Korea Centers for Disease Control and Prevention

PHWR

Public Health Weekly Report Disease Surveillance Statistics

September 20, 2018

I. National Notifiable Infectious Diseases

1. Reported cases, week ending September 15, 2018 (37th Week)^{*}

										Unit: no. of cases
Class	ification of disease [‡]	Current	Cum.	5-year weekly		Total no.	of cases	s by year		Imported cases of current week
0.000		week	2018	average	2017	2016	2015	2014	2013	: Country (no. of cases)
Category	I									,
	Cholera	0	2	0	5	4	0	0	3	
	Typhoid fever	9	223	3	128	121	121	251	156	
	Paratyphoid fever	27	69	1	73	56	44	37	54	India(1)
	Shigellosis	8	195	2	111	113	88	110	294	Vietnam(1)
	EHEC	4	115	2	138	104	71	111	61	
	Viral hepatitis A	33	1,869	39	4,419	4,679	1,804	1,307	867	
Category	II									
5,	Pertussis	34	672	4	318	129	205	88	36	
	Tetanus	0	25	1	34	24	22	23	22	
	Measles	3	31	1	7	18		442	107	
	Mumps	367	14,731	369	16,924	17,057	23,448	25,286	17,024	
	Rubella	1	31	0	, 7	11	11	11	18	
	Viral hepatitis B (Acute)	8	293	4	391	359	155	173	117	
	Japanese encephalitis	0	2	2	9	28	40	26	14	
	Varicella	1,074	63,055	500	80,092	54,060	46,330	44,450	37,361	
	<i>Haemophilus influenza</i> type b	0	2	0	3	0	0	0	0	
	Streptococcus pneumoniae	0	489	2	523	441	228	36	-	
Category	III									
	Malaria	13	507	20	515	673	699	638	445	
	Scarlet fever [®]	219	13,158	133	22,838	11,911	7,002	5,809	3,678	
	Meningococcal meningitis	0	11	0	17	6	6	5	6	
	Legionellosis	11	213	2	198	128	45	30	21	
	Vibrio vulnificus sepsis	5	36	5	46	56	37	61	56	
	Murine typhus	1	13	0	18	18	15	9	19	United States of America(1)
	Scrub typhus	72	1,453	40	10,528	11,105	9,513	8,130	10,365	
	Leptospirosis	8	72	4	103	117	104	58	50	Philippines(1)
	Brucellosis	11	68	0	6	4	5	8	16	China(1)
	Rabies	0	0	0	0	0	0	0	0	
	HFRS	12	268	8	531	575	384	344	527	Laos(1)
	Syphilis	30	1,697	28	2,148	1,569	1,006	1,015	799	
	CJD/vCJD	6	56	1	36	42	33	65	34	
	Tuberculosis	616	19,654	601	28,161	30,892	32,181	34,869	36,089	
	HIV/AIDS	24	670	24	1,009	1,062	1,018	1,081	1,013	
	Viral hepatitis C	206	8,079	-	6,396	-	-	-	-	
	VRSA	0	0	-	0	-	-	-	-	
	CKE	263	8,265	-	5,/16	-	-	-	-	

Unit: no. of cases[†]

	Current	Cum	5-year _		Total no	o. of cases	by year		Imported cases
Classification of disease [‡]	week	2018	weekly average	2017	2016	2015	2014	2013	: Country (no. of cases)
Category IV									
Dengue fever	9	152	7	171	313	255	165	252	Laos(3), Vietnam(2), Indonesia(1), Cambodia(1), Thailand(1), Philippines(1)
Q fever	26	298	1	96	81	27	8	11	
West Nile fever	0	0	0	0	0	0	0	0	
Lyme Borreliosis	11	84	1	31	27	9	13	11	United States of America(1)
Melioidosis	0	1	0	2	4	4	2	2	
Chikungunya fever	1	15	0	5	10	2	1	2	Laos(1)
SFTS	9	166	7	272	165	79	55	36	
MERS	1	1	-	0	0	185	-	-	Kuwait(1)
Zika virus infection	4	18	-	11	16	-	-	-	Indonesia(2), Laos(1), Malaysia(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.

