

# Alaska State Virology Laboratory (ASVL) Weekly Report – Week #12

## March 17 - 23, 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.

### 1. Influenza virus

PCR Testing for Week #2019-12 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								
		Rapid Influenza Test Results				PCR Test Results				No Data
Collection Date Range: 2/4/2019 – 3/4/2019		TP	TN	FP	FN	TP	TN	FP	FN	
ASVL PCR Results										
Influenza A/H1 2009 pdm Positive	98	10			1	76			2	9
Influenza A/H3 Positive	69	25			2	38			2	2
Influenza A (subtype pending)	72	5				54			2	11
Influenza B Positive (Yamagata lineage)										
Influenza B Positive (Victoria lineage)										
Influenza B (genotype pending)										
Influenza Negative	63		23				31	2		7
<b>Total # Specimens Tested</b>	<b>302</b>	<b>40</b>	<b>23</b>	<b>0</b>	<b>3</b>	<b>168</b>	<b>31</b>	<b>2</b>	<b>6</b>	<b>29</b>

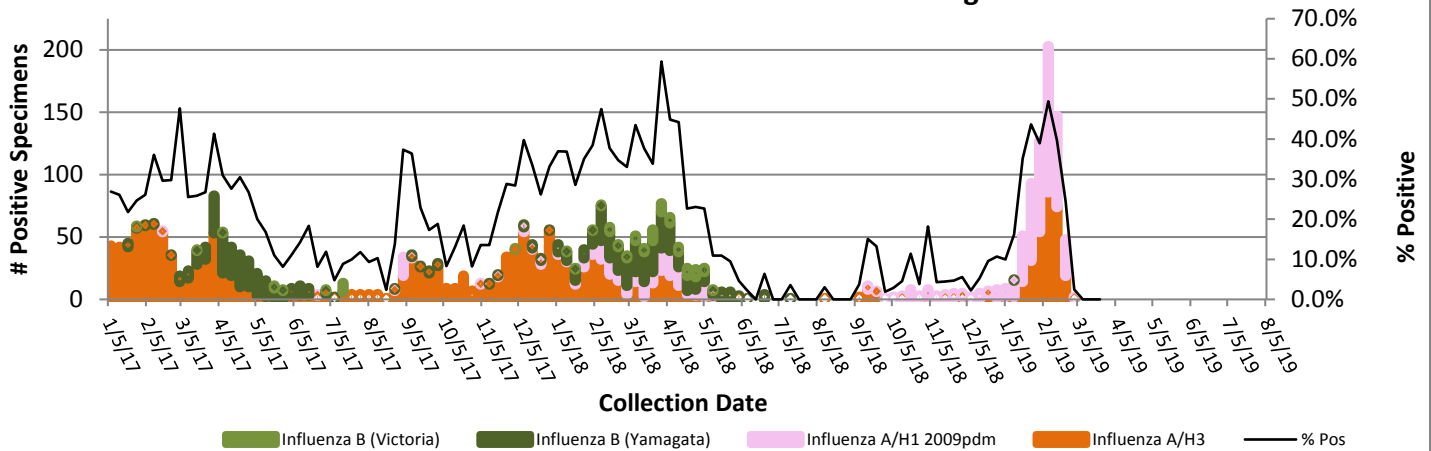
Summary: Influenza vaccine strain match (specimens collected between 6/1/2018 – present)

# AK Specimens Tested by CDC	Results	Most closely related subtype	Clade	Match 2018–19 flu vaccine?
15 Influenza A/H3 viruses	6 (40.0%)	A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)	3c.2a	Yes
	5 (33.3%)	A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)	3c.2a1	Yes
	4 (26.7%)	A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)	3c.3a	Yes
14 Influenza A/H1N1 viruses	14 (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
5 Influenza A/H3 virus	5 (100%)	Susceptible; wild-type neuraminidase gene sequence at amino acid positions 119, 292, and 294
4 Influenza A/H1N1 virus	4 (100%)	Susceptible; wild-type neuraminidase gene sequence at amino acid positions 223 and 275
0 Influenza B (Victoria)		
0 Influenza B (Yamagata)		

### 2017-2019 Influenza Season in Alaska - All Regions



For recent specimens collected in week #12 (March 17 - 23, 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](http://www.epi.alaska.gov/bulletins/docs/b2015_11.pdf)

