st Week)

- No. of reported outbreaks: 20 with 221 patients (cumulative no. of outbreaks: 614 with 13,250 patients)
- Variation: increase from 16 in 40th week
- Reporting sites: 254 health centers

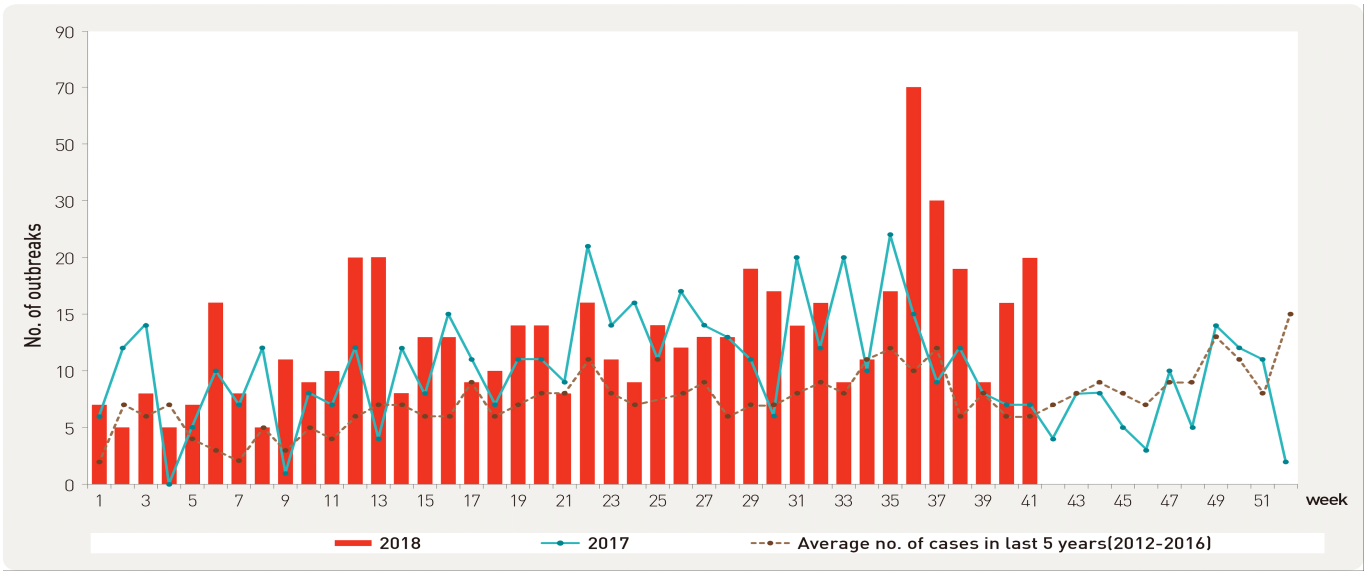


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2017-2018

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

1. Influenza viruses, Republic of Korea, weeks ending October 13, 2018 (41st Week)

- Weekly reported number of specimens positive for influenza: 1 case (0.7%) / 144 specimens [influenza subtype: A(H1N1)pdm09 1 case, A(H3N2) 0 case, B 0 case]
- Variation(%p): increase from 0 case (0.0%) / 214 specimens in 40th week
- Sentinel reporting sites: 52 hospitals/clinics

