

I. National Notifiable Infectious Diseases

1. Reported cases, week ending September 28, 2019 (39th 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	
Typhoid fever	8	103	2	213	128	121	121	251	
Paratyphoid fever	8	63	1	47	73	56	44	37	
Shigellosis	3	109	2	191	112	113	88	110	
EHEC	8	136	2	121	138	104	71	111	
Viral hepatitis A	423	15,706	42	2,437	4,419	4,679	1,804	1,307	
Category II									
Pertussis	5	345	8	980	318	129	205	88	
Tetanus	2	32	0	31	34	24	22	23	
Measles	6	277	1	15	7	18	7	442	
Mumps	303	12,880	370	19,237	16,924	17,057	23,448	25,286	
Rubella	2	12	0	0	7	11	11	11	
Viral hepatitis B (Acute)	4	280	5	392	391	359	155	173	
Japanese encephalitis	0	6	2	17	9	28	40	26	
Varicella	846	59,557	740	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>	6	373	3	670	523	441	228	36	
Category III									
Malaria	14	508	16	576	515	673	699	638	Cameroon(1)
Scarlet fever [§]	143	6,028	160	15,777	22,838	11,911	7,002	5,809	
Meningococcal meningitis	0	12	0	14	17	6	6	5	
Legionellosis	7	327	3	305	198	128	45	30	
<i>Vibrio vulnificus</i> sepsis	3	28	4	47	46	56	37	61	
Murine typhus	1	10	0	16	18	18	15	9	
Scrub typhus	35	895	101	6,668	10,528	11,105	9,513	8,130	
Leptospirosis	6	77	4	118	103	117	104	58	
Brucellosis	0	2	0	5	6	4	5	8	
Rabies	0	0	0	0	0	0	0	0	
HFRS	6	201	9	433	531	575	384	344	
Syphilis	29	1,362	29	2,280	2,148	1,569	1,006	1,015	
CJD/vCJD	1	47	1	53	36	42	33	65	
Tuberculosis	566	18,713	514	26,433	28,161	30,892	32,181	34,869	
HIV/AIDS	25	714	22	989	1,008	1,060	1,018	1,081	
Viral hepatitis C	195	7,450	-	10,811	6,396	-	-	-	China(1)
VRSA	0	1	-	0	0	-	-	-	
CRE	358	11,100	-	11,954	5,717	-	-	-	

1. (Continued) Reported cases, week ending September 28, 2019 (39th 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	7	200	4	159	171	313	255	165	Vietnam(4), India(2), Laos(1)
Q fever	1	178	2	163	96	81	27	8	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	17	72	1	23	31	27	9	13	
Melioidosis	0	5	0	2	2	4	4	2	
Chikungunya fever	2	14	0	3	5	10	2	1	Myanmar(2)
SFTS	11	163	11	259	272	165	79	55	
MERS	0	0	-	1	0	0	185	-	
Zika virus infection	0	8	-	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 28, 2019 (39th 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	103	137	8	63	39	3	109	95
Seoul	0	0	0	1	17	26	1	10	8	0	36	21
Busan	0	0	1	1	9	9	3	7	5	0	6	6
Daegu	0	0	0	0	2	4	0	2	2	1	7	5
Incheon	0	0	0	1	8	7	0	1	3	0	6	13
Gwangju	0	0	0	0	0	5	1	4	2	0	3	2
Daejeon	0	0	0	1	8	6	0	2	1	0	1	2
Ulsan	0	0	0	0	3	2	0	1	0	0	2	1
Sejong	0	0	0	0	0	1	0	1	0	0	0	0
Gyeonggi	0	0	0	2	31	27	1	13	7	1	29	16
Gangwon	0	0	0	0	0	3	0	2	1	0	1	2
Chungbuk	0	0	0	0	2	4	0	4	2	0	1	2
Chungnam	0	0	0	1	6	6	0	0	1	1	2	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	4
Gyeongbuk	0	0	0	0	4	6	0	3	1	0	1	5
Gyeongnam	0	0	1	1	9	19	0	7	2	0	5	6
Jeju	0	0	0	0	0	3	0	1	0	0	2	2

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.

‡ 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 28, 2019 (39th 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	136	92	423	15,706	2,328	5	345	249	2	32	21
Seoul	1	35	12	63	2,841	450	2	53	30	0	2	2
Busan	0	2	3	6	461	108	0	25	25	0	2	2
Daegu	0	4	9	6	163	52	0	15	6	0	4	1
Incheon	1	11	7	22	889	192	0	16	15	0	0	1
Gwangju	2	8	14	5	139	67	0	17	11	0	2	0
Daejeon	0	1	1	108	2,415	103	0	12	4	0	2	0
Ulsan	0	4	5	1	68	24	0	6	7	0	2	0
Sejong	0	3	1	8	372	13	0	6	3	0	1	0
Gyeonggi	0	26	15	104	4,828	707	1	48	40	2	5	2
Gangwon	0	5	3	5	221	55	0	6	2	0	0	1
Chungbuk	0	7	2	24	965	68	0	6	6	0	1	0
Chungnam	0	3	3	38	1,284	150	0	4	8	0	2	1
Jeonbuk	0	3	1	21	456	114	0	8	4	0	1	1
Jeonnam	2	11	6	2	142	79	1	24	8	0	2	4
Gyeongbuk	1	7	3	3	205	56	1	36	16	0	4	3
Gyeongnam	1	3	3	7	198	76	0	55	60	0	2	3
Jeju	0	3	4	0	59	14	0	8	4	0	0	0

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.

§ 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 28, 2019 (39th 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	6	277	100	303	12,880	15,058	2	12	11	4	280	213
Seoul	3	39	24	37	1,637	1,471	0	2	2	1	43	38
Busan	0	9	4	16	722	1,094	0	0	1	1	28	13
Daegu	0	14	2	11	574	480	0	0	0	0	6	7
Incheon	0	11	12	25	639	641	0	2	0	0	12	12
Gwangju	0	2	1	14	411	1,079	0	0	0	0	4	5
Daejeon	0	38	4	10	403	333	0	0	1	0	12	7
Ulsan	0	4	1	12	412	482	0	0	0	0	2	6
Sejong	0	2	0	1	77	50	0	0	0	0	0	0
Gyeonggi	2	100	31	87	3,665	3,573	0	1	4	1	68	53
Gangwon	0	5	1	8	402	475	1	1	0	0	10	6
Chungbuk	0	2	2	10	335	298	0	0	0	0	15	7
Chungnam	0	6	3	5	579	553	0	0	1	1	17	11
Jeonbuk	0	9	1	12	594	1,287	1	1	0	0	11	14
Jeonnam	0	10	9	18	499	776	0	1	0	0	13	10
Gyeongbuk	1	13	5	14	668	666	0	3	2	0	21	10
Gyeongnam	0	9	0	18	1,037	1,603	0	0	0	0	13	13
Jeju	0	4	0	5	226	197	0	1	0	0	5	1

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.

