

I. National Notifiable Infectious Diseases

1. Reported cases, week ending September 7, 2019 (36th Week)*

Unit: no. of cases[†]

Classification of disease [†]	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category I									
Cholera	0	0	0	2	5	4	0	0	Laos(1)
Typhoid fever	8	96	3	213	128	121	121	251	
Paratyphoid fever	14	69	2	47	73	56	44	37	India(3)
Shigellosis	7	99	2	191	112	113	88	110	
EHEC	8	125	2	121	138	104	71	111	
Viral hepatitis A	551	14,325	41	2,437	4,419	4,679	1,804	1,307	
Category II									
Pertussis	5	324	10	980	318	129	205	88	
Tetanus	2	30	1	31	34	24	22	23	
Measles	8	350	0	15	7	18	7	442	
Mumps	339	12,055	346	19,237	16,924	17,057	23,448	25,286	
Rubella	2	13	0	0	7	11	11	11	
Viral hepatitis B (Acute)	5	260	5	392	391	359	155	173	
Japanese encephalitis	0	1	2	17	9	28	40	26	
Varicella	718	57,080	623	96,467	80,092	54,060	46,330	44,450	
<i>Haemophilus influenza</i> type b	0	0	0	2	3	0	0	0	
<i>Streptococcus pneumoniae</i>	4	356	3	670	523	441	228	36	
Category III									
Malaria	18	462	21	576	515	673	699	638	Laos(1), Uganda(1)
Scarlet fever [§]	127	5,673	152	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	12	0	14	17	6	6	5	
Legionellosis	5	296	3	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis	2	20	4	47	46	56	37	61	
Murine typhus	1	9	0	16	18	18	15	9	
Scrub typhus	64	791	36	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	11	72	3	118	103	117	104	58	
Brucellosis	1	2	0	5	6	4	5	8	Uganda(1)
Rabies	0	0	0	0	0	0	0	0	
HFRS	4	177	7	433	531	575	384	344	
Syphilis	39	1,274	32	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	3	42	1	53	36	42	33	65	
Tuberculosis	541	17,515	572	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	18	654	21	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	177	6,966	-	10,811	6,396	-	-	-	
VRSA	0	1	-	0	0	-	-	-	
CRE	346	10,092	-	11,954	5,717	-	-	-	

1. (Continued) Reported cases, week ending September 7, 2019 (36th Week)*

Unit: no. of cases†

Classification of disease [†]	Current week	Cum. 2019	5-year weekly average	Total no. of cases by year					Imported cases of current week : Country (no. of cases)
				2018	2017	2016	2015	2014	
Category IV									
Dengue fever	8	174	7	159	171	313	255	165	Philippines(3), Laos(2), Vietnam(2), Cambodia(1)
Q fever	3	174	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	12	72	1	23	31	27	9	13	
Melioidosis	0	5	0	2	2	4	4	2	Myanmar(1)
Chikungunya fever	1	12	0	3	5	10	2	1	
SFTS	6	143	6	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	7	-	3	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 2019 are provisional but the data from 2014 to 2018 are finalized.

