

I. National Notifiable Infectious Diseases

1. Reported cases, week ending July 21, 2018 (29th 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	Philippines(1), Ghana(1)
Typhoid fever	10	191	3	128	121	121	251	156	
Paratyphoid fever	6	29	1	73	56	44	37	54	
Shigellosis	7	156	3	111	113	88	110	294	
EHEC	11	79	4	138	104	71	111	61	
Viral hepatitis A	51	1,593	44	4,419	4,679	1,804	1,307	867	
Category II									
Pertussis	56	386	5	318	129	205	88	36	Taiwan(1)
Tetanus	2	19	1	34	24	22	23	22	
Measles	11	73	2	7	18	7	442	107	
Mumps	458	12,240	388	16,924	17,057	23,448	25,286	17,024	
Rubella	2	46	1	7	11	11	11	18	
Viral hepatitis B (Acute)	16	237	5	391	359	155	173	117	
Japanese encephalitis	0	0	0	9	28	40	26	14	
Varicella	2,113	52,471	722	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>	2	446	3	523	441	228	36	-	
Category III									
Malaria	24	337	32	515	673	699	638	445	Nigeria(1), Republic of Cote d'Ivoire(1), Thailand(1)
Scarlet fever [§]	298	11,755	167	22,838	11,911	7,002	5,809	3,678	Thailand(1)
Meningococcal meningitis	0	10	0	17	6	6	5	6	
Legionellosis	7	162	2	198	128	45	30	21	
<i>Vibrio vulnificus</i> sepsis	2	3	1	46	56	37	61	56	
Murine typhus	2	9	0	18	18	15	9	19	
Scrub typhus	78	1,171	19	10,528	11,105	9,513	8,130	10,365	
Leptospirosis	6	40	1	103	117	104	58	50	
Brucellosis	16	41	0	6	4	5	8	16	
Rabies	0	0	0	0	0	0	0	0	
HFRS	18	194	6	531	575	384	344	527	
Syphilis	52	1,363	28	2,148	1,569	1,006	1,015	799	Vietnam(1)
CJD/vCJD	3	40	1	36	42	33	65	34	
Tuberculosis	607	15,855	658	28,161	30,892	32,181	34,869	36,089	
HIV/AIDS	22	497	23	1,009	1,062	1,018	1,081	1,013	
Viral hepatitis C	251	6,410	-	6,396	-	-	-	-	
VRSA	0	0	-	0	-	-	-	-	
CRE	226	6,040	-	5,716	-	-	-	-	

1. (Continued) Reported cases, week ending July 21, 2018 (29th 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	10	111	7	171	313	255	165	252	Vietnam(3), Thailand(2), Malaysia(1), Maldives(1), Cambodia(1), Thailand/ Myanmar(1), Philippines(1)
Q fever	32	226	1	96	81	27	8	11	Thailand(1)
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	15	66	1	31	27	9	13	11	Kenya(1)
Melioidosis	0	0	0	2	4	4	2	2	
Chikungunya fever	0	10	0	5	10	2	1	2	
SFTS	12	105	5	272	165	79	55	36	
MERS	0	0	-	0	0	185	-	-	
Zika virus infection	1	3	-	11	16	-	-	-	Cambodia(1)

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 21, 2018 (29th 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	10	191	100	6	29	28	7	156	54
Seoul	0	0	0	2	35	19	1	9	6	1	29	11
Busan	0	2	0	3	25	6	1	2	3	1	13	3
Daegu	0	0	0	0	5	4	0	1	1	0	16	1
Incheon	0	0	0	2	12	5	0	1	3	3	15	9
Gwangju	0	0	0	0	5	4	0	1	1	0	3	1
Daejeon	0	0	0	0	4	5	0	0	1	0	2	1
Ulsan	0	0	0	1	6	0	0	0	0	1	2	0
Sejong	0	0	0	0	2	0	0	0	0	0	1	0
Gyeonggi	0	0	0	0	40	17	2	8	5	0	22	14
Gangwon	0	0	0	0	9	1	1	2	0	0	4	0
Chungbuk	0	0	0	0	7	2	0	1	1	0	1	1
Chungnam	0	0	0	0	6	6	0	0	1	1	16	2
Jeonbuk	0	0	0	1	4	2	0	0	2	0	1	2
Jeonnam	0	0	0	0	6	5	1	4	1	0	5	3
Gyeongbuk	0	0	0	0	9	4	0	0	1	0	20	1
Gyeongnam	0	0	0	1	13	18	0	0	1	0	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