Unit: no. of cases[†]

Reporting area						Diseases	of Categor	y I				
Reporting		Cholera		Тур	phoid fe	ver	Para	typhoid f	fever	S	higellosis	;
	Current week	Cum. 2018	Cum. 5-year average [§]									
Overall	0	2	1	9	223	124	27	69	41	8	195	77
Seoul	0	0	0	0	39	22	4	14	8	1	42	18
Busan	0	2	0	1	25	8	10	13	5	0	14	4
Daegu	0	0	0	0	5	4	2	4	2	1	22	2
Incheon	0	0	0	1	11	7	0	1	3	1	17	10
Gwangju	0	0	0	0	5	5	0	1	2	0	5	1
Daejeon	0	0	0	0	5	6	0	0	2	0	2	2
Ulsan	0	0	0	0	6	1	0	0	1	0	2	0
Sejong	0	0	0	0	2	0	0	0	0	0	1	0
Gyonggi	0	0	0	2	53	22	8	15	7	5	29	20
Gangwon	0	0	0	0	10	1	0	8	1	0	6	1
Chungbuk	0	0	0	0	8	3	0	1	2	0	3	2
Chungnam	0	0	0	1	8	7	0	0	1	0	19	3
Jeonbuk	0	0	0	0	6	3	0	0	2	0	1	2
Jeonnam	0	0	0	1	8	7	3	6	1	0	6	3
Gyeongbuk	0	0	0	1	10	5	0	2	1	0	20	2
Gyeongnam	0	0	1	2	19	21	0	4	2	0	6	6
Jeju	0	0	0	0	3	2	0	0	1	0	0	1

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t According to surveillance data, the reported cases may include all of the cases such as confirmed, suspected, and asymptomatic carrier in the group.

Unit: no. of cases[†]

		Di	seases of	Category	Ι			D	iseases of	Category	Ш	
Reporting	Enter <i>Esc</i>	ohemorrl <i>herichia</i>	nagic <i>coli</i>	Viral	hepati	tis A		Pertussis			Tetanus	
area	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	4	115	76	33	1,869	2,007	34	672	101	0	25	15
Seoul	2	20	10	6	377	391	1	52	20	0	2	2
Busan	0	6	3	3	48	98	4	88	7	0	3	2
Daegu	0	11	7	1	54	42	0	21	1	0	3	0
Incheon	0	11	6	4	137	171	0	38	6	0	2	0
Gwangju	0	10	13	0	21	63	3	27	6	0	0	0
Daejeon	0	2	1	3	100	83	1	13	1	0	0	0
Ulsan	0	6	5	0	17	21	1	24	2	0	1	0
Sejong	0	0	1	1	16	10	1	10	0	0	0	0
Gyonggi	1	10	12	5	553	611	8	100	19	0	2	2
Gangwon	0	5	2	1	46	47	0	4	1	0	0	2
Chungbuk	0	3	2	0	64	62	0	23	1	0	0	0
Chungnam	0	6	2	2	167	118	0	12	3	0	1	0
Jeonbuk	0	1	1	5	124	94	0	11	1	0	2	0
Jeonnam	1	6	5	0	25	74	0	12	5	0	4	3
Gyeongbuk	0	10	1	1	57	44	3	34	9	0	4	2
Gyeongnam	0	4	2	1	55	65	12	201	16	0	1	2
Jeju	0	4	3	0	8	13	0	2	3	0	0	0

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Unit: no. of cases⁺

						Diseases	of Categor	уШ				
Reporting area		Measles	;		Mumps			Rubella		Vira	l hepatiti (Acute)	s B
	Current week	Cum. 2018	Cum. 5-year average§	Current week	Cum. 2018	Cum. 5-year average⁵	Current week	Cum. 2018	Cum. 5-year average [§]	Current week	al hepatitis (Acute) Cum. 2018 293 55 14 12 14 9 13 7 0 76 10 76 10 8 12 10 8 12 10 13 16 22	Cum. 5-year average [§]
Overall	3	31	115	367	14,731	13,283	1	31	19	8	293	162
Seoul	2	9	23	50	1,824	1,290	1	8	3	1	55	28
Busan	0	1	4	33	865	938	0	1	2	1	14	12
Daegu	0	1	2	14	604	424	0	2	1	1	12	5
Incheon	0	1	12	13	762	576	0	0	1	0	14	11
Gwangju	0	0	1	19	432	967	0	0	0	1	9	3
Daejeon	0	2	3	9	503	484	0	2	1	0	13	5
Ulsan	0	0	1	12	456	417	0	0	1	0	7	4
Sejong	0	0	0	4	99	33	0	1	0	0	0	0
Gyonggi	0	7	32	103	4,177	2,947	0	8	5	2	76	38
Gangwon	0	1	1	10	484	495	0	0	0	0	10	5
Chungbuk	0	1	2	4	404	233	0	2	1	0	8	5
Chungnam	1	3	3	11	619	505	0	1	1	1	12	9
Jeonbuk	0	2	1	11	617	1,138	0	2	0	0	10	13
Jeonnam	0	1	9	13	555	651	0	1	0	0	13	7
Gyeongbuk	0	2	5	23	779	600	0	2	2	0	16	7
Gyeongnam	0	0	16	31	1,306	1,352	0	1	1	1	22	9
Jeju	0	0	0	7	245	233	0	0	0	0	2	1