† 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 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category I											
	Cholera			Typhoid fever			Paratyphoid fever			Shigellosis		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	0	2	8	96	130	14	69	34	7	99	87
Seoul	0	0	0	1	16	24	4	12	7	0	35	19
Busan	0	0	1	1	8	9	0	6	4	1	6	5
Daegu	0	0	0	0	2	4	1	3	2	4	6	5
Incheon	0	0	0	0	7	7	0	1	3	1	6	13
Gwangju	0	0	0	0	0	4	1	4	1	0	3	2
Daejeon	0	0	0	1	7	6	0	2	1	0	1	2
Ulsan	0	0	0	0	3	2	0	1	0	1	2	0
Sejong	0	0	0	0	0	1	0	0	0	0	0	0
Gyeonggi	0	0	0	1	26	25	2	15	6	0	24	15
Gangwon	0	0	0	3	3	3	1	3	1	0	1	2
Chungbuk	0	0	0	0	2	3	0	3	1	0	1	2
Chungnam	0	0	0	0	5	6	0	0	1	0	1	6
Jeonbuk	0	0	0	0	3	3	0	2	2	0	1	2
Jeonnam	0	0	0	0	1	6	2	3	2	0	6	3
Gyeongbuk	0	0	0	1	4	5	0	3	1	0	1	5
Gyeongnam	0	0	1	0	9	19	3	10	2	0	4	5
Jeju	0	0	0	0	0	3	0	1	0	0	1	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 September 7, 2019 (36th 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. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	8	125	82	551	14,325	2,205	5	324	220	2	30	20
Seoul	2	32	11	95	2,648	427	1	49	27	0	2	2
Busan	0	3	3	23	433	105	0	21	22	0	2	2
Daegu	0	3	8	4	146	49	0	13	5	1	4	1
Incheon	0	10	7	21	823	181	1	16	14	0	0	1
Gwangju	2	6	13	5	124	64	1	17	10	0	2	0
Daejeon	0	1	1	111	2,084	96	0	12	4	0	2	0
Ulsan	0	4	5	4	64	24	0	6	6	0	2	0
Sejong	0	3	0	12	346	13	0	6	2	0	1	0
Gyeonggi	3	24	13	164	4,450	669	1	43	35	0	3	2
Gangwon	0	5	3	4	206	52	0	7	2	0	0	1
Chungbuk	0	6	2	27	885	63	0	6	6	0	1	0
Chungnam	0	3	2	40	1,169	142	0	4	5	0	2	1
Jeonbuk	0	3	1	17	395	104	0	8	3	0	1	1
Jeonnam	0	9	5	3	136	78	0	23	8	0	2	4
Gyeongbuk	0	6	2	6	182	51	0	32	14	1	4	3
Gyeongnam	1	4	3	14	179	74	1	53	54	0	2	2
Jeju	0	3	3	1	55	13	0	8	3	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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II											
	Measles			Mumps			Rubella			Viral hepatitis B (Acute)		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	8	350	98	339	12,055	13,933	2	13	11	5	260	200
Seoul	4	47	23	40	1,545	1,364	0	1	2	3	39	36
Busan	0	18	4	22	685	1,016	0	1	1	0	27	12
Daegu	0	21	2	19	542	445	0	0	0	0	5	6
Incheon	1	13	12	25	586	601	0	2	0	0	11	11
Gwangju	1	3	1	18	390	977	0	0	0	0	4	5
Daejeon	0	49	4	5	374	313	0	0	1	0	11	7
Ulsan	0	3	1	12	386	441	0	0	0	0	2	6
Sejong	0	2	0	2	73	47	0	0	0	0	0	0
Gyeonggi	2	118	31	84	3,428	3,323	0	2	4	0	62	48
Gangwon	0	7	1	6	374	439	0	0	0	1	10	6
Chungbuk	0	3	2	5	315	278	0	0	0	0	12	6
Chungnam	0	5	3	19	535	522	0	0	1	0	16	10
Jeonbuk	0	11	1	13	555	1,187	0	0	0	0	10	14
Jeonnam	0	13	8	13	464	723	1	2	0	0	13	10
Gyeongbuk	0	25	5	22	632	614	1	4	2	1	21	10
Gyeongnam	0	8	0	30	967	1,460	0	0	0	0	13	12
Jeju	0	4	0	4	204	183	0	1	0	0	4	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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II						Diseases of Category III					
	Japanese encephalitis			Varicella			Malaria			Scarlet fever‡		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	1	3	718	57,080	39,446	18	462	508	127	5,673	9,007
Seoul	0	0	1	95	6,490	4,177	1	75	67	16	949	1,132
Busan	0	0	0	43	2,846	2,455	3	11	6	5	338	675
Daegu	0	1	1	50	3,240	2,202	0	2	7	3	173	360
Incheon	0	0	0	37	2,751	2,055	4	79	79	3	279	405
Gwangju	0	0	0	25	2,031	1,188	0	4	3	8	309	403
Daejeon	0	0	0	25	1,391	1,102	0	5	3	8	236	327
Ulsan	0	0	0	22	1,605	1,245	0	1	4	8	234	385
Sejong	0	0	0	6	609	347	0	1	1	1	37	44
Gyeonggi	0	0	0	194	16,326	11,151	9	241	288	40	1,619	2,608
Gangwon	0	0	0	15	990	1,232	0	14	15	2	96	144
Chungbuk	0	0	0	23	1,163	1,016	0	5	4	2	95	156
Chungnam	0	0	0	26	2,253	1,511	0	6	7	5	254	405
Jeonbuk	0	0	0	30	1,985	1,778	0	2	4	1	192	318
Jeonnam	0	0	0	33	2,092	1,687	0	0	4	3	182	349
Gyeongbuk	0	0	1	30	3,787	1,883	1	5	6	5	217	487
Gyeongnam	0	0	0	54	6,518	3,275	0	8	7	16	393	707
Jeju	0	0	0	10	1,003	1,142	0	3	3	1	70	102

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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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Meningococcal meningitis			Legionellosis			<i>Vibrio vulnificus</i> sepsis			Murine typhus		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	0	12	6	5	296	89	2	20	24	1	9	8
Seoul	0	2	2	1	82	25	0	4	3	0	2	1
Busan	0	0	1	0	15	6	0	1	2	0	0	1
Daegu	0	0	1	0	10	3	0	0	0	0	0	0
Incheon	0	1	0	1	22	7	0	0	2	1	4	1
Gwangju	0	0	0	0	9	0	0	0	0	0	0	1
Daejeon	0	0	0	0	3	1	0	0	0	0	0	0
Ulsan	0	0	0	0	1	2	0	0	1	0	0	0
Sejong	0	1	0	0	0	0	0	0	0	0	0	0
Gyeonggi	0	4	1	3	80	18	0	2	4	0	1	1
Gangwon	0	2	0	0	8	6	0	0	0	0	0	0
Chungbuk	0	0	0	0	9	4	0	1	0	0	0	0
Chungnam	0	1	0	0	7	3	0	1	1	0	0	1
Jeonbuk	0	0	0	0	4	2	2	2	1	0	0	0
Jeonnam	0	0	0	0	13	1	0	5	5	0	1	1
Gyeongbuk	0	0	0	0	23	6	0	0	1	0	0	0
Gyeongnam	0	1	1	0	7	3	0	3	3	0	0	1
Jeju	0	0	0	0	3	2	0	1	1	0	1	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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III											
	Scrub typhus			Leptospirosis			Brucellosis			Hemorrhagic fever with renal syndrome		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	64	791	770	11	72	35	1	2	1	4	177	185
Seoul	0	33	34	2	8	1	1	2	1	0	4	9
Busan	2	22	30	0	1	2	0	0	0	0	8	5
Daegu	1	1	9	0	1	1	0	0	0	0	2	1
Incheon	2	14	14	1	3	0	0	0	0	0	2	3
Gwangju	2	11	19	0	2	1	0	0	0	0	2	2
Daejeon	1	18	18	1	2	1	0	0	0	0	1	3
Ulsan	2	19	18	0	1	0	0	0	0	0	1	1
Sejong	1	3	3	0	0	0	0	0	0	0	0	1
Gyeonggi	13	67	79	1	9	7	0	0	0	1	27	51
Gangwon	0	5	24	1	7	2	0	0	0	1	9	10
Chungbuk	0	11	14	1	2	2	0	0	0	0	7	13
Chungnam	5	89	70	3	16	4	0	0	0	1	24	19
Jeonbuk	12	96	72	0	3	2	0	0	0	1	27	15
Jeonnam	13	204	184	0	5	5	0	0	0	0	32	25
Gyeongbuk	2	32	53	0	7	3	0	0	0	0	21	16
Gyeongnam	5	146	123	1	4	4	0	0	0	0	10	10
Jeju	3	20	6	0	1	0	0	0	0	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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III									Diseases of Category IV		
	Syphilis			CJD/vCJD			Tuberculosis			Dengue fever		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	39	1,274	1,074	3	42	32	541	17,515	21,551	8	174	144
Seoul	7	259	226	0	7	7	86	3,093	4,037	3	45	46
Busan	8	133	65	0	3	2	37	1,209	1,535	0	7	9
Daegu	3	60	49	0	2	2	28	793	1,053	1	11	8
Incheon	2	100	95	0	1	1	24	945	1,116	0	11	6
Gwangju	0	31	38	0	1	0	9	420	530	0	2	2
Daejeon	0	40	31	1	3	1	6	372	496	1	5	4
Ulsan	0	16	14	0	1	0	9	362	452	1	8	2
Sejong	0	5	5	0	0	0	0	46	63	0	0	0
Gyeonggi	8	325	292	0	9	7	118	3,816	4,562	1	52	38
Gangwon	4	32	26	1	3	2	23	759	928	0	5	3
Chungbuk	1	32	26	0	0	1	18	513	657	0	6	1
Chungnam	3	48	36	0	1	2	29	817	989	0	5	4
Jeonbuk	0	32	23	0	2	1	24	660	823	0	5	2
Jeonnam	1	20	28	0	2	1	33	956	1,093	0	2	4
Gyeongbuk	0	59	41	0	4	3	49	1,326	1,541	1	2	6
Gyeongnam	2	59	50	1	3	2	41	1,181	1,424	0	7	8
Jeju	0	23	29	0	0	0	7	247	252	0	1	1