§ 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 28, 2019 (39th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category II						Diseases of Category III					
	Japanese encephalitis			Varicella			Malaria			Scarlet fever‡		
	Current week	Cum. 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	6	11	846	59,557	41,574	14	508	561	143	6,028	9,494
Seoul	0	0	4	135	6,866	4,427	3	84	75	32	1,019	1,191
Busan	0	0	0	35	2,968	2,567	0	11	7	7	347	707
Daegu	0	1	1	37	3,372	2,315	0	2	8	1	184	379
Incheon	0	0	1	48	2,881	2,184	1	82	87	9	297	428
Gwangju	0	1	1	18	2,100	1,281	0	4	4	14	329	426
Daejeon	0	1	0	39	1,475	1,175	0	5	3	1	254	345
Ulsan	0	0	0	26	1,684	1,318	0	1	4	3	242	404
Sejong	0	0	0	8	625	364	0	1	1	0	41	46
Gyeonggi	0	0	2	249	17,022	11,717	10	275	316	39	1,720	2,751
Gangwon	0	0	0	12	1,029	1,301	0	15	16	1	103	151
Chungbuk	0	1	0	19	1,244	1,062	0	5	5	3	101	168
Chungnam	0	1	0	28	2,372	1,598	0	6	8	6	274	430
Jeonbuk	0	0	0	37	2,083	1,868	0	2	5	3	202	335
Jeonnam	0	1	0	22	2,182	1,780	0	0	4	5	189	369
Gyeongbuk	0	0	1	28	3,896	1,989	0	4	7	9	238	511
Gyeongnam	0	0	1	82	6,691	3,433	0	8	8	10	415	744
Jeju	0	0	0	23	1,067	1,195	0	3	3	0	73	109

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.

§ 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 28, 2019 (39th 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	7	327	99	3	28	36	1	10	8
Seoul	0	2	2	2	95	28	0	4	4	0	2	1
Busan	0	0	1	0	14	6	1	3	4	0	0	1
Daegu	0	0	1	0	10	4	0	0	1	0	0	0
Incheon	0	1	0	0	24	8	0	0	3	0	3	1
Gwangju	0	0	0	0	11	0	0	0	0	0	0	1
Daejeon	0	0	0	0	4	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	88	19	0	4	6	0	1	1
Gangwon	0	2	0	0	8	6	0	0	0	0	0	0
Chungbuk	0	0	0	0	9	5	0	2	0	0	1	0
Chungnam	0	1	0	1	11	3	0	1	2	0	0	1
Jeonbuk	0	0	0	0	5	2	0	2	1	0	0	0
Jeonnam	0	0	0	0	13	2	0	5	6	0	1	1
Gyeongbuk	0	0	0	0	23	7	1	1	2	0	0	0
Gyeongnam	0	1	1	1	8	4	1	5	5	0	0	1
Jeju	0	0	0	0	3	2	0	1	1	1	2	0

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.

§ 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 28, 2019 (39th 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	35	895	939	6	77	49	0	2	1	6	201	209
Seoul	0	36	39	0	7	3	0	2	1	0	5	10
Busan	0	29	36	0	2	2	0	0	0	1	9	5
Daegu	2	4	12	0	1	1	0	0	0	0	2	1
Incheon	1	15	16	0	3	1	0	0	0	0	4	3
Gwangju	0	15	23	0	2	1	0	0	0	0	3	3
Daejeon	1	21	22	1	2	1	0	0	0	0	1	4
Ulsan	2	21	24	0	1	1	0	0	0	0	1	1
Sejong	0	3	4	0	0	0	0	0	0	0	0	1
Gyeonggi	3	78	96	0	8	9	0	0	0	0	27	56
Gangwon	0	5	28	0	7	3	0	0	0	0	10	10
Chungbuk	1	12	18	0	1	2	0	0	0	0	7	14
Chungnam	1	97	87	0	15	6	0	0	0	0	26	24
Jeonbuk	1	111	90	0	4	2	0	0	0	1	31	18
Jeonnam	15	225	220	1	8	6	0	0	0	2	41	28
Gyeongbuk	1	35	62	2	9	5	0	0	0	2	23	19
Gyeongnam	7	166	154	2	6	6	0	0	0	0	11	11
Jeju	0	22	8	0	1	0	0	0	0	0	0	1

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.

§ 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 28, 2019 (39th Week)*

Unit: no. of cases†

Reporting area	Diseases of Category III									Diseases of Category IV		
	Syphilis			CJD/vCJD			Tuberculosis			Dengue fever		
	Current week	Cum. 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	29	1,362	1,167	1	47	36	566	18,713	23,174	7	200	156
Seoul	3	269	244	0	8	8	101	3,314	4,331	4	54	50
Busan	5	145	73	0	3	2	45	1,300	1,650	0	7	10
Daegu	2	66	53	0	1	2	22	838	1,136	1	13	8
Incheon	0	104	104	0	1	1	31	1,010	1,203	1	15	7
Gwangju	1	35	41	0	1	0	9	446	569	0	2	2
Daejeon	2	44	34	0	4	1	10	403	535	0	5	4
Ulsan	0	16	16	0	1	1	11	388	485	0	8	2
Sejong	0	5	5	0	0	0	1	53	69	0	0	1
Gyeonggi	10	349	316	1	11	8	116	4,068	4,897	1	62	41
Gangwon	1	34	28	0	3	2	29	806	995	0	5	3
Chungbuk	0	31	28	0	1	1	21	548	705	0	6	2
Chungnam	0	49	40	0	1	2	33	880	1,070	0	5	4
Jeonbuk	1	35	25	0	2	1	26	716	885	0	5	2
Jeonnam	2	27	31	0	2	1	31	1,018	1,171	0	2	4
Gyeongbuk	1	64	46	0	4	3	40	1,423	1,661	0	2	6
Gyeongnam	1	65	54	0	4	3	32	1,245	1,537	0	7	8
Jeju	0	24	29	0	0	0	8	257	274	0	2	2

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.

