

I. National Notifiable Infectious Diseases

1. Reported cases, week ending January 27, 2018 (4th 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	0	0	5	4	0	0	3	Philippines(4), Vietnam(1)
Typhoid fever	9	28	3	128	121	121	251	156	
Paratyphoid fever	0	3	1	73	56	44	37	54	
Shigellosis	10	58	3	111	113	88	110	294	
EHEC	1	4	1	139	104	71	111	61	
Viral hepatitis A	55	254	39	4,429	4,679	1,804	1,307	867	
Category II									
Pertussis	14	64	2	326	129	205	88	36	
Tetanus	0	2	0	34	24	22	23	22	
Measles	3	9	0	11	18	7	442	107	
Mumps	258	972	283	16,921	17,057	23,448	25,286	17,024	
Rubella	1	10	0	11	11	11	11	18	
Viral hepatitis B (Acute)	7	32	4	393	359	155	173	117	
Japanese encephalitis	0	0	0	9	28	40	26	14	
Varicella	1,202	6,410	1,074	80,071	54,060	46,330	44,450	37,361	
<i>Streptococcus pneumoniae</i>	22	102	6	518	441	228	36	-	
Category III									
Malaria	0	5	2	515	673	699	638	445	Russia(1), China(1)
Scarlet fever [§]	417	1,611	171	22,862	11,911	7,002	5,809	3,678	
Meningococcal meningitis	0	1	0	18	6	6	5	6	
Legionellosis	7	23	1	197	128	45	30	21	
<i>Vibrio vulnificus</i> sepsis	0	0	0	47	56	37	61	56	
Murine typhus	0	1	0	20	18	15	9	19	
Scrub typhus	17	100	10	10,592	11,105	9,513	8,130	10,365	
Leptospirosis	0	13	1	134	117	104	58	50	
Brucellosis	2	9	0	26	4	5	8	16	
Rabies	0	0	0	0	0	0	0	0	
HFRS	3	34	6	599	575	384	344	527	
Syphilis	42	187	20	2,152	1,569	1,006	1,015	799	
CJD/vCJD	4	11	1	68	42	33	65	34	
Tuberculosis	640	2,378	594	28,577	30,892	32,181	34,869	36,089	
HIV/AIDS	15	36	14	1,005	1,062	1,018	1,081	1,013	
Viral hepatitis C	257	983	-	6,411	-	-	-	-	
VRSA	0	0	-	0	-	-	-	-	
CRE	172	645	-	5,373	-	-	-	-	

1. (Continued) Reported cases, week ending January 27, 2018 (4th 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	5	15	4	177	313	255	165	252	Philippines(2), Taiwan(1), Vietnam(1), Cambodia(1)
Q fever	6	42	1	126	81	27	8	11	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	2	12	0	40	27	9	13	11	United Kingdom(1)
Melioidosis	0	0	0	2	4	4	2	2	
Chikungunya fever	0	0	0	5	10	2	1	2	
SFTS	0	0	0	272	165	79	55	36	
MERS	0	0	-	0	0	185	-	-	
Zika virus infection	0	0	-	11	16	-	-	-	

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 2017, 2018 are provisional but the data from 2013 to 2016 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, *Haemophilus influenzae* type b, 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 January 27, 2018 (4th 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	0	0	9	28	10	0	3	2	10	58	9
Seoul	0	0	0	1	4	2	0	2	0	2	9	2
Busan	0	0	0	2	4	0	0	0	0	0	3	0
Daegu	0	0	0	1	1	0	0	0	0	0	3	0
Incheon	0	0	0	0	3	1	0	0	1	1	5	3
Gwangju	0	0	0	0	0	0	0	0	0	1	1	0
Daejeon	0	0	0	0	1	1	0	0	0	0	2	0
Ulsan	0	0	0	2	2	0	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	2	2	0
Gyeonggi	0	0	0	0	4	2	0	0	1	3	11	3
Gangwon	0	0	0	0	2	0	0	0	0	0	2	0
Chungbuk	0	0	0	0	1	0	0	0	0	0	0	0
Chungnam	0	0	0	1	1	1	0	0	0	0	5	0
Jeonbuk	0	0	0	0	0	0	0	0	0	1	10	0
Jeonnam	0	0	0	0	0	1	0	1	0	0	2	1
Gyeongbuk	0	0	0	0	1	1	0	0	0	0	2	0
Gyeongnam	0	0	0	2	4	1	0	0	0	0	1	0
Jeju	0	0	0	0	0	0	0	0	0	0	0	0