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

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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 September 7, 2019 (36th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category IV											
	Q fever			Lyme Borreliosis			SFTS			Zika virus infection		
	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§	Current week	Cum. 2019	Cum. 5-year average§
Overall	3	174	52	12	72	11	6	143	93	0	7	-
Seoul	0	18	3	3	23	4	0	2	3	0	2	-
Busan	0	2	1	0	2	1	0	1	1	0	1	-
Daegu	0	2	1	1	1	0	0	4	2	0	0	-
Incheon	0	6	1	2	6	1	0	3	1	0	1	-
Gwangju	0	3	3	0	3	0	0	1	0	0	0	-
Daejeon	0	4	1	0	0	1	0	2	2	0	0	-
Ulsan	0	0	2	1	2	0	0	3	1	0	0	-
Sejong	0	0	0	0	0	0	1	3	0	0	0	-
Gyeonggi	2	33	6	1	15	2	0	23	12	0	2	-
Gangwon	0	0	0	0	1	0	0	24	11	0	0	-
Chungbuk	1	27	13	0	0	0	0	1	3	0	0	-
Chungnam	0	14	7	1	3	0	0	16	9	0	0	-
Jeonbuk	0	17	2	0	2	1	2	16	4	0	0	-
Jeonnam	0	24	5	2	9	0	1	14	8	0	1	-
Gyeongbuk	0	13	3	1	3	1	0	12	16	0	0	-
Gyeongnam	0	10	4	0	2	0	0	11	11	0	0	-
Jeju	0	1	0	0	0	0	2	7	9	0	0	-

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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending September 7, 2019 (36th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.4 cases (=0.34%)
- Variation: decrease from 3.5 cases in 35th week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

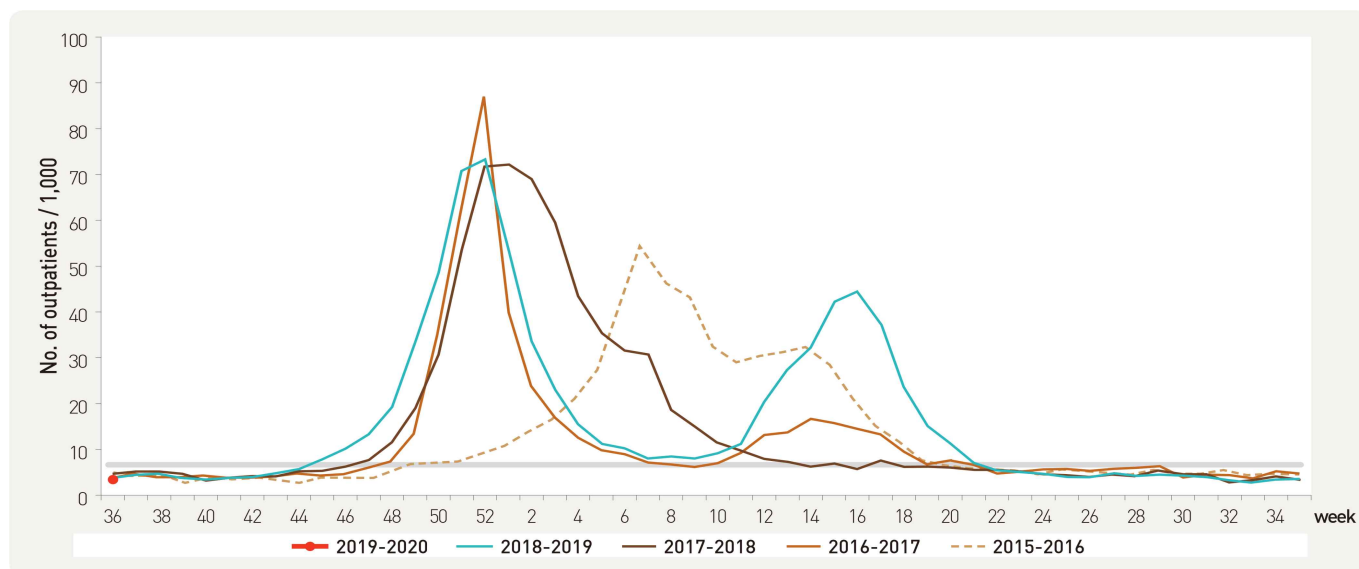


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending September 7, 2019 (36th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 17.9 cases
- Variation: decrease from 21.8 cases in 35th week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