§ 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 28, 2019 (39th 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	1	178	55	17	72	11	11	163	116	0	8	-
Seoul	0	18	3	7	30	4	2	6	4	0	3	-
Busan	0	2	1	0	2	1	0	1	2	0	1	-
Daegu	0	3	1	0	1	0	0	6	2	0	0	-
Incheon	0	6	1	2	4	1	0	3	2	0	2	-
Gwangju	0	3	3	2	4	0	0	1	0	0	0	-
Daejeon	0	4	1	0	0	1	0	2	2	0	0	-
Ulsan	0	0	2	0	1	0	0	3	2	0	0	-
Sejong	0	0	0	0	0	0	0	3	0	0	0	-
Gyeonggi	0	33	7	3	15	2	2	26	17	0	1	-
Gangwon	0	0	0	0	2	0	2	27	15	0	0	-
Chungbuk	0	28	14	0	0	0	0	1	5	0	0	-
Chungnam	1	16	8	0	3	0	2	20	11	0	0	-
Jeonbuk	0	17	2	0	1	1	0	16	4	0	0	-
Jeonnam	0	24	5	1	5	0	1	15	9	0	1	-
Gyeongbuk	0	13	3	1	2	1	1	14	19	0	0	-
Gyeongnam	0	10	4	0	1	0	1	12	12	0	0	-
Jeju	0	1	0	1	1	0	0	7	10	0	0	-

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.

§ Cum. 5-year average is mean value calculated by cumulative counts from 1st week to current week for 5 preceding years.

II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending September 28, 2019 (39th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 3.8 cases (=0.38%)
- Variation: increase from 3.7 cases in 38th week of 2019
- Sentinel reporting sites: 200 hospitals/clinics
- ※ 2019-2020 outbreak standard: 5.9 cases (/1,000)

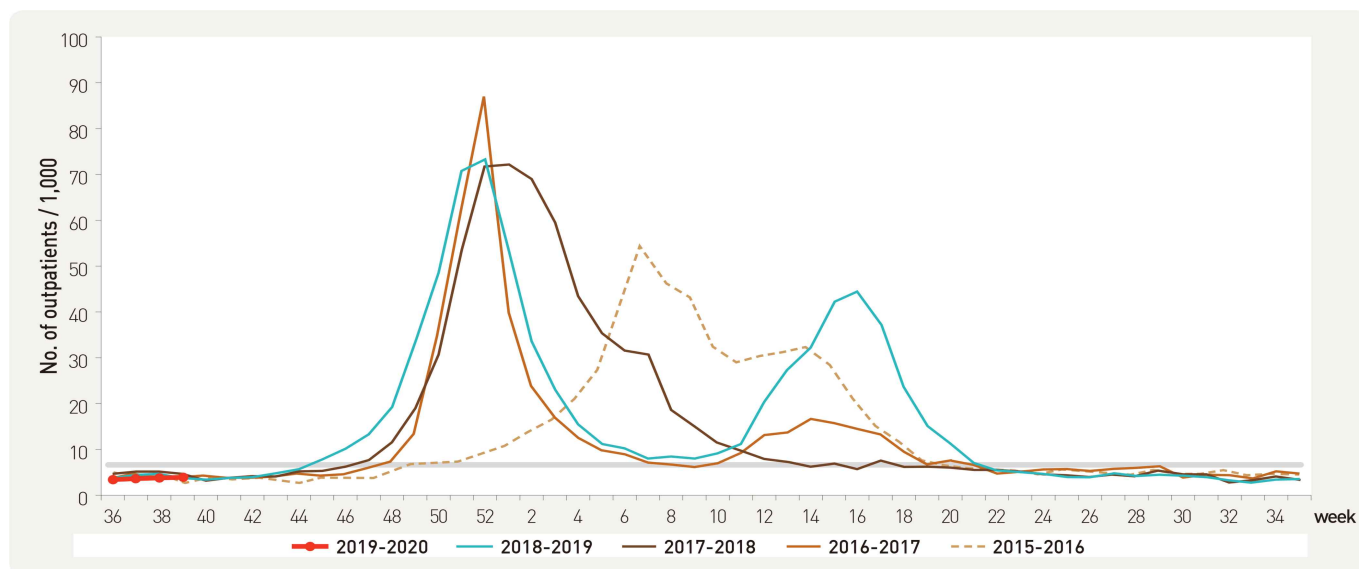


Figure 1. Weekly proportion of influenza-like illness per 1,000 outpatients, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending September 28, 2019 (39th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 8.6 cases
- Variation: decrease from 11.8 cases in 38th week of 2019
- Sentinel reporting sites: 97 hospitals/clinics

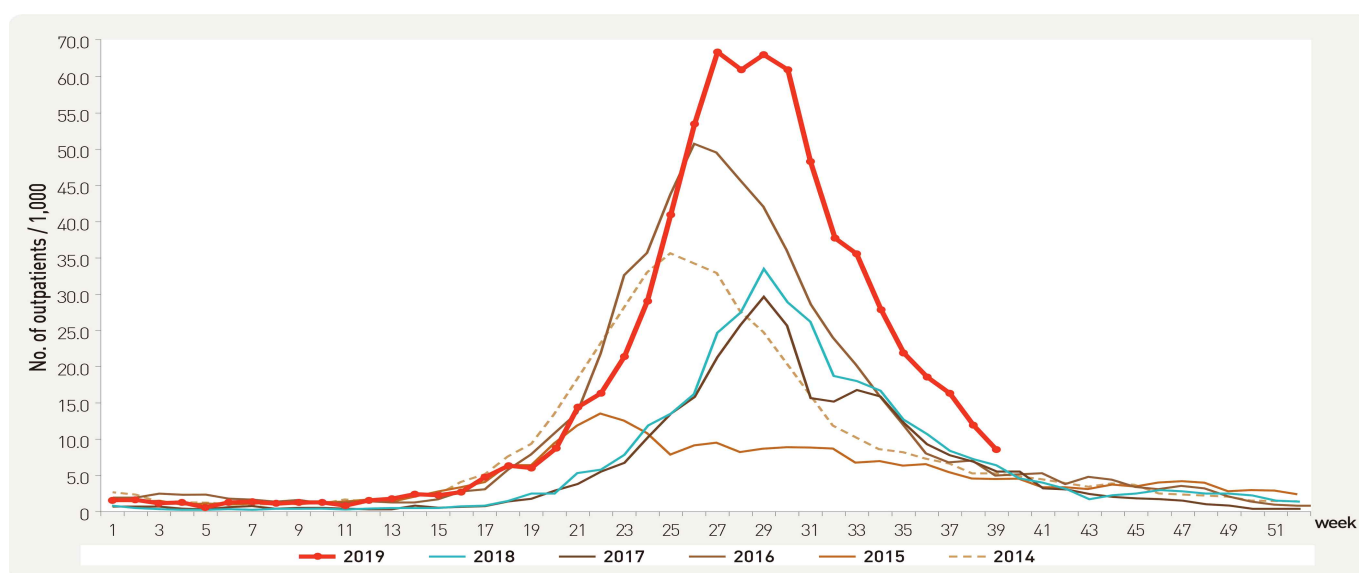


Figure 2. Weekly proportion of hand, foot and mouth per 1,000 outpatients, 2014-2019

