Ⅰ. National Notifiable Infectious Diseases

1. Reported cases, week ending September 29, 2018 (39th 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	8	228	2	128	121	121	251	156	Vietnam(2)
Paratyphoid fever	4	58	1	73	56	44	37	54	
Shigellosis	6	196	2	111	113	88	110	294	
EHEC	3	119	2	138	104	71	111	61	
Viral hepatitis A	22	1,924	38	4,419	4,679	1,804	1,307	867	
Category Ⅱ									
Pertussis	17	703	4	318	129	205	88	36	
Tetanus	0	26	0	34	24	22	23	22	
Measles	3	38	1	7	18	7	442	107	
Mumps	261	15,283	389	16,924	17,057	23,448	25,286	17,024	
Rubella	1	33	0	7	11	11	11	18	
Viral hepatitis B (Acute)	5	309	4	391	359	155	173	117	
Japanese encephalitis	0	7	2	9	28	40	26	14	
Varicella	993	65,192	583	80,092	54,060	46,330	44,450	37,361	
Haemophilus influenza type b	0	2	0	3	0	0	0	0	
Streptococcus pneumoniae	3	503	3	523	441	228	36	-	
Category Ⅲ									
Malaria	8	526	16	515	673	699	638	445	
Scarlet fever[§]	109	13,410	137	22,838	11,911	7,002	5,809	3,678	
Meningococcal meningitis	1	12	0	17	6	6	5	6	
Legionellosis	3	223	2	198	128	45	30	21	
Vibrio vulnificus sepsis	5	40	5	46	56	37	61	56	
Murine typhus	0	12	0	18	18	15	9	19	
Scrub typhus	86	1,564	95	10,528	11,105	9,513	8,130	10,365	
Leptospirosis	11	90	4	103	117	104	58	50	
Brucellosis	8	70	0	6	4	5	8	16	
Rabies	0	0	0	0	0	0	0	0	
HFRS	19	290	9	531	575	384	344	527	
Syphilis	15	1,748	26	2,148	1,569	1,006	1,015	799	
CJD/vCJD	2	61	1	36	42	33	65	34	
Tuberculosis	365	20,544	542	28,161	30,892	32,181	34,869	36,089	
HIV/AIDS	10	700	23	1,009	1,062	1,018	1,081	1,013	
Viral hepatitis C	90	8,365	-	6,396	-	-	-	-	
VRSA	0	0	-	0	-	-	-	-	
CRE	137	8,716	-	5,716	-	-	-	-	

1. *(Continued)* Reported cases, week ending September 29, 2018 (39th 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	160	5	171	313	255	165	252	Laos(3), Philippines(3), Vietnam(1), Indonesia(1), Cameroon(1)
Q fever	17	297	1	96	81	27	8	11	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	7	86	0	31	27	9	13	11	Finland(1)
Melioidosis	0	1	0	2	4	4	2	2	
Chikungunya fever	1	14	0	5	10	2	1	2	Philippines(1)
SFTS	6	183	9	272	165	79	55	36	
MERS	0	1	-	0	0	185	-	-	
Zika virus infection	3	17	-	11	16	-	-	-	Malaysia(1), Thailand(1), Philippines(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 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 September 29, 2018 (39th Week)*

Unit: no. of cases[†]

Reporting area	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	8	228	130	4	58	43	6	196	80
Seoul	0	0	0	0	40	24	0	14	9	0	43	19
Busan	0	2	0	2	25	8	1	6	5	0	14	4
Daegu	0	0	0	0	5	5	0	5	2	0	21	2
Incheon	0	0	0	2	12	7	0	1	3	0	16	10
Gwangju	0	0	0	1	6	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	2	57	24	2	15	7	2	26	21
Gangwon	0	0	0	0	10	1	0	6	1	0	6	1
Chungbuk	0	0	0	0	8	3	0	1	2	0	3	2
Chungnam	0	0	0	0	8	7	0	0	1	0	19	3
Jeonbuk	0	0	0	0	7	3	0	0	2	0	1	2
Jeonnam	0	0	0	0	7	7	1	5	2	2	8	4
Gyeongbuk	0	0	0	0	10	5	0	2	1	0	20	2
Gyeongnam	0	0	1	1	18	21	0	2	2	1	8	6
Jeju	0	0	0	0	3	2	0	0	1	1	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 September 29, 2018 (39th Week)*