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

* The reported data for year 2017, 2018 are provisional but the data from 2013 to 2016 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 January 27, 2018 (4th 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	1	4	0	55	254	131	14	64	7	0	2	0
Seoul	0	0	0	7	37	24	4	9	2	0	0	0
Busan	0	0	0	3	6	2	0	0	1	0	0	0
Daegu	1	1	0	2	8	3	0	1	0	0	1	0
Incheon	0	0	0	1	18	11	1	4	0	0	0	0
Gwangju	0	0	0	1	3	3	1	1	1	0	0	0
Daejeon	0	0	0	5	13	6	0	0	0	0	0	0
Ulsan	0	0	0	1	2	2	0	0	0	0	0	0
Sejong	0	0	0	0	1	1	2	2	0	0	0	0
Gyeonggi	0	1	0	16	76	43	1	39	1	0	0	0
Gangwon	0	0	0	1	5	4	0	0	0	0	0	0
Chungbuk	0	0	0	5	11	5	1	2	0	0	1	0
Chungnam	0	1	0	5	32	8	0	0	0	0	0	0
Jeonbuk	0	0	0	2	20	8	1	2	0	0	0	0
Jeonnam	0	0	0	0	4	4	0	1	0	0	0	0
Gyeongbuk	0	0	0	5	11	3	0	0	1	0	0	0
Gyeongnam	0	1	0	1	7	3	3	3	1	0	0	0
Jeju	0	0	0	0	0	1	0	0	0	0	0	0

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

* The reported data for year 2017, 2018 are provisional but the data from 2013 to 2016 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 January 27, 2018 (4th 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	9	0	258	972	1,205	1	10	0	7	32	10
Seoul	0	2	0	38	116	119	0	1	0	1	5	2
Busan	0	0	0	13	61	97	0	0	0	1	3	1
Daegu	1	1	0	9	42	27	0	0	0	0	2	0
Incheon	0	1	0	15	55	40	0	0	0	0	1	0
Gwangju	0	0	0	8	26	109	0	0	0	0	0	0
Daejeon	0	0	0	5	30	49	0	1	0	0	1	0
Ulsan	0	0	0	7	38	37	0	0	0	0	2	1
Sejong	0	0	0	2	5	5	1	2	0	0	0	0
Gyeonggi	1	3	0	71	243	240	0	0	0	3	8	4
Gangwon	0	0	0	11	36	51	0	1	0	0	0	0
Chungbuk	0	0	0	8	25	21	0	0	0	0	1	0
Chungnam	0	0	0	11	54	40	0	2	0	0	1	0
Jeonbuk	0	0	0	7	30	132	0	2	0	0	0	1
Jeonnam	1	1	0	14	41	74	0	0	0	0	0	1
Gyeongbuk	0	0	0	9	45	36	0	1	0	1	2	0
Gyeongnam	0	1	0	21	101	108	0	0	0	1	6	0
Jeju	0	0	0	9	24	20	0	0	0	0	0	0

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

* The reported data for year 2017, 2018 are provisional but the data from 2013 to 2016 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 January 27, 2018 (4th 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	1,202	6,410	4,970	0	5	5	417	1,611	611
Seoul	0	0	0	145	876	502	0	0	2	61	224	64
Busan	0	0	0	82	279	323	0	0	0	43	132	46
Daegu	0	0	0	53	304	296	0	0	0	16	49	24
Incheon	0	0	0	61	385	294	0	2	1	26	82	24
Gwangju	0	0	0	45	280	131	0	1	0	20	75	30
Daejeon	0	0	0	34	176	130	0	0	0	14	56	18
Ulsan	0	0	0	50	177	164	0	0	0	27	76	25
Sejong	0	0	0	9	28	28	0	0	0	3	12	1
Gyeonggi	0	0	0	362	1,915	1,430	0	1	1	96	419	185
Gangwon	0	0	0	17	155	198	0	0	0	4	27	8
Chungbuk	0	0	0	47	238	102	0	1	1	9	45	11
Chungnam	0	0	0	43	260	231	0	0	0	18	57	28
Jeonbuk	0	0	0	33	244	233	0	0	0	13	70	24
Jeonnam	0	0	0	65	262	231	0	0	0	22	86	22
Gyeongbuk	0	0	0	46	267	206	0	0	0	10	60	41
Gyeongnam	0	0	0	67	350	362	0	0	0	30	118	52
Jeju	0	0	0	43	214	109	0	0	0	5	23	8

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 January 27, 2018 (4th 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	1	0	7	23	3	0	0	0	0	1	0
Seoul	0	0	0	0	5	2	0	0	0	0	1	0
Busan	0	0	0	0	2	0	0	0	0	0	0	0
Daegu	0	0	0	1	1	0	0	0	0	0	0	0
Incheon	0	0	0	1	1	0	0	0	0	0	0	0
Gwangju	0	0	0	0	0	0	0	0	0	0	0	0
Daejeon	0	0	0	1	2	0	0	0	0	0	0	0
Ulsan	0	0	0	1	1	0	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	0	0	2	6	1	0	0	0	0	0	0
Gangwon	0	0	0	0	0	0	0	0	0	0	0	0
Chungbuk	0	0	0	0	1	0	0	0	0	0	0	0
Chungnam	0	1	0	0	0	0	0	0	0	0	0	0
Jeonbuk	0	0	0	0	1	0	0	0	0	0	0	0
Jeonnam	0	0	0	0	0	0	0	0	0	0	0	0
Gyeongbuk	0	0	0	1	1	0	0	0	0	0	0	0
Gyeongnam	0	0	0	0	1	0	0	0	0	0	0	0
Jeju	0	0	0	0	1	0	0	0	0	0	0	0

