

I. National Notifiable Infectious Diseases

1. Reported cases, week ending July 14, 2018 (28th 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	14	189	3	128	121	121	251	156	
Paratyphoid fever	7	30	1	73	56	44	37	54	Cuba(1)
Shigellosis	12	150	2	111	113	88	110	294	Philippines(5), Ghana(1)
EHEC	13	70	4	138	104	71	111	61	Philippines(1)
Viral hepatitis A	29	1,542	46	4,419	4,679	1,804	1,307	867	
Category II									
Pertussis	43	336	4	318	129	205	88	36	
Tetanus	0	20	1	34	24	22	23	22	
Measles	7	85	2	7	18	7	442	107	
Mumps	505	11,851	422	16,924	17,057	23,448	25,286	17,024	
Rubella	1	56	1	7	11	11	11	18	
Viral hepatitis B (Acute)	14	222	6	391	359	155	173	117	
Japanese encephalitis	0	0	0	9	28	40	26	14	
Varicella	1,954	50,336	801	80,092	54,060	46,330	44,450	37,361	
<i>Haemophilus influenza</i> type b	0	2	0	3	0	0	0	0	
<i>Streptococcus pneumoniae</i>	12	444	4	523	441	228	36	-	
Category III									
Malaria	41	314	32	515	673	699	638	445	
Scarlet fever [§]	329	11,491	185	22,838	11,911	7,002	5,809	3,678	
Meningococcal meningitis	0	10	0	17	6	6	5	6	
Legionellosis	7	156	2	198	128	45	30	21	
<i>Vibrio vulnificus</i> sepsis	0	1	1	46	56	37	61	56	
Murine typhus	0	7	0	18	18	15	9	19	
Scrub typhus	85	1,109	21	10,528	11,105	9,513	8,130	10,365	
Leptospirosis	7	36	1	103	117	104	58	50	
Brucellosis	20	34	0	6	4	5	8	16	Unknown(1)
Rabies	0	0	0	0	0	0	0	0	
HFRS	21	184	6	531	575	384	344	527	
Syphilis	28	1,280	27	2,148	1,569	1,006	1,015	799	
CJD/vCJD	4	38	1	36	42	33	65	34	
Tuberculosis	619	15,355	666	28,161	30,892	32,181	34,869	36,089	
HIV/AIDS	17	475	26	1,009	1,062	1,018	1,081	1,013	
Viral hepatitis C	246	6,161	-	6,396	-	-	-	-	Russia(1)
VRSA	0	0	-	0	-	-	-	-	
CRE	260	5,798	-	5,716	-	-	-	-	

1. (Continued) Reported cases, week ending July 14, 2018 (28th 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	103	6	171	313	255	165	252	Philippines(3), Laos(2), Malaysia(1), Maldives(1), Vietnam(1), Thailand(1)
Q fever	31	214	1	96	81	27	8	11	Thailand(1)
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	7	58	0	31	27	9	13	11	Philippines(1)
Melioidosis	0	0	0	2	4	4	2	2	
Chikungunya fever	1	10	0	5	10	2	1	2	Philippines(1)
SFTS	14	91	4	272	165	79	55	36	
MERS	0	0	-	0	0	185	-	-	
Zika virus infection	2	2	-	11	16	-	-	-	Thailand(2)

Abbreviation: EHEC= Enterohemorrhagic *Escherichia coli*, HFRS= Hemorrhagic fever with renal syndrome, CJD/vCJD= Creutzfeldt-Jacob Disease / variant Creutzfeldt-Jacob Disease, VRSA = Vancomycin-resistant *Staphylococcus aureus*, CRE = Carbapenem-resistant Enterobacteriaceae, SFTS = Severe fever with thrombocytopenia syndrome, MERS-CoV= Middle East Respiratory Syndrome Coronavirus.

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

* The reported data for year 2018 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 July 14, 2018 (28th 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	0	14	189	97	7	30	26	12	150	52
Seoul	0	0	0	2	35	18	1	8	5	1	29	9
Busan	0	2	0	1	22	6	0	2	3	1	12	3
Daegu	0	0	0	0	5	4	0	1	1	0	15	1
Incheon	0	0	0	1	11	5	0	1	2	1	12	9
Gwangju	0	0	0	2	7	4	1	2	1	0	3	1
Daejeon	0	0	0	0	4	5	0	0	1	0	2	1
Ulsan	0	0	0	0	5	0	0	0	0	0	1	0
Sejong	0	0	0	0	2	0	0	0	0	0	1	0
Gyeonggi	0	0	0	3	40	16	3	9	5	3	22	14
Gangwon	0	0	0	0	9	1	1	1	0	1	4	0
Chungbuk	0	0	0	0	7	2	0	1	1	0	1	1
Chungnam	0	0	0	1	7	6	0	0	1	3	16	2
Jeonbuk	0	0	0	1	3	1	0	0	2	0	1	2
Jeonnam	0	0	0	2	7	5	1	4	1	0	5	3
Gyeongbuk	0	0	0	0	9	4	0	0	1	1	20	1
Gyeongnam	0	0	0	1	13	18	0	1	1	1	6	4
Jeju	0	0	0	0	3	2	0	0	1	0	0	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 July 14, 2018 (28th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category I						Diseases of Category II					
	Enterohemorrhagic <i>Escherichia coli</i>			Viral hepatitis A			Pertussis			Tetanus		
	Current week	Cum. 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	13	70	48	29	1,542	1,656	43	336	61	0	20	9
Seoul	2	12	6	6	309	323	1	41	12	0	3	1
Busan	1	5	2	1	35	91	6	22	4	0	1	1
Daegu	1	7	6	0	45	35	1	8	1	0	2	0
Incheon	1	5	4	3	108	141	1	27	4	0	2	0
Gwangju	0	6	9	0	20	53	0	12	4	0	0	0
Daejeon	0	2	0	2	80	69	0	7	0	0	0	0
Ulsan	1	4	2	0	13	19	3	14	1	0	1	0
Sejong	0	0	0	0	10	8	1	7	0	0	0	0
Gyeonggi	1	7	7	7	473	491	5	63	11	0	2	1
Gangwon	2	4	2	1	37	36	0	3	1	0	0	1
Chungbuk	0	2	2	0	54	46	2	17	0	0	0	0
Chungnam	2	3	1	1	140	98	1	7	2	0	1	0
Jeonbuk	0	1	0	4	100	74	0	8	1	0	0	0
Jeonnam	0	3	3	0	23	68	0	10	4	0	4	2
Gyeongbuk	1	3	1	3	47	35	0	18	8	0	3	1
Gyeongnam	0	2	1	1	41	58	22	71	7	0	1	2
Jeju	1	4	2	0	7	11	0	1	1	0	0	0

