

INFLUENZA WATCH

Week 13 Ending 3/31/2018

The purpose of the weekly *Influenza Watch* is to summarize current influenza surveillance in San Diego County. *Please note that reported weekly data are preliminary and may change due to delayed submissions and additional laboratory results.*

Report Contents

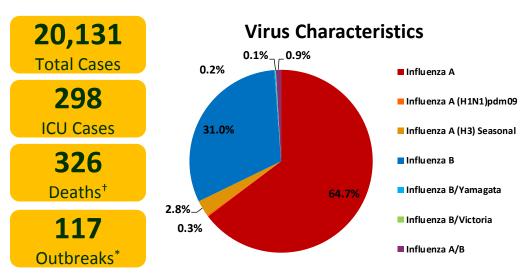
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Current Week

Current Week 13 (ending 3/31/2018)

- 247 new influenza detections reported: Elevated level
- 3% influenza-like-illness (ILI) among emergency department visits: Expected level
- 7 new influenza-related deaths reported this week
- 5 new ICU cases reported this week
- 8% of deaths registered with pneumonia and/or influenza: Expected level

Current Season Summary



[†] Including 42 deaths less than 65 years of age, reportable to CDPH.

Table 1. Influenza Surveillance Indicators

						Prior 3	3-Year
	FY 2017-18*			FY 2016-17		Average**	
	Week	Week		Week		Week	
Indicator	13	12	FYTD [#]	13	FYTD#	13	FYTD#
All influenza detections reported (rapid or PCR)	247	400	20,131	118	5,203	111	5,872
Percent of emergency department visits for ILI	3%	3%		2%		3%	
Percent of deaths registered with pneumonia and/or influenza	8%	7%		6%		7%	
Number of influenza-related deaths reported^	7	11	326	1	80	2	73

FYTD=Fiscal Year To Date (FY is July 1- June 30, Weeks 27-26). Total deaths reported in prior years: 87 in 2016-17, 68 in 2015-16, and 97 in 2014-15.

[^] Current FY deaths are shown by week of report; by week of death for prior FYs.





^{*} At least one case of laboratory-confirmed influenza in a setting experiencing ≥2 cases of influenza like illness (ILI) within a 72-hour period.

^{*} Previous weeks case counts or percentages may change due to delayed processing or reporting.

^{**} Includes FYs 2014-15, 2015-16, and 2016-17.

County of San Diego

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Influenza Vaccination May Protect Pregnant Women from Pertussis

A post hoc study in South African pregnant women who took part in a vaccine study in 2011 and 2012 found that influenza vaccination may have had a protective effect against *Bordetella pertussis*. Researchers described their findings last week in a letter published in the *New England Journal of Medicine*.

The initial trial included 1,062 pregnant women who received trivalent inactivated influenza vaccine and 1,054 pregnant women who were in a placebo group. Researchers followed the women weekly for any respiratory illnesses from study enrollment, through pregnancy and 24 weeks postpartum. The vaccine was 50.4% effective in preventing lab-confirmed influenza.

Given that there is evidence to suggest influenza can enhance susceptibility to common bacterial infections such as pneumococcus and staphylococcus, the researchers wanted to explore if there was a relationship between influenza virus and pertussis. They used archived samples from the earlier study to assess levels of pertussis. Specimens from 11 flu vaccine recipients tested positive for pertussis, compared with 26 from placebo recipients (risk ratio, 0.4; 95% confidence interval, 0.2 to 0.8).

Acknowledging the limits of a post hoc study, the researchers indicated that it is not likely that influenza vaccination would alter the ability to diagnose pertussis and that their observations warrant further investigation. The study may be found here: Influenza Vaccination during Pregnancy and Protection against Pertussis.

As noted in a recent <u>local health alert</u>, pertussis has been increasing in San Diego in recent months. It is critical that **every woman receive the pertussis (Tdap) vaccine in every pregnancy at the earliest opportunity in the third trimester** to protect their young infants after birth. All pregnant women should also get the annual influenza vaccination.

Table 2. Influenza Detections Reported, FY 2017-18*

		_		
		Total		
Positive Test Type/Subtype	Week 13	FY-To-Date		
Influenza A†	43	13,025		
Influenza A(H1N1) Pandemic 2009	1	57		
Influenza A (H3) Seasonal	1	562		
Influenza B†	198	6,246		
Influenza B/Victoria	0	19		
Influenza B/Yamagata	0	40		
Influenza A/B†	4	182		
Total	247	20,131		

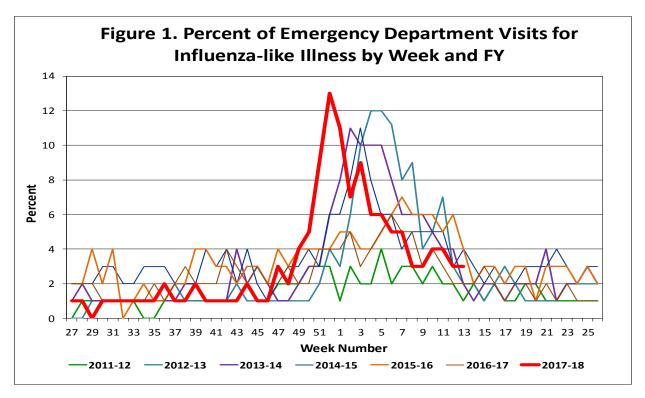
^{*} FY is July 1- June 30.