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 January 27, 2018 (4th 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	17	100	45	0	13	1	2	9	0	3	34	23
Seoul	0	2	2	0	0	0	1	1	0	2	4	1
Busan	0	1	2	0	0	0	0	0	0	0	0	0
Daegu	0	0	0	0	0	0	0	2	0	0	0	0
Incheon	1	2	1	0	0	0	0	0	0	0	1	1
Gwangju	0	0	1	0	0	0	0	0	0	0	0	0
Daejeon	0	1	2	0	0	0	0	0	0	0	0	0
Ulsan	1	4	2	0	0	0	0	0	0	0	0	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyeonggi	2	4	5	0	1	1	1	3	0	1	6	10
Gangwon	0	1	1	0	0	0	0	0	0	0	1	3
Chungbuk	1	4	0	0	0	0	0	1	0	0	1	1
Chungnam	1	10	2	0	0	0	0	2	0	0	2	1
Jeonbuk	2	5	4	0	0	0	0	0	0	0	0	2
Jeonnam	6	15	10	0	0	0	0	0	0	0	3	1
Gyeongbuk	0	6	2	0	0	0	0	0	0	0	3	2
Gyeongnam	3	41	9	0	12	0	0	0	0	0	13	1
Jeju	0	4	2	0	0	0	0	0	0	0	0	0

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 January 27, 2018 (4th 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	42	187	74	4	11	1	640	2,378	2,418	5	15	14
Seoul	10	54	13	0	2	0	113	401	494	2	5	5
Busan	3	9	4	0	1	0	39	166	183	0	3	0
Daegu	1	7	4	0	0	0	26	101	121	0	1	2
Incheon	8	17	7	0	0	0	34	115	130	1	1	1
Gwangju	0	5	2	1	1	0	17	49	64	0	0	0
Daejeon	1	8	2	0	0	0	18	55	61	0	0	1
Ulsan	2	2	1	0	0	0	16	51	47	0	0	0
Sejong	0	0	0	0	0	0	8	16	4	0	0	0
Gyeonggi	8	42	19	2	3	1	128	522	502	2	3	3
Gangwon	1	5	4	0	0	0	36	118	96	0	0	0
Chungbuk	2	6	2	0	0	0	20	75	69	0	0	0
Chungnam	2	7	1	0	2	0	29	118	95	0	0	0
Jeonbuk	0	0	3	0	0	0	23	99	93	0	0	0
Jeonnam	0	4	2	1	1	0	37	123	113	0	1	0
Gyeongbuk	3	9	3	0	1	0	48	178	162	0	1	1
Gyeongnam	0	8	4	0	0	0	43	160	158	0	0	1
Jeju	1	4	3	0	0	0	5	31	25	0	0	0

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 January 27, 2018 (4th 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	6	42	1	2	12	0	0	0	0	0	0	-
Seoul	0	0	0	2	6	0	0	0	0	0	0	-
Busan	0	2	0	0	1	0	0	0	0	0	0	-
Daegu	0	2	0	0	0	0	0	0	0	0	0	-
Incheon	0	0	0	0	0	0	0	0	0	0	0	-
Gwangju	0	0	0	0	0	0	0	0	0	0	0	-
Daejeon	0	2	0	0	0	0	0	0	0	0	0	-
Ulsan	0	3	0	0	1	0	0	0	0	0	0	-
Sejong	0	0	0	0	0	0	0	0	0	0	0	-
Gyeonggi	2	14	0	0	3	0	0	0	0	0	0	-
Gangwon	0	0	0	0	0	0	0	0	0	0	0	-
Chungbuk	2	6	0	0	0	0	0	0	0	0	0	-
Chungnam	0	5	0	0	0	0	0	0	0	0	0	-
Jeonbuk	0	0	0	0	0	0	0	0	0	0	0	-
Jeonnam	0	2	0	0	0	0	0	0	0	0	0	-
Gyeongbuk	1	2	1	0	0	0	0	0	0	0	0	-
Gyeongnam	1	4	0	0	1	0	0	0	0	0	0	-
Jeju	0	0	0	0	0	0	0	0	0	0	0	-

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.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending January 27, 2018 (4th week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 43.6 cases
- Variation: Decrease from 59.6 cases in 3rd week
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2017-2018 outbreak standard: 6.6 cases (/1,000)