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Unit: no. of cases[†]

Reporting		Dis	seases of	Category	Ш			D	iseases of	Category III		
Reporting area	Japane	se encep	ohalitis		Varicella			Malaria		Sc	arlet feve	r ¹
	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	4	1,074	63,055	32,153	13	507	496	219	13,158	6,998
Seoul	0	0	1	123	6,885	3,310	3	69	64	42	1,979	809
Busan	0	0	0	58	3,579	2,122	1	7	7	10	1,117	492
Daegu	0	0	1	44	3,303	1,821	0	11	6	2	380	316
Incheon	0	0	0	51	2,689	1,896	1	70	82	9	603	321
Gwangju	0	0	0	74	2,222	950	1	5	3	17	598	313
Daejeon	0	0	0	19	1,580	882	0	3	2	8	420	251
Ulsan	0	0	0	23	2,019	1,061	0	3	3	9	727	261
Sejong	0	0	0	13	988	168	0	1	1	3	81	29
Gyonggi	0	0	1	332	17,771	9,040	3	288	274	61	3,564	2,085
Gangwon	0	0	0	29	1,744	1,263	0	11	18	2	227	106
Chungbuk	0	0	0	26	2,467	638	0	3	5	11	268	122
Chungnam	0	0	0	28	1,965	1,331	2	8	7	4	456	335
Jeonbuk	0	0	0	54	2,765	1,430	0	4	4	4	643	215
Jeonnam	0	0	0	40	2,217	1,449	1	6	3	10	508	258
Gyeongbuk	0	1	1	56	2,981	1,475	1	3	8	11	571	436
Gyeongnam	0	1	0	85	5,430	2,521	0	12	6	13	906	560
Jeju	0	0	0	19	2,450	796	0	3	3	3	110	89

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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.

Unit: no. of cases⁺

						Diseases	of Category	y III				
Reporting area	Meningo	coccal m	eningitis	Le	gionellos	sis	Vibrio	vulnificus	sepsis	Mu	rine typh	us
	Current week	Cum. 2018	Cum. 5-year average [§]	Current week	Cum. 2018	Cum. 5-year average⁵	Current week	Cum. 2018	Cum. 5-year average [§]	Current week	Cum. 2018	Cum. 5-year average [§]
Overall	0	11	5	11	213	54	5	36	28	1	13	8
Seoul	0	2	2	2	56	16	0	5	3	1	2	2
Busan	0	0	1	2	19	3	0	5	2	0	0	1
Daegu	0	1	0	1	10	2	0	0	0	0	0	0
Incheon	0	3	0	1	15	4	0	4	2	0	1	1
Gwangju	0	0	0	0	1	0	0	0	0	0	0	1
Daejeon	0	0	0	0	3	1	0	0	1	0	0	0
Ulsan	0	0	0	0	3	2	0	0	1	0	1	0
Sejong	0	0	0	0	0	0	0	0	0	0	0	0
Gyonggi	0	1	2	4	43	11	0	6	5	0	4	1
Gangwon	0	0	0	0	12	4	0	0	0	0	0	0
Chungbuk	0	0	0	0	11	2	0	0	0	0	0	0
Chungnam	0	1	0	1	7	2	3	6	1	0	0	1
Jeonbuk	0	0	0	0	2	1	0	0	2	0	0	0
Jeonnam	0	0	0	0	1	1	0	4	5	0	0	1
Gyeongbuk	0	0	0	0	24	2	0	0	2	0	1	0
Gyeongnam	0	3	0	0	4	2	2	6	3	0	4	0
Jeju	0	0	0	0	2	1	0	0	1	0	0	0