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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 July 14, 2018 (28th 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	7	85	108	505	11,851	10,298	1	56	9	14	222	127
Seoul	2	17	23	62	1,480	1,001	0	10	2	5	39	21
Busan	0	1	4	35	720	734	0	3	1	0	11	10
Daegu	0	1	2	19	485	325	0	2	1	0	8	4
Incheon	0	5	11	30	616	456	0	0	0	0	12	9
Gwangju	0	0	1	21	346	729	0	0	0	2	5	2
Daejeon	0	4	3	20	425	391	0	4	0	0	9	3
Ulsan	0	0	1	17	379	320	0	0	0	1	5	4
Sejong	0	0	0	4	76	26	0	0	0	0	0	0
Gyeonggi	3	35	29	121	3,270	2,282	0	16	4	2	62	29
Gangwon	0	1	1	20	388	386	0	4	0	0	7	4
Chungbuk	0	4	2	14	342	181	0	2	0	0	7	4
Chungnam	0	2	2	28	511	389	0	4	0	0	10	7
Jeonbuk	1	1	1	28	490	884	0	1	0	0	8	10
Jeonnam	0	3	8	22	443	536	0	3	0	2	9	6
Gyeongbuk	0	3	5	20	622	470	1	4	1	0	11	6
Gyeongnam	1	6	15	37	1,067	1,036	0	2	0	2	17	7
Jeju	0	2	0	7	191	152	0	1	0	0	2	1

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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 July 14, 2018 (28th 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	0	0	1,954	50,336	27,367	41	314	264	329	11,491	5,885
Seoul	0	0	0	207	5,340	2,763	5	38	34	30	1,728	688
Busan	0	0	0	173	2,807	1,842	1	5	3	18	1,031	414
Daegu	0	0	0	110	2,717	1,538	1	7	3	7	343	263
Incheon	0	0	0	61	2,079	1,597	6	43	39	7	531	267
Gwangju	0	0	0	75	1,700	793	0	4	1	32	468	259
Daejeon	0	0	0	19	1,341	743	0	2	1	9	359	207
Ulsan	0	0	0	62	1,754	872	0	1	2	14	665	221
Sejong	0	0	0	55	775	143	0	0	1	1	68	24
Gyeonggi	0	0	0	569	14,089	7,780	24	186	152	117	3,062	1,767
Gangwon	0	0	0	40	1,456	1,078	1	7	11	6	186	91
Chungbuk	0	0	0	56	2,018	552	0	1	3	5	225	103
Chungnam	0	0	0	59	1,603	1,139	0	3	2	14	395	277
Jeonbuk	0	0	0	93	2,237	1,221	0	3	2	21	589	181
Jeonnam	0	0	0	51	1,755	1,211	2	4	2	14	444	214
Gyeongbuk	0	0	0	82	2,319	1,247	0	1	4	13	504	369
Gyeongnam	0	0	0	187	4,330	2,162	1	6	3	19	799	464
Jeju	0	0	0	55	2,016	686	0	3	1	2	94	76

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§ 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 July 14, 2018 (28th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Meningococcal meningitis			Legionellosis			<i>Vibrio vulnificus</i> 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	0	10	5	7	156	36	0	1	3	0	7	7
Seoul	0	1	2	2	39	11	0	0	0	0	1	2
Busan	0	0	1	0	13	2	0	0	0	0	0	1
Daegu	0	0	0	0	7	1	0	0	0	0	0	0
Incheon	0	3	0	1	12	3	0	1	0	0	1	0
Gwangju	0	0	0	0	0	0	0	0	0	0	0	1
Daejeon	0	0	0	0	3	0	0	0	0	0	0	0
Ulsan	0	0	0	0	3	1	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	2	2	3	33	7	0	0	1	0	2	1
Gangwon	0	0	0	1	7	2	0	0	0	0	0	0
Chungbuk	0	0	0	0	9	1	0	0	0	0	0	0
Chungnam	0	1	0	0	3	1	0	0	0	0	0	1
Jeonbuk	0	0	0	0	1	1	0	0	0	0	0	0
Jeonnam	0	0	0	0	1	1	0	0	1	0	0	1
Gyeongbuk	0	0	0	0	20	2	0	0	0	0	0	0
Gyeongnam	0	3	0	0	4	2	0	0	1	0	3	0
Jeju	0	0	0	0	1	1	0	0	0	0	0	0

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§ 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 July 14, 2018 (28th 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	85	1,109	397	7	36	14	20	34	4	21	184	131
Seoul	5	46	19	0	2	0	1	2	1	0	10	6
Busan	8	34	18	0	0	1	1	2	0	0	6	2
Daegu	1	12	6	0	1	0	2	2	1	0	2	1
Incheon	1	22	9	0	0	0	3	5	0	0	2	2
Gwangju	3	28	9	0	1	1	0	0	0	2	3	2
Daejeon	2	15	14	0	0	1	0	0	0	0	2	3
Ulsan	1	17	8	0	1	0	1	1	0	0	2	1
Sejong	1	3	2	0	0	0	1	1	0	0	0	0
Gyeonggi	6	79	50	2	6	3	3	5	0	7	35	42
Gangwon	1	17	15	0	1	1	0	0	0	2	7	11
Chungbuk	1	38	5	0	2	0	3	8	0	1	13	7
Chungnam	9	138	31	2	9	1	3	5	0	3	29	11
Jeonbuk	9	117	37	0	1	1	0	0	0	4	18	9
Jeonnam	23	304	79	0	5	2	1	2	0	1	22	15
Gyeongbuk	5	68	29	2	6	1	0	0	1	1	23	12
Gyeongnam	9	163	62	1	1	2	1	1	0	0	9	6
Jeju	0	8	4	0	0	0	0	0	1	0	1	1