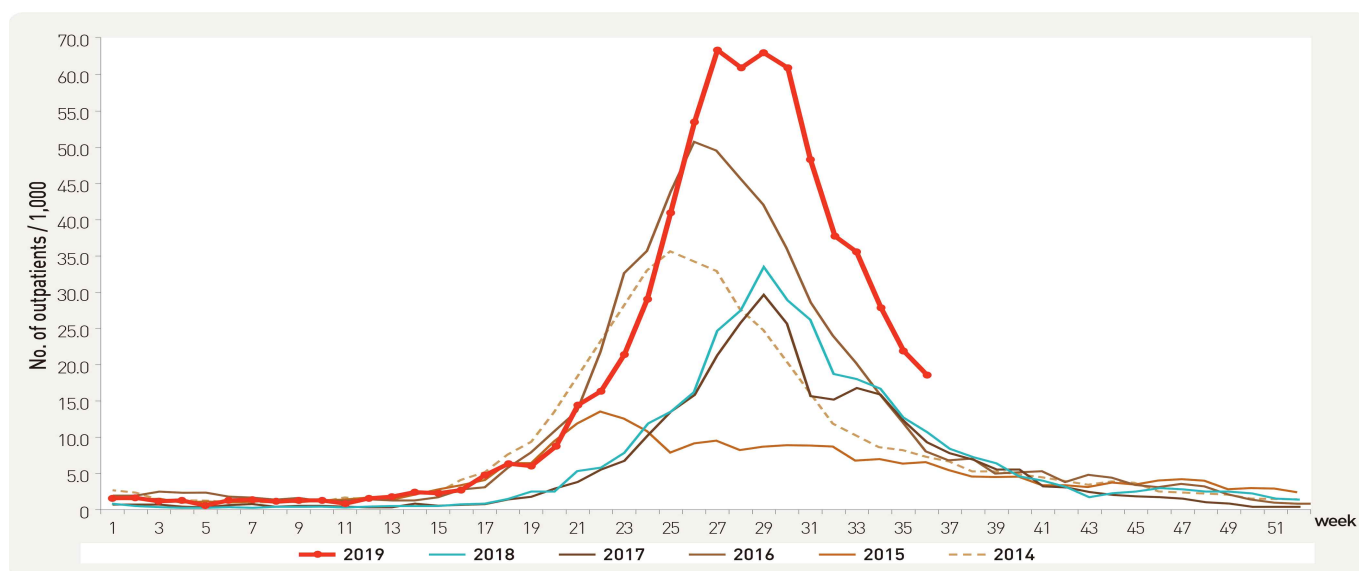


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending September 7, 2019 (36th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 20.8 cases
- Variation: increase from 19.9 cases in 35th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

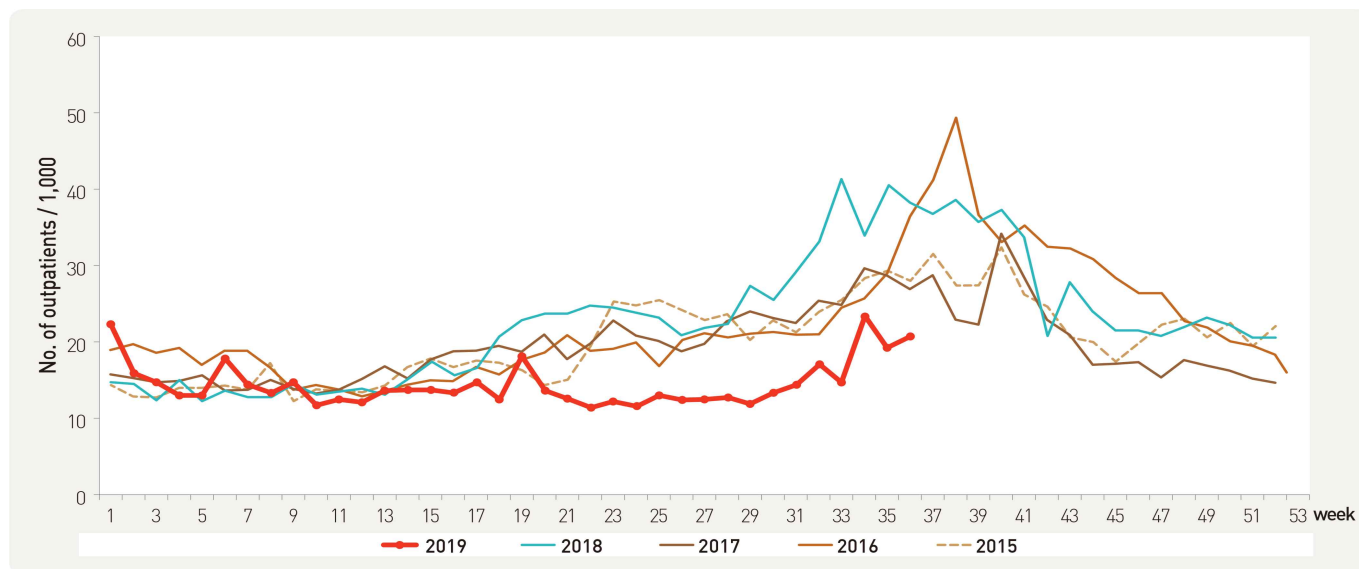


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.7 case
- Variation: no change from 0.7 case in 35th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