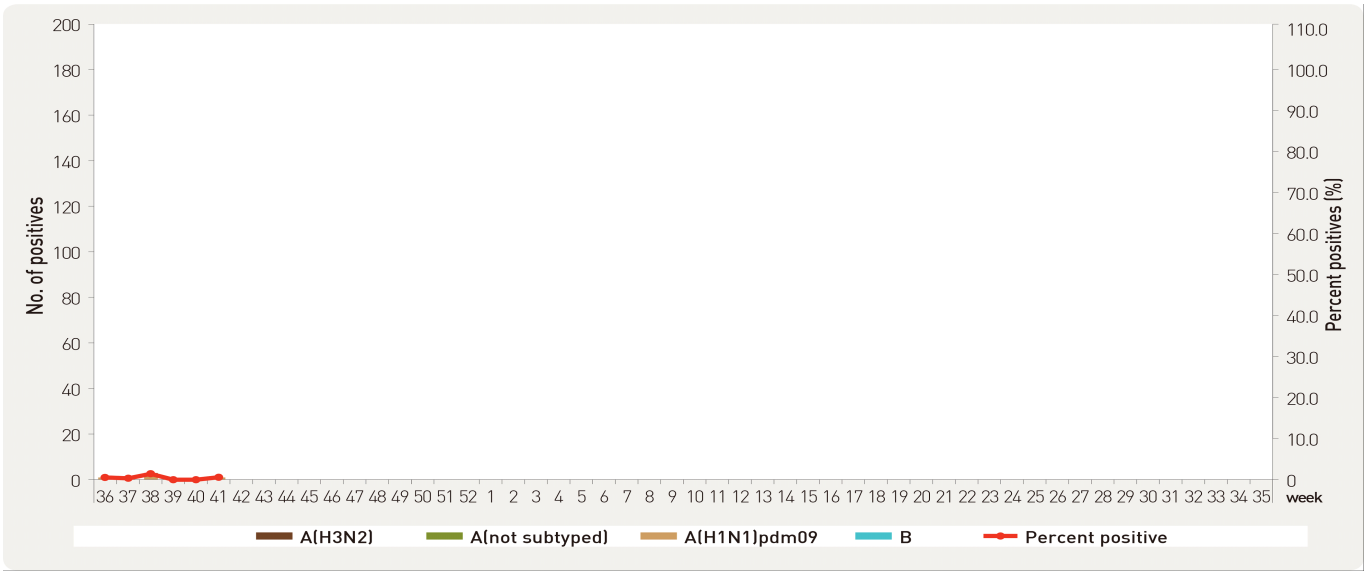


Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending October 13, 2018 (41st Week)

- Detection rate: 43.8% (cumulative mean proportion during preceding three weeks plus current week: 44.3% out of 595 specimens)
- Variation(%p): increase from 43.0% in 40th week
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2018 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
38	214	51.4	11.2	2.8	0.9	1.4	2.8	31.3	0.5	0.5
39	23	39.1	8.7	0.0	0.0	0.0	4.4	26.1	0.0	0.0
40	214	43.0	11.7	5.6	1.9	0.0	1.4	22.0	0.5	0.0
41	144	43.8	12.5	4.2	2.8	0.7	4.2	18.8	0.7	0.0
Cum.※	595	44.3	11.0	3.1	1.4	0.5	3.2	24.5	0.4	0.1
2017 Cum.∀	11,915	56.6	3.7	6.3	4.6	10.9	4.4	19.4	2.0	5.3

- 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 September 16 2018. – October 13 2018, (Average No. of detected cases is 149 last 4 weeks)

∀ 2017 Cum. : the rate of detected cases between January 01. 2017. - December 30. 2017.

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

1. Acute gastroenteritis-causing virus, weeks ending October 6, 2018 (40th Week)

- Detection rate: 12.5% [cumulative mean proportion in 2018: 721 cases (25.7%) out of 2,802 specimens]
- Variation(%p): decrease from 20.6% in 39th week of 2018
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week		No. of sample	No. of detection (Detection rate, %)									
			Group A Rotavirus		Norovirus		Enteric Adenovirus		Astrovirus		Total	
2018	37	65	0	(0.0)	3	(4.6)	2	(3.1)	5	(7.7)	10	(15.4)
	38	56	1	(1.8)	4	(7.1)	5	(8.9)	2	(3.6)	12	(21.4)
	39	34	0	(0.0)	3	(8.8)	1	(2.9)	3	(8.8)	7	(20.6)
	40	32	0	(0.0)	1	(3.1)	1	(3.1)	2	(6.3)	4	(12.5)
Cum. 2018		2,802	225	(8.0)	316	(11.3)	110	(3.9)	70	(2.5)	721	(25.7)