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	3	119	82	22	1,924	2,088	17	703	108	0	26	19
Seoul	1	23	10	8	386	405	2	60	20	0	2	2
Busan	0	6	4	1	49	100	3	91	7	0	3	2
Daegu	0	10	8	0	55	44	0	21	1	0	3	0
Incheon	0	11	6	0	142	178	0	39	7	0	2	1
Gwangju	1	11	14	0	21	65	2	29	6	0	0	0
Daejeon	0	2	1	0	102	87	0	12	1	0	0	0
Ulsan	1	7	5	0	17	22	0	24	2	0	1	0
Sejong	0	0	1	0	16	10	0	10	0	0	0	0
Gyonggi	0	9	14	2	567	638	3	103	22	0	2	2
Gangwon	0	5	2	1	47	50	0	4	1	0	0	2
Chungbuk	0	3	2	2	68	65	0	23	1	0	0	0
Chungnam	0	5	2	1	170	124	0	15	5	0	1	1
Jeonbuk	0	2	1	4	131	98	0	10	2	0	3	1
Jeonnam	0	6	5	0	25	76	1	14	5	0	4	3
Gyeongbuk	0	10	2	2	61	47	2	36	9	0	4	2
Gyeongnam	0	5	2	1	58	66	4	210	16	0	1	3
Jeju	0	4	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 September 29, 2018 (39th 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	3	38	117	261	15,283	14,087	1	33	19	5	309	170
Seoul	1	10	24	37	1,902	1,371	0	8	3	2	59	30
Busan	0	2	4	24	901	1,007	0	1	2	1	17	12
Daegu	0	1	2	9	631	448	0	2	1	1	14	5
Incheon	0	1	12	11	785	605	1	1	1	0	14	11
Gwangju	0	0	1	16	450	1,032	0	0	0	0	9	3
Daejeon	0	2	3	1	515	505	0	2	1	0	13	5
Ulsan	0	0	1	10	476	444	0	0	1	0	8	5
Sejong	0	0	0	2	100	35	0	1	0	0	0	0
Gyonggi	2	11	32	72	4,326	3,109	0	8	5	1	82	41
Gangwon	0	1	1	6	495	525	0	0	0	0	10	5
Chungbuk	0	1	2	4	416	246	0	3	1	0	9	5
Chungnam	0	2	3	12	646	526	0	1	1	0	12	9
Jeonbuk	0	2	1	12	648	1,207	0	2	0	0	10	14
Jeonnam	0	3	9	10	582	690	0	1	0	0	13	8
Gyeongbuk	0	2	5	13	806	640	0	2	2	0	15	7
Gyeongnam	0	0	17	16	1,348	1,449	0	1	1	0	22	9
Jeju	0	0	0	6	256	248	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 September 29, 2018 (39th 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	7	8	993	65,192	33,321	8	526	534	109	13,410	7,292
Seoul	0	1	3	109	7,128	3,446	1	72	69	13	2,014	844
Busan	0	0	0	47	3,682	2,181	0	7	7	10	1,129	514
Daegu	0	0	1	43	3,405	1,895	0	11	7	3	390	330
Incheon	0	0	1	45	2,780	1,973	0	73	88	10	620	335
Gwangju	0	1	0	51	2,350	989	0	5	4	3	616	326
Daejeon	0	0	0	4	1,603	922	0	3	3	2	429	259
Ulsan	0	0	0	24	2,056	1,109	0	3	3	5	729	272
Sejong	0	0	0	10	1,028	172	0	1	1	0	84	30
Gyonggi	0	0	2	321	18,387	9,339	7	299	294	34	3,644	2,170
Gangwon	0	0	0	32	1,798	1,308	0	12	18	2	230	110
Chungbuk	0	2	0	26	2,533	660	0	3	6	4	272	130
Chungnam	0	0	0	27	2,029	1,388	0	8	7	4	469	351
Jeonbuk	0	0	0	43	2,836	1,489	0	5	4	2	651	225
Jeonnam	0	1	0	31	2,300	1,507	0	6	4	4	517	270
Gyeongbuk	0	1	1	58	3,112	1,527	0	3	9	2	582	452
Gyeongnam	0	1	0	83	5,623	2,597	0	12	7	10	921	581
Jeju	0	0	0	39	2,542	819	0	3	3	1	113	93

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 September 29, 2018 (39th Week)[*]

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	12	5	3	223	58	5	40	38	0	12	8
Seoul	0	2	2	0	56	17	0	5	4	0	1	2
Busan	1	1	1	0	20	3	0	5	4	0	0	1
Daegu	0	1	0	0	10	2	0	0	1	0	0	0
Incheon	0	3	0	1	17	5	2	6	2	0	1	1
Gwangju	0	0	0	0	1	0	0	0	0	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	1	44	11	2	8	7	0	4	1
Gangwon	0	0	0	0	12	4	0	0	0	0	0	0
Chungbuk	0	0	0	0	12	3	0	0	0	0	0	0
Chungnam	0	1	0	0	7	2	0	5	2	0	0	1
Jeonbuk	0	0	0	0	2	1	0	0	2	0	0	0
Jeonnam	0	0	0	0	3	1	0	4	6	0	0	1
Gyeongbuk	0	0	0	0	24	3	1	1	2	0	1	0
Gyeongnam	0	3	0	1	6	2	0	6	4	0	4	0
Jeju	0	0	0	0	3	1	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 September 29, 2018 (39th 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	86	1,564	701	11	90	40	8	70	5	19	290	199
Seoul	6	63	32	0	8	2	3	11	1	0	16	9
Busan	4	48	29	1	2	2	0	2	0	0	11	4
Daegu	2	18	9	1	1	1	1	6	1	0	3	1
Incheon	0	28	13	0	1	0	0	12	0	0	5	3
Gwangju	1	34	17	0	2	1	0	0	0	1	3	3
Daejeon	0	23	20	0	1	1	0	2	0	0	4	3
Ulsan	1	26	21	0	1	1	0	0	1	0	2	2
Sejong	1	7	3	0	0	0	0	0	0	1	1	1
Gyonggi	9	116	84	0	9	8	2	11	0	0	41	59
Gangwon	4	32	27	3	7	3	0	3	0	3	12	15
Chungbuk	2	43	12	1	7	1	1	11	0	0	17	12
Chungnam	10	188	56	0	15	4	0	6	0	3	46	20
Jeonbuk	14	178	65	0	2	3	0	0	0	3	37	15
Jeonnam	15	406	148	2	16	5	0	0	0	4	37	26
Gyeongbuk	5	101	43	1	11	3	0	1	1	4	37	16
Gyeongnam	12	239	116	2	7	5	1	5	0	0	17	9
Jeju	0	14	6	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 September 29, 2018 (39th 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	15	1,748	933	2	61	37	365	20,544	24,698	9	160	177
Seoul	1	370	187	1	16	8	60	3,644	4,752	5	57	57
Busan	2	142	52	0	8	3	26	1,362	1,811	0	11	12
Daegu	1	76	42	0	3	3	23	944	1,236	0	8	7
Incheon	3	149	87	0	1	1	26	1,076	1,288	0	7	8
Gwangju	0	71	28	0	1	1	7	528	604	0	1	2
Daejeon	0	50	27	0	1	1	5	465	574	0	0	7
Ulsan	0	16	14	0	3	0	9	466	518	0	4	2
Sejong	0	9	3	0	1	0	1	78	65	0	0	1
Gyonggi	5	475	251	0	14	7	77	4,411	5,180	3	47	45
Gangwon	0	35	26	0	0	2	13	891	1,024	0	3	3
Chungbuk	0	54	21	0	0	1	16	685	731	0	2	2
Chungnam	0	62	32	0	1	2	18	986	1,093	0	3	5
Jeonbuk	1	41	20	0	2	1	14	794	920	0	5	4
Jeonnam	0	27	27	0	1	1	17	1,086	1,223	0	3	4
Gyeongbuk	0	75	38	1	5	4	19	1,436	1,768	0	3	7
Gyeongnam	2	60	54	0	3	2	30	1,391	1,628	0	4	9
Jeju	0	36	24	0	1	0	4	301	285	1	2	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 September 29, 2018 (39th Week)[*]

