

# Alaska State Virology Laboratory (ASVL) Weekly Report – Week #21

## May 17 - 23, 2020

*(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, novel influenza, or [novel coronavirus](#). Please direct your calls to the Epi-Team at 907-269-8000; or their 24 hour # 1-800-478-0084.

### 1. SARS-CoV-2 (COVID-19)

Total tested*	Total Specimens Tested	Total Positive Specimens (% positive)
Week 2020-21	3,305	13 (0.4%)
To date	14,528	215 (1.5%)

\*Total tested includes specimens processed at both the Anchorage Public Health Laboratory and the Alaska State Virology Laboratory.

### 2. Influenza virus

PCR Testing for Week #2020-21	Corresponding Influenza Sentinel Providers Results									
TP: true positive, FP: false positive, TN: true negative, FN: false negative. True = 2 tests concur, False = 2 tests do not concur	Rapid Influenza Test Results					PCR Test Results				No Data
Collection Date Range: None tested	TP	TN	FP	FN	TP	TN	FP	FN		
<b>ASVL PCR Results</b>										
Influenza A/H1 2009 pdm Positive										
Influenza A/H3 Positive										
Influenza A (subtype pending)										
Influenza B Positive (Yamagata lineage)										
Influenza B Positive (Victoria lineage)										
Influenza B (genotype pending)										
Influenza Negative										
<b>Total # Specimens Tested</b>	<b>0</b>									

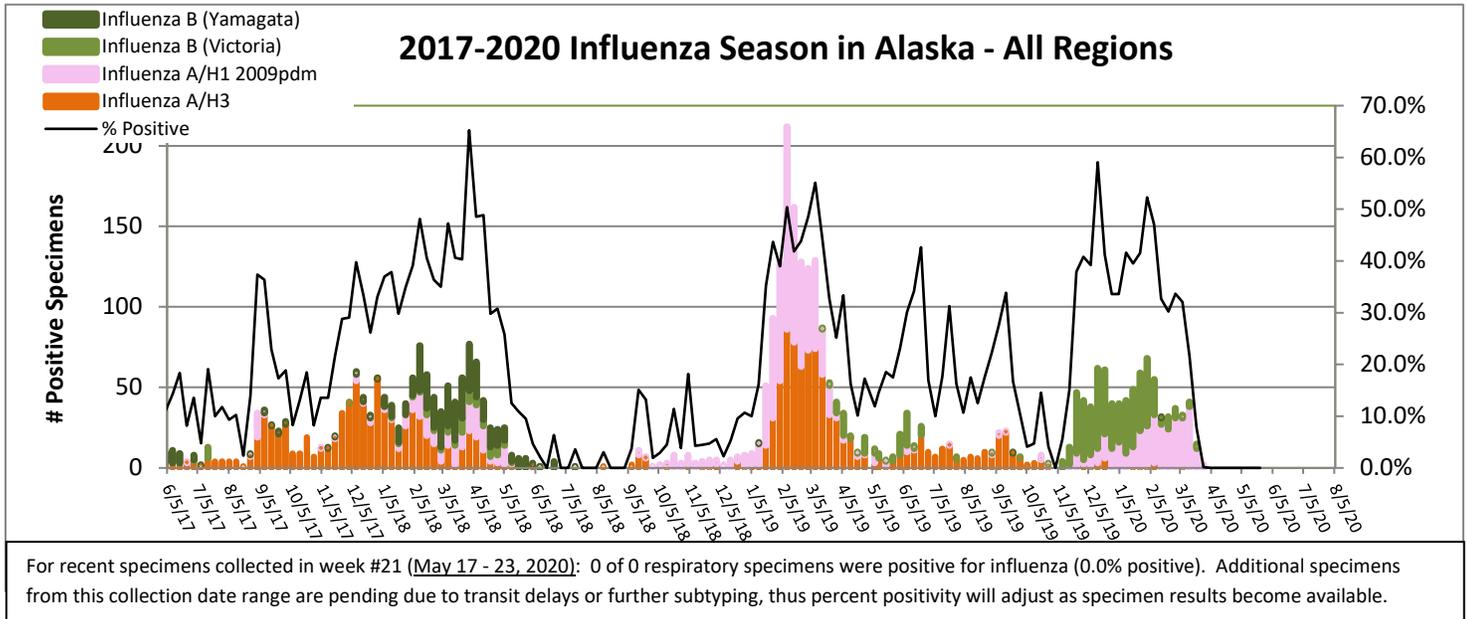
**Summary: Alaska influenza virus characterizations by Centers for Disease Control and Prevention (Specimens collected between 6/1/2019 – present)**