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§ 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 July 14, 2018 (28th 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	28	1,280	620	4	38	26	619	15,355	17,848	9	103	93
Seoul	8	281	123	3	13	6	105	2,712	3,444	5	40	31
Busan	1	102	33	0	6	2	50	1,029	1,322	0	10	4
Daegu	0	55	29	0	3	2	24	713	896	1	4	4
Incheon	0	105	60	0	1	1	41	792	930	0	5	4
Gwangju	2	54	18	0	0	1	24	392	445	0	1	1
Daejeon	1	38	16	0	1	0	15	344	414	0	0	4
Ulsan	0	15	10	0	0	0	16	330	385	0	1	1
Sejong	0	8	2	0	0	0	1	62	46	0	0	0
Gyeonggi	10	350	167	1	8	5	117	3,310	3,714	2	29	25
Gangwon	2	26	18	0	0	1	37	655	746	0	1	1
Chungbuk	2	33	13	0	0	1	14	527	536	0	1	1
Chungnam	1	43	21	0	0	2	28	747	784	0	1	2
Jeonbuk	0	29	13	0	1	1	21	609	671	0	2	3
Jeonnam	0	18	18	0	0	1	35	825	887	1	3	2
Gyeongbuk	0	51	24	0	3	2	44	1,067	1,257	0	3	3
Gyeongnam	1	41	37	0	2	1	43	1,030	1,169	0	1	5
Jeju	0	31	18	0	0	0	4	211	202	0	1	2

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§ 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 July 14, 2018 (28th 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	31	214	19	7	58	4	14	91	26	2	2	-
Seoul	4	44	2	2	24	2	0	3	1	1	1	-
Busan	3	7	0	0	2	1	0	3	0	0	0	-
Daegu	3	13	1	1	1	0	0	0	0	0	0	-
Incheon	1	7	0	1	7	0	0	0	0	0	0	-
Gwangju	0	5	0	0	1	0	0	0	0	0	0	-
Daejeon	0	5	1	0	0	0	0	0	0	0	0	-
Ulsan	0	3	0	0	0	0	0	1	0	0	0	-
Sejong	1	1	0	0	0	0	0	0	0	0	0	-
Gyeonggi	7	40	3	0	7	0	1	10	5	0	0	-
Gangwon	2	3	0	1	1	0	3	15	3	0	0	-
Chungbuk	3	27	4	0	1	0	1	2	0	0	0	-
Chungnam	3	15	3	1	6	0	2	10	3	0	0	-
Jeonbuk	0	2	1	0	1	0	1	8	1	0	0	-
Jeonnam	1	11	1	0	0	0	2	7	2	0	0	-
Gyeongbuk	1	10	1	1	3	1	0	11	4	0	0	-
Gyeongnam	1	18	2	0	3	0	4	15	3	1	1	-
Jeju	1	3	0	0	1	0	0	6	4	0	0	-

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

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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending July 14, 2018 (28th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 4.2 cases (=0.42%)
- Variation: decrease from 4.5 cases in 27th week
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2017-2018 outbreak standard: 6.6 cases (/1,000)

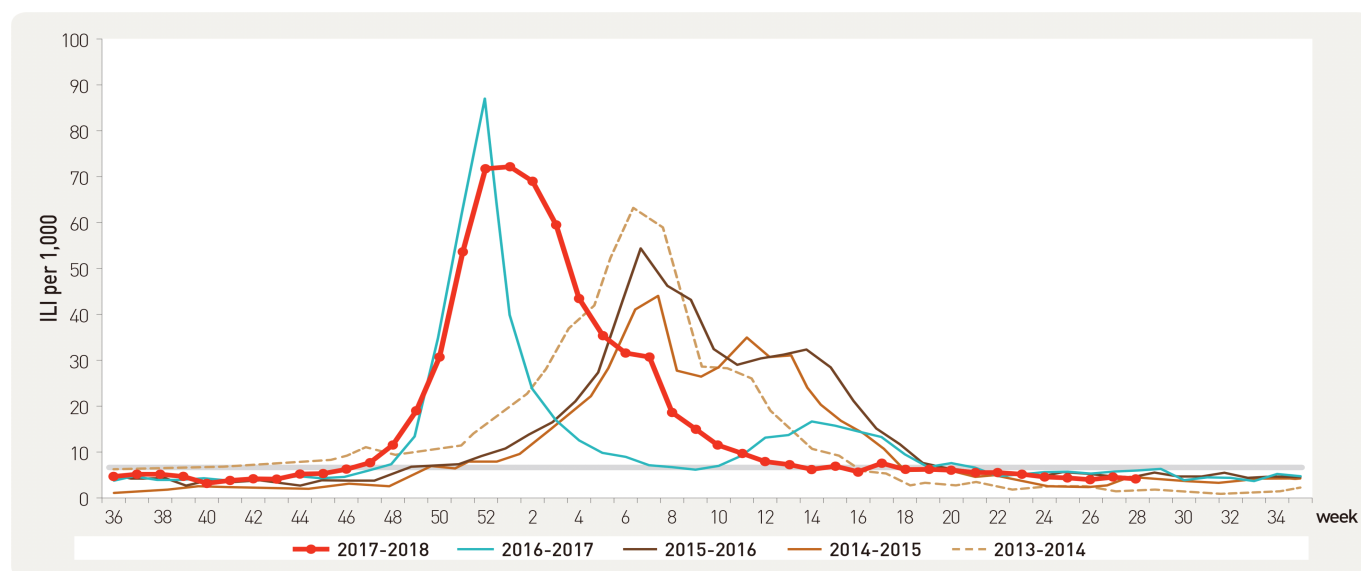


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2013-2014 to 2017-2018 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending July 14, 2018 (28th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 27.5 cases
- Variation: increase from 24.9 cases in 27th week
- Sentinel reporting sites: 95 hospitals/clinics