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	17	297	31	7	86	11	6	183	81	3	17	-
Seoul	4	52	2	3	39	5	0	9	3	0	5	-
Busan	0	12	1	3	8	1	0	3	1	0	2	-
Daegu	2	11	1	0	0	1	0	1	2	0	0	-
Incheon	0	18	0	0	9	0	0	0	2	1	3	-
Gwangju	0	12	1	0	0	0	0	0	0	0	0	-
Daejeon	0	8	1	0	2	0	0	2	2	0	0	-
Ulsan	0	8	1	0	0	0	0	4	1	1	1	-
Sejong	0	0	0	0	0	0	0	0	0	0	0	-
Gyonggi	1	46	3	0	8	2	1	23	12	0	1	-
Gangwon	1	4	0	1	5	0	0	24	10	0	0	-
Chungbuk	1	34	9	0	0	0	0	7	3	0	0	-
Chungnam	3	23	4	0	3	0	0	17	7	1	2	-
Jeonbuk	2	11	1	0	2	1	0	12	2	0	2	-
Jeonnam	2	26	2	0	2	0	0	14	7	0	0	-
Gyeongbuk	0	10	2	0	2	1	4	29	14	0	0	-
Gyeongnam	1	21	3	0	4	0	0	27	7	0	1	-
Jeju	0	1	0	0	2	0	1	11	8	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 September 29, 2018 (39th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.9 cases (=0.39%)
- Variation: decrease from 4.4 cases in 38th week
- Sentinel reporting sites: 200 hospitals/clinics
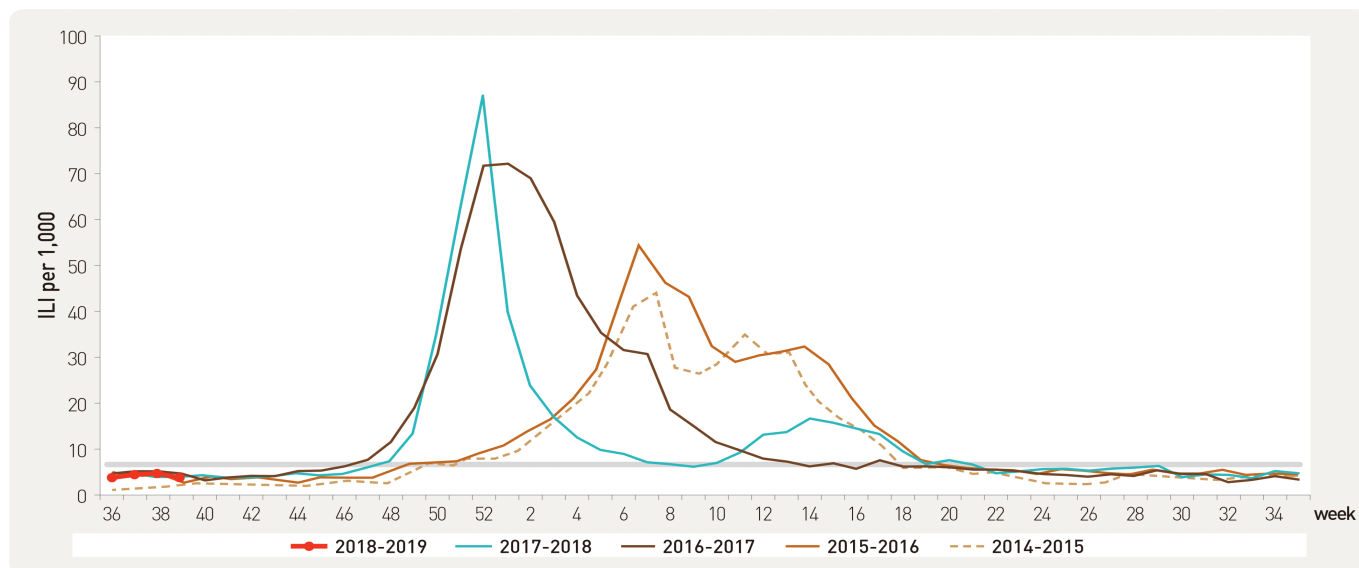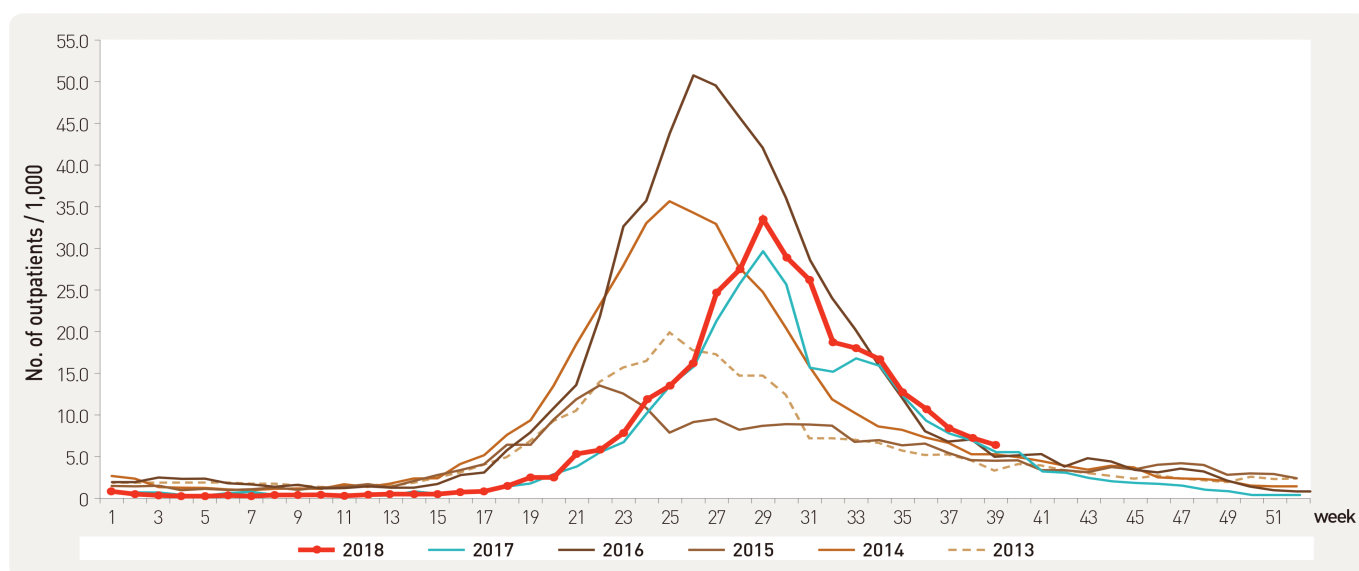 ※ 2017-2018 outbreak standard: 6.6 cases (/1,000)