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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 21, 2018 (29th 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	11	79	50	51	1,593	1,706	56	386	67	2	19	10
Seoul	1	13	6	13	322	332	3	42	14	0	3	1
Busan	0	4	2	1	36	92	9	31	4	1	2	1
Daegu	2	9	6	0	45	37	1	9	1	0	2	0
Incheon	2	7	4	1	109	146	2	29	4	0	1	0
Gwangju	0	6	10	0	20	55	1	13	4	0	0	0
Daejeon	0	2	1	1	81	70	1	8	1	0	0	0
Ulsan	0	4	2	0	13	19	4	17	1	0	1	0
Sejong	0	0	0	1	11	8	0	7	0	0	0	0
Gyeonggi	1	8	7	17	490	509	6	67	12	0	2	1
Gangwon	0	4	2	3	40	37	0	3	1	0	0	1
Chungbuk	0	2	2	1	55	48	1	18	0	0	0	0
Chungnam	0	3	1	5	145	101	2	9	2	0	0	0
Jeonbuk	0	1	0	4	104	76	1	9	1	0	0	0
Jeonnam	2	5	3	0	23	69	1	11	4	0	3	2
Gyeongbuk	2	4	1	1	48	36	1	19	8	1	4	2
Gyeongnam	1	3	1	3	44	59	23	93	9	0	1	2
Jeju	0	4	2	0	7	12	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 21, 2018 (29th 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	11	73	111	458	12,240	10,731	2	46	10	16	237	131
Seoul	0	13	23	48	1,521	1,045	0	11	3	2	41	22
Busan	0	1	4	19	725	762	0	3	1	0	11	10
Daegu	3	4	2	19	501	337	1	1	1	1	9	5
Incheon	0	5	11	20	631	473	0	0	0	0	12	9
Gwangju	0	0	1	17	356	758	0	0	0	0	5	2
Daejeon	0	2	3	13	438	402	0	3	0	1	10	4
Ulsan	0	0	1	14	388	336	0	0	0	3	8	4
Sejong	0	0	0	2	78	27	0	0	0	0	0	0
Gyeonggi	4	31	30	153	3,413	2,391	1	12	4	3	64	30
Gangwon	2	3	1	15	399	400	0	3	0	1	8	4
Chungbuk	0	3	2	11	350	189	0	2	0	0	7	4
Chungnam	1	3	3	22	533	407	0	4	0	1	11	7
Jeonbuk	0	1	1	19	508	923	0	1	0	1	9	10
Jeonnam	1	2	8	18	457	552	0	2	0	2	11	6
Gyeongbuk	0	2	5	24	644	489	0	3	1	1	12	6
Gyeongnam	0	2	16	42	1,105	1,080	0	1	0	0	17	7
Jeju	0	1	0	2	193	160	0	0	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 21, 2018 (29th 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	2,113	52,471	28,112	24	337	298	298	11,755	6,050
Seoul	0	0	0	199	5,541	2,845	3	41	37	55	1,778	711
Busan	0	0	0	107	2,922	1,881	0	5	4	18	1,043	426
Daegu	0	0	0	101	2,823	1,573	0	7	4	3	345	269
Incheon	0	0	0	85	2,165	1,645	3	46	43	8	537	276
Gwangju	0	0	0	101	1,802	811	0	4	2	28	493	264
Daejeon	0	0	0	41	1,388	763	0	2	1	7	364	213
Ulsan	0	0	0	41	1,792	900	0	1	2	17	676	226
Sejong	0	0	0	24	799	147	0	0	1	2	69	25
Gyeonggi	0	0	0	633	14,723	7,996	13	199	172	89	3,150	1,812
Gangwon	0	0	0	39	1,497	1,107	2	9	12	8	193	96
Chungbuk	0	0	0	119	2,139	565	0	1	3	9	234	105
Chungnam	0	0	0	51	1,654	1,168	0	3	3	15	410	287
Jeonbuk	0	0	0	75	2,313	1,254	0	3	2	7	596	185
Jeonnam	0	0	0	94	1,849	1,250	1	4	2	6	449	220
Gyeongbuk	0	0	0	125	2,443	1,283	0	1	5	11	513	377
Gyeongnam	0	0	0	181	4,508	2,221	2	8	4	14	810	480
Jeju	0	0	0	97	2,113	703	0	3	1	1	95	78