3. Ophthalmologic infectious diseases, weeks ending September 28, 2019 (39th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 18.2 cases
- Variation: decrease from 21.0 cases in 38th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

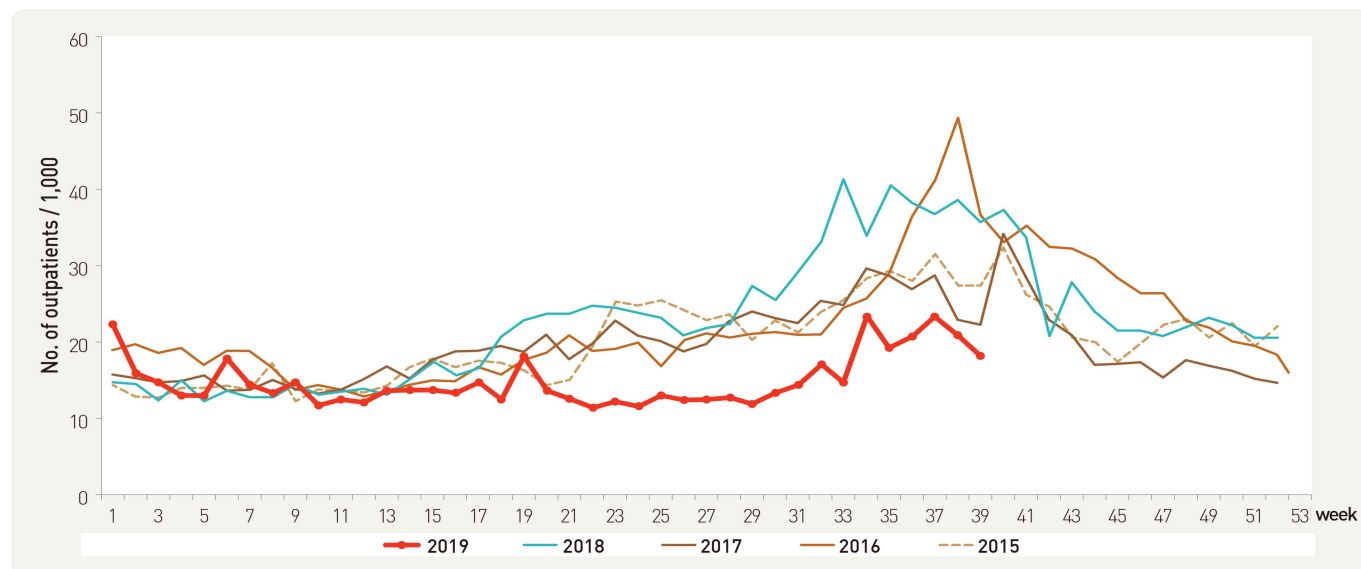


Figure 3. Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients, 2015-2019

- Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients: 0.9 case
- Variation: increase from 0.5 case in 38th week of 2019
- Sentinel reporting sites: 90 hospitals/clinics

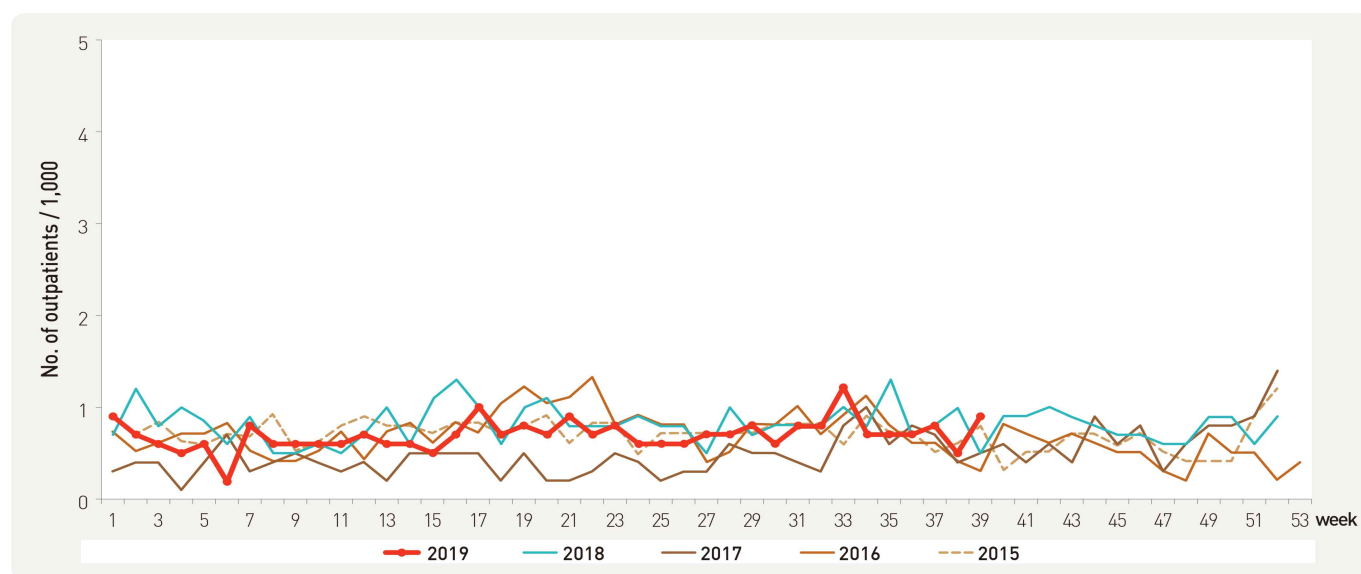


Figure 4. Weekly proportion of acute hemorrhagic conjunctivitis per 1,000 outpatients, 2015-2019