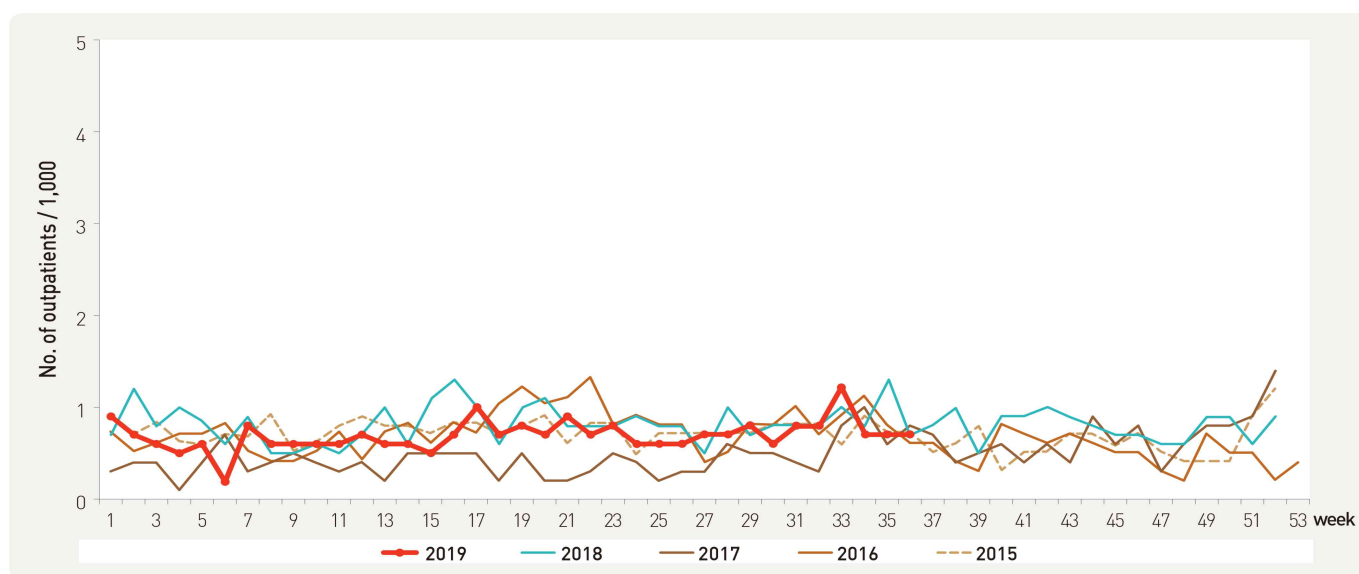


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending September 7, 2019 (36th Week)

- Cases per sentinel: 2.7 for genital herpes, 2.5 for chlamydia, 2.0 for condyloma acuminata, 1.3 for gonorrhea
- Variation from 35th week of 2019
Increase: gonorrhea (1.0 → 1.3), chlamydia (2.0 → 2.5), genital herpes (2.6 → 2.7)
Decrease: condyloma acuminata (2.1 → 2.0)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 36th week: 35 for gonorrhea, 96 for chlamydia, 63 for genital herpes, 46 for condyloma acuminata

Unit: no. of cases/sentinels

Gonorrhea			Chlamydia			Genital herpes			Condyloma acuminata		
Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]	Current week	Cum. 2019	Cum. 5-year average [§]
1.3	6.7	8.0	2.5	25.2	21.2	2.7	36.4	24.8	2.0	20.0	15.3

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 7, 2019 (36th Week)

- No. of reported outbreaks: 1 with 4 patients (cumulative no. of outbreaks: 441 with 5,342 patients)
- Variation: decrease from 12 in 35th week of 2019
- Reporting sites: 254 health centers

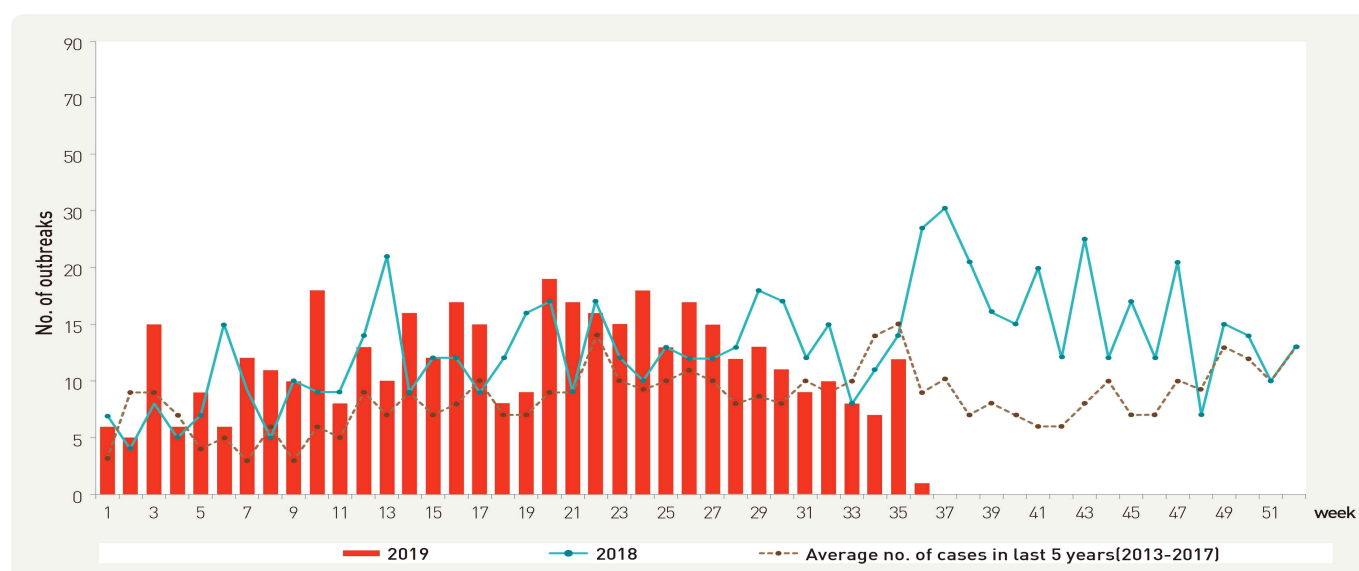


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending September 7, 2019 (36th Week)