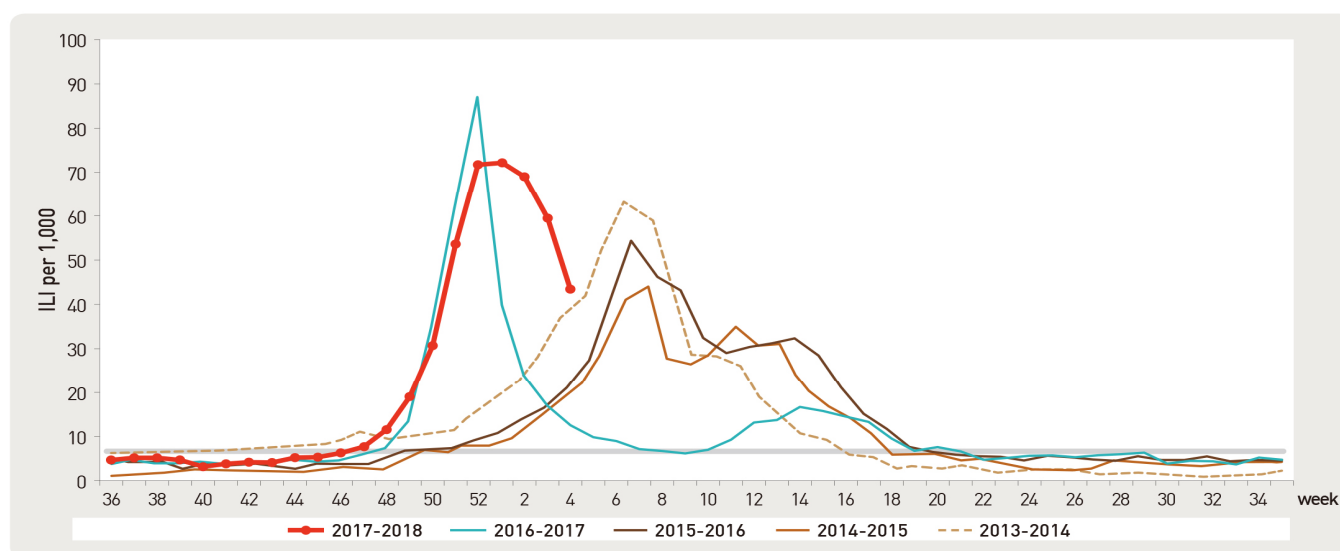


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2013-2014 to 2017-2018 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending January 27, 2018 (4th week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 0.3 cases
- Variation: Decrease from 0.4 cases in 3rd week
- Sentinel reporting sites: 95 hospitals/clinics

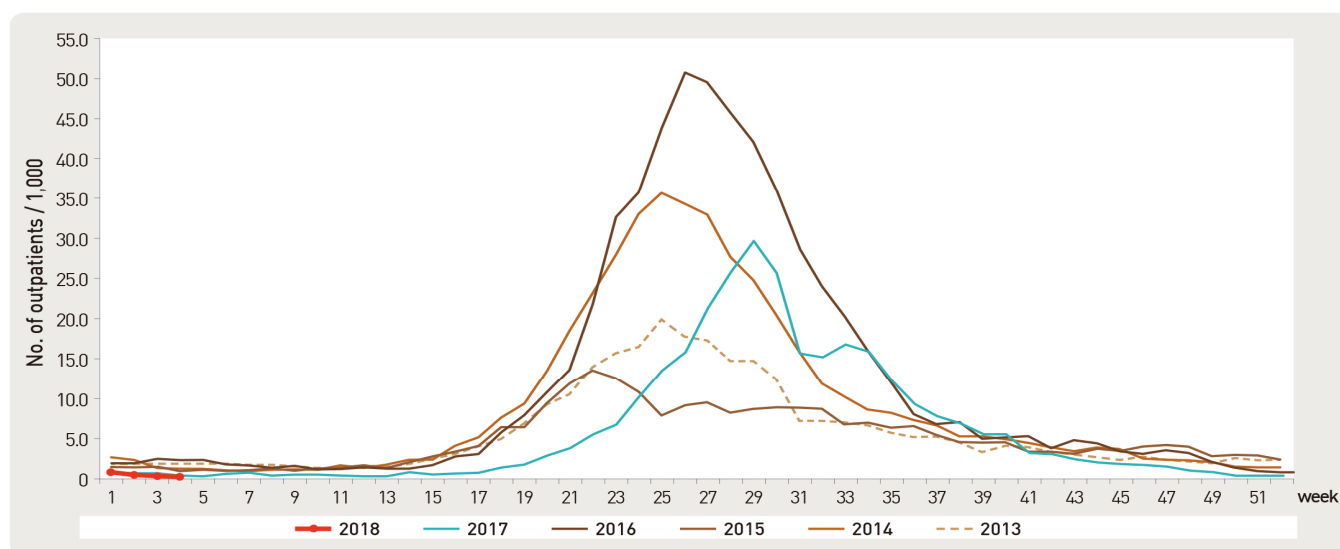


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2013-2017

3. Ophthalmologic infectious diseases, weeks ending January 27, 2018 (4th week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 15.0 cases
- Variation: Increase from 12.5 cases in 3rd week
- Sentinel reporting sites: 92 hospitals/clinics