4. Sexually Transmitted Diseases[†], weeks ending September 28, 2019 (39th Week)

- Cases per sentinel: 2.8 for genital herpes, 2.6 for chlamydia, 1.9 for condyloma acuminata, 1.4 for gonorrhea
- Variation from 38th week of 2019
Increase: chlamydia (2.2 → 2.6)
Decrease: gonorrhea (2.0 → 1.4), genital herpes (2.9 → 2.8), condyloma acuminata (2.4 → 1.9)
- Sentinel reporting sites: 592 hospitals/clinics
※ No. of reported sites in 39th week: 46 for gonorrhea, 86 for chlamydia, 50 for genital herpes, 47 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 [§]
1.4	7.3	8.6	2.6	27.3	22.5	2.8	39.1	26.3	1.9	21.2	16.1

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 September 28, 2019 (39th Week)

- No. of reported outbreaks: 11 with 118 patients (cumulative no. of outbreaks: 478 with 5,588 patients)
- Variation: increase from 9 in 38th week of 2019
- Reporting sites: 254 health centers

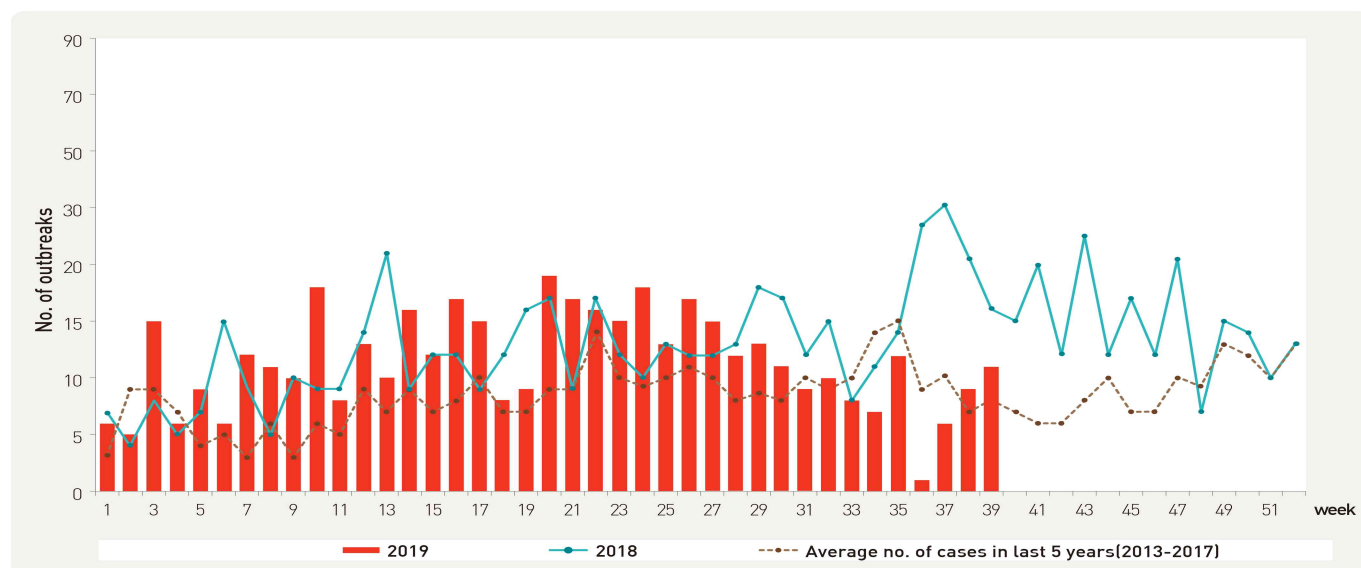


Figure 5. Number of waterborne and foodborne disease outbreaks reported by week, 2018-2019

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

1. Influenza viruses, weeks ending September 28, 2019 (39th Week)

- Weekly reported number of specimens positive for influenza: 3 cases (1.4%) / 220 specimens [influenza subtype: A(H1N1)pdm09 1 case, A(H3N2) 2 cases, B 0 case]
- Variation (%p): increase from 0 case (0.0%) / 214 specimens in 38th 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 28, 2019 (39th Week)

- Detection rate: 48.2% (cumulative mean proportion during preceding three weeks plus current week: 46.6% out of 775 specimens)
- Variation (%p): increase from 45.3% in 38th 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
36	180	43.9	11.7	8.3	1.1	1.1	0.0	18.3	2.2	1.1
37	161	49.1	11.2	6.8	1.9	0.0	1.9	21.1	1.9	4.4
38	214	45.3	8.4	7.9	2.3	0.0	1.4	22.0	2.3	0.9
39	220	48.2	9.5	7.3	1.4	1.4	0.9	24.5	1.8	1.4
Cum.*	775	46.6	10.1	7.6	1.7	0.6	1.0	21.7	2.1	1.8
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 September 1, 2019 – september 28, 2019 (Average no. of detected cases is 194 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 September 21, 2019 (38th Week)

- Detection rate: 10.8% [cumulative mean proportion in 2019: 684 cases (31.2%) out of 2,194 specimens]
- Variation (%p): increase from 9.1% in 37th 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 35	53	3	(5.7)	0	(0.0)	3	(5.7)	1	(1.9)	3	(5.7)	10	(18.9)
36	50	2	(4.0)	0	(0.0)	0	(0.0)	1	(2.0)	0	(0.0)	3	(6.0)
37	44	1	(2.3)	2	(4.5)	1	(2.3)	0	(0.0)	0	(0.0)	4	(9.1)
38	37	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(10.8)	4	(10.8)
Cum. 2019	2,194	450	(20.5)	119	(5.4)	35	(1.6)	44	(2.0)	36	(1.6)	684	(31.2)

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

2. Acute gastroenteritis-causing bacteria, weeks ending September 21, 2019 (38th Week)

- Detection rate: 27.6% [cumulative mean proportion in 2019: 969 cases (14.8%) out of 6,529 specimens]
- Variation (%p): increase from 23.7% in 37th 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	35	154	8 (5.2)	27 (17.5)	0 (0)	1 (0.6)	0 (0)	4 (2.6)	2 (1.3)	2 (1.3)	4 (2.6)	48 (31.2)
	36	166	6 (3.6)	21 (12.7)	1 (0.6)	0 (0)	0 (0)	3 (1.8)	2 (1.2)	1 (0.6)	4 (2.4)	38 (22.9)
	37	114	7 (6.1)	14 (12.3)	0 (0)	1 (0.9)	0 (0)	1 (0.9)	1 (0.9)	2 (1.8)	1 (0.9)	27 (23.7)
	38	105	11 (10.5)	9 (8.6)	0 (0)	1 (1.0)	0 (0)	3 (2.9)	1 (1.0)	2 (1.9)	2 (1.9)	29 (27.6)
Cum. 2019		6,529	205 (3.1)	333 (5.1)	1 (0.02)	4 (0.06)	0 (0)	85 (1.3)	121 (1.9)	122 (1.9)	92 (1.4)	969 (14.8)