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 September 29, 2018 (39th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 6.3 cases
- Variation: decrease from 7.3 cases in 38th 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 September 29, 2018 (39th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 35.8 cases
- Variation: decrease from 38.6 cases in 38th week
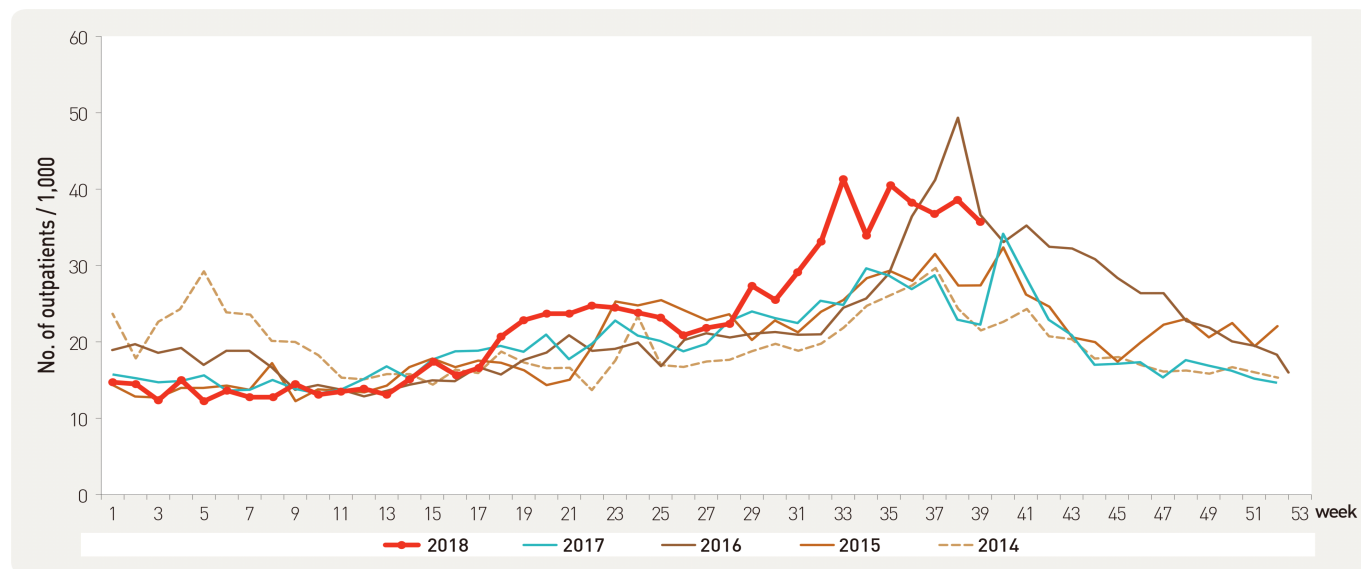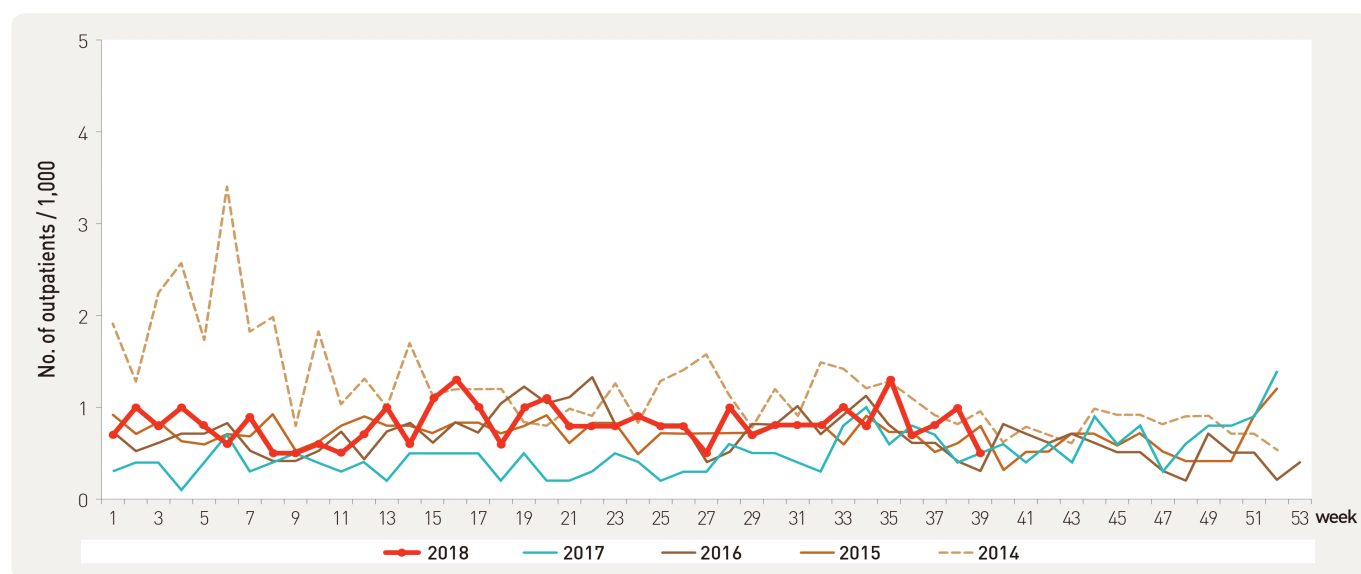- Sentinel reporting sites: 92 hospitals/clinics

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

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.5 case
- Variation: decrease from 1.0 case in 38th 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 September 29, 2018 (39th Week)

