

Alaska State Virology Laboratory (ASVL) Weekly Report – Week #3

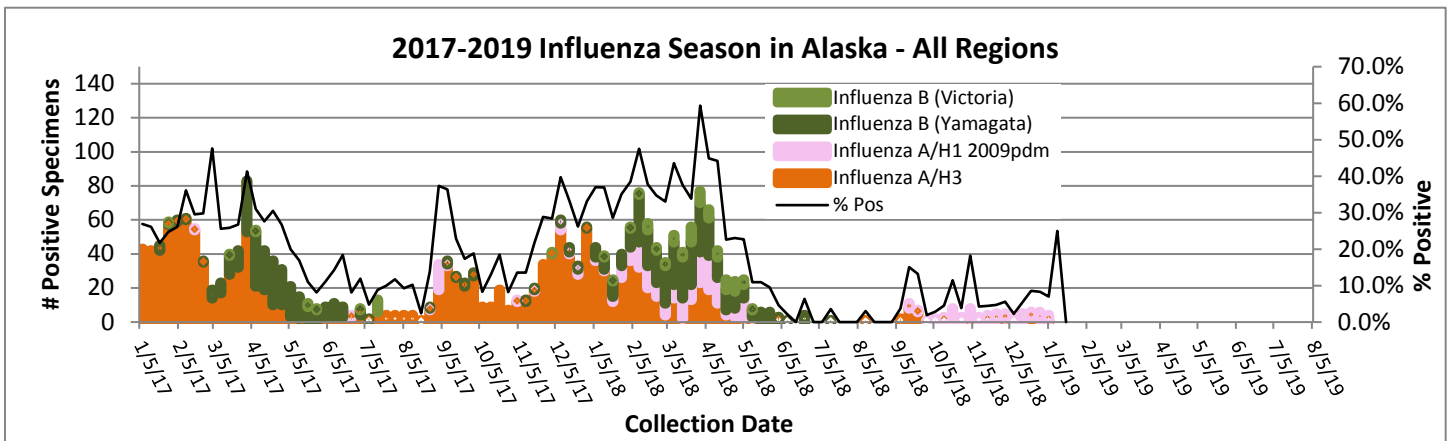
January 13 - 19, 2019

(This report was prepared by Jayme Parker, Public Health Microbiologist III at the Alaska State Virology Lab in Fairbanks, Alaska)

The Section of Epidemiology is the primary contact for consultation for the following potential active infections: rabies, norovirus, measles, mumps, rubella, varicella zoster, and novel influenza. Please direct your calls to the Epi-Team at 907-269-8000; or their 24 hour # 1-800-478-0084. **For information regarding mumps infections in Alaska, please visit: <http://dhss.alaska.gov/dph/Epi/id/Pages/Mumps.aspx>**

1. Influenza virus

PCR Testing for Week #2019-03 TP: true positive, FP: false positive, TN: true negative, FN: false negative. True = 2 tests concur, False = 2 tests do not concur		Corresponding Influenza Sentinel Providers Results								
Collection Date Range: 12/19/2018 – 1/10/2019		Rapid Influenza Test Results				PCR Test Results				No Data
ASVL PCR Results		TP	TN	FP	FN	TP	TN	FP	FN	
Influenza A/H1 2009 pdm Positive	13	1				10			1	1
Influenza A/H3 Positive	2					2				
Influenza A (subtype pending)	4					4				
Influenza B Positive (Yamagata lineage)										
Influenza B Positive (Victoria lineage)										
Influenza B (genotype pending)	1					1				
Influenza Negative	43						30			13
Total # Specimens Tested	63	1	0	0	0	17	30	0	1	14
Summary: Influenza vaccine strain match (specimens collected between 6/1/2018 – present)										
# AK Specimens Tested by CDC	Results	Most closely related subtype			Clade	Match 2018–19 flu vaccine?				
5 Influenza A/H3 viruses	5 (100%)	A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)			3c.2a	Yes				
4 Influenza A/H1N1 viruses	4 (100%)	A/MICHIGAN/45/2015-LIKE (H1N1)pdm09			6B.1	Yes				
2 Influenza B virus (Yamagata)	2 (100%)	B/PHUKET/3073/2013-LIKE			Y3	Yes				
0 Influenza B viruses (Victoria)										
Summary: Influenza antiviral resistance surveillance (specimens collected between 6/1/2018 – present)										
# AK Specimens Tested by CDC	Results	Description								
4 Influenza A/H3 virus	4 (100%)	Susceptible; wild-type neuraminidase gene sequence at amino acid positions 119, 292, and 294								
2 Influenza A/H1N1 virus	2 (100%)	Susceptible; wild-type neuraminidase gene sequence at amino acid positions 223 and 275								
0 Influenza B (Victoria)										
0 Influenza B (Yamagata)										



For recent specimens collected in week #3 (January 13 - 19, 2019): 0 of 0 respiratory specimens were positive for influenza (0.0% positive). Additional specimens from this collection date range are pending due to transit delays or further subtyping, thus percent positivity will adjust as specimen results become available.