- Weekly reported number of specimens positive for influenza: 2 cases (1.1%) / 180 specimens [influenza subtype: A(H1N1)pdm09 1 case, A(H3N2) 1 case, B 0 case]
- Variation (%p): increase from 0 case (0.0%) / 171 specimens in 35th week of 2019
- Sentinel reporting sites: 52 hospitals/clinics

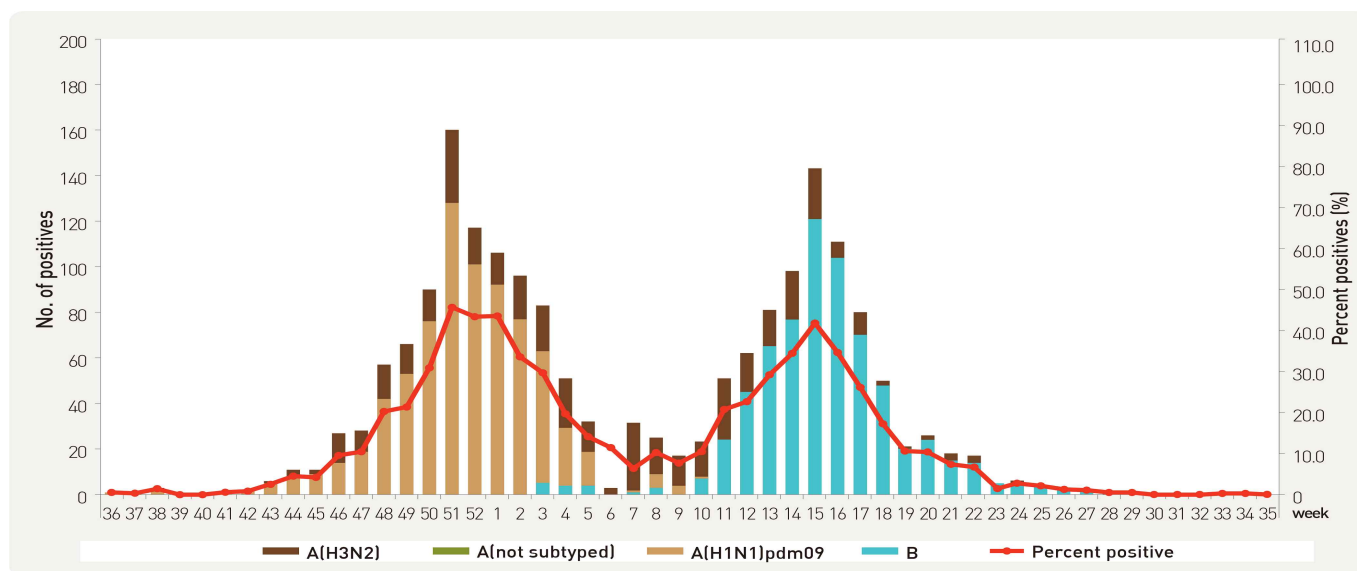


Figure 6. Number of specimens positive for influenza by subtype, 2018-2019 flu season

2. Respiratory viruses, weeks ending September 7, 2019 (36th Week)

- Detection rate: 43.9% (cumulative mean proportion during preceding three weeks plus current week: 41.6% out of 649 specimens)
- Variation (%p): increase from 41.5% in 35th week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2019 (week)	Weekly total		Detection rate (%)							
	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
33	126	35.7	11.9	6.4	1.6	0.8	0.0	8.7	1.6	4.8
34	172	43.6	16.9	9.3	0.6	0.6	0.0	12.8	1.7	1.7
35	171	41.5	11.7	5.3	1.2	0.0	0.6	17.0	2.9	2.9
36	180	43.9	11.7	8.3	1.1	1.1	0.0	18.3	2.2	1.1
Cum.*	649	41.6	13.1	7.4	1.1	0.6	0.1	14.6	2.2	2.5
2018 Cum.†	11,966	63.0	6.8	6.1	4.4	17.0	5.7	16.3	1.7	4.9

- 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 11, 2019 – september 7, 2019 (Average no. of detected cases is 162 last 4 weeks)

† 2018 Cum. : the rate of detected cases between January 01, 2018 – December 29, 2018

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

1. Acute gastroenteritis-causing virus, weeks ending August 31, 2019 (35th Week)

- Detection rate: 10.5% [cumulative mean proportion in 2019: 666 cases (32.6%) out of 2,042 specimens]
- Variation (%p): increase from 6.8% in 34th week of 2019
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week	No. of sample	No. of detection (Detection rate, %)											
		Norovirus		Group A Rotavirus		Enteric Adenovirus		Astrovirus		Sapovirus		Total	
2019 32	31	3	(9.7)	0	(0.0)	2	(6.5)	0	(0.0)	1	(3.2)	6	(19.4)
33	52	2	(3.8)	3	(5.8)	1	(1.9)	1	(1.9)	0	(0.0)	7	(13.5)
34	44	0	(0.0)	0	(0.0)	1	(2.3)	1	(2.3)	1	(2.3)	3	(6.8)
35	38	2	(5.3)	0	(0.0)	1	(2.6)	1	(2.6)	0	(0.0)	4	(10.5)
Cum. 2019	2,042	446	(21.8)	117	(5.7)	32	(1.6)	43	(2.1)	28	(1.4)	666	(32.6)