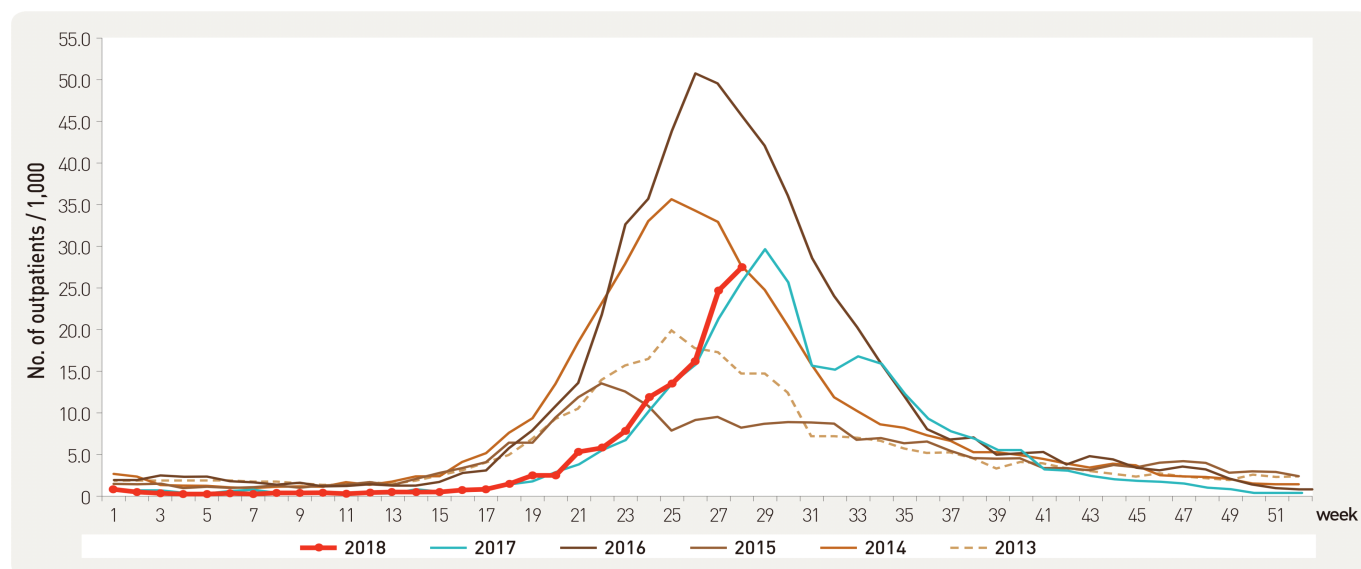


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2013-2017

3. Ophthalmologic infectious diseases, weeks ending July 14, 2018 (28th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 22.3 cases
- Variation: increase from 21.8 cases in 27th week
- Sentinel reporting sites: 92 hospitals/clinics

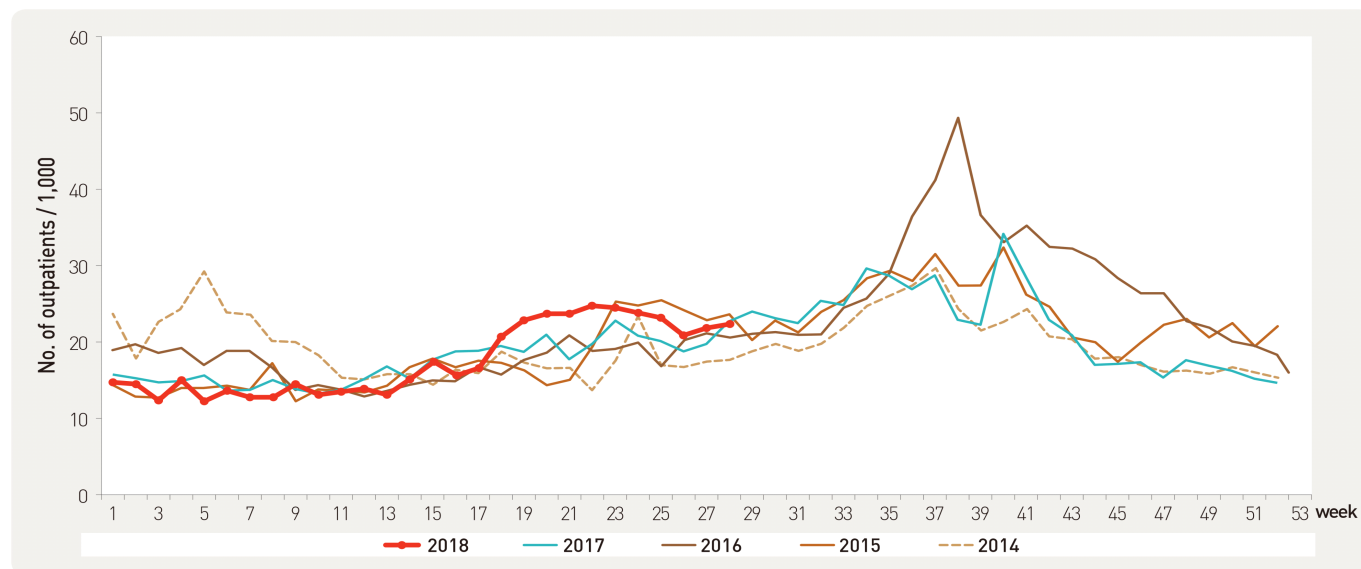


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2014-2018

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 1.0 case
- Variation: increase from 0.4 case in 27th week
- Sentinel reporting sites: 92 hospitals/clinics