* 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 September 21, 2019 (38th Week)

- Detection rate: 43.2% (16 cases / 37 specimens) [cumulative mean proportion in 2019: 39.4% (604 cases / 1,532 specimens)]
 - Aseptic meningitis: 4 cases (Cum. 2019: 234 cases)
 - HFMD and herpangina: 2 cases (Cum. 2019: 235 cases)
 - HFMD with complications: 0 case (Cum. 2019: 12 cases)
 - Other: 10 cases (Cum. 2019: 123 cases)
- Variation (%p): decrease from 60.9% in 37th week of 2019
- Sentinel reporting sites: 14 city/provincial health and environmental institutes and 59 hospitals/clinics

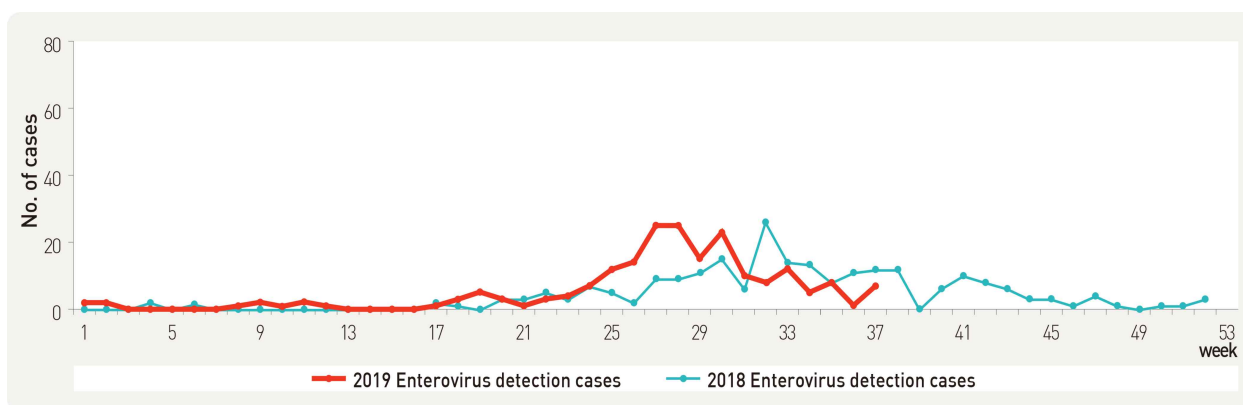


Figure 7. Detection of enterovirus in aseptic meningitis patients from 2017 to 2018

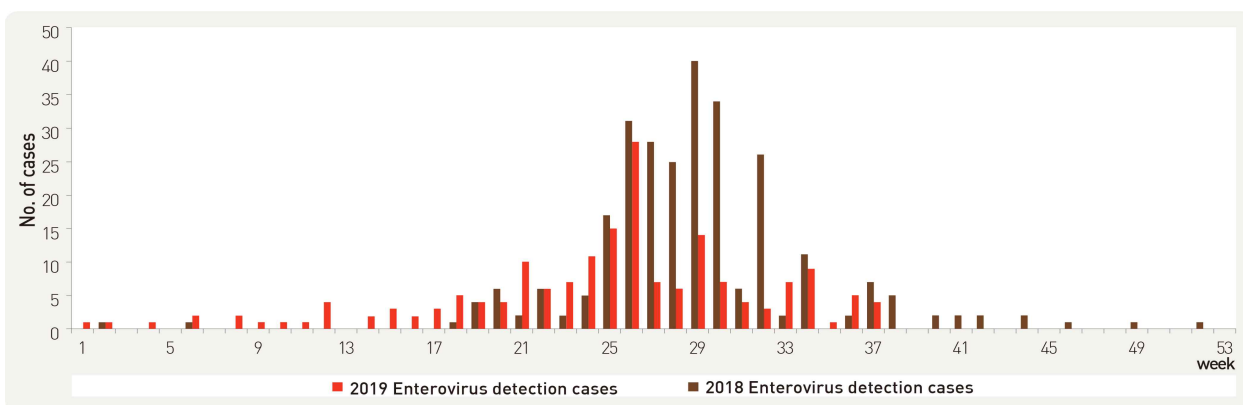


Figure 8. Detection of enterovirus in HFMD and herpangina patients from 2017 to 2018

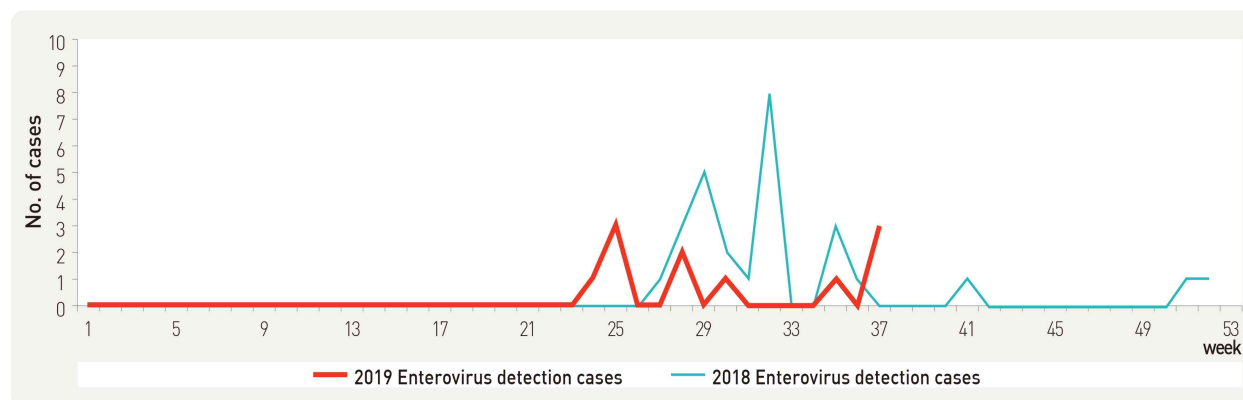


Figure 9. Detection of enterovirus in HFMD with complications patients from 2017 to 2018