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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 21, 2018 (29th 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	162	39	2	3	3	2	9	8
Seoul	0	1	2	1	40	12	0	0	0	0	1	2
Busan	0	0	1	0	13	3	0	0	0	0	0	1
Daegu	0	0	0	0	7	1	0	0	0	0	0	0
Incheon	0	3	0	1	13	3	0	1	0	1	2	1
Gwangju	0	0	0	1	1	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	2	35	8	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	1	1	0	0	0	1
Jeonbuk	0	0	0	0	1	1	0	0	0	0	0	0
Jeonnam	0	0	0	0	1	1	1	1	1	1	1	1
Gyeongbuk	0	0	0	0	20	2	0	0	0	0	0	0
Gyeongnam	0	3	0	1	5	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 21, 2018 (29th 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	78	1,171	413	6	40	16	16	41	5	18	194	136
Seoul	1	46	19	1	3	0	1	3	1	0	9	6
Busan	2	35	19	0	0	1	0	1	0	0	6	3
Daegu	1	12	6	0	1	0	1	3	1	0	2	1
Incheon	1	23	9	0	0	0	2	6	0	0	2	2
Gwangju	0	28	10	0	1	1	0	0	0	0	3	2
Daejeon	6	19	14	0	0	1	1	1	0	0	2	3
Ulsan	3	20	9	0	1	0	0	0	1	0	2	1
Sejong	0	3	2	0	0	0	0	1	0	0	0	0
Gyeonggi	7	85	51	0	5	4	2	6	0	6	40	43
Gangwon	4	21	15	0	1	1	0	0	0	2	8	11
Chungbuk	3	38	5	1	3	1	0	6	0	0	12	7
Chungnam	10	146	32	1	9	1	5	8	0	4	31	12
Jeonbuk	12	128	39	1	2	1	2	2	0	3	20	10
Jeonnam	13	315	83	1	6	2	0	2	0	1	23	16
Gyeongbuk	4	71	30	1	7	1	1	1	1	2	25	12
Gyeongnam	10	172	66	0	1	2	1	1	0	0	8	6
Jeju	1	9	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 21, 2018 (29th 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	52	1,363	650	3	40	28	607	15,855	18,495	10	111	103
Seoul	10	297	129	0	13	6	112	2,804	3,570	2	40	33
Busan	4	109	34	1	7	2	47	1,067	1,369	0	10	5
Daegu	2	58	30	0	3	2	22	726	925	1	6	5
Incheon	7	113	63	0	1	1	35	823	961	1	6	4
Gwangju	4	58	19	0	0	1	17	406	459	0	1	1
Daejeon	1	39	16	0	0	0	12	353	428	0	0	4
Ulsan	0	15	11	0	0	0	19	347	397	0	1	1
Sejong	0	8	2	0	0	0	2	63	48	0	0	0
Gyeonggi	11	371	176	1	9	6	128	3,412	3,851	4	33	28
Gangwon	1	28	18	0	0	1	21	675	773	2	3	2
Chungbuk	2	38	14	0	0	1	18	541	556	0	1	1
Chungnam	1	44	22	0	0	2	32	774	816	0	1	3
Jeonbuk	2	31	14	0	1	1	28	635	696	0	1	3
Jeonnam	0	21	19	0	0	1	20	840	921	0	3	2
Gyeongbuk	4	55	25	1	4	3	42	1,102	1,301	0	3	3
Gyeongnam	3	46	39	0	2	1	44	1,068	1,213	0	1	6
Jeju	0	32	19	0	0	0	8	219	211	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 21, 2018 (29th 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	32	226	22	15	66	5	12	105	32	1	3	-
Seoul	6	50	2	5	29	2	0	3	1	0	1	-
Busan	0	5	1	0	2	1	0	3	0	0	0	-
Daegu	2	13	1	1	2	0	0	0	0	1	1	-
Incheon	2	8	0	4	7	0	0	0	1	0	0	-
Gwangju	0	5	0	0	1	0	0	0	0	0	0	-
Daejeon	2	5	1	1	1	0	1	1	0	0	0	-
Ulsan	3	6	0	1	1	0	1	2	1	0	0	-
Sejong	1	2	0	0	0	0	0	0	0	0	0	-
Gyeonggi	5	41	3	1	7	1	0	11	5	0	0	-
Gangwon	0	2	0	0	1	0	2	17	3	0	0	-
Chungbuk	2	26	5	0	1	0	0	3	0	0	0	-
Chungnam	3	16	3	1	5	0	2	12	4	0	0	-
Jeonbuk	2	4	1	0	1	0	1	9	1	0	0	-
Jeonnam	3	14	1	1	1	0	2	9	2	0	0	-
Gyeongbuk	0	8	1	0	3	1	2	13	6	0	0	-
Gyeongnam	1	18	3	0	3	0	1	16	3	0	1	-
Jeju	0	3	0	0	1	0	0	6	5	0	0	-

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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending July 21, 2018 (29th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 5.2 cases (=0.52%)
- Variation: increase from 4.2 cases in 28th week
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2017-2018 outbreak standard: 6.6 cases (/1,000)

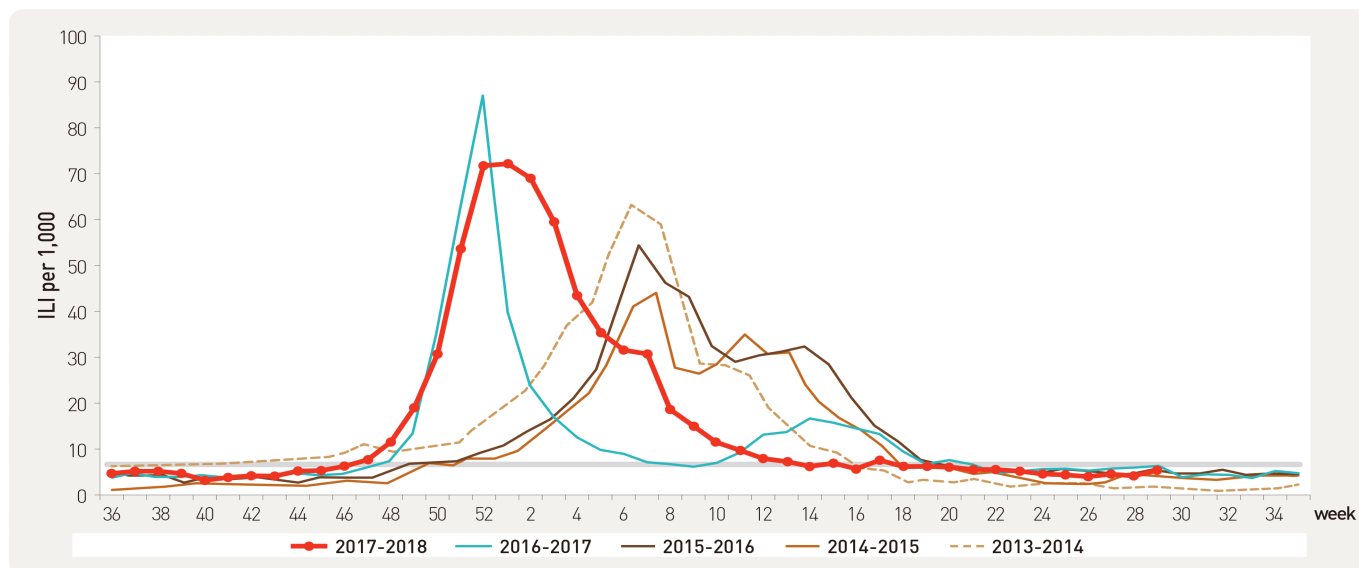


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2013-2014 to 2017-2018 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending July 21, 2018 (29th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 33.5 cases
- Variation: increase from 30.7 cases in 28th week
- Sentinel reporting sites: 95 hospitals/clinics