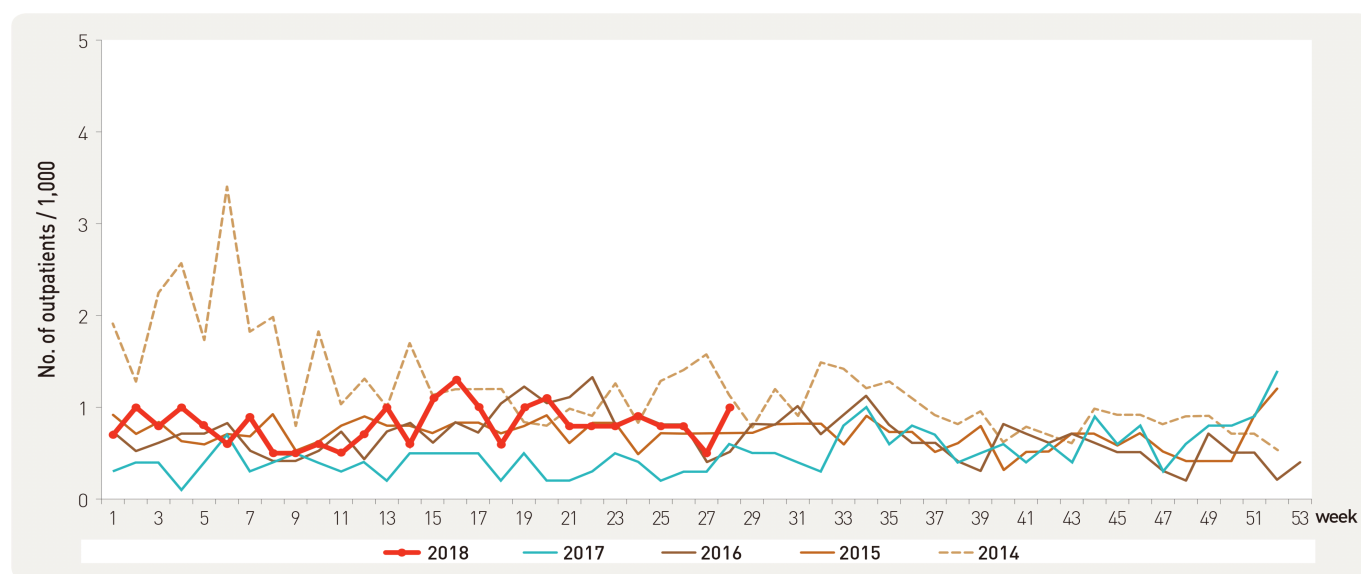


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2014-2018

4. Sexually Transmitted Diseases[†], weeks ending July 14, 2018 (28th Week)

- Cases per sentinel: 2.8 for genital herpes, 2.2 for condyloma acuminata, 1.8 for chlamydia, 1.4 for gonorrhea
- Variation from 27th week
Increase: gonorrhea (1.1 → 1.4), condyloma acuminata (1.5 → 2.2)
Decrease: chlamydia (2.1 → 1.8), genital herpes (2.9 → 2.8)
- Sentinel reporting sites: 580 hospitals/clinics
※ No. of reported sites in 28th week: 14 for gonorrhea, 51 for chlamydia, 38 for genital herpes, 31 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	5.4	6.9	1.8	18.8	16.1	2.8	24.9	18.3	2.2	14.8	11.1

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 July 14, 2018 (28th Week)

- No. of reported outbreaks: 13 (cumulative no. of outbreaks: 321 with 5,218 patients)
- Variation: no change from 13 in 27th week
- Reporting sites: 254 health centers

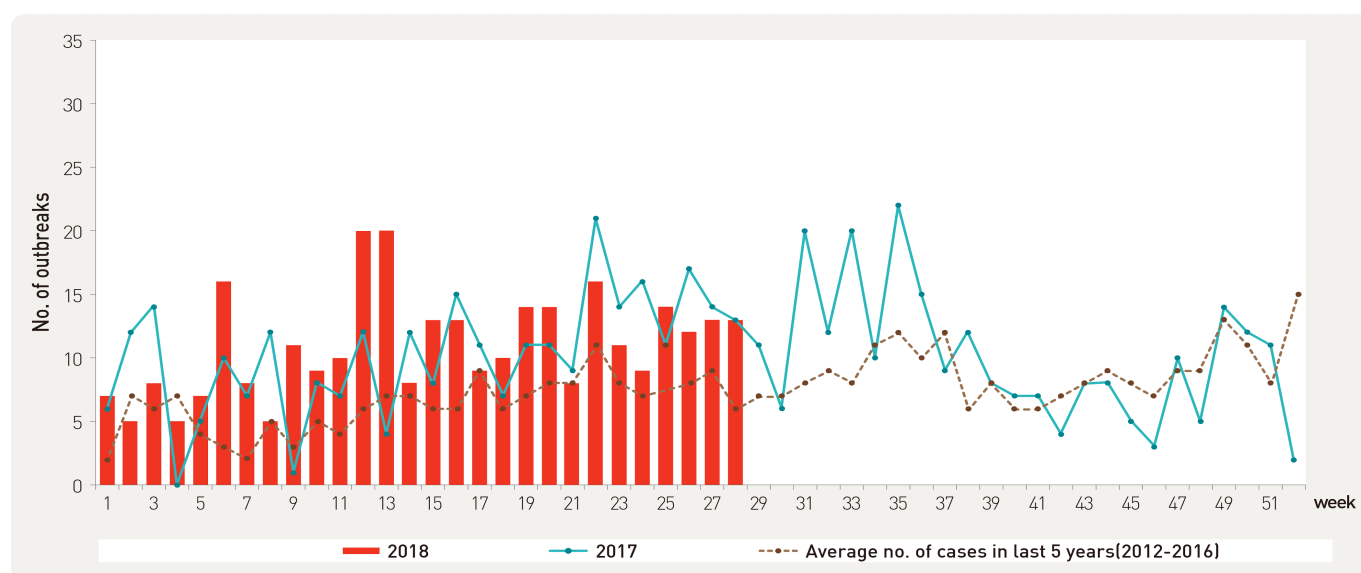


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2017-2018

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

1. Influenza viruses, Republic of Korea, weeks ending July 14, 2018 (28th Week)

- Weekly reported number of specimens positive for influenza: 0 case (0.0%) / 191 specimens [influenza subtype: A(H1N1)pdm09 0 case, A(H3N2) 0 case, B 0 case]
- Variation(%p): decrease from 1 case (0.6%) / 174 specimens in 27th week
- Sentinel reporting sites: 52 hospitals/clinics