VII. Vector Surveillance: Malaria Vector Mosquitoes

1. Malaria vector mosquitoes, weeks ending September 21, 2019 (38th Week)

- No. of malaria vector mosquitoes: 3
- Variation: decrease from 4 in 37th week of 2019
- Sentinel reporting sites: 3 city/province (44 sites)
- ※ No. of mosquitoes: average number of mosquitoes/trap/day

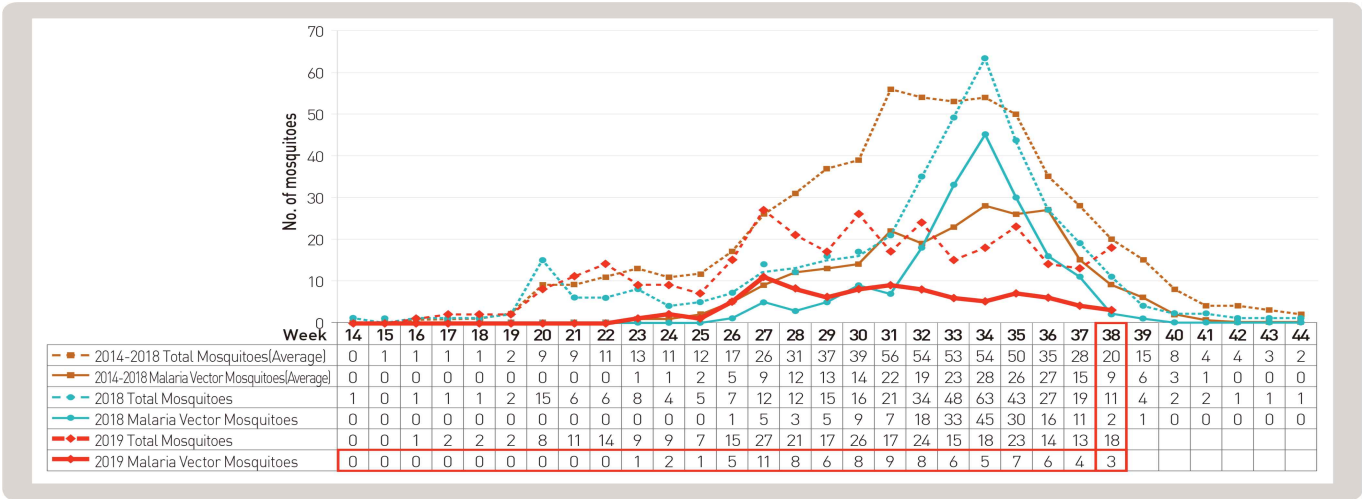


Figure 10. Weekly incidences of malaria vector mosquitoes in 2018

VIII. Vector Surveillance: Japanese encephalitis vector Mosquitoes

1. Japanese encephalitis vector mosquitoes, weeks ending September 28, 2019 (39th Week)

- No. of Japanese encephalitis vector mosquitoes: 59
- ※ JEV: Japanese encephalitis vector
- Variation: decrease from 123 in 38th 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

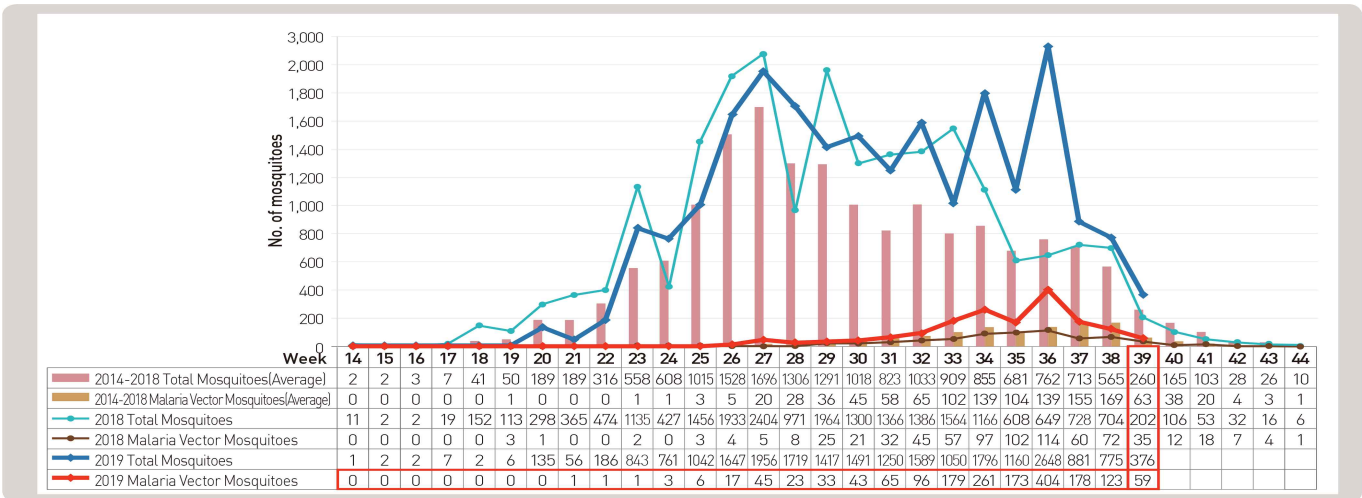


Figure 11. Weekly incidences of Japanese encephalitis vector mosquitoes in 2018

IX. Vector Surveillance: Scrub typhus vector chigger mites

1. Scrub typhus vector chigger mites, weeks ending September 28, 2019 (39th Week)

- No. of chigger mites: 5
- Variation: decrease from 6 in 38th week of 2019
- Sentinel reporting sites: 11 city/province (16 sites)
 - ※ No. of chigger mites: total number of chigger in 320 traps