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Unit: no. of cases⁺

						Diseases	of Categor	уШ				
Reporting area	Sci	rub typh	us	Le	ptospiro	sis	E	Brucellosis		Hem with	orrhagic f renal syndi	ever rome
	Current week	Cum. 2018	Cum. 5-year average⁵	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	72	1,453	587	8	72	29	11	68	5	12	268	183
Seoul	6	59	28	2	7	1	1	8	1	2	17	8
Busan	2	40	26	1	1	2	0	2	0	0	11	4
Daegu	1	15	8	0	0	1	2	5	1	0	3	1
Incheon	6	32	11	0	0	0	2	12	0	0	4	3
Gwangju	0	33	13	0	2	1	0	0	0	1	4	3
Daejeon	1	26	17	0	2	1	0	2	0	0	5	3
Ulsan	2	27	17	0	1	0	1	2	1	0	2	1
Sejong	1	5	3	0	0	0	0	0	0	0	0	1
Gyonggi	7	107	72	1	7	6	2	8	0	2	42	55
Gangwon	1	28	23	1	4	2	0	3	0	0	9	15
Chungbuk	3	42	8	0	6	1	2	11	0	1	16	12
Chungnam	6	171	45	0	13	3	1	5	0	2	40	17
Jeonbuk	5	162	53	0	2	2	0	0	0	1	31	13
Jeonnam	8	386	122	2	14	4	0	1	0	1	32	23
Gyeongbuk	4	91	39	1	8	2	0	3	1	0	33	15
Gyeongnam	16	216	97	0	5	3	0	6	0	2	18	8
Jeju	3	13	5	0	0	0	0	0	1	0	1	1

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Unit: no. of cases[†]

				Disease	es of Cat	tegory III				Diseases	of Cate	gory IV
Reporting area		Syphilis		(CJD/vCJD)	Tu	uberculos	is	De	ngue fev	er
	Current week	Cum. 2018	Cum. 5-year average [§]									
Overall	30	1,697	874	6	56	35	616	19,654	23,583	9	152	171
Seoul	8	362	175	0	13	8	111	3,488	4,544	5	51	55
Busan	5	138	47	0	8	3	37	1,296	1,727	1	11	12
Daegu	2	75	40	0	4	3	28	899	1,175	0	8	7
Incheon	3	144	82	0	1	1	30	1,016	1,229	1	8	7
Gwangju	0	69	27	1	1	1	19	506	577	0	1	2
Daejeon	0	50	24	0	1	1	17	448	548	0	0	7
Ulsan	0	15	13	2	3	0	10	444	496	0	3	2
Sejong	0	9	3	1	1	0	4	76	61	0	0	1
Gyonggi	6	460	237	1	14	7	137	4,226	4,954	2	46	43
Gangwon	0	35	25	0	0	1	36	857	978	0	3	2
Chungbuk	0	51	19	0	0	1	11	650	697	0	2	2
Chungnam	1	58	30	0	1	2	30	944	1,041	0	3	5
Jeonbuk	2	40	19	0	2	1	24	766	877	0	5	4
Jeonnam	0	27	24	0	0	1	22	1,048	1,169	0	3	4
Gyeongbuk	2	73	34	0	4	3	57	1,387	1,685	0	3	7
Gyeongnam	1	55	51	0	2	2	33	1,325	1,553	0	4	9
Jeju	0	36	24	1	1	0	10	278	270	0	1	2

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Unit: no. of cases⁺

						Diseases (of Category	y IV				
Reporting area		Q fever		Lym	e Borreli	iosis		SFTS		Zika	virus infe	ction
	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	26	298	31	11	84	10	9	166	68	4	18	-
Seoul	6	52	2	3	38	4	2	8	2	0	6	-
Busan	0	13	1	0	4	1	0	3	1	0	2	-
Daegu	0	8	1	0	1	1	0	1	2	1	1	-
Incheon	4	19	0	2	9	0	0	0	1	0	2	-
Gwangju	0	13	1	0	1	0	0	0	0	0	0	-
Daejeon	0	8	1	0	2	0	0	2	1	0	0	-
Ulsan	2	13	1	0	1	0	0	3	1	0	0	-
Sejong	0	0	0	0	0	0	0	0	0	0	0	-
Gyonggi	5	49	3	1	10	2	3	20	9	2	2	-
Gangwon	1	4	0	2	2	0	1	21	8	0	0	-
Chungbuk	3	32	9	0	1	0	0	7	2	0	1	-
Chungnam	1	18	4	2	3	0	0	17	7	0	0	-
Jeonbuk	1	8	1	0	2	1	1	12	2	1	3	-
Jeonnam	3	28	2	0	2	0	1	13	6	0	0	-
Gyeongbuk	0	11	2	0	2	1	1	24	12	0	0	-
Gyeongnam	0	21	3	0	4	0	0	26	6	0	1	-
Jeju	0	1	0	1	2	0	0	9	8	0	0	-