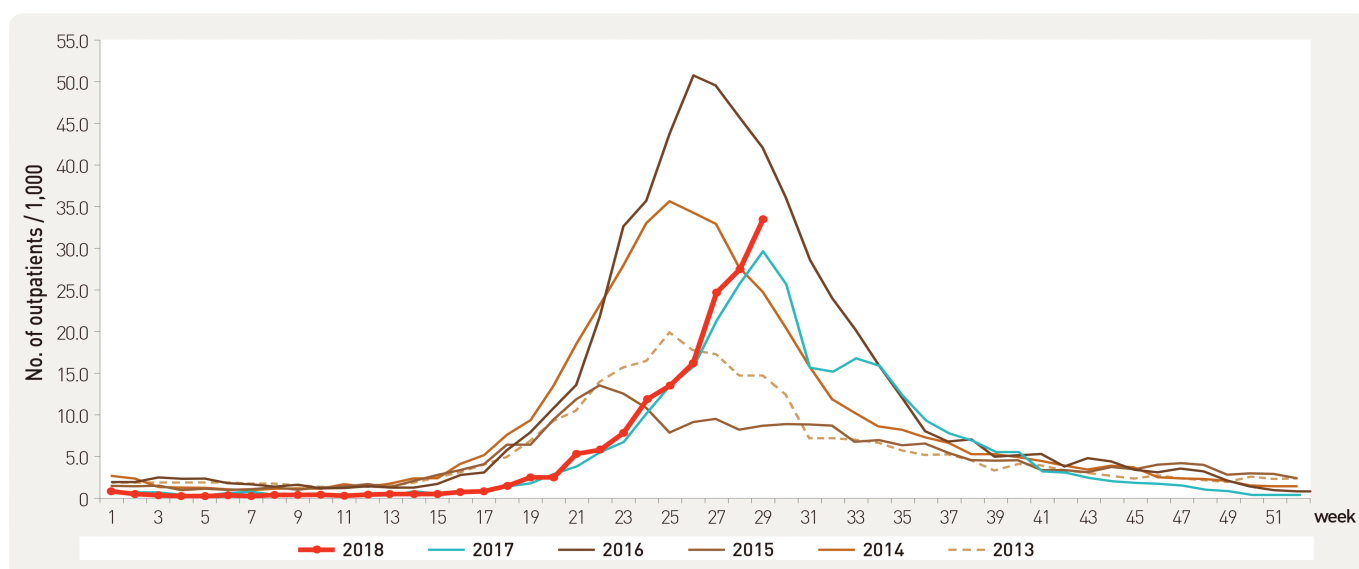


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2013-2017

3. Ophthalmologic infectious diseases, weeks ending July 21, 2018 (29th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 27.3 cases
- Variation: increase from 22.3 cases in 28th week
- Sentinel reporting sites: 92 hospitals/clinics

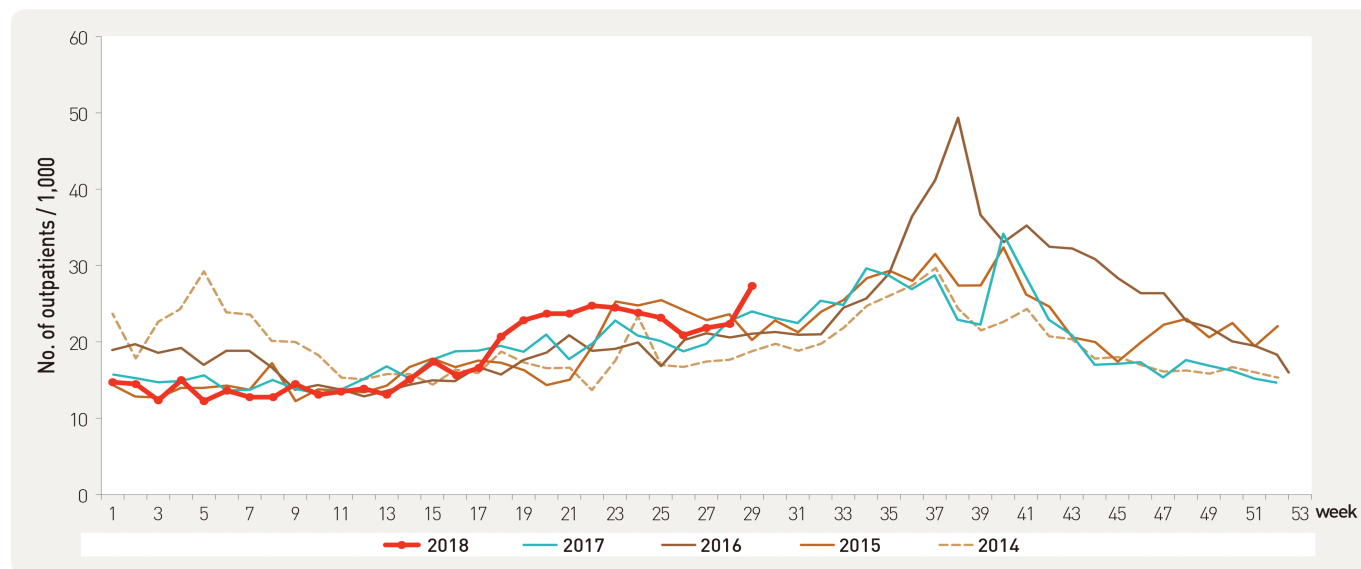


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2014-2018

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.8 case
- Variation: decrease from 1.0 case in 28th week
- Sentinel reporting sites: 92 hospitals/clinics