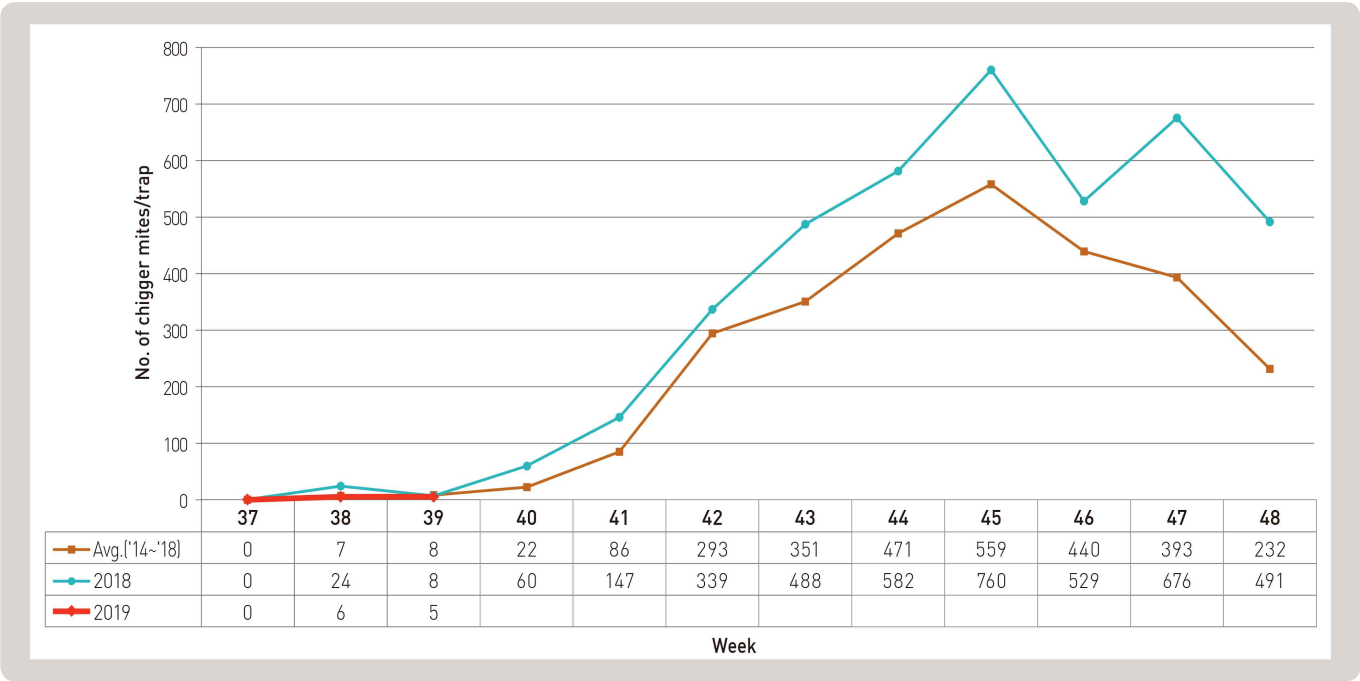


Figure 12. Weekly incidences of scrub typhus vector chiggers in 2019

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

1. Severe fever with thrombocytopenia syndrome vector ticks, weeks ending September 28, 2019 (39th Week, September)

- No. of severe fever with thrombocytopenia syndrome vector ticks per trap: 158.9
 - ※ T.I.: Trap index (No. of ticks / trap)
- Variation: increase from 123.0 in 35th week (August) of 2019
- Sentinel reporting sites: 11 city/province (16 sites)
 - ※ No. of vector ticks: average number of vector ticks/trap/day

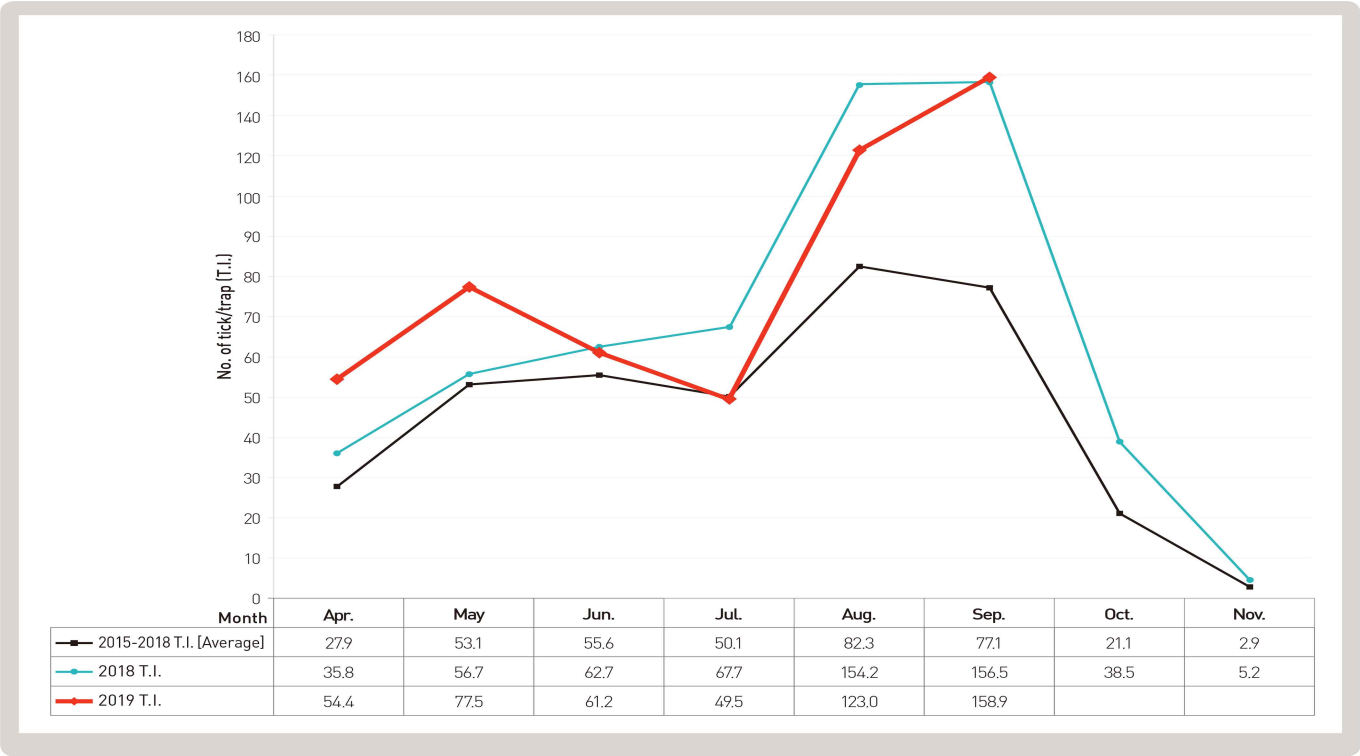


Figure 13. Monthly incidences of severe fever with thrombocytopenia syndrome vector ticks in 2019

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