- Cases per sentinel: 3.5 for genital herpes, 2.5 for chlamydia, 2.1 for condyloma acuminata, 1.0 for gonorrhea
- Variation from 38th week
  Increase: chlamydia (2.1 → 2.5), genital herpes (2.6 → 3.5), condyloma acuminata (1.9 → 2.1)
  Decrease: gonorrhea (1.1 → 1.0)
- Sentinel reporting sites: 580 hospitals/clinics
  ※ No. of reported sites in 39th week: 9 for gonorrhea, 21 for chlamydia, 23 for genital herpes, 12 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[§]
1.0	6.7	8.9	2.5	25.2	20.9	3.5	33.5	23.5	2.1	19.0	14.5

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 September 29, 2018 (39th Week)

- No. of reported outbreaks: 9 with 42 patients (cumulative no. of outbreaks: 578 with 12,833 patients)
- Variation: decrease from 19 in 38th week
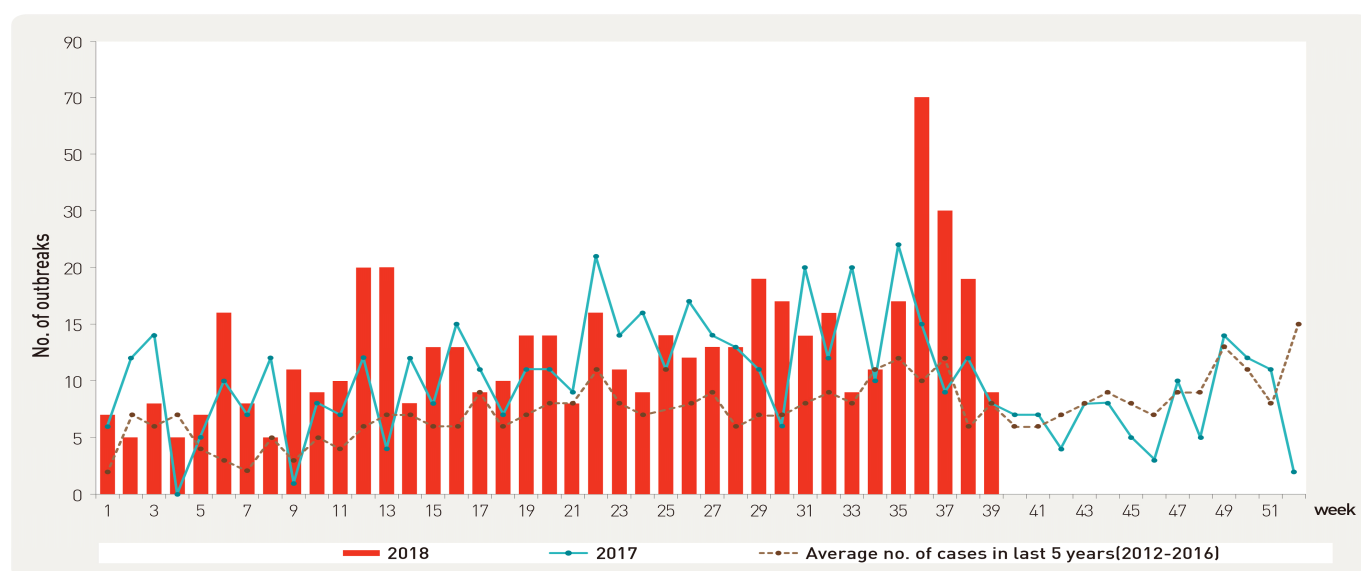- Reporting sites: 254 health centers

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 September 22, 2018 (38th Week)

- Weekly reported number of specimens positive for influenza: 3 case (1.4%) / 214 specimens
  [influenza subtype: A(H1N1)pdm09 2 cases, A(H3N2) 1 case, B 0 case]
- Variation(%p): increase from 1 case (0.4%) / 239 specimens in 37th week
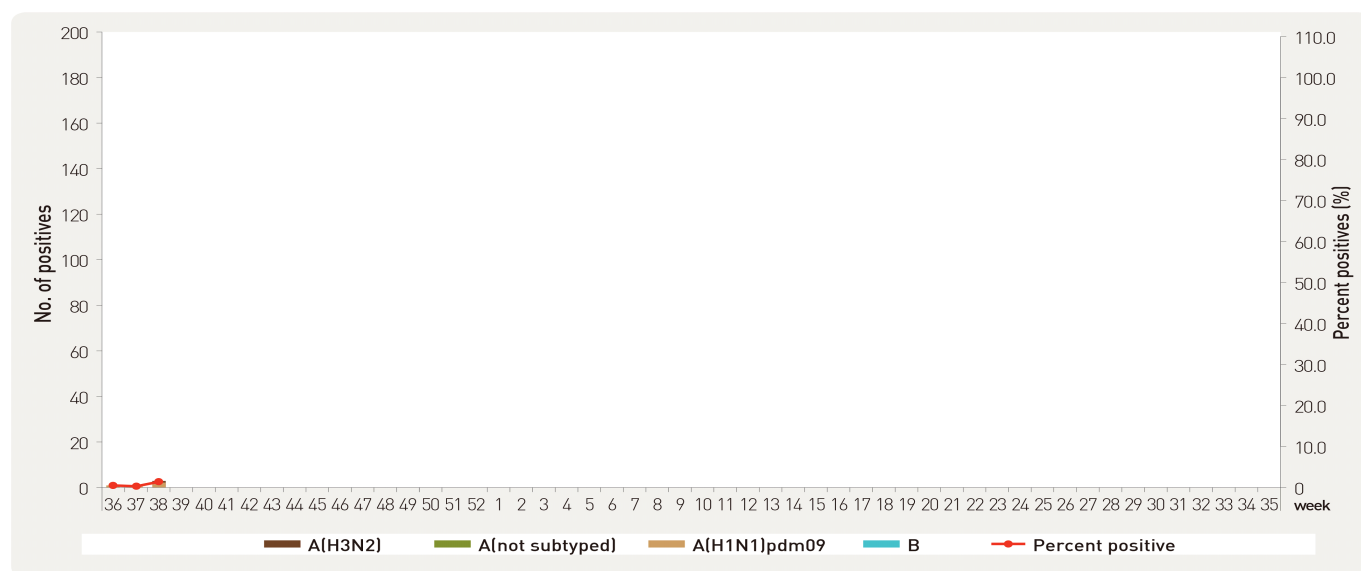- Sentinel reporting sites: 52 hospitals/clinics