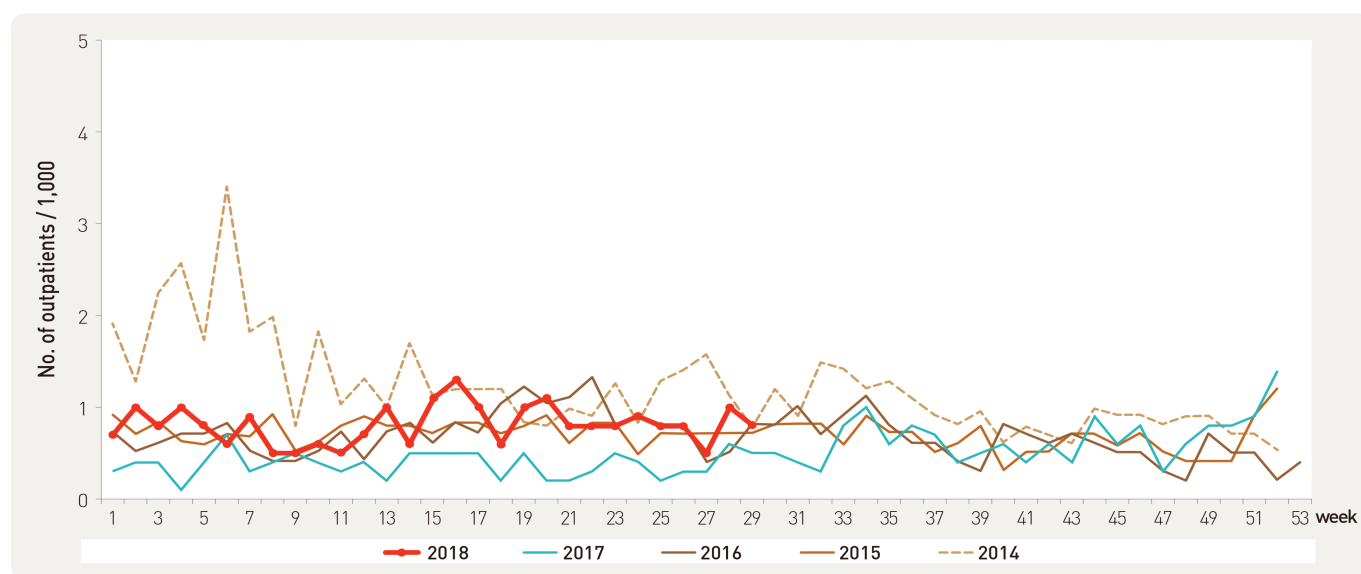


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2014-2018

4. Sexually Transmitted Diseases[†], weeks ending July 21, 2018 (29th Week)

- Cases per sentinel: 3.5 for genital herpes, 2.3 for condyloma acuminata, 2.0 for chlamydia, 1.4 for gonorrhea
- Variation from 28th week
Increase: chlamydia (1.8 → 2.0), genital herpes (2.8 → 3.5), condyloma acuminata (2.2 → 2.3)
No change: gonorrhea (1.4 → 1.4)
- Sentinel reporting sites: 580 hospitals/clinics
※ No. of reported sites in 29th week: 15 for gonorrhea, 53 for chlamydia, 41 for genital herpes, 24 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	5.5	7.0	2.0	19.2	16.4	3.5	25.4	18.7	2.3	15.0	11.4

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 21, 2018 (29th Week)

- No. of reported outbreaks: 19 with 378 patients (cumulative no. of outbreaks: 340 with 5,596 patients)
- Variation: increase from 13 in 28th week
- Reporting sites: 254 health centers