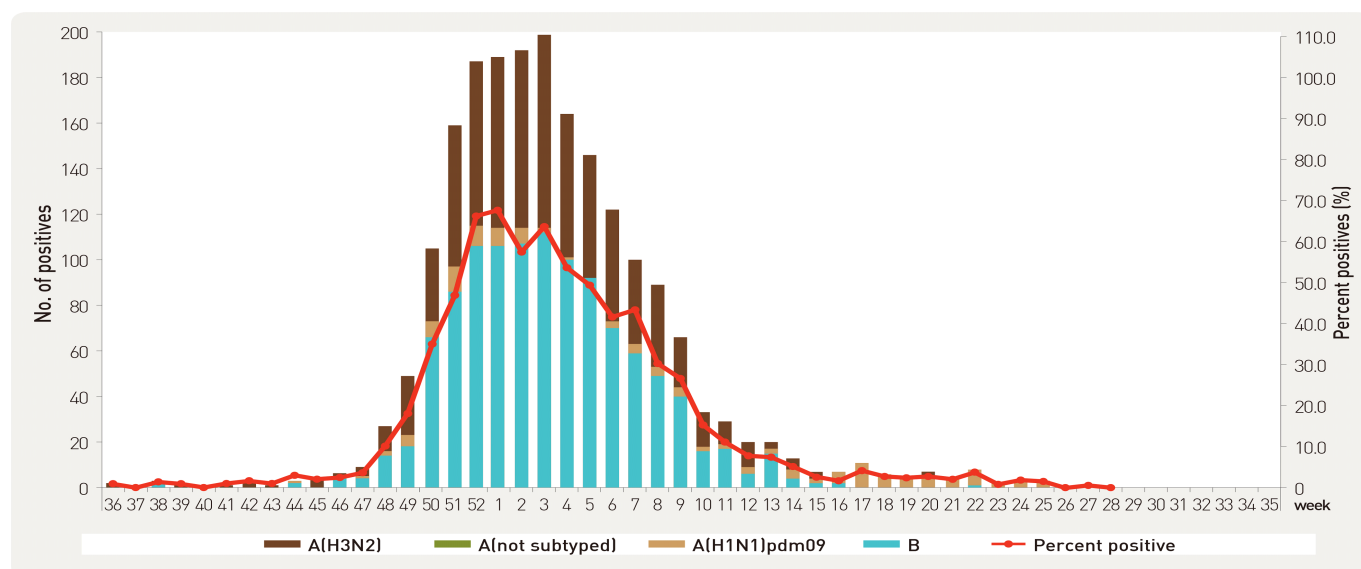


Figure 6. Number of specimens positive for influenza by subtype, 2016-2017 to 2017-2018 flu season

2. Respiratory viruses, weeks ending July 14, 2018 (28th Week)

- Detection rate: 48.2% (cumulative mean proportion during preceding three weeks plus current week: 57.4% out of 756 specimens)
- Variation(%p): decrease from 58.6% in 27th 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
25	191	66.5	9.9	18.8	0.5	1.6	0.0	24.6	7.9	3.1
26	200	56.5	4.5	15.5	0.5	0.0	0.0	25.0	7.5	3.5
27	174	58.6	5.2	12.6	1.1	0.6	0.6	20.1	13.2	5.2
28	191	48.2	5.2	13.1	0.0	0.0	0.5	18.8	6.8	3.7
Cum.*	756	57.4	6.2	15.1	0.5	0.5	0.3	22.2	8.7	3.8
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 June 17, 2018. – July 14, 2018, (Average No. of detected cases is 189 in 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 July 7, 2018 (27th Week)

- Detection rate: 17.4% [cumulative mean proportion in 2018: 580 cases (30.8%) out of 1,886 specimens]
- Variation(%P): decrease from 22.5% in 26th 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	24	76	4	(5.3)	4	(5.3)	7	(9.2)	3	(3.9)	18	(23.7)
	25	97	7	(7.2)	11	(11.3)	3	(3.1)	2	(2.1)	23	(23.7)
	26	71	2	(2.8)	10	(14.1)	4	(5.6)	0	(0.0)	16	(22.5)
	27	46	0	(0.0)	4	(8.7)	4	(8.7)	0	(0.0)	8	(17.4)
Cum. 2018		1,886	209	(11.1)	280	(14.8)	61	(3.2)	30	(1.6)	580	(30.8)

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

2. Acute gastroenteritis-causing bacteria, weeks ending July 7, 2018 (27th Week)

- Detection rate: 18.3% [cumulative mean proportion in 2018: 515 cases (10.5%) out of 4,904 specimens]
- Variation(%P): decrease from 19.9% in 26th 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, %)									
			<i>Salmonella</i> spp.	Pathogenic <i>E. coli</i>	<i>Shigella</i> spp.	<i>V. parahaemolyticus</i>	<i>V. cholerae</i>	<i>Campylobacter</i> spp.	<i>C. perfringens</i>	<i>S. aureus</i>	<i>B. cereus</i>	Total
2018	24	188	4 (2.1)	12 (6.4)	0 (0)	0 (0)	0 (0)	2 (1.1)	1 (0.5)	3 (1.6)	4 (2.1)	26 (13.8)
	25	182	16 (8.8)	15 (8.2)	0 (0)	0 (0)	0 (0)	3 (1.6)	3 (1.6)	7 (3.8)	4 (2.2)	48 (26.4)
	26	201	8 (4.0)	13 (6.5)	0 (0)	0 (0)	0 (0)	3 (1.5)	1 (0.5)	11 (5.5)	4 (2.0)	40 (19.9)
	27	213	8 (3.8)	12 (5.6)	0 (0)	1 (0.5)	0 (0)	5 (2.3)	3 (1.4)	2 (0.9)	8 (3.8)	39 (18.3)
Cum. 2018		4,904	116 (2.4)	144 (2.9)	2 (0.04)	3 (0.06)	0 (0)	33 (0.7)	58 (1.2)	81 (1.7)	77 (1.6)	515 (10.5)