2019-2020 Northern Hemisphere Vaccine Strain (by virus)	Antigenic Characterization		Genetic Characterization		Antiviral resistance	
	# tested	Strain	# tested	Clades	# tested	Resistant/Susceptible
<b>Influenza A/H3N2 viruses</b>						
A/KANSAS/14/2017 (H3N2)-LIKE	10	A/SINGAPORE/INFIMH-16-0019/2016-LIKE	23	3c.2a1	7	Susceptible
	4	A/KANSAS/14/2017-LIKE (H3N2)				
<b>Influenza A/H1N1 viruses</b>						
A/BRISBANE/02/2018 (H1N1)pdm09-LIKE	2	A/MICHIGAN/45/2015-LIKE (H1N1)pdm09	10	6B.1A	3	Susceptible
	3	A/BRISBANE/02/2018-LIKE (H1N1)pdm09				
<b>Influenza B (Victoria lineage) viruses</b>						
B/COLORADO/06/2017-LIKE	1	B/COLORADO/06/2017-LIKE	14	V1A.3	5	Susceptible
	2	B/COLORADO/06/2017-LIKE LOW*				
<b>Influenza B (Yamagata lineage) viruses</b>						
B/PHUKET/3073/2013-LIKE	2	B/PHUKET/3073/2013-LIKE	2	Y3	1	Susceptible

\*LOW: Viruses that are not as well inhibited by the vaccine antibody are designated as "LOW" when performing antigenic characterizations. For more information, visit the weekly U.S. influenza surveillance report at <https://www.cdc.gov/flu/weekly/index.htm>.

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### 3. 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 #2020-21	59	18 (30.5%)
Last 12 month period	5,862	1,066 (18.2%)
HCV RNA testing		
Week #2020-21	27	11 (40.7%)
Last 12 month period	967	718 (74.3%)

HCV Genotyping	Total Tested	Type 1a	Type 1b	Type 2a/c	Type 2b	Type 3	Type 4	Type 6	Unable to Genotype
Week #2020-21	11	6			1	4			
Last 12 month period*	718	439 (61.1%)	17 (2.4%)	3 (0.4%)	85 (11.8%)	155 (21.6%)	5 (0.7%)	1 (0.1%)	13 (1.8%)

\*HCV genotyping data includes 9 coinfections (3 specimens with subtypes 1a & 3, 2 specimens with subtypes 1a & 1b, 3 specimen with subtypes 1a and 2b, and 1 specimen with types 1 & 4)

### 4. Human Immunodeficiency virus (HIV)

HIV antigen/antibody combination screening	Total Tested	Total Confirmed Positive
Week #2020-21	78	0 (0.00%)
Last 12 month period	8,385	10 (0.12%)

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### 5. Norovirus Outbreaks

- No new outbreaks to report.

### 6. Rabies virus - Human Exposures

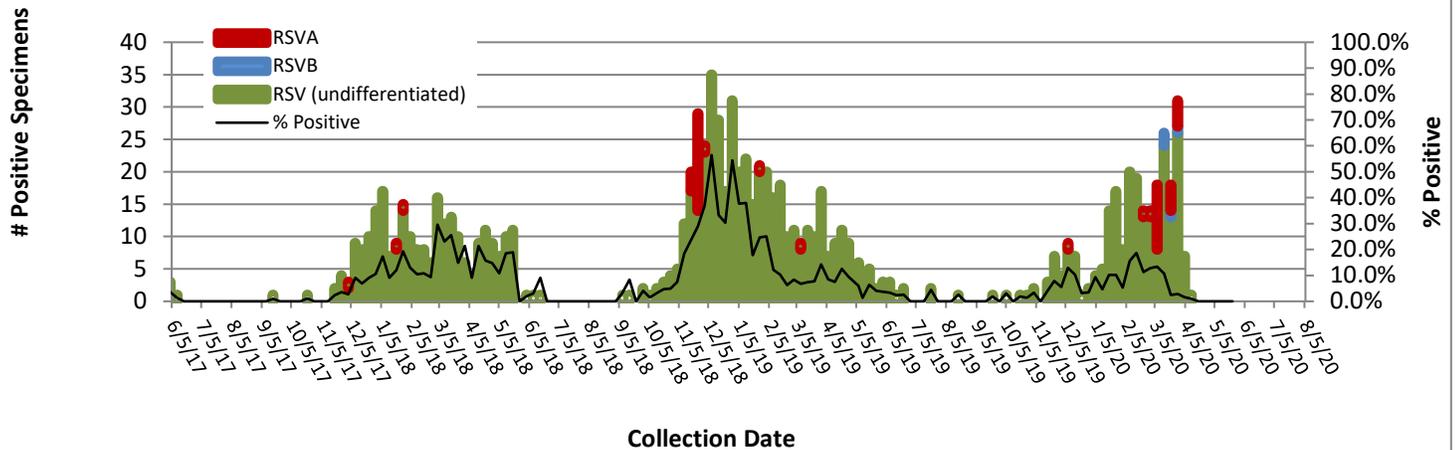
- No new cases to report.