HCV Antibody screening	Total Tested	Total Positive (%)
Week #2019-12	66	9 (13.6%)
Last 12 month period	5,686	763 (13.4%)
HCV RNA testing		
Week #2019-12	24	14 (58.3%)
Last 12 month period	941	618 (65.7%)

HCV Genotyping	Total Tested	Type 1a	Type 1b	Type 2a/c	Type 2b	Type 3	Type 4	Type 6	Unable to Genotype
Week #2019-12	14	9			3	2			
Last 12 month period*	618	386 (62.5%)	24 (3.9%)	3 (0.5%)	74 (12.0%)	114 (18.4%)	4 (0.6%)	0 (0.0%)	13 (2.1%)

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

**3. Human Immunodeficiency virus (HIV)**

HIV Antibody screening (4 <sup>th</sup> Generation)	Total Tested	Total Confirmed Positive
Week #2019-12	135	1 (0.74%)
Last 12 month period	7,996	12 (0.15%)

**4. Norovirus Outbreaks**

- No new outbreaks to report.

**5. Rabies virus - Human Exposures**

- A dog from the gulf coast region has tested **negative** for rabies.

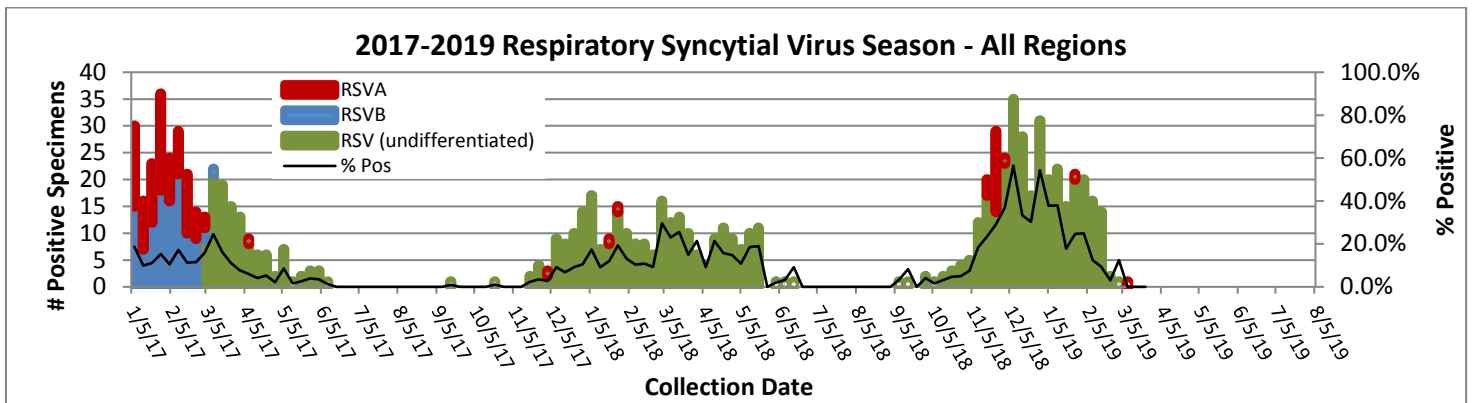
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### 6. Respiratory Syncytial Virus (RSV)

\*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 #2019-12	164	11 (19.2%)	1 (9.1%)	0 (0.0%)	10 (90.9%)
Season 2018-2019 (current)	1,584	343 (21.7%)	21 (6.1%)	0 (0.0%)	322(93.9%)
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 #12 (March 17 - 23, 2019): 0 of 0 respiratory specimens was 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	
<b>All Regions</b>																									
<b>Week #2019-12</b>	69	98	72				1		9	1															<b>302</b>
<b>Season 2018-19 (current)</b>	295	463		1	0		21	0	321	9	0	0	0	0	3	0	2	0	0	2	0	0	2		<b>2,948</b>
<b>Season 2017-18</b>	647	179		322	60		2	0	245	23	5	1	0	1	1	1	2	3	0	0	3	1	0		<b>4,442</b>
<b>Season 2016-17</b>	946	22		262	15		109	158	125	197	77	9	32	136	31	140	79	3	0	175	1	1	0		<b>5,864</b>
<b>Season 2015-16</b>	94	622		226	0		146	254	0	706	183	97	2	70	43	272	25	86	82	115	NT	NT	NT		<b>5,036</b>
<b>Anchorage/MatSu Region</b>																									
<b>Week #2019-12</b>	25	47	24				1		1	1															<b>110</b>
<b>Season 2018-19 (current)</b>	60	182		1	0		1	0	54	6	0	0	0	0	1	2	0	0	0	2	0	0	2		<b>950</b>
<b>Season 2017-18</b>	246	82		82	34		1	0	62	9	1	1	0	0	0	2	0	2	0	0	1	0	0		<b>1,702</b>