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

2. Acute gastroenteritis-causing bacteria, weeks ending October 6, 2018 (40th Week)

- Detection rate: 21.5% [cumulative mean proportion in 2018: 1,039 cases (14.5%) out of 7,161 specimens]
- Variation(%p): decrease from 25.0% in 39th week of 2018
- 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
2018	37	187	17 (9.1)	22 (11.8)	0 (0)	0 (0)	0 (0)	2 (1.1)	1 (0.5)	2 (1.1)	3 (1.6)	48 (25.7)
	38	136	7 (5.1)	11 (8.1)	1 (0.7)	0 (0)	0 (0)	1 (0.7)	0 (0)	5 (3.7)	1 (0.7)	26 (19.1)
	39	16	0 (0)	1 (6.3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6.3)	2 (12.5)	4 (25.0)
	40	181	14 (7.7)	14 (7.7)	0 (0)	3 (1.7)	0 (0)	0 (0)	2 (1.1)	4 (2.2)	2 (1.1)	39 (21.5)
Cum. 2018		7,161	238 (3.3)	359 (5.0)	4 (0.1)	11 (0.2)	0 (0)	75 (1.0)	80 (1.1)	136 (1.9)	133 (1.9)	1,039 (14.5)

* 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 2018 (70 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending October 6, 2018 (40th Week)

- Detection rate: 19.2% (10 cases / 52 specimens) [cumulative mean proportion in 2018: 34.1% (641 cases / 1,879 specimens)]
  - Aseptic meningitis: 6 cases (Cum. 2018: 188 cases)
  - HFMD and herpangina: 2 cases (Cum. 2018: 269 cases)
  - HFMD with complications: 0 case (Cum. 2018: 24 cases)
  - Other: 2 cases (Cum. 2018: 160 cases)
- Variation(%p): decrease from 40.0% in 39th week of 2018
- Sentinel reporting sites: 8 city/provincial health and environmental institutes and 63 hospitals/clinics