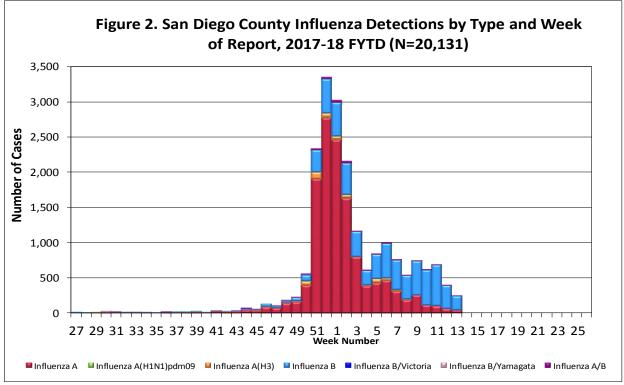
Note: Totals may change due to further laboratory findings.





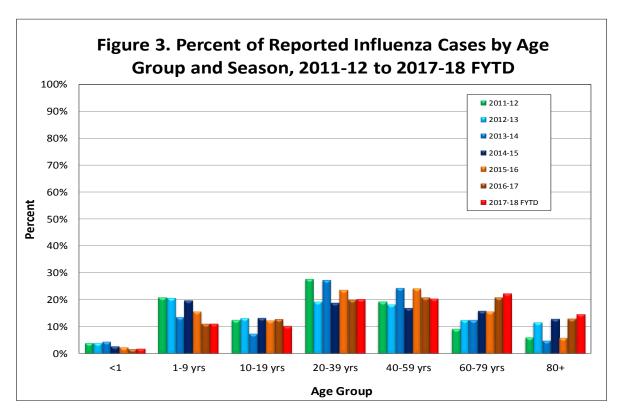
[†] No further characterization performed, or results were not yet available at time of publication.