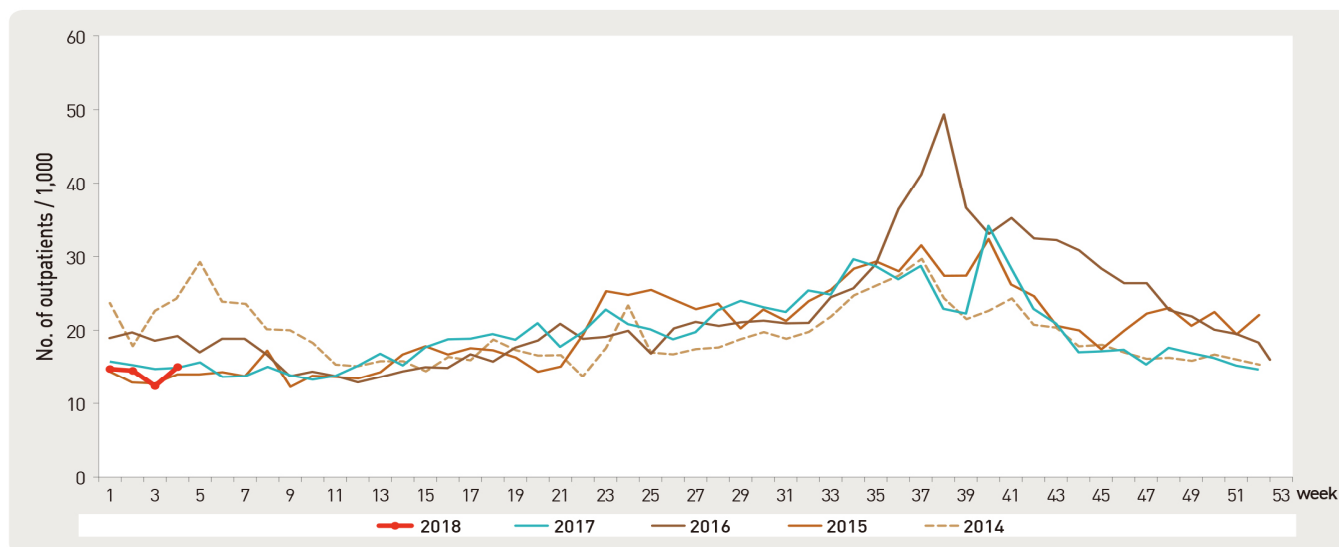


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2014-2018

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 1.0 cases
- Variation: Increase from 0.8 cases in 3rd week
- Sentinel reporting sites: 92 hospitals/clinics

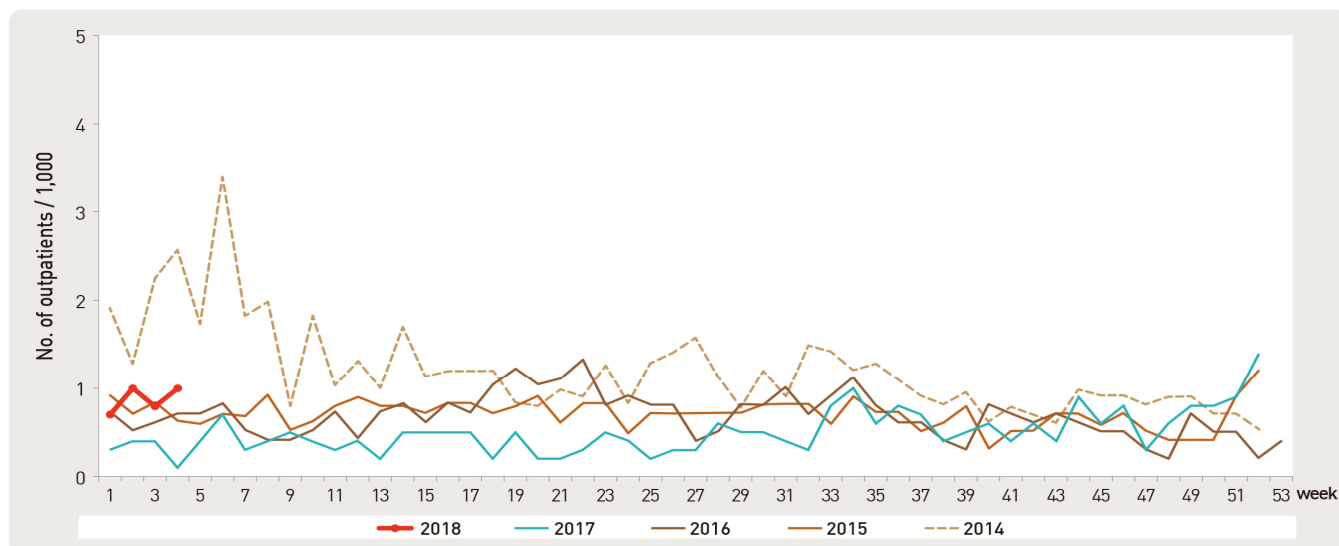


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2014-2018

4. Sexually Transmitted Diseases[†], weeks ending January 27, 2018 (4th week)

- Cases per sentinel: 2.6 for Genital herpes, 2.1 for Condyloma acuminata, 1.9 for Chlamydia, 1.2 for Gonorrhea.
- Variation from 3rd week
Increase: Genital herpes (2.2→2.6), Condyloma acuminata (1.8→2.1)
Decrease: Chlamydia (2.3→1.9), Gonorrhea (1.7→1.2)
- Sentinel reporting sites: 586 hospitals/clinics
※ No. of reported sites in 4th week: 19 for Gonorrhea, 59 for Chlamydia, 51 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 [§]
1.2	2.1	2.5	1.9	4.4	4.0	2.6	5.6	4.6	2.1	3	2.9