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

2. Acute gastroenteritis-causing bacteria, weeks ending August 31, 2019 (35th Week)

- Detection rate: 30.6% [cumulative mean proportion in 2019: 847 cases (14.0%) out of 6,059 specimens]
- Variation (%p): increase from 21.8% in 34th week of 2019
- 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
2019	32	151	13 (8.6)	13 (8.6)	0 (0)	0 (0)	0 (0)	6 (4.0)	4 (2.6)	2 (1.3)	2 (1.3)	40 (26.5)
	33	179	10 (5.6)	25 (14.0)	0 (0)	0 (0)	0 (0)	11 (6.1)	0 (0)	2 (1.1)	3 (1.7)	51 (28.5)
	34	147	10 (6.8)	14 (9.5)	0 (0)	0 (0)	0 (0)	3 (2.0)	1 (0.7)	2 (1.4)	2 (1.4)	32 (21.8)
	35	98	5 (5.1)	18 (18.4)	0 (0)	1 (1.0)	0 (0)	2 (2.0)	0 (0)	1 (1.0)	3 (3.1)	30 (30.6)
Cum. 2019		6,059	176 (2.9)	276 (4.6)	0 (0)	2 (0.03)	0 (0)	76 (1.3)	112 (1.8)	115 (1.9)	84 (1.4)	847 (14.0)

* 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 2019 (70 hospitals)

VI. Laboratory-based Pathogen Surveillance: Enterovirus

1. Enterovirus, weeks ending August 31, 2019 (35th Week)

- Detection rate: 38.5% (15 cases / 39 specimens) [cumulative mean proportion in 2019: 38.7% (553 cases / 1,429 specimens)]
 - Aseptic meningitis: 8 cases (Cum. 2019: 219 cases)
 - HFMD and herpangina: 1 cases (Cum. 2019: 224 cases)
 - HFMD with complications: 1 case (Cum. 2019: 8 cases)
 - Other: 5 cases (Cum. 2019: 102 cases)
- Variation (%p): increase from 35.1% in 34th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