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

2. Respiratory viruses, weeks ending September 22, 2018 (38th Week)

- Detection rate: 51.4% (cumulative mean proportion during preceding three weeks plus current week: 49.2% out of 826 specimens)
- Variation(%p): decrease from 51.5% in 37th 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
35	175	43.4	12.0	8.0	1.7	0.0	5.7	15.4	0.6	0.0
36	198	50.5	19.2	4.5	1.5	0.5	1.5	20.2	2.0	1.0
37	239	51.5	14.2	10.0	3.8	0.4	1.7	20.9	0.0	0.4
38	214	51.4	11.2	2.8	0.9	1.4	2.8	31.3	0.5	0.5
Cum.※	826	49.2	14.2	6.3	2.0	0.6	2.9	22.0	0.8	0.5
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 August 26 2018. – September 22 2018, (Average No. of detected cases is 207 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 September 22, 2018 (38th Week)

- Detection rate: 0.0% [cumulative mean proportion in 2018: 693 cases (26.1%) out of 2,655 specimens]
- Variation(%p): decrease from 17.1% in 37th 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	35	82	3	(3.7)	3	(3.7)	3	(3.7)	2	(2.4)	12	(14.6)
	36	61	1	(1.6)	1	(1.6)	1	(1.6)	4	(6.6)	8	(13.1)
	37	41	0	(0.0)	2	(4.9)	0	(0.0)	1	(2.4)	7	(17.1)
	38	2	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Cum. 2018		2,655	224	(8.4)	307	(11.6)	224	(8.4)	100	(3.8)	693	(26.1)

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

2. Acute gastroenteritis-causing bacteria, weeks ending September 22, 2018 (38th Week)

- Detection rate: 19.1% [cumulative mean proportion in 2018: 996 cases (14.3%) out of 6,964 specimens]
- Variation(%p): decrease from 25.7% in 37th 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	35	185	12 (6.5)	16 (8.6)	0 (0)	0 (0)	0 (0)	3 (1.6)	4 (2.2)	6 (3.2)	8 (4.3)	49 (26.5)
	36	175	10 (5.7)	23 (13.1)	0 (0)	2 (1.1)	0 (0)	1 (0.6)	0 (0)	4 (2.3)	3 (1.7)	43 (24.6)
	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)
Cum. 2018		6,964	224 (3.2)	344 (4.9)	4 (0.1)	8 (0.1)	0 (0)	75 (1.1)	78 (1.1)	131 (1.9)	129 (1.9)	996 (14.3)

* 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 September 22, 2018 (38th Week)

- Detection rate: 43.8% (21 cases / 48 specimens) [cumulative mean proportion in 2018: 34.3% (625 cases / 1,821 specimens)]
  - Aseptic meningitis: 12 cases (Cum. 2018: 182 cases)
  - HFMD and herpangina: 5 cases (Cum. 2018: 266 cases)
  - HFMD with complications: 0 case (Cum. 2018: 24 cases)
  - Other: 4 cases (Cum. 2018: 153 cases)
- Variation(%p): increase from 31.0% in 37th week of 2018
- Sentinel reporting sites: 8 city/provincial health and environmental institutes and 63 hospitals/clinics
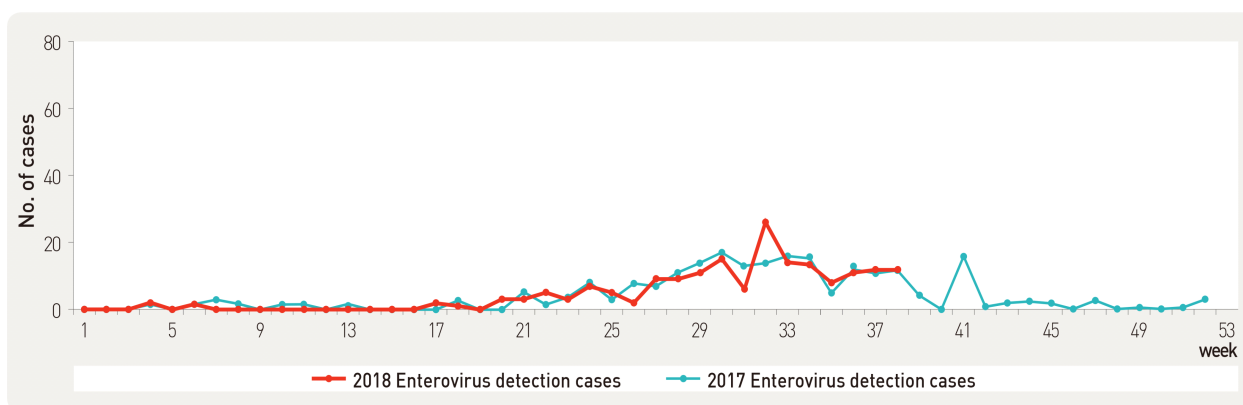

Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018
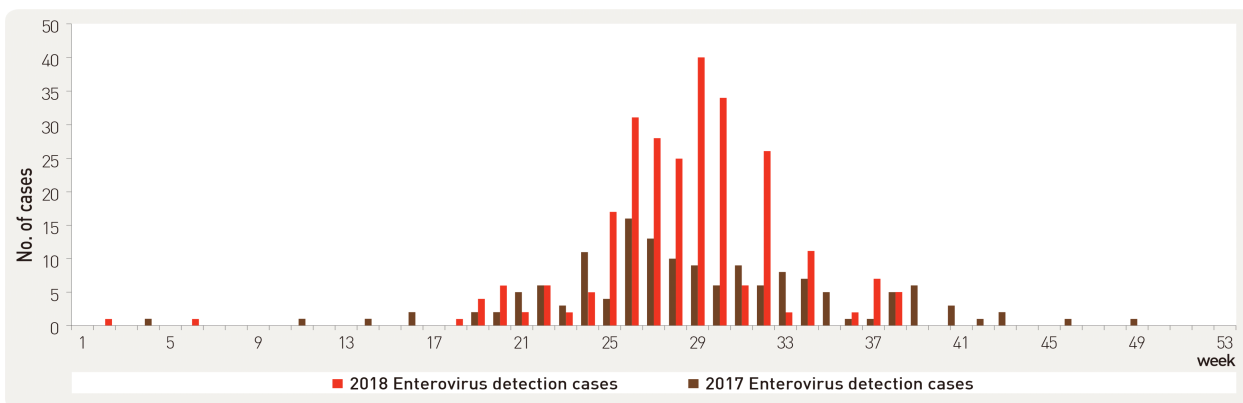

Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018
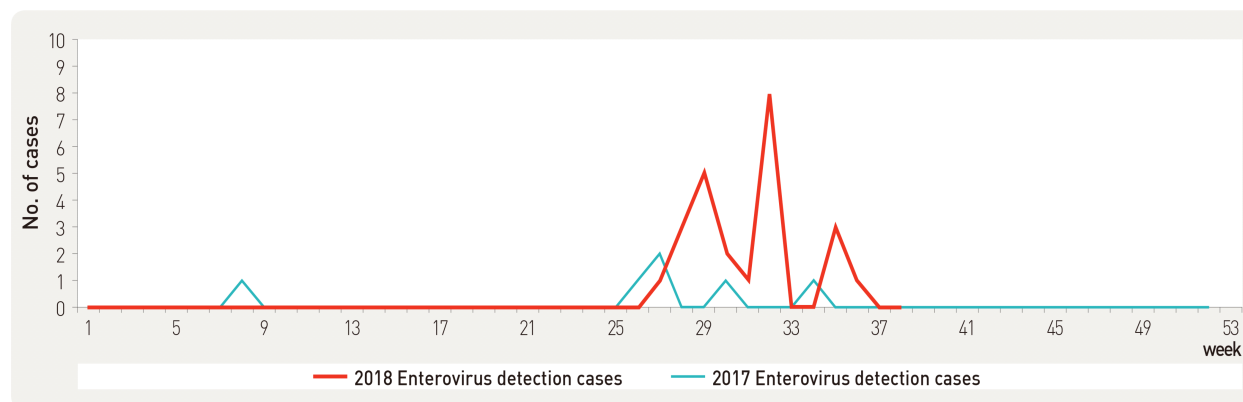

Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

1. Malaria vector mosquitoes, weeks ending September 22, 2018 (38th Week)

- No. of malaria vector mosquitoes: 2
- Variation: decrease from 11 in 37th week of 2018
- Sentinel reporting sites: 3 city/province (20 sites)
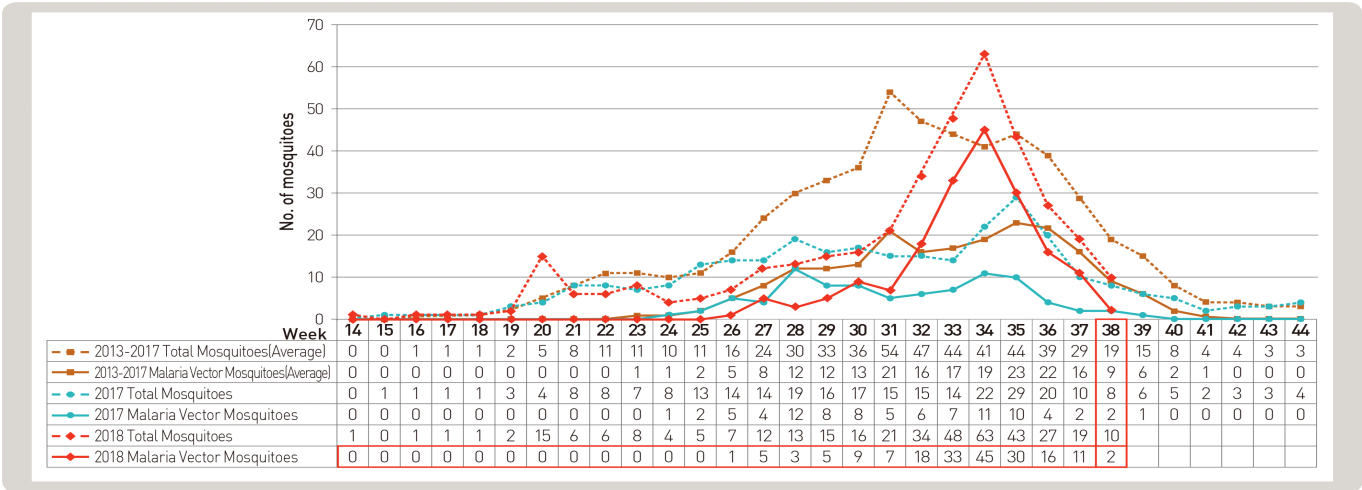 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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	10						
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						

Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending September 22, 2018 (38th Week)

- No. of Japanese encephalitis vector mosquitoes: 72
  ※ JEV: Japanese encephalitis vector
- Variation: increase from 60 in 37th week of 2018
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)
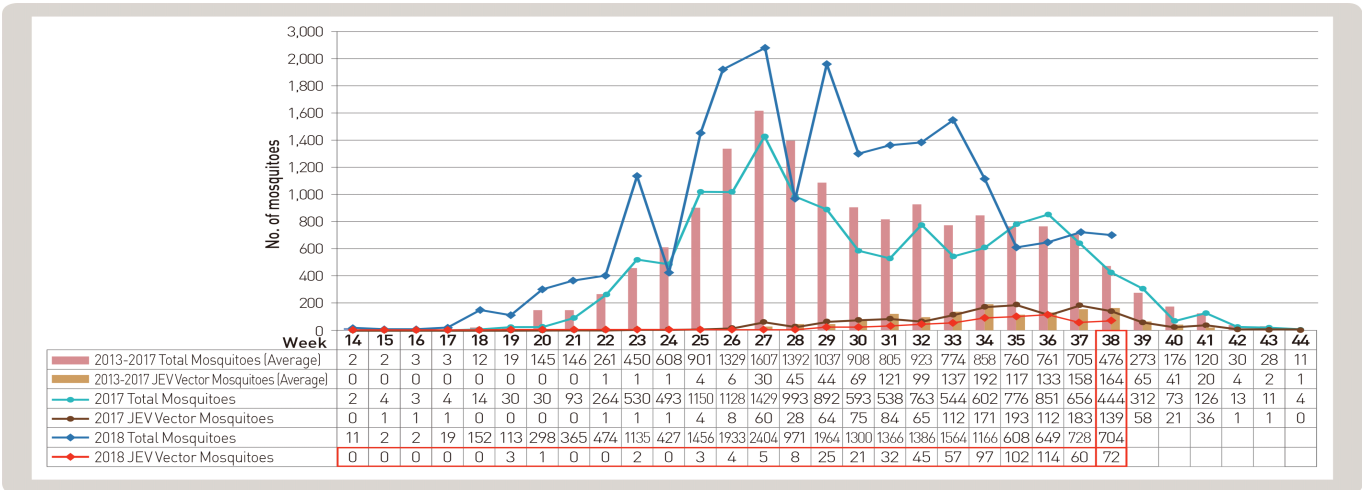 ※ No. of mosquitoes: average number of mosquitoes/trap/day