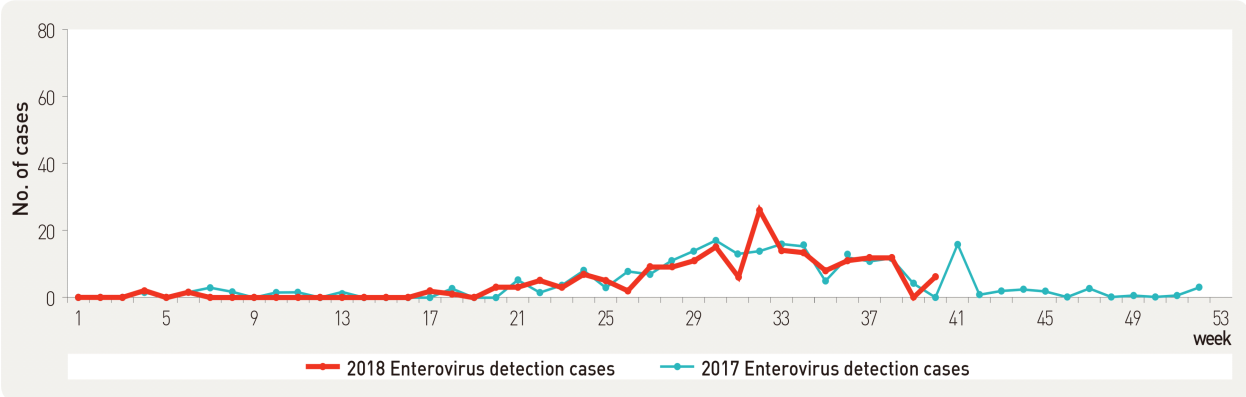


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

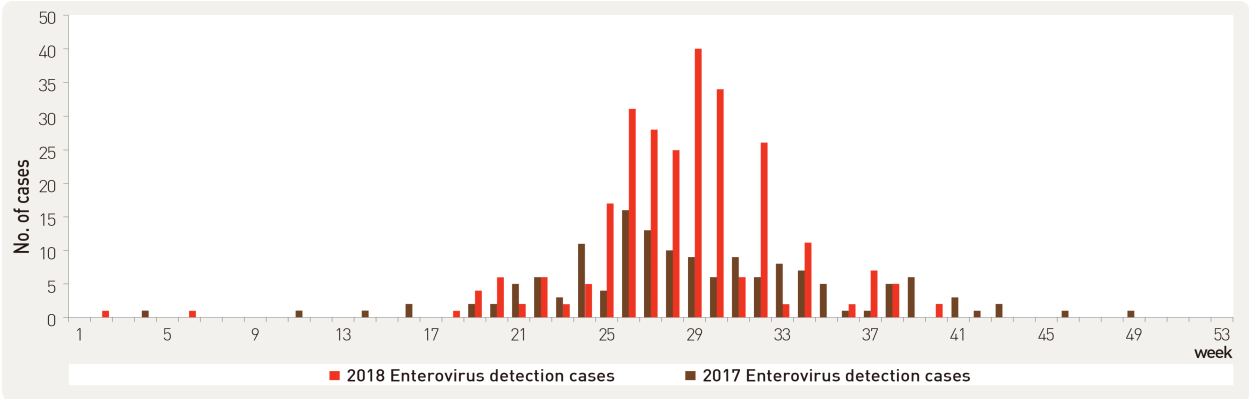


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

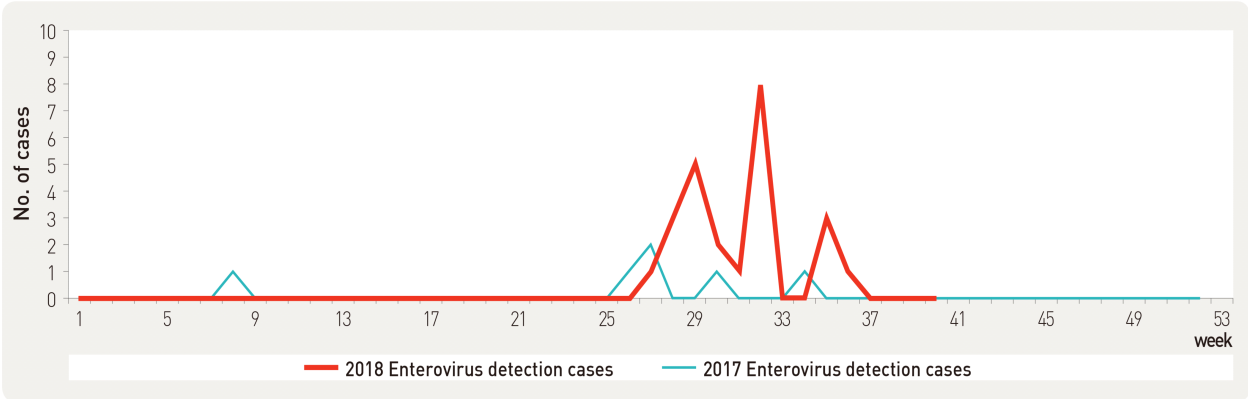


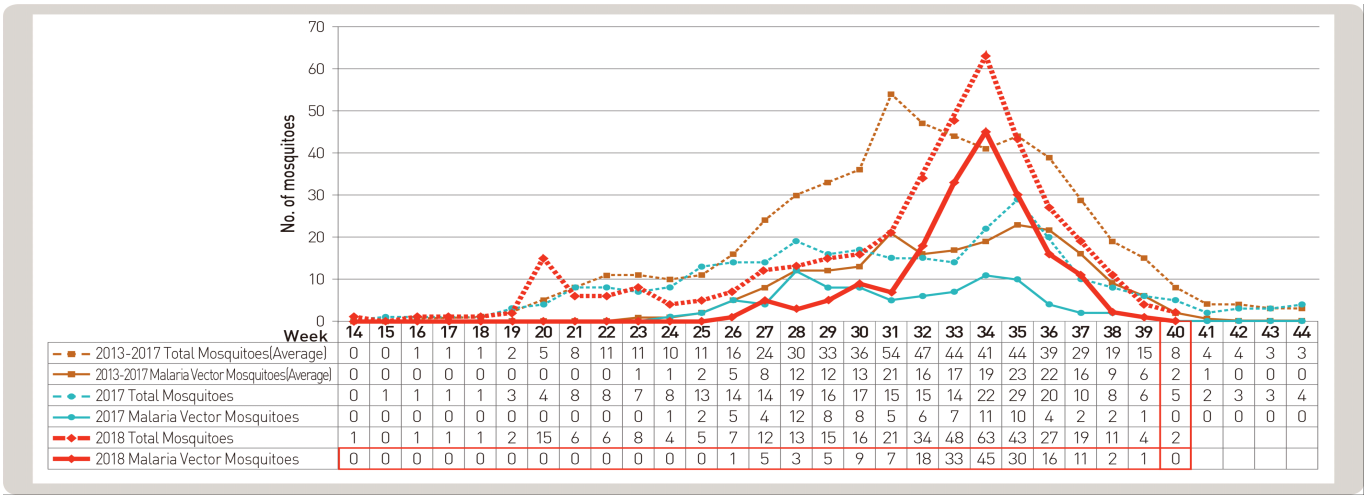
Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

Ⅶ. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending October 6, 2018 (40th Week)

- No. of malaria vector mosquitoes: 0
- Variation: decrease from 1 in 39th week of 2018
- Sentinel reporting sites: 3 city/province (20 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
2013-2017 Total Mosquitoes(Average)	0	0	1	1	1	2	5	8	11	11	10	11	16	24	30	33	36	54	47	44	41	44	39	29	19	15	8	4	4	3	3
2013-2017 Malaria Vector Mosquitoes(Average)	0	0	0	0	0	0	0	0	0	1	1	2	5	8	12	12	13	21	16	17	19	23	22	16	9	6	2	1	0	0	0
2017 Total Mosquitoes	0	1	1	1	1	3	4	8	8	7	8	13	14	14	19	16	17	15	15	14	22	29	20	10	8	6	5	2	3	3	4
2017 Malaria Vector Mosquitoes	0	0	0	0	0	0	0	0	0	0	1	2	5	4	12	8	8	5	6	7	11	10	4	2	2	1	0	0	0	0	0
2018 Total Mosquitoes	1	0	1	1	1	2	15	6	6	8	4	5	7	12	13	15	16	21	34	48	63	43	27	19	11	4	2				
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				

Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

Ⅷ. Vector Surveillance: Japanese encephalitis vector Mosquitoes

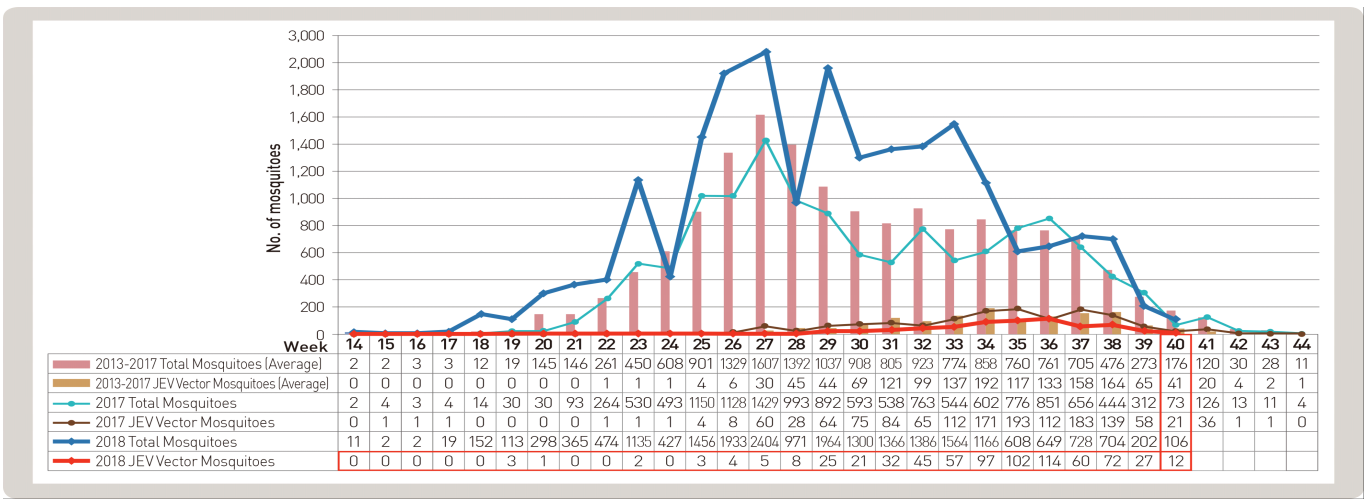
1. Japanese encephalitis vector mosquitoes, weeks ending October 6, 2018 (40th Week)

- No. of Japanese encephalitis vector mosquitoes: 12

※ JEV: Japanese encephalitis vector

- Variation: decrease from 27 in 39th week of 2018
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)

※ No. of mosquitoes: average number of mosquitoes/trap/day



Week	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2013-2017 Total Mosquitoes (Average)	2	2	3	3	12	19	145	146	261	450	608	901	1329	1607	1392	1037	908	805	923	774	858	760	761	705	476	273	176	120	30	28	11
2013-2017 JEV Vector Mosquitoes (Average)	0	0	0	0	0	0	0	0	1	1	1	4	6	30	45	44	69	121	99	137	192	117	133	158	164	65	41	20	4	2	1
2017 Total Mosquitoes	2	4	3	4	14	30	30	93	264	530	493	1150	1128	1429	993	892	593	538	763	544	602	776	851	656	444	312	73	126	13	11	4
2017 JEV Vector Mosquitoes	0	1	1	1	0	0	0	0	1	1	1	4	8	60	28	64	75	84	65	112	171	193	112	183	139	58	21	36	1	1	0
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				
2018 JEV 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	27	12				

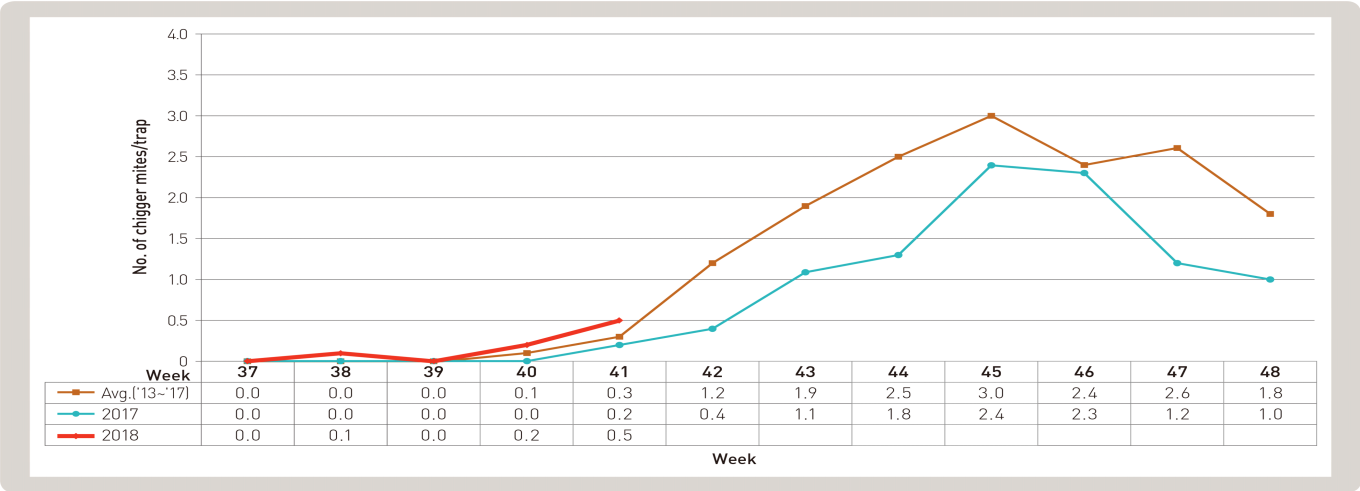
Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