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2. Hepatitis C virus (HCV)

For recommendations on types of Hepatitis C testing, test interpretation and post-test patient counseling:

- CDC MMWR: <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6104a1.htm>
- 5/27/15 AK Epidemiology Bulletin: http://www.epi.alaska.gov/bulletins/docs/b2015_11.pdf

HCV Antibody screening	Total Tested	Total Positive (%)
Week #2019-03	117	15 (12.8%)
Last 12 month period	5,703	776 (13.6%)
HCV RNA testing		
Week #2019-03	25	11 (44.0%)
Last 12 month period	972	631 (64.9%)

HCV Genotyping	Total Tested	Type 1a	Type 1b	Type 2a/c	Type 2b	Type 3	Type 4	Type 6	Unable to Genotype
Week #2019-03	11	8			1	2			
Last 12 month period*	631	375 (59.4%)	26 (4.1%)	4 (0.6%)	80 (12.7%)	115 (18.2%)	5 (0.8%)	0 (0.0%)	26 (4.1%)

*HCV genotyping data includes 1 coinfection (1 specimen with subtypes 1a & 3)

3. Human Immunodeficiency virus (HIV)

HIV Antibody screening (4th Generation)	Total Tested	Total Confirmed Positive
Week #2019-03	137	0 (0.00%)
Last 12 month period	7,985	16 (0.20%)

4. Norovirus Outbreaks

- No new outbreaks to report.

5. Rabies virus - Human Exposures

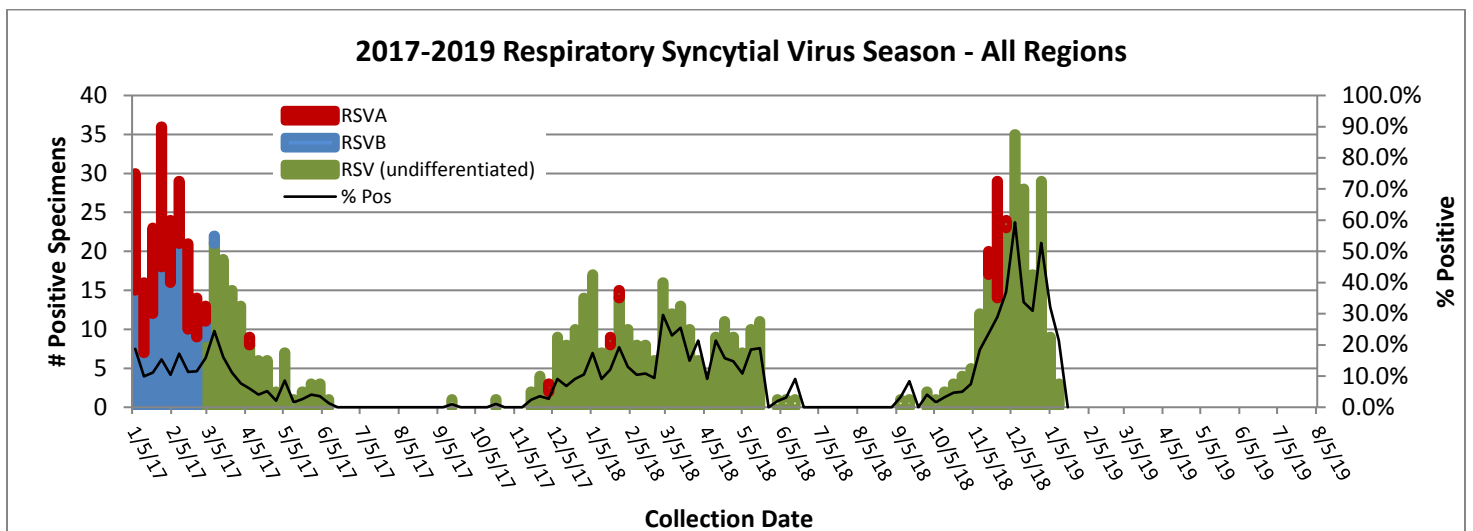
- No new cases to report.

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6. Respiratory Syncytial Virus (RSV)

*Surveillance of RSV using a PCR assay that does not differentiate groups A from B began 2/27/2017. Seasons are calculated from October 1 – September 30.

PCR testing	Total Tested	Total Positives (% pos)	Total Positive RSV A (% of pos)	Total Positive RSV B (% of pos)	Total Positive (RSV undifferentiated)* (% of pos)
Week #2019-03	40	8 (20.0%)	0 (0.0%)	0 (0.0%)	8 (100%)
Season 2018-2019 (current)	912	221 (24.2%)	19 (8.6%)	0 (0.00%)	202 (91.4%)
Season 2017-2018	2,952	256 (8.7%)	3 (1.2%)	0 (0.0%)	253 (98.8%)
Season 2016-2017	5,550	383 (6.9%)	108 (28.2%)	158 (41.3%)	117 (30.5%)
Season 2015-2016	4,987	388 (7.8%)	145 (37.4%)	243 (62.6%)	0 (0.0%)



For recent specimens collected in week #3 (January 13 - 19, 2019): 0 of 0 respiratory specimens were positive for RSV (0.0% positive). Additional specimens from this collection date range are pending due to transit delays, thus percent positivity will adjust as specimen results become available.