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II. Sentinel-Reporting Infectious Diseases

1. Influenza, weeks ending September 15, 2018 (37th Week)

- Weekly proportion of influenza-like illness per 1,000 outpatients: 4.3 cases (=0.43%)
- Variation: increase from 4.0 cases in 36^{th} 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, 2014-2015 to 2018-2019 flu seasons

2. Hand, Foot and Mouth Disease (HFMD), weeks ending September 15, 2018 (37th Week)

- Weekly proportion of hand, foot and mouth disease (HFMD) per 1,000 outpatients: 8.3 cases
- Variation: decrease from 10.8 cases in 36th week
- Sentinel reporting sites: 95 hospitals/clinics



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

3. Ophthalmologic infectious diseases, weeks ending September 15, 2018 (37th Week)

- Weekly proportion of epidemic keratoconjunctivitis per 1,000 outpatients: 36.8 cases
- Variation: decrease from 37.8 cases in 36th 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: increase from 0.7 case in 36th week
- · Sentinel reporting sites: 92 hospitals/clinics



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

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4. Sexually Transmitted Diseases[†], weeks ending September 15, 2018 (37th Week)

- Cases per sentinel: 2.8 for genital herpes, 2.5 for chlamydia, 2.1 for condyloma acuminata, 1.5 for gonorrhea
- Variation from 36^{th} week Increase: gonorrhea (1.2 \rightarrow 1.5), chlamydia (2.0 \rightarrow 2.5), genital herpes (2.0 \rightarrow 2.8), condyloma acuminata (1.7 \rightarrow 2.1)

Sentinel reporting sites: 580 hospitals/clinics
 No. of reported sites in 37th week: 20 for gonorrhea, 50 for chlamydia, 34 for genital herpes, 29 for condyloma acuminata

									Unit: n	o. of cas	es/sentinels
0	Gonorrhe	ea	C	hlamyd	ia	Gei	nital her	pes	Condyl	oma acı	uminata
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§
1.5	6.7	8.6	2.5	24.6	20.2	2.8	32.7	22.9	2.1	18.6	14.1

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 15, 2018 (37th Week)

- No. of reported outbreaks: 30 with 638 patients (cumulative no. of outbreaks: 547 with 12,226 patients)
- Variation: decrease from 70 in 36th week
- Reporting sites: 254 health centers



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

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

1. Influenza viruses, Republic of Korea, weeks ending September 15, 2018 (37th Week)

- Weekly reported number of specimens positive for influenza: 1 case (0.4%) / 239 specimens [influenza subtype: A(H1N1)pdm09 1 case, A(H3N2) 0 case, B 0 case]
- Variation(%p): decrease from 0 case (0.5%) / 198 specimens in 36th week
- 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 15, 2018 (37th Week)

- Detection rate: 51.5% (cumulative mean proportion during preceding three weeks plus current week: 46.0% out of 798 specimens)
- Variation(%p): increase from 50.0% in 36^{th} week
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 52 hospitals/clinics

2018	We to	ekly tal				Detectior	n rate (%)			
(week)	No. of samples	Detection rate (%)	HAdV	HPIV	HRSV	IFV	HCoV	HRV	HBoV	HMPV
34	186	37.1	9.7	7.5	1.6	0.5	4.3	12.4	0.0	1.1
35	175	43.4	12.0	8.0	1.7	0.0	5.7	15.4	0.6	0.0
36	198	50.0	19.2	4.0	1.5	0.5	1.5	20.2	2.0	1.0
37	239	51.5	14.2	10.0	3.8	0.4	1.7	20.9	0.0	0.4
Cum. ^{**}	798	46.0	13.9	7.5	2.3	0.4	3.1	17.5	0.6	0.6
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 August 19 2018. – September 152018, (Average No. of detected cases is 200 last 4 weeks)