### 7. 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 #2020-21	1,056	27 (2.6%)	3 (11.1%)	1 (3.7%)	23 (85.2%)
Season 2019-2020 (current)	4,594	254 (5.5%)	21 (8.3%)	4 (1.6%)	229 (90.2%)
Season 2018-2019	3,973	474 (11.9%)	21 (4.4%)	0 (0.0%)	453 (95.6%)
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%)

**2017-2020 Respiratory Syncytial Virus Season - All Regions**



For recent specimens collected in week #21 (May 17 - 23, 2020): 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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**8. Respiratory Pathogen Panel Summary – by Region**

Numbers reflect the total positives detected within a particular time period. Surveillance for respiratory pathogens was reduced in 2017, hence lower numbers for pathogens other than influenza and RSV after that time. Total tested is the new specimens tested for the week; *other data may appear as testing backlogs from previous submissions are completed*. Current respiratory season is 10/1/2019 – 9/30/2020. 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 SARS-CoV-2	Coronavirus 229E	Coronavirus NL63	Coronavirus HKU1	Coronavirus OC43	Human Bocavirus	<i>Chlamydophila pneumoniae</i>	<i>Mycoplasma pneumoniae</i>	Total Specimens Tested
<b>All Regions</b>																									
<b>Week #2020-21</b>							3	1	23	5	6						13		5					1	<b>3,305</b>
<b>Season 2019-20 (current)</b>	30	339		1	458		21	4	229	20	44	0	0	5	3	0	215	0	9	7	0	4	0	3	<b>16,211</b>
<b>Season 2018-19</b>	865	698		2	92		21	0	453	15	0	0	1	1	3	0	0	2	0	0	2	2	0	2	<b>5,768</b>
<b>Season 2017-18</b>	647	179		322	60		2	0	245	23	5	1	0	1	1	1	0	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	0	79	3	0	175	1	1	0	<b>5,864</b>
<b>Anchorage/MatSu Region</b>																									
<b>Week #2020-21</b>							1	1	5	1	3						9		5					1	<b>1,405</b>
<b>Season 2019-20 (current)</b>	17	181		1	167		9	2	83	12	31	0	0	0	1	0	102	0	5	5	0	2	0	1	<b>9,365</b>

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<b>Season 2018-19</b>	310	249		1	11		1	0	82	12	0	0	1	1	1	2	0	0	0	0	2	2	0	2	<b>2,102</b>
<b>Season 2017-18</b>	246	82		82	34		1	0	62	9	1	1	0	0	0	2	0	0	2	0	0	1	0	0	<b>1,702</b>
<b>Season 2016-17</b>	317	1		49	2		53	24	35	70	52	0	11	37	14	21	0	32	1	0	64	1	1	0	<b>2,178</b>
<b>Gulf Coast Region</b>																									
<b>Week #2020-21</b>							1		1		1						2								<b>509</b>
<b>Season 2019-20 (current)</b>	2	46		0	49		2	0	45	3	6	0	0	0	0	0	17	0	1	0	0	0	0	0	<b>2,763</b>
<b>Season 2018-19</b>	66	109		0	6		0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>740</b>
<b>Season 2017-18</b>	49	28		79	4		0	0	48	3	0	0	0	0	0	0	0	2	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	0	14	0	0	19	0	0	0	<b>853</b>
<b>Interior Region</b>																									
<b>Week #2020-21</b>									8	3	2														<b>218</b>
<b>Season 2019-20 (current)</b>	4	55		0	66		3	2	39	3	4	0	0	3	2	0	71	0	2	1	0	1	0	0	<b>3,942</b>
<b>Season 2018-19</b>	286	123		0	33		19	0	144	2	0	0	0	0	2	1	0	2	0	0	0	0	0	0	<b>1,326</b>

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<b>Season 2017-18</b>	189	27		112	16		0	0	58	9	4	0	0	1	1	0	0	0	1	0	0	2	0	0	<b>933</b>	
<b>Season 2016-17</b>	269	1		44	4		19	65	43	51	19	0	8	44	2	36	0	16	2	0	42	0	0	0	<b>1,298</b>	
<b>Northern Region</b>																										
<b>Week #2020-21</b>																	2								<b>22</b>	
<b>Season 2019-20 (current)</b>	0	4		0	63		0	0	3	0	2	0	0	0	0	0	2	0	0	0	0	0	0	1	<b>375</b>	
<b>Season 2018-19</b>	49	20		0	0		0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>165</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	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	0	1	0	0	0	<b>32</b>	
<b>Southeast Region</b>																										
<b>Week #2020-21</b>							1		3	1															<b>324</b>	
<b>Season 2019-20 (current)</b>	6	20		0	77		7	0	39	2	1	0	0	2	0	0	21	0	1	1	0	1	0	1	<b>1,441</b>	
<b>Season 2018-19</b>	130	134		1	0		0	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>950</b>	

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<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	0	11	0	0	33	0	0	0	<b>1,235</b>	
<b>Southwest Region</b>																										
<b>Week #2020-21</b>									6																<b>827</b>	
<b>Season 2019-20 (current)</b>	1	33		0	36		0	0	20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	<b>2,135</b>	
<b>Season 2018-19</b>	24	63		0	42		1	0	86	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>485</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	0	6	0	0	16	0	0	0	<b>268</b>	