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 January 27, 2018 (4th week)

- No. of reported outbreaks: 4 (cumulative no. of outbreaks: 24 with 167 patients)
- Variation: Decrease from 8 in 3rd week
- Reporting sites: 254 health centers

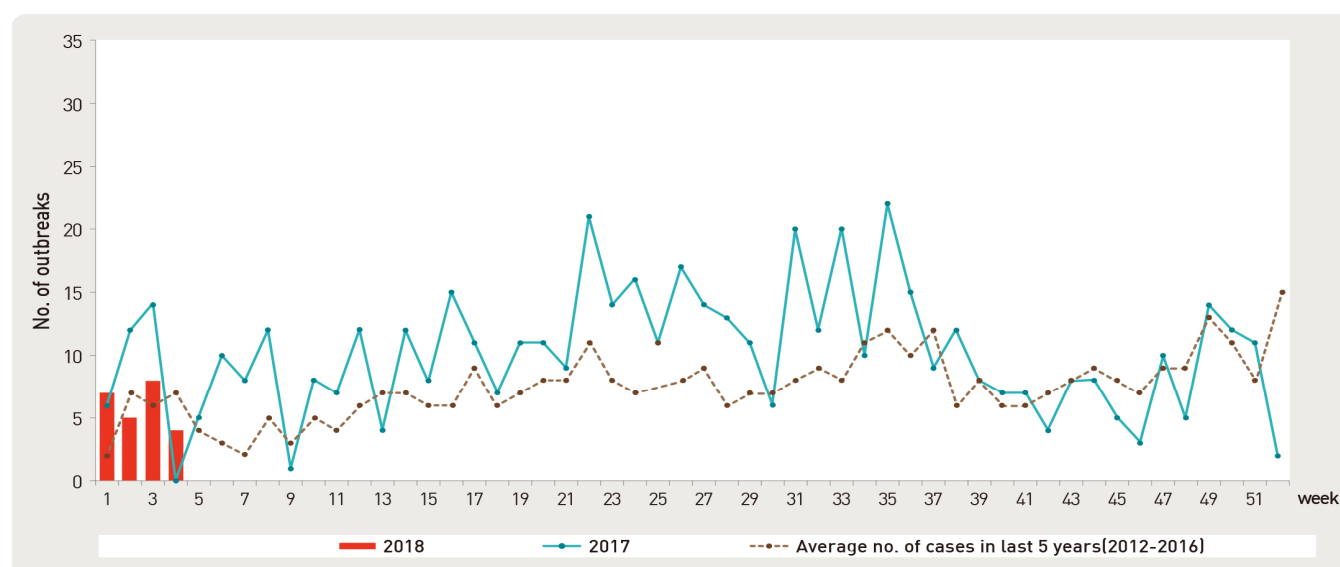


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2017-2018

IV. Laboratory-based Pathogen surveillance: Influenza and respiratory viruses

1. Influenza viruses, Republic of Korea, weeks ending January 27, 2018 (4th week)

- Weekly reported number of specimens positive for influenza: 164 cases (53.8%) / 305 specimens [influenza subtype: A(H1N1)pdm09 1 cases, A(H3N2) 63 cases, B 100 cases]
- Variation(%P): Decrease from 199 cases (64.0%) / 311 specimens in 3rd week
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