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	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						
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						

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 September 25, 2018 (39th Week)

- No. of chigger mites: 0.0
- Variation: decrease from 0.1 in 38th week of 2018
- Sentinel reporting sites: 11 city/province (16 sites)
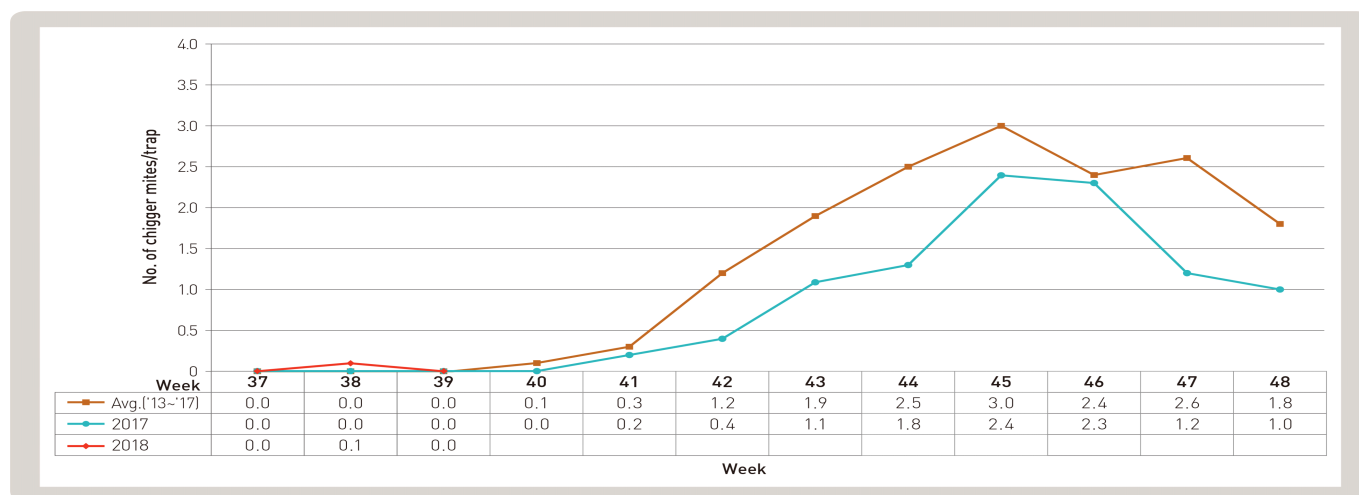 ※ No. of chigger mites: average number of chigger/trap/week

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									

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

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

1. Severe fever with thrombocytopenia syndrome vector ticks, weeks ending September 22, 2018 (38th Week)

- No. of severe fever with thrombocytopenia syndrome vector ticks per trap: 156.5
  ※ T.I.: Trap index (No. of ticks / trap)
- Variation: increase from 154.2 in 34th week (July) of 2018
- Sentinel reporting sites: 11 city/province (16 sites)
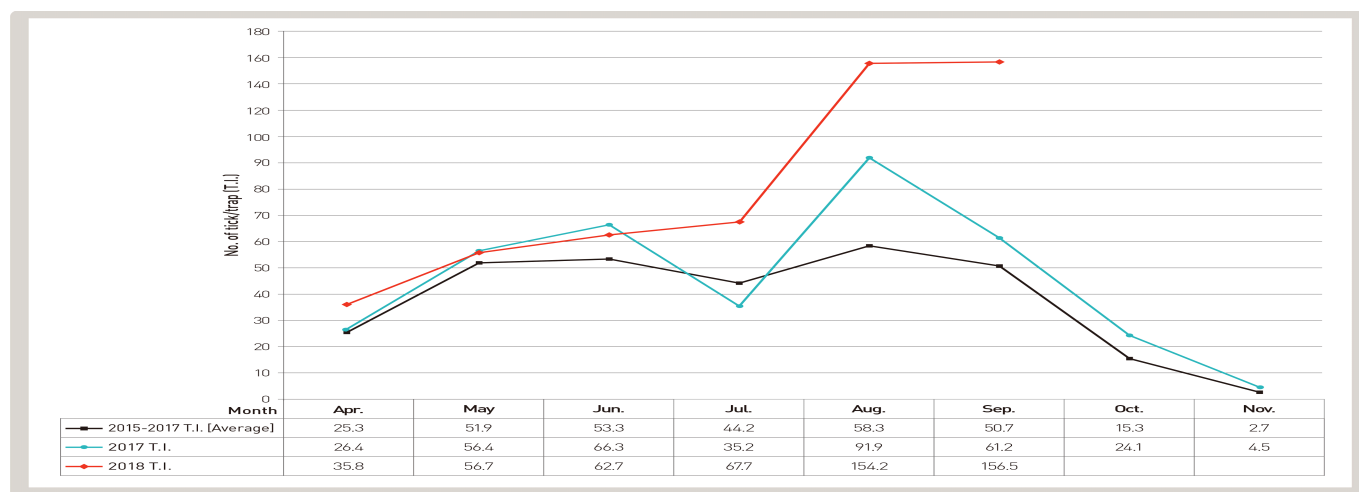 ※ No. of vector ticks: average number of vector ticks/trap/day

Month	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
2015-2017 T.I. [Average]	25.3	51.9	53.3	44.2	58.3	50.7	15.3	2.7
2017 T.I.	26.4	56.4	66.3	35.2	91.9	61.2	24.1	4.5
2018 T.I.	35.8	56.7	62.7	67.7	154.2	156.5		

Figure 13. Monthly incidences of severe fever with thrombocytopenia syndrome vector ticks in 2018

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:

Mail:

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