

Alaska State Virology Laboratory (ASVL) Weekly Report – Week #51

December 11 – December 17, 2016

(This report was prepared by Jayme Parker, Lab Manager at the Alaska State Virology Lab in Fairbanks, Alaska)

The Section of Epidemiology is the primary contact for Rabies & Norovirus consultation. Please direct your calls to the Epi-Team at 907-269-8000; or their 24 hour # 1-800-478-0084.

Norovirus | No outbreaks to report.

Rabies | No new cases to report.

Hepatitis C Virus | HCV antibody was detected in 17 of 115 specimens tested.

Human Immunodeficiency Virus (HIV-1) | HIV-1 was confirmed in 0 of 134 specimens tested.

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

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

Respiratory Viruses | *Between December 11 – December 17, 2016:*

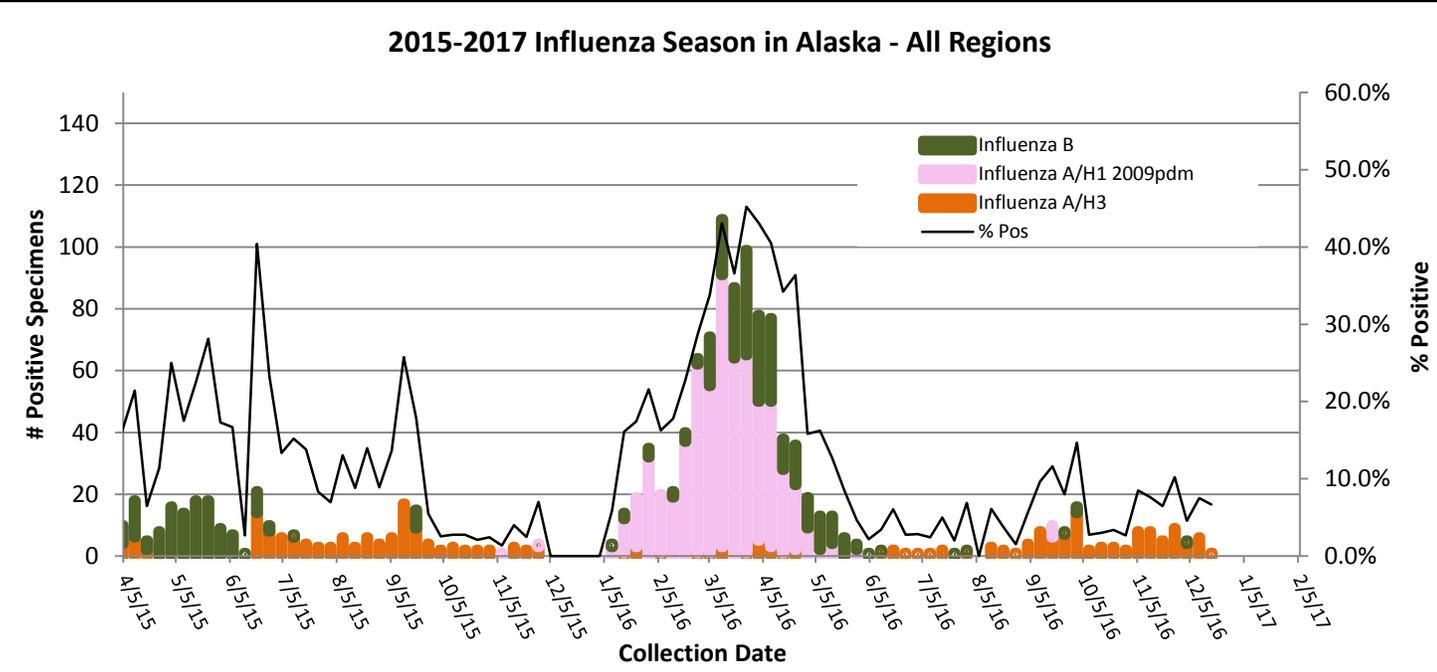
- Number of respiratory specimens tested for influenza virus: **116**
- Number of respiratory specimens tested for non-influenza viruses: **142**