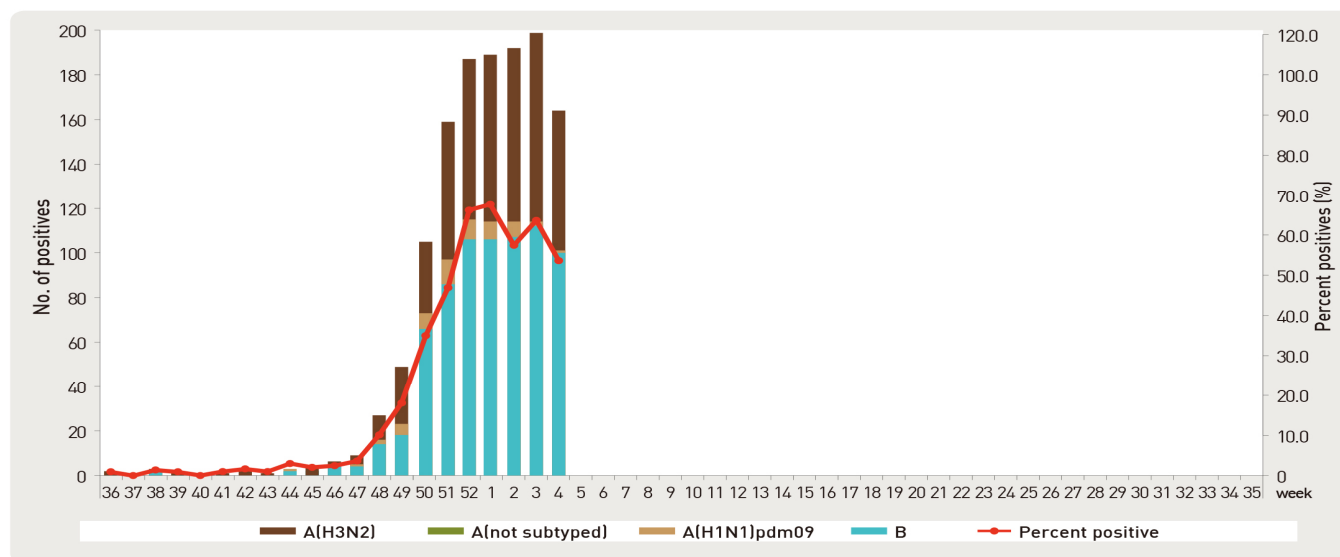


Figure 6. Number of specimens positive for influenza by subtype, 2016-2017 to 2017-2018 flu season

2. Respiratory viruses, Weeks ending January 27, 2018 (4th week)

- Detection rate: 75.1% (cumulative mean proportion during preceding three weeks plus current week: 78.2% out of 308 specimens)
- Variation(%P): Decrease from 80.2% in 3rd week
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2018 (week)	Weekly total	Detection rate (%)							
		HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
1	87.5	3.2	0.0	8.2	67.7	5.7	2.5	0.0	0.0
2	71.3	2.1	0.6	4.5	57.3	5.7	0.6	0.0	0.6
3	80.2	2.2	1.6	2.2	64.2	6.7	1.9	0.3	1.0
4	75.1	2.3	1.0	4.3	53.8	8.2	3.9	0.3	1.3
Cum.*	78.2	2.4	0.8	4.7	60.6	6.6	2.2	0.2	0.7
2017 Cum.†	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 December. 31. 2017. – January. 27. 2018, (Average No. of detected cases is 308 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 January 20, 2018 (3rd week)

- Detection rate: 43.2% [cumulative mean proportion in 2018: 80 cases (44.9%) out of 178 specimens]
- Variation(%P): Decrease from 52.9% in 2nd 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	
2017	52	82	9	(11.0)	26	(31.7)	0	(0.0)	3	(3.7)	38	(46.3)
2018	1	64	3	(4.7)	17	(26.6)	3	(4.7)	1	(1.6)	24	(37.5)
	2	70	10	(14.3)	23	(32.9)	3	(4.3)	1	(1.4)	37	(52.9)
	3	44	6	(13.6)	11	(25.0)	1	(2.3)	1	(2.3)	19	(43.2)
Cum.		178	19	(10.7)	51	(28.7)	7	(3.9)	3	(1.7)	80	(44.9)

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

2. Acute gastroenteritis-causing bacteria, weeks ending January 20, 2018 (3rd week)

- Detection rate: 6.0% [cumulative mean proportion in 2018: 30(5.6%) out of 533 specimens]
- Variation(%P): Increase from 5.2% in 2nd week of 2018
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week			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
2017	52	225	3 (1.3)	3 (1.3)	0 (0)	0 (0)	0 (0)	1 (0.4)	2 (0.9)	4 (1.8)	3 (1.3)	16 (7.1)
2018	1	139	2 (1.4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0.7)	2 (1.4)	2 (1.4)	1 (0.7)	8 (5.8)
	2	193	1 (0.5)	2 (1.0)	0 (0)	0 (0)	0 (0)	1 (0.5)	4 (2.0)	1 (0.5)	1 (0.5)	10 (5.2)
	3	201	0 (0.0)	4 (2.0)	1 (0.5)	0 (0)	0 (0)	3 (1.5)	2 (1.0)	2 (1.0)	0 (0)	12 (6.0)
Cum.		533	3 (0.6)	6 (1.1)	1 (0.2)	0 (0)	0 (0)	5 (0.9)	8 (1.5)	5 (0.9)	2 (0.6)	30 (5.6)

* 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*.

* Hospital participating in Laboratory surveillance in 2018 (70 hospitals)

VI. Laboratory-based Pathogen surveillance: Enterovirus

1. Enterovirus, weeks ending January 20, 2018 (3rd week)

- Detection rate: 0.0% (0 case / 18 specimens) [cumulative mean proportion in 2018: 4.3% (2 cases / 47 specimens)]
 - Aseptic meningitis: 0 case (Cum. 2018: 0 case)
 - HFMD and herpangina: 0 case (Cum. 2018: 1 case)
 - HFMD with complications: 0 case (Cum. 2018: 0 case)
 - Other: 0 case (Cum. 2018: 1 case)
- Variation(%P): Decrease from 5.0% in 2nd week of 2018
- Sentinel reporting sites: 8 city/provincial health and environmental Institutes and 60 hospitals/clinics