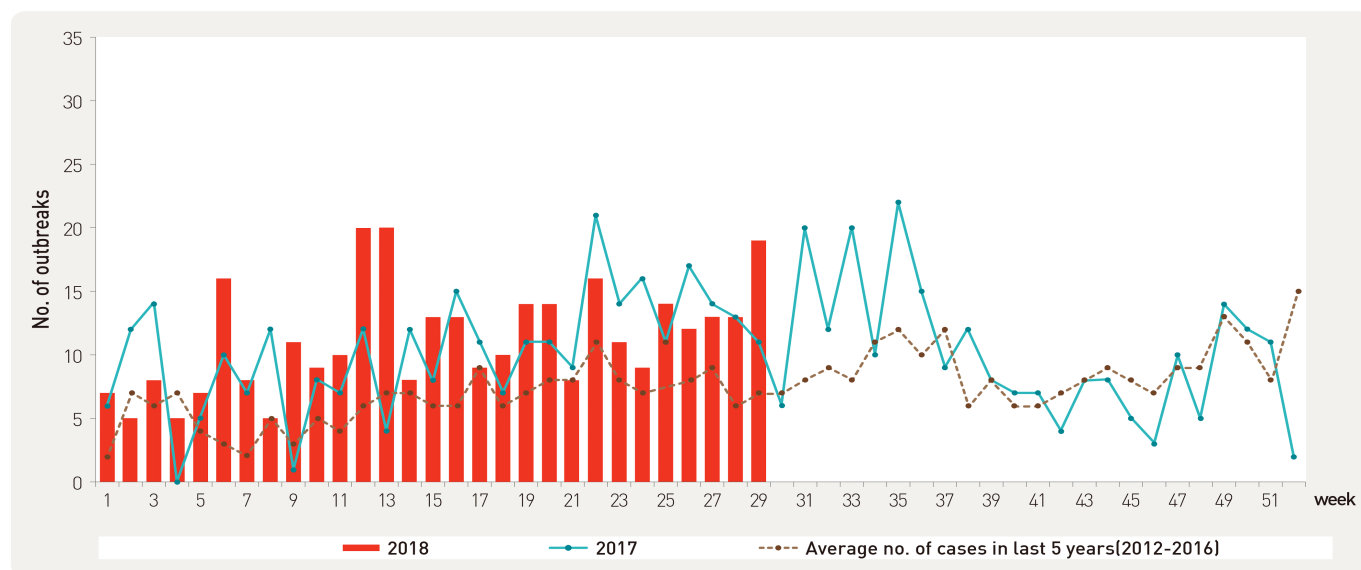


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2017-2018

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

1. Influenza viruses, Republic of Korea, weeks ending July 21, 2018 (29th Week)

- Weekly reported number of specimens positive for influenza: 2 cases (1.2%) / 166 specimens [influenza subtype: A(H1N1)pdm09 2 cases, A(H3N2) 0 case, B 0 case]
- Variation(%p): increase from 0 case (0.0%) / 191 specimens in 28th week
- Sentinel reporting sites: 52 hospitals/clinics

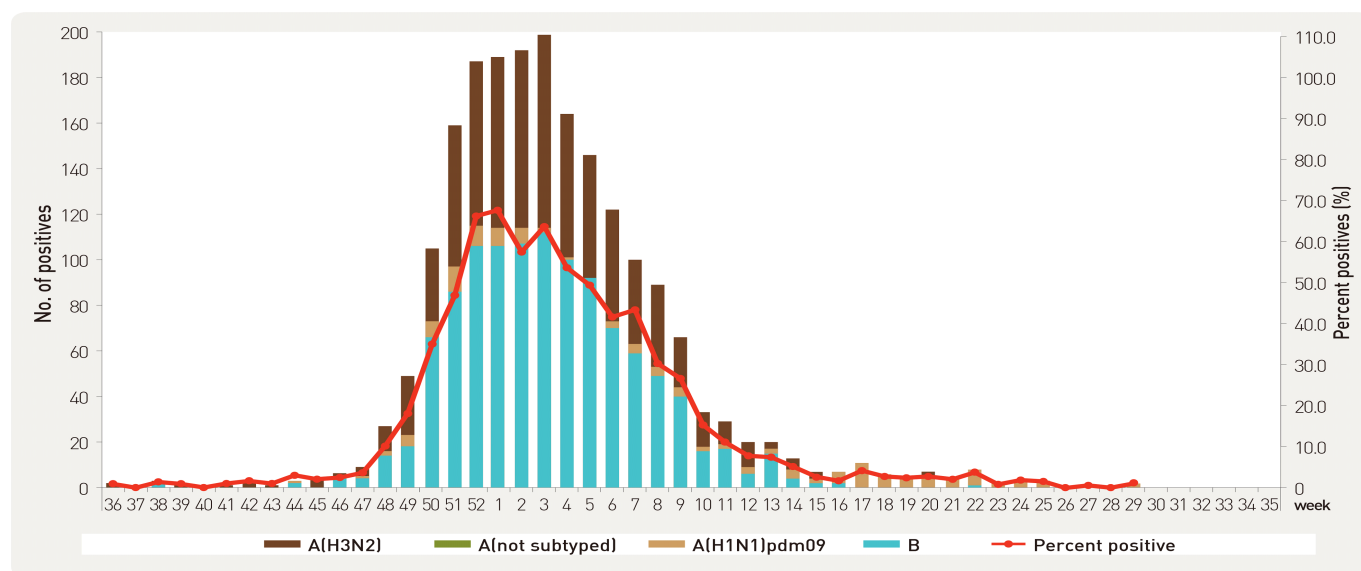


Figure 6. Number of specimens positive for influenza by subtype, 2016-2017 to 2017-2018 flu season

2. Respiratory viruses, weeks ending July 21, 2018 (29th Week)

- Detection rate: 52.4% (cumulative mean proportion during preceding three weeks plus current week: 53.9% out of 731 specimens)
- Variation(%p): increase from 48.2% in 28th 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
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
29	166	52.4	6.0	13.3	1.8	1.2	1.2	23.5	3.6	1.8
Cum.*	731	53.9	5.2	13.7	0.8	0.4	0.5	21.9	7.8	3.6
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 24, 2018. – July 21, 2018, (Average No. of detected cases is 183 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 14, 2018 (28th Week)

- Detection rate: 20.0% [cumulative mean proportion in 2018: 592 cases (30.0%) out of 1,974 specimens]
- Variation(%P): increase from 11.1% in 27th 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	25	97	7	(7.2)	11	(11.3)	3	(3.1)	2	(2.1)	23	(23.7)
	26	74	2	(2.7)	11	(14.9)	4	(5.4)	0	(0.0)	17	(23.0)
	27	81	1	(1.2)	4	(4.9)	4	(4.9)	0	(0.0)	9	(11.1)
	28	50	0	(0.0)	6	(12.0)	1	(2.0)	3	(6.0)	10	(20.0)
Cum. 2018		1,974	210	(10.6)	287	(14.5)	62	(3.1)	33	(1.7)	592	(30.0)

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

2. Acute gastroenteritis-causing bacteria, weeks ending July 14, 2018 (28th Week)

- Detection rate: 26.7% [cumulative mean proportion in 2018: 566 cases (11.1%) out of 5,095 specimens]
- Variation(%P): increase from 18.3% in 27th week of 2018
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week			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	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)
	28	191	10 (5.2)	19 (9.9)	0 (0)	0 (0)	0 (0)	8 (4.2)	2 (1.0)	6 (3.1)	6 (3.1)	51 (26.7)
Cum. 2018		5,095	123 (2.4)	163 (3.2)	2 (0.04)	3 (0.1)	0 (0)	41 (0.8)	60 (1.2)	87 (1.7)	83 (1.6)	566 (11.1)