Collection Date Range: Nov 22 – Dec 14, 2016 (Specimens older than 30 days are unsatisfactory for testing)

ASVL Influenza Results (PCR) for report dates between Dec. 11 – Dec. 17, 2016:		Corresponding Influenza Sentinel Providers Results: [RIDT = Rapid Influenza Diagnostic Test] and PCR
Influenza A/H1 2009 pdm Positive	0	[Corresponding RIDT:]
Influenza A/H3 Positive	10	[Corresponding RIDT: 5 Flu A+, 1 Flu A/B -, 2 No Data] and 2 PCR+
Influenza B Positive	0	[Corresponding RIDT: 1 No Data]
Influenza Negative	106	[Corresponding RIDT: 4 Flu A/B +, 55 Flu A/B -, 30 No Data;] and 17 PCR -
Total # Specimens Tested	116	

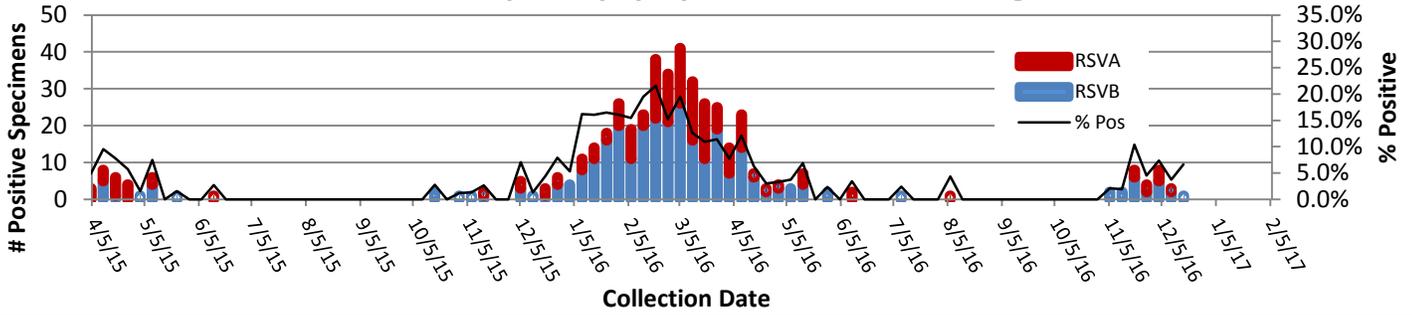
Summary: Influenza vaccine strain match (specimens collected between 6/1/2016 – present)

# Specimens Tested	Results	Most closely related subtype	Match with 2016–2017 flu vaccine?
4 Influenza A/H3 viruses	4 (100%)	A/HONG KONG/4801/2014-LIKE (H3N2)	Yes
0 Influenza A/H1N1 viruses	0		N/A
1 Influenza B virus	1 (100%)	B/PHUKET/3073/2013-LIKE (Yamagata Lineage)	Yes; quadrivalent vaccines only
	0		N/A