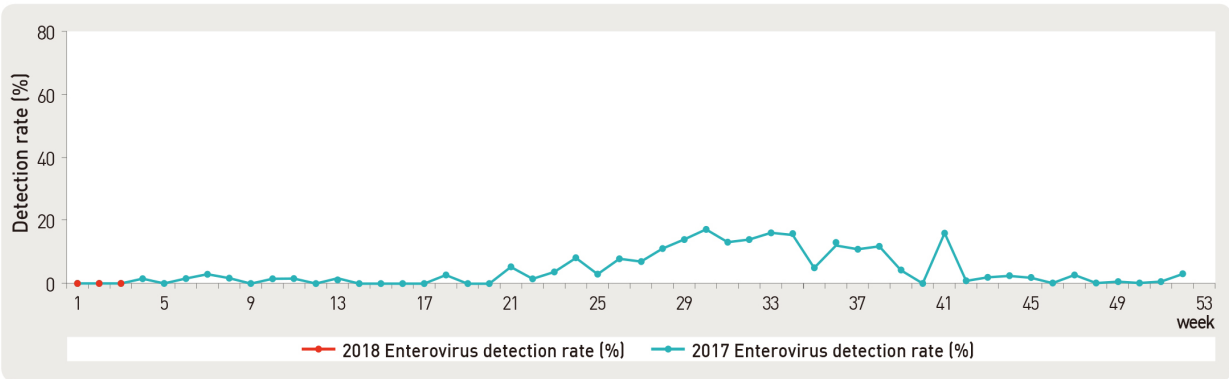


Figure 7. Detection rate of enterovirus in aseptic meningitis patients from 2017 to 2018

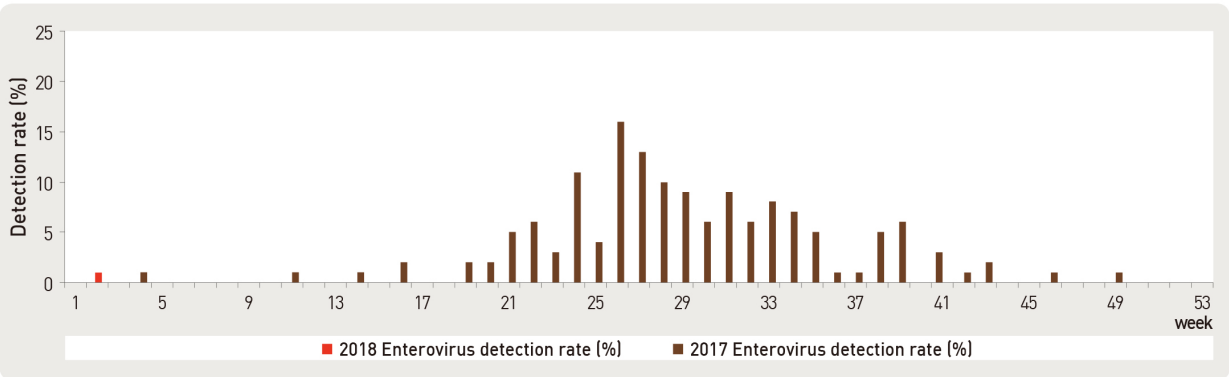


Figure 8. Detection rate of enterovirus in HFMD and herpangina patients from 2017 to 2018

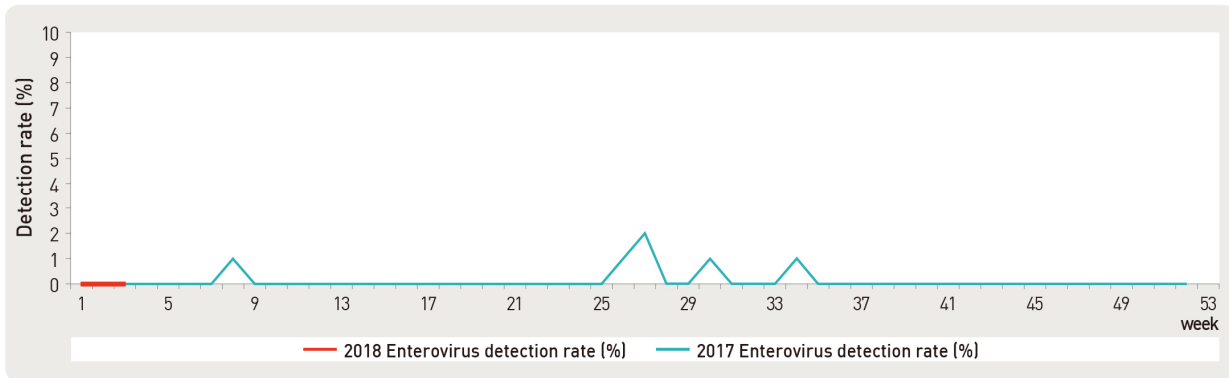


Figure 9. Detection rate of enterovirus in HFMD with complications patients from 2017 to 2018

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 cum. 2018 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

$$= (X1 + X2 + \dots + X25) / 25$$

- **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