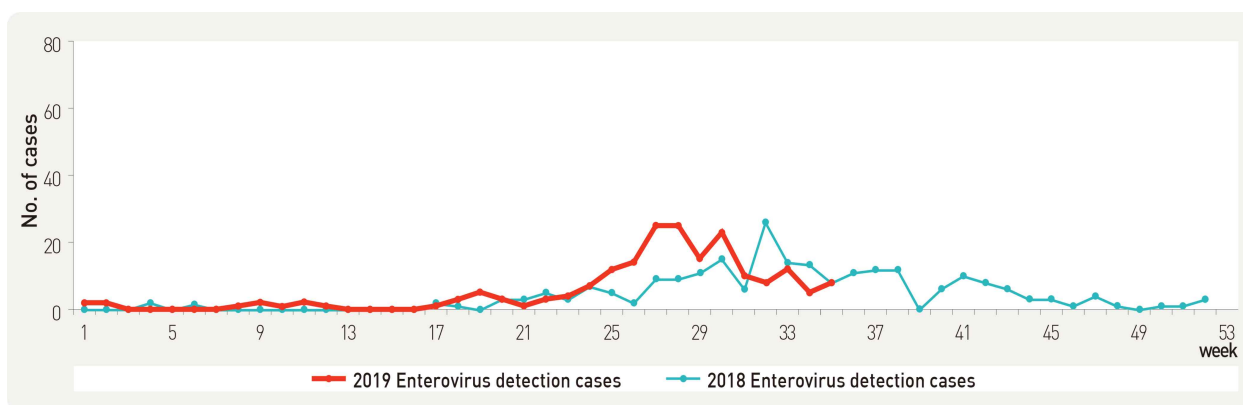


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

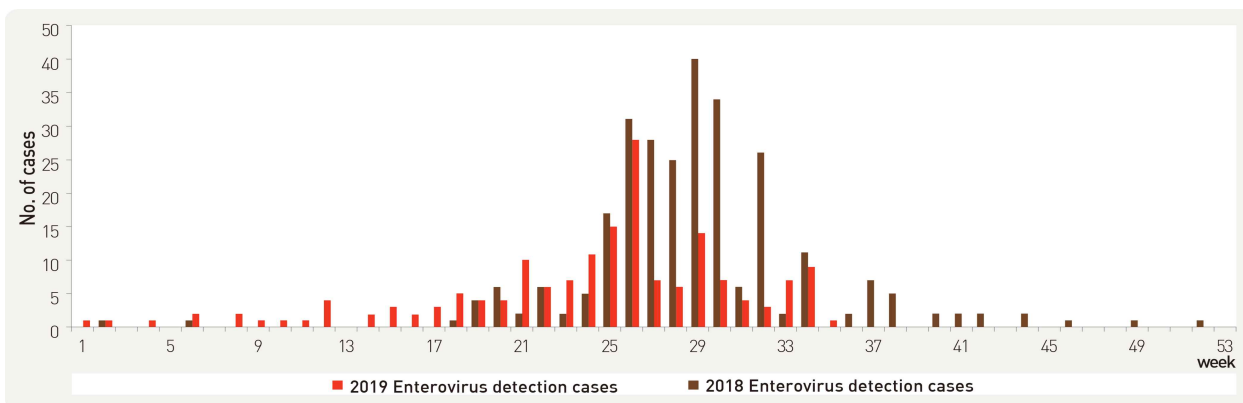


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

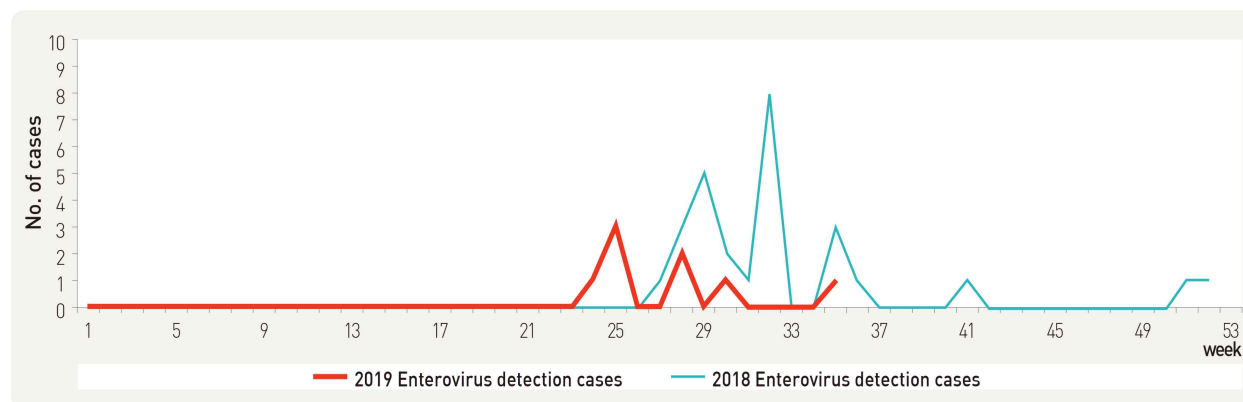


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending August 31, 2019 (35th Week)

- No. of malaria vector mosquitoes: 7
- Variation: increase from 5 in 34th week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

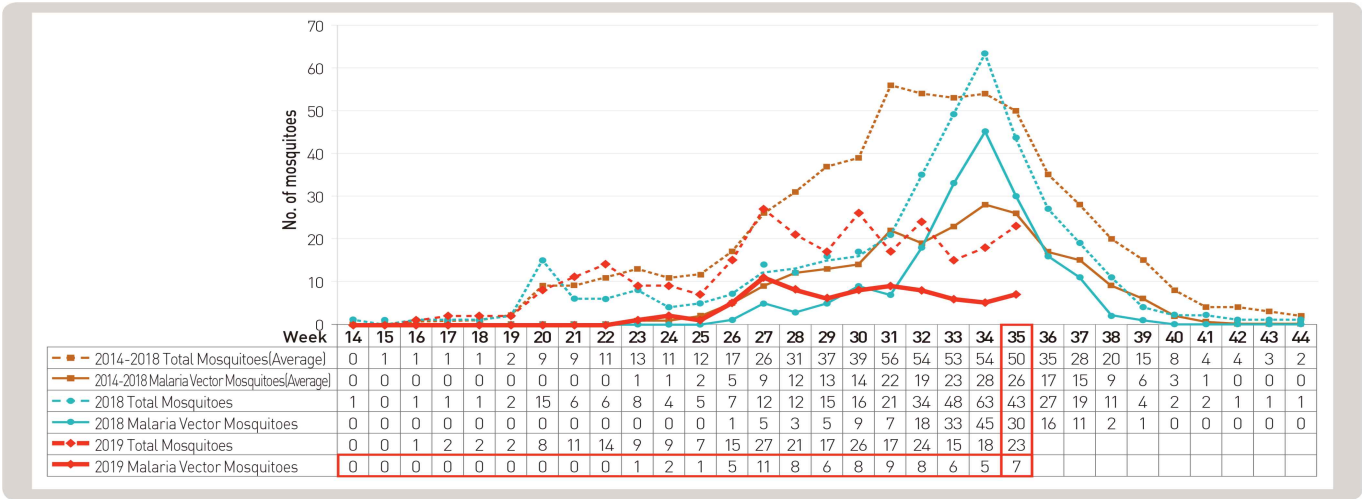


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending September 7, 2019 (36th Week)

- No. of Japanese encephalitis vector mosquitoes: 404
- ※ JEV: Japanese encephalitis vector
- Variation: increase from 173 in 35th week of 2019
- Sentinel reporting sites: 10 city/provincial health and environmental institutes and health centers (10 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

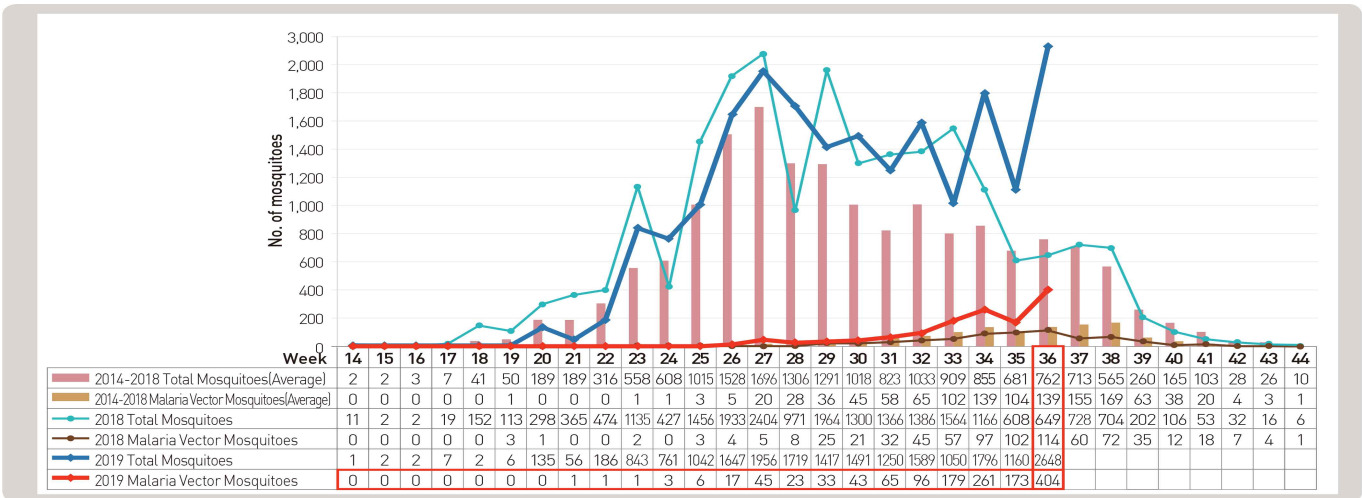


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

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

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