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7. Respiratory Pathogen Panel Summary – by Region

Numbers reflect the total positives detected within a particular time period. Current respiratory season is 10/1/2018 – 9/30/2019. NT = Not tested

	Influenza A/H3	Influenza A/H1pdm09	Influenza A (subtype pending)	Influenza B (Yamagata)	Influenza B (Victoria)	Influenza B (genotype pending)	RSV A	RSV B	RSV (undifferentiated)	Rhino/Enterovirus	Metapneumovirus	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4	Adenovirus	Coronavirus 229E	Coronavirus NL63	Coronavirus HKU1	Coronavirus OC43	Human Bocavirus	<i>Chlamydia pneumoniae</i>	<i>Mycoplasma pneumoniae</i>	Total Specimens Tested	
All Regions																									
Week #2019-03	2	13	4			1			8						1										63
Season 2018-19 (current)	13	58		0	0		19	0	202	6	0	0	0	0	3	0	2	0	0	0	0	0	0	2	1,091
Season 2017-18	647	179		322	60		2	0	245	23	5	1	0	1	1	1	2	3	0	0	3	1	0		4,442
Season 2016-17	946	22		262	15		109	158	125	197	77	9	32	136	31	140	79	3	0	175	1	1	0		5,864
Season 2015-16	94	622		226	0		146	254	0	706	183	97	2	70	43	272	25	86	82	115	NT	NT	NT		5,036
Anchorage/MatSu Region																									
Week #2019-03	1	8	3			1			2						1										27
Season 2018-19 (current)	8	9		0	0		0	0	34	4	0	0	0	0	1	2	0	0	0	0	0	0	0	2	358
Season 2017-18	246	82		82	34		1	0	62	9	1	1	0	0	0	2	0	2	0	0	1	0	0		1,702

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	Influenza A/H3	Influenza A/H1pdm09	Influenza A (subtype pending)	Influenza B (Yamagata)	Influenza B (Victoria)	Influenza B (genotype pending)	RSV A	RSV B	RSV (undifferentiated)	Rhino/Enterovirus	Metapneumovirus	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4	Adenovirus	Coronavirus 229E	Coronavirus NL63	Coronavirus HKU1	Coronavirus OC43	Human Bocavirus	<i>Chlamydia pneumoniae</i>	<i>Mycoplasma pneumoniae</i>	Total Specimens Tested	
Season 2016-17	317	1		49	2		53	24	35	70	52	0	11	37	14	21	32	1	0	64	1	1	0	2,178	
Season 2015-16	33	203		87	0		25	107	0	253	37	30	0	29	16	102	12	30	22	40	NT	NT	NT	1,903	
Gulf Coast Region																									
Week #2019-03		1	1						3															17	
Season 2018-19 (current)	0	1		0	0		0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Season 2017-18	49	28		79	4		0	0	48	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	810
Season 2016-17	109	2		43	1		12	16	18	9	1	7	5	19	7	2	14	0	0	19	0	0	0	0	853
Season 2015-16	7	54		10	0		4	11	0	47	15	9	0	3	2	9	2	9	1	9	NT	NT	NT	480	
Interior Region																									
Week #2019-03	1	2							3															15	
Season 2018-19 (current)	4	9		0	0		19	0	125	2	0	0	0	0	2	1	2	0	0	0	0	0	0	0	304
Season 2017-18	189	27		112	16		0	0	58	9	4	0	0	1	1	0	0	1	0	0	2	0	0	0	933
Season 2016-17	269	1		44	4		19	65	43	51	19	0	8	44	2	36	16	2	0	42	0	0	0	1,298	

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Season 2015-16	14	164		72	0		101	62	0	210	75	34	1	19	8	96	6	28	37	31	NT	NT	NT	1,396	
Northern Region																									
Week #2019-03																								0	
Season 2018-19 (current)	0	0		0	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Season 2017-18	19	0		3	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	35	
Season 2016-17	4	17		4	0		4	1	4	0	0	0	0	0	0	2	0	0	0	1	0	0	0	32	
Season 2015-16	1	35		1	0		0	11	0	2	3	1	0	0	1	3	1	0	0	1	NT	NT	NT	59	
Southeast Region																									
Week #2019-03		1																						3	
Season 2018-19 (current)	1	36		0	0		0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232
Season 2017-18	120	11		15	1		0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	648	
Season 2016-17	195	1		114	8		18	49	12	37	2	2	5	17	7	69	11	0	0	33	0	0	0	1,235	
Season 2015-16	37	130		39	0		10	38	0	117	42	18	1	11	7	28	4	8	17	29	NT	NT	NT	921	

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Southwest Region																								
Week #2019-03		1																						1
Season 2018-19 (current)	0	3		0	0		0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Season 2017-18	24	31		31	4		1	0	39	1	0	0	0	0	0	0	0	0	0	0	0	0	0	314
Season 2016-17	52	0		8	0		3	3	13	15	3	0	3	19	1	6	6	0	0	16	0	0	0	268
Season 2015-16	2	36		17	0		6	25	0	77	11	5	0	8	9	34	0	11	5	5	NT	NT	NT	277