* 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 14, 2018 (28th Week)

- Detection rate: 57.0% (53 cases / 93 specimens) [cumulative mean proportion in 2018: 25.4% (241 cases / 950 specimens)]
 - Aseptic meningitis: 9 cases (Cum. 2018: 52 cases)
 - HFMD and herpangina: 25 cases (Cum. 2018: 129 cases)
 - HFMD with complications: 3 cases (Cum. 2018: 4 cases)
 - Other: 16 cases (Cum. 2018: 56 cases)
- Variation(%P): increase from 48.4% in 27th week of 2018
- Sentinel reporting sites: 8 city/provincial health and environmental institutes and 63 hospitals/clinics

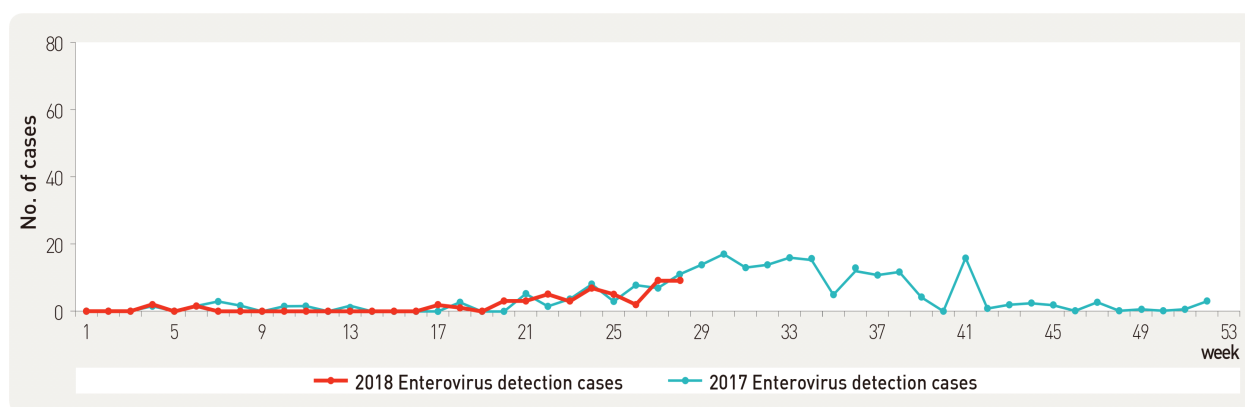


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

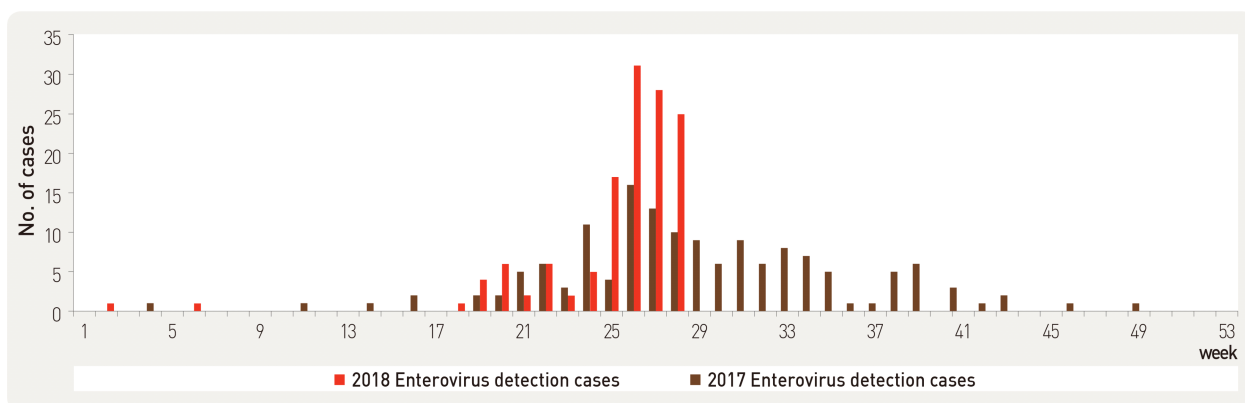


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

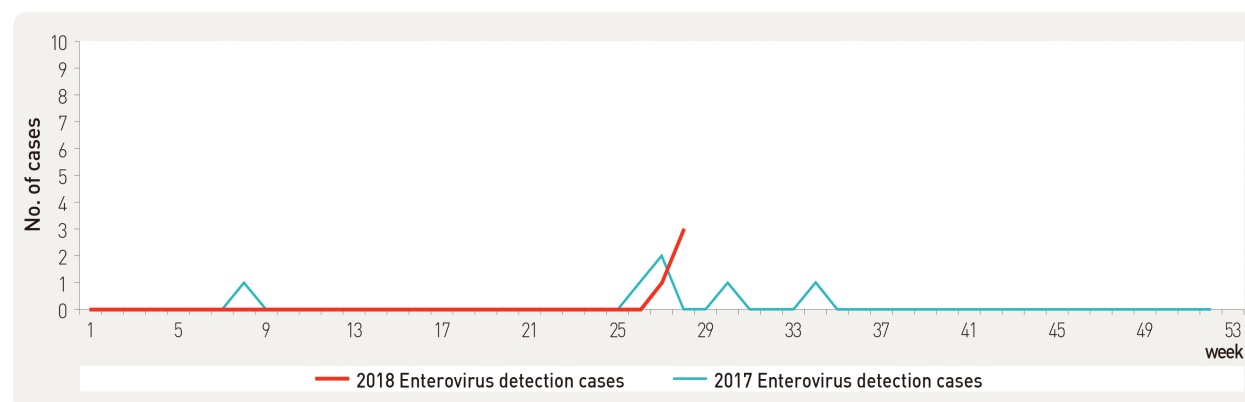


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending July 14, 2018 (28th Week)