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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	
<b>Season 2016-17</b>	317	1		49	2		53	24	35	70	52	0	11	37	14	21	32	1	0	64	1	1	0	<b>2,178</b>	
<b>Season 2015-16</b>	33	203		87	0		25	107	0	253	37	30	0	29	16	102	12	30	22	40	NT	NT	NT	<b>1,903</b>	
<b>Gulf Coast Region</b>																									
<b>Week #2019-12</b>	1	10	25																					<b>46</b>	
<b>Season 2018-19 (current)</b>	2	50		0	0		0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>298</b>
<b>Season 2017-18</b>	49	28		79	4		0	0	48	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	<b>810</b>
<b>Season 2016-17</b>	109	2		43	1		12	16	18	9	1	7	5	19	7	2	14	0	0	19	0	0	0	0	<b>853</b>
<b>Season 2015-16</b>	7	54		10	0		4	11	0	47	15	9	0	3	2	9	2	9	1	9	NT	NT	NT	<b>480</b>	
<b>Interior Region</b>																									
<b>Week #2019-12</b>	18	13	11																					<b>49</b>	
<b>Season 2018-19 (current)</b>	192	95		0	0		19	0	139	2	0	0	0	0	2	1	2	0	0	0	0	0	0	0	<b>853</b>
<b>Season 2017-18</b>	189	27		112	16		0	0	58	9	4	0	0	1	1	0	0	1	0	0	2	0	0	0	<b>933</b>
<b>Season 2016-17</b>	269	1		44	4		19	65	43	51	19	0	8	44	2	36	16	2	0	42	0	0	0	<b>1,298</b>	

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<b>Season 2015-16</b>	14	164		72	0		101	62	0	210	75	34	1	19	8	96	6	28	37	31	NT	NT	NT	<b>1,396</b>	
<b>Northern Region</b>																									
<b>Week #2019-12</b>	21	6																							<b>27</b>
<b>Season 2018-19 (current)</b>	31	13		0	0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>118</b>
<b>Season 2017-18</b>	19	0		3	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		<b>35</b>
<b>Season 2016-17</b>	4	17		4	0		4	1	4	0	0	0	0	0	0	2	0	0	0	1	0	0	0		<b>32</b>
<b>Season 2015-16</b>	1	35		1	0		0	11	0	2	3	1	0	0	1	3	1	0	0	1	NT	NT	NT		<b>59</b>
<b>Southeast Region</b>																									
<b>Week #2019-12</b>	2	14	9						8																<b>47</b>
<b>Season 2018-19 (current)</b>	5	86		0	0		0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>504</b>
<b>Season 2017-18</b>	120	11		15	1		0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>648</b>
<b>Season 2016-17</b>	195	1		114	8		18	49	12	37	2	2	5	17	7	69	11	0	0	33	0	0	0		<b>1,235</b>
<b>Season 2015-16</b>	37	130		39	0		10	38	0	117	42	18	1	11	7	28	4	8	17	29	NT	NT	NT		<b>921</b>

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<b>Southwest Region</b>																									
<b>Week #2019-12</b>	2	8	3																					<b>23</b>	
<b>Season 2018-19 (current)</b>	5	37		0	0		1	0	44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>225</b>
<b>Season 2017-18</b>	24	31		31	4		1	0	39	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>314</b>
<b>Season 2016-17</b>	52	0		8	0		3	3	13	15	3	0	3	19	1	6	6	0	0	16	0	0	0	0	<b>268</b>
<b>Season 2015-16</b>	2	36		17	0		6	25	0	77	11	5	0	8	9	34	0	11	5	5	NT	NT	NT	<b>277</b>	