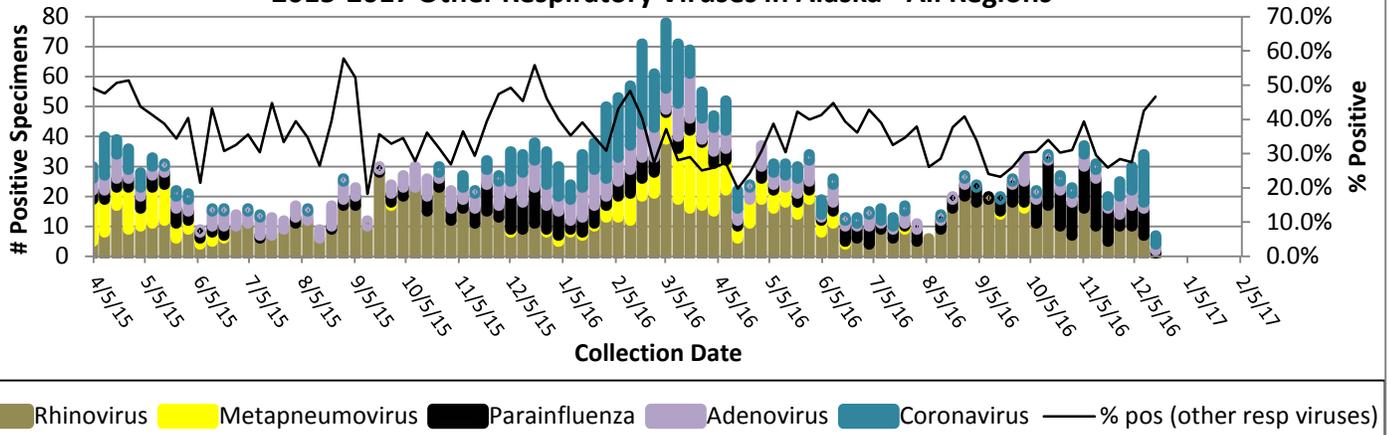


For recent specimens collected in week #51 (December 11- 17, 2016): 1 of 15 respiratory specimens was positive for influenza (6.7% positive). Additional specimens from this collection date range are pending due to transit delays, thus percent positivity will adjust as specimen results become available.

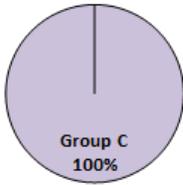
2015-2016 Respiratory Syncytial Virus Season - All Regions



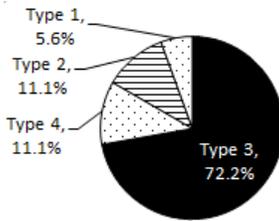
2015-2017 Other Respiratory Viruses in Alaska - All Regions



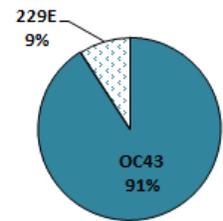
Further Characterized Viruses (Total tested = 142 respiratory specimens)



Total = 5 positives (3.5% of total tested)

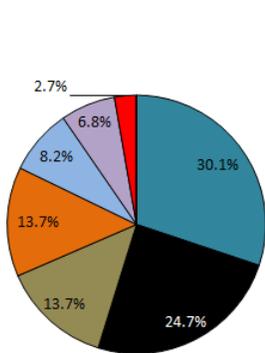


Total = 18 positives (12.7% of total tested)

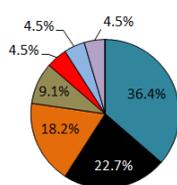


Total = 22 positives (15.5% of total tested)

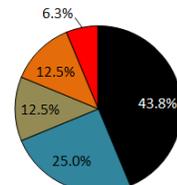
All Respiratory Viruses Detected by Region (Report Dates between December 11 - 17, 2016)



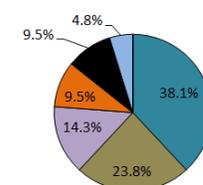
Total = 142, 73 (51.4%) positive



Northern
Total = 0



Southeast
Total = 25, 9 (36%) positive



Southwest
Total = 9, 5 (55.6%) positive

- Influenza A/H1N1
- Influenza A/H3
- Influenza B
- RSV A
- RSV B
- Rhinovirus
- Metapneumovirus
- Parainfluenza
- Adenovirus
- Coronavirus

Respiratory Virus Coinfections (5 patients, 3.5% of specimens tested last week)

Region		Interior				Gulf Coast
Age Range	Anch/MatSu	≤ 5yo	≤ 5yo	≤ 5yo	≤ 5yo	≤ 5yo
Virus						
RSV A	x					
RSV B					x	
Adenovirus C	x			x		
Coronavirus OC43	x	x			x	x
Human rhinovirus		x		x	x	
Parainfluenza 3						x