- No. of malaria vector mosquitoes: 3
- Variation: decrease from 5 in 27th week of 2018
- Sentinel reporting sites: 3 city/province (20 sites)

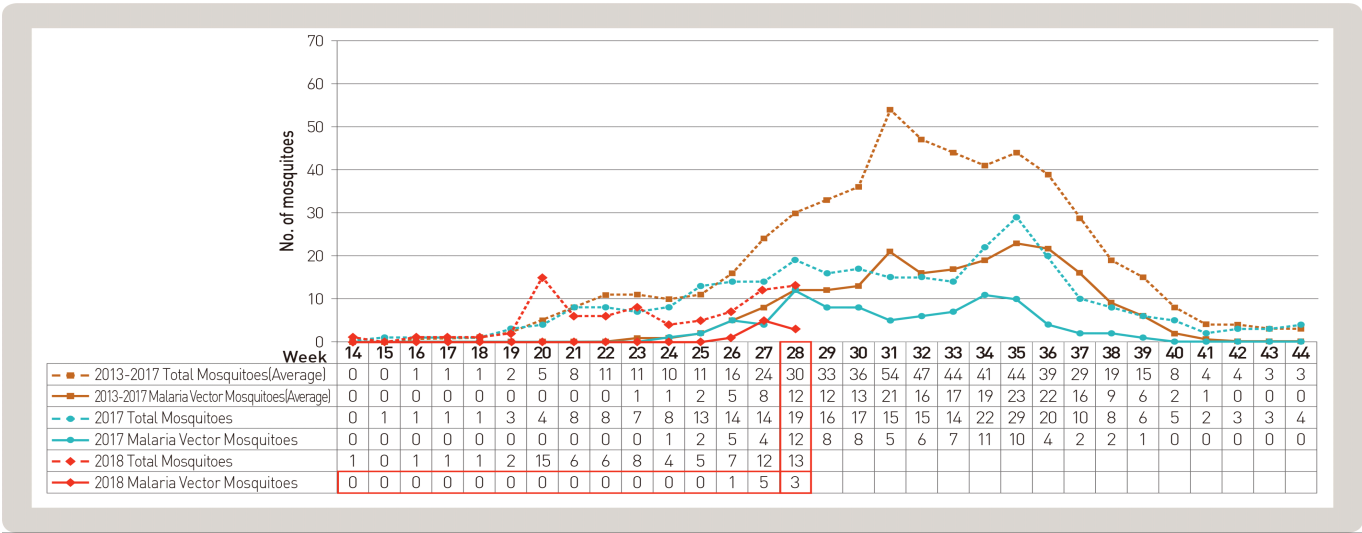


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending July 14, 2018 (28th Week)

- No. of Japanese encephalitis vector mosquitoes: 8
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 5 in 27th week of 2018
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)

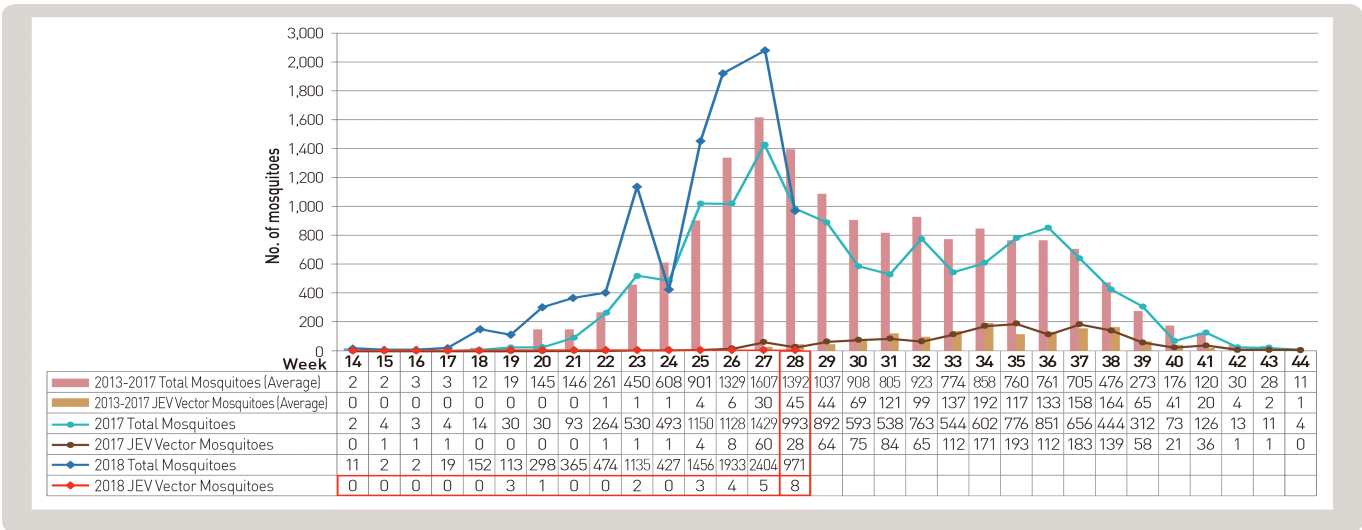


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

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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