 \forall 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 September 8, 2018 (36th Week)

• Detection rate: 15.4% [cumulative mean proportion in 2018: 686 cases (26.4%) out of 2,603 specimens]

- Variation(%p): increase from 14.6% in 35^{th} 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	33	67	0	(0.0)	1	(1.5)	2	(3.0)	2	(3.0)	5	(7.5)
	34	73	2	(2.7)	1	(1.4)	7	(9.6)	6	(8.2)	16	(21.9)
	35	82	3	(3.7)	3	(3.7)	2	(2.4)	4	(4.9)	12	(14.6)
	36	52	1	(1.9)	1	(1.9)	4	(7.7)	2	(3.8)	8	(15.4)
Cum. 2018		2,603	224	(8.6)	305	(11.7)	99	(3.8)	58	(2.2)	686	(26.4)

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

2. Acute gastroenteritis-causing bacteria, weeks ending September 8, 2018 (36th Week)

- Detection rate: 24.6% [cumulative mean proportion in 2018: 922 cases (13.9%) out of 6,614 specimens]
- Variation(%p): decrease from 26.5% in 35th week of 2018
- Sentinel reporting sites: 17 city/provincial health and environmental institutes and 70 hospitals/clinics

Week		No. of Sample	No. of isolation (Isolation rate, %)									
			<i>Salmonell</i> <i>a</i> spp.	Pathogeni c <i>E.coli</i>	<i>Shigella</i> spp.	V.parahae molyticus	V. cholerae	<i>Campylob</i> <i>acter</i> spp.	C.perfring ens	S. aureus	B. cereus	Total
201	8 33	139	4 (2.9)	11 (7.9)	0 (0)	0 (0)	0 (0)	2 (1.4)	2 (1.4)	7 (5.0)	6 (4.3)	32 (23.0)
	34	202	11 (5.4)	19 (9.4)	0 (0)	0 (0)	0 (0)	6 (3.0)	3 (1.5)	6 (3.0)	5 (2.5)	50 (24.8)
	35	185	12 (6.5)	16 (8.6)	0 (0)	0 (0)	0 (0)	3 (1.6)	4 (2.2)	6 (3.2)	8 (4.3)	49 (26.5)
	36	175	10 (5.7)	23 (13.1)	0 (0)	2 (1.1)	0 (0)	1 (0.6)	0 (0)	4 (2.3)	3 (1.7)	43 (24.6)
	Cum. 2018	6,614	200 (3.0)	311 (4.7)	3 (0.05)	8 (0.1)	0 (0)	72 (1.1)	77 (1.2)	124 (1.9)	125 (1.9)	922 (13.9)

* 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 September 8, 2018 (36th Week)

- Detection rate: 34.9% (22 cases / 63 specimens) [cumulative mean proportion in 2018: 34.1% (580 cases / 1,701 specimens)]
 - Aseptic meningitis: 11 cases (Cum. 2018: 157 cases)
 - HFMD and herpangina: 2 cases (Cum. 2018: 254 cases)
 - HFMD with complications: 1 case (Cum. 2018: 24 cases)
 - Other: 8 cases (Cum. 2018: 145 cases)
- Variation(%p): increase from 25.4% in 35th 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 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 8, 2018 (36th Week)

- No. of malaria vector mosquitoes: 16
- Variation: decrease from 30 in 35^{th} week of 2018
- Sentinel reporting sites: 3 city/province (20 sites)
 X 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 8, 2018 (36th Week)

• No. of Japanese encephalitis vector mosquitoes: 114

※ JEV: Japanese encephalitis vector

- Variation: increase from 102 in 35^{th} week of 2018
- Sentinel reporting sites: 10 city/provincial health and environmental institutes (10 sites)
 X 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 11, 2018 (37th Week)

- No. of chigger mites: 0
- Variation: no change from 0 in 37th week of 2017
- Sentinel reporting sites: 11 city/province (16 sites)
 X No. of chigger mites: average number of chigger/trap/day



Figure 12. Weekly incidences of scrub typhus vector chiggers 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 25 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				
Voor	2019			Current						
Tear	2010			week						
	2017	X1	X2	Х3	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 + ... + 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

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