Ⅸ. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending October 9, 2018 (41st Week)

- No. of chigger mites: 0.5
- Variation: increase from 0.2 in 40th week of 2018
- Sentinel reporting sites: 11 city/province (16 sites)

※ No. of chigger mites: average number of chigger/trap/week



Week	37	38	39	40	41	42	43	44	45	46	47	48
Avg.('13~'17)	0.0	0.0	0.0	0.1	0.3	1.2	1.9	2.5	3.0	2.4	2.6	1.8
2017	0.0	0.0	0.0	0.0	0.2	0.4	1.1	1.8	2.4	2.3	1.2	1.0
2018	0.0	0.1	0.0	0.2	0.5							

Figure 12. Weekly incidences of scrub typhus vector chiggers in 2018

About PHWR Disease Surveillance Statistics

The Public Health Weekly Report (PHWR) Disease Surveillance Statistics is prepared by the Korea Centers for Disease Control and Prevention (Korea CDC). These provisional surveillance data on the reported occurrence of national notifiable diseases and conditions are compiled through population-based or sentinel-based surveillance systems and published weekly, except for data on infrequent or recently-designated diseases. These surveillance statistics are informative for analyzing infectious disease or condition numbers and trends. However, the completeness of data might be influenced by some factors such as a date of symptom or disease onset, diagnosis, laboratory result, reporting of a case to a jurisdiction, or notification to Korea Centers for Disease Control and Prevention. The official and final disease statistics are published in infectious disease surveillance yearbook annually.

Using and Interpreting These Data in Tables

- Current Week – The number of cases under current week denotes cases who have been reported to Korea CDC at the central level via corresponding jurisdictions(health centers, and health departments) during that week and accepted/approved by surveillance staff.
- Cum. 2018 – For the current year, it denotes the cumulative(Cum) year-to-date provisional counts for the specified condition.
- 5-year weekly average – The 5-year weekly average is calculated by summing, for the 5 proceeding years, the provisional incidence counts for the current week, the two weeks preceding the current week, and the two weeks following the current week. The total sum of cases is then divided by 25 weeks. It gives help to discern the statistical aberration of the specified disease incidence by comparing difference between counts under current week and 5-year weekly average.

For example,

		Week Number				
		10	**11**	**12**	**13**	**14**
Year	**2018**			Current week		
	2017	X1	X2	X3	X4	X5
	2016	X6	X7	X8	X9	X10
	2015	X11	X12	X13	X14	X15
	2014	X16	X17	X18	X19	X20
	2013	X21	X22	X23	X24	X25

5-year weekly average for current week
= (X1 + X2 + … + X25) / 25

- Cum. 5-year average – Mean value calculated by cumulative counts from 1st week to current week for 5 preceding years. It gives help to understand the increasing or decreasing pattern of the specific disease incidence by comparing difference between cum. 2018 and cum. 5-year average.

Contact Us

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