* 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 July 7, 2018 (27th Week)

- Detection rate: 48.4% (46 cases / 95 specimens) [cumulative mean proportion in 2018: 21.9% (188 cases / 857 specimens)]
 - Aseptic meningitis: 9 cases (Cum. 2018: 43 cases)
 - HFMD and herpangina: 28 cases (Cum. 2018: 104 cases)
 - HFMD with complications: 1 case (Cum. 2018: 1 case)
 - Other: 8 cases (Cum. 2018: 40 cases)
- Variation(%P): increase from 46.4% in 26th week of 2018
- Sentinel reporting sites: 8 city/provincial health and environmental institutes and 63 hospitals/clinics

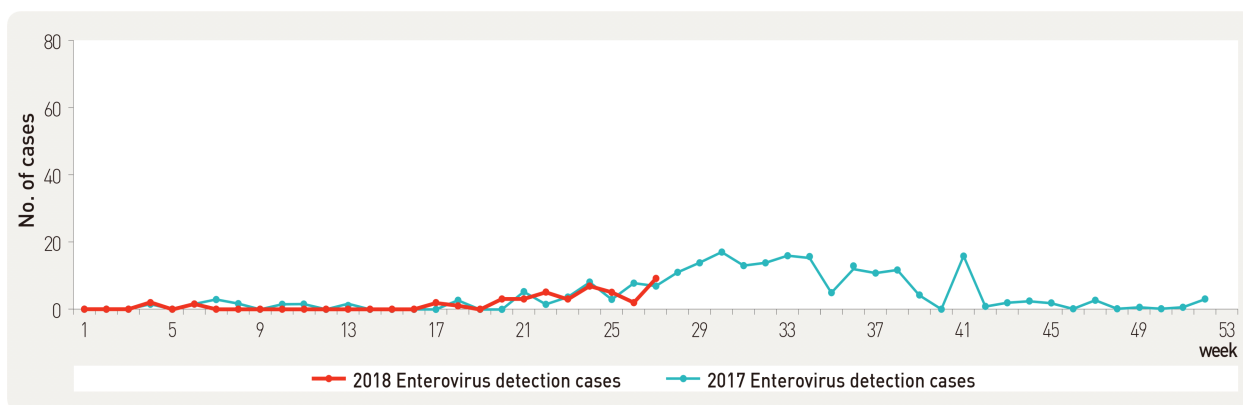


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

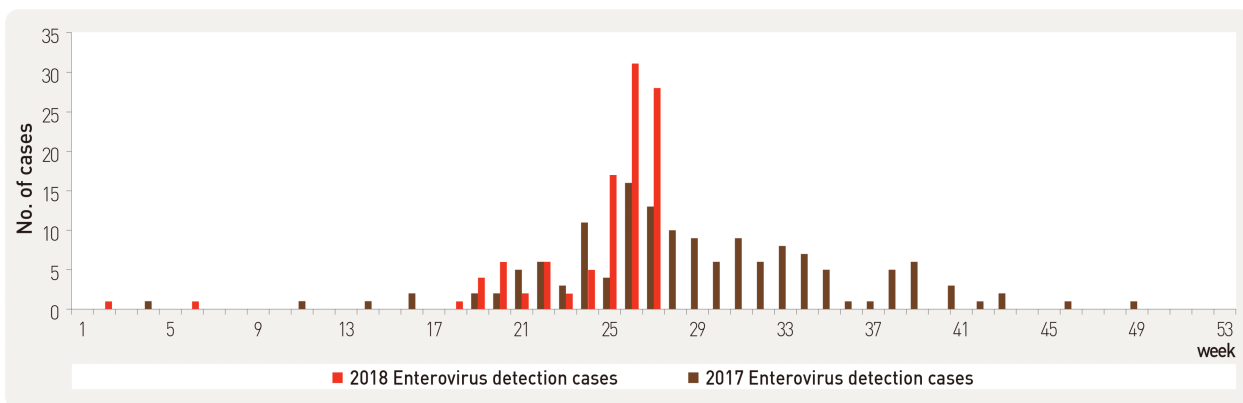


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

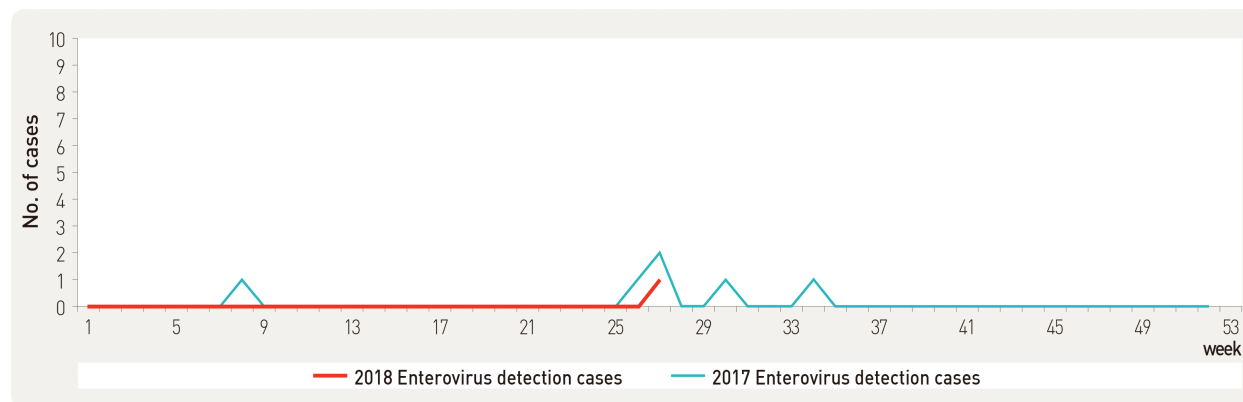


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending July 7, 2018 (27th Week)