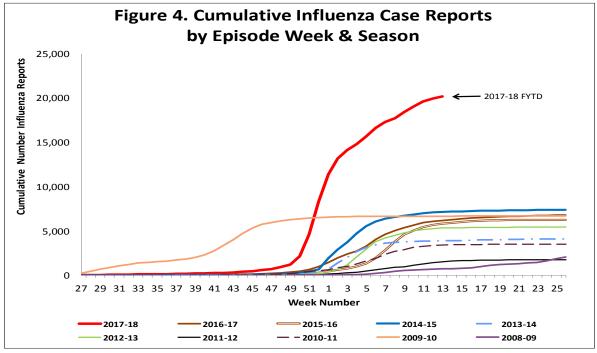






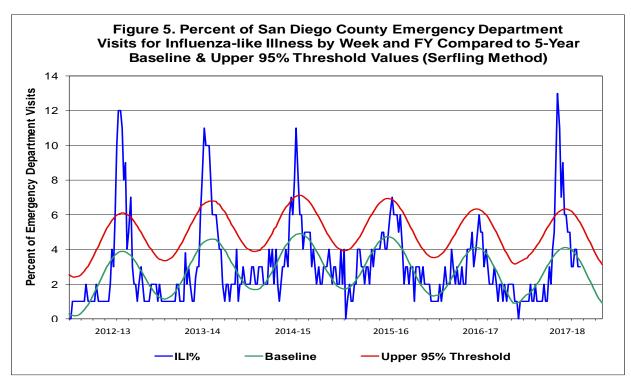


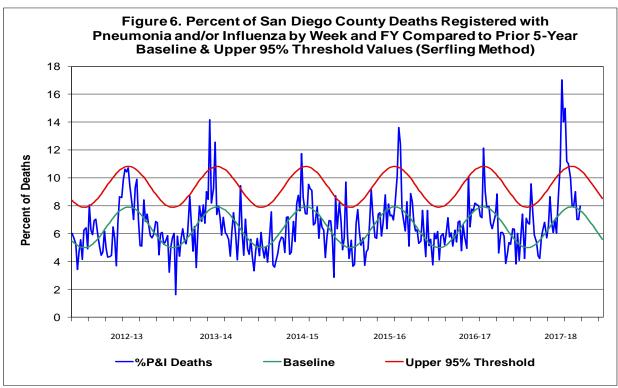






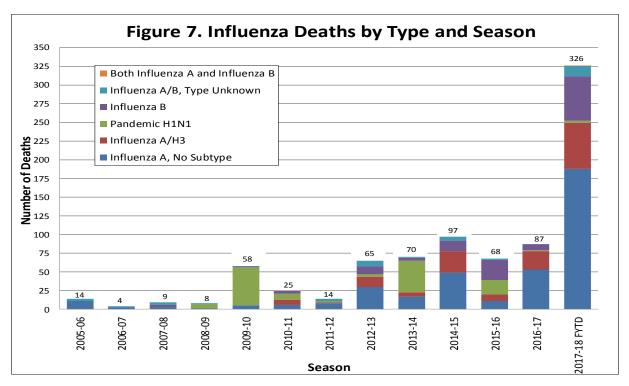


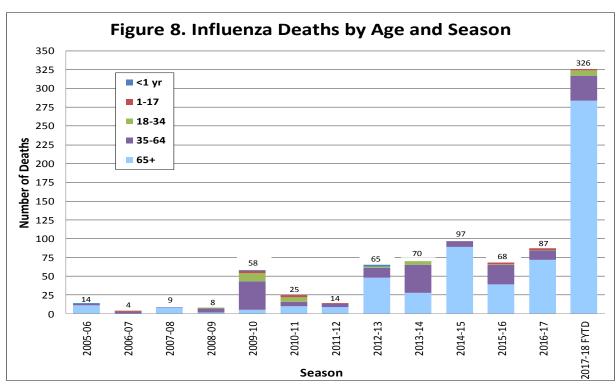








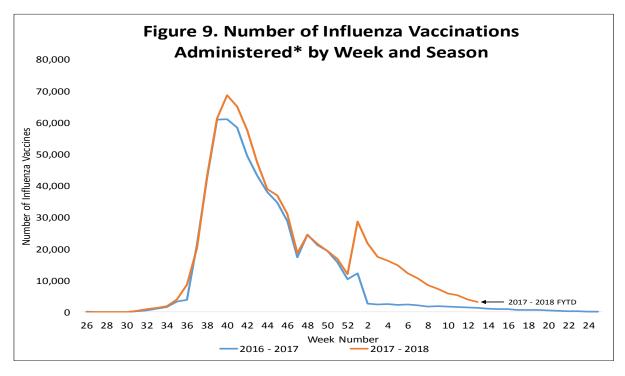


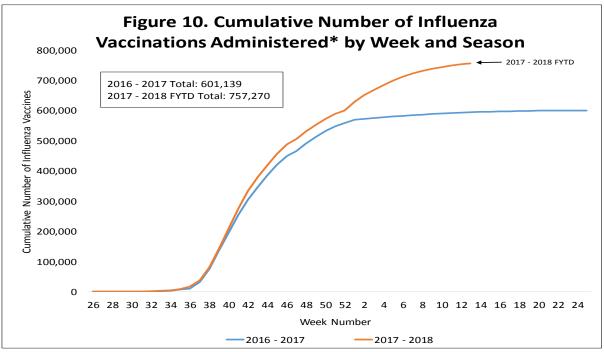






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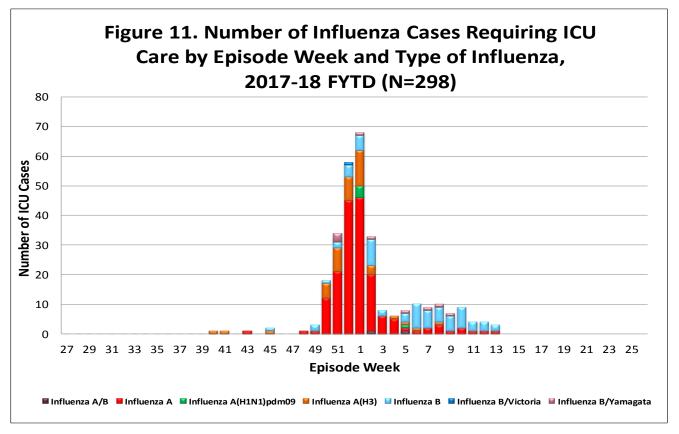
* Influenza vaccinations administered and entered into the San Diego Immunization Registry (SDIR)





County of San Diego Influenza Watch

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Episode week is the week of symptom onset, or earliest available date in which the case is identified.

Influenza Reporting in San Diego County

Local providers are encouraged to report laboratory positive influenza detections to the County Epidemiology Program by **FAX (858) 715-6458**. Please fax a <u>Case Report</u> Form and/or a printed laboratory result, and indicate if the patient was admitted to ICU or died, and/or is a resident of a congregate living facility.

For questions regarding sending specimens to Public Health Laboratory (PHL), call (619) 692-8500. Click here for the updated PHL PCR Test Request Form. Contact the Epidemiology Program with any questions at (619) 692-8499 or by email to: EpiDiv.HHSA@sdcounty.ca.gov.

Resources

San Diego County Influenza Surveillance Weekly <u>Slide Deck</u> - presentation version of this report County of San Diego Immunization Program <u>www.sdiz.org</u> California Department of Public Health <u>Influenza</u>

Centers for Disease Control and Prevention Influenza Surveillance Weekly Report