- No. of malaria vector mosquitoes: 5
- Variation: increase from 1 in 26th week of 2018
- Sentinel reporting sites: 3 city/province (20 sites)

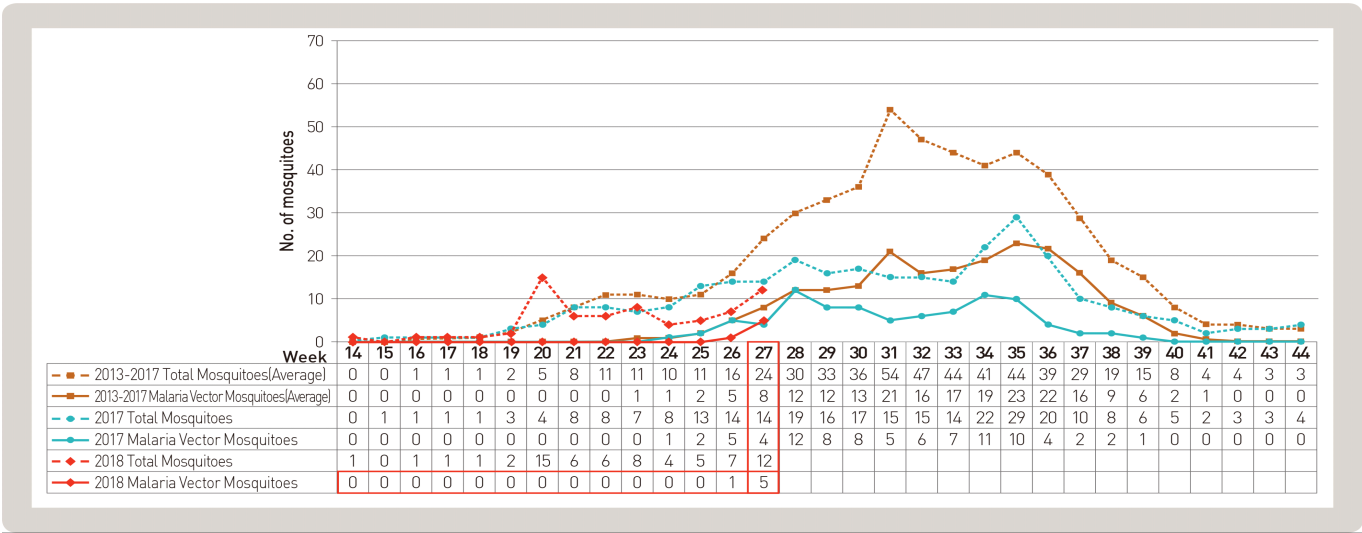


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending July 7, 2018 (27th Week)

- No. of Japanese encephalitis vector mosquitoes: 5
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 4 in 26th week of 2018
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)

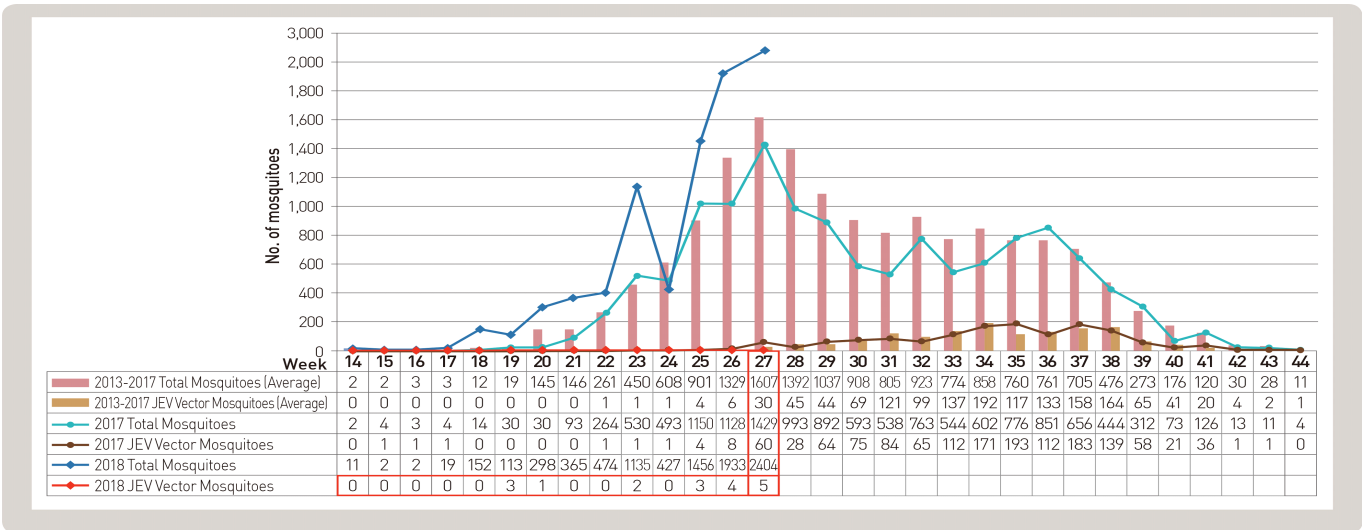


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

About PHWR Disease Surveillance Statistics

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

Using and Interpreting These Data in Tables

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

For example,

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

5-year weekly average for current week

$$= (X1 + X2 + \dots + X25) / 5$$

- **Cum. 5-year average** – Mean value calculated by cumulative counts from 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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