

January 22, 2020 Volume 19, Issue 16

Week 3 Ending 1/18/2020

# Overview

#### Current Week 3 (ending 1/18/2020)

- 2,292 new influenza detections reported
- 12 new influenza-related deaths reported this week
- 8% influenza-like illness (ILI) among emergency department visits

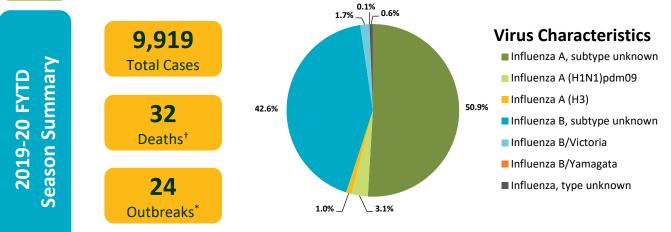
Overall influenza activity continues to rise in San Diego County.

Reported influenza A cases are increasing, while reported influenza B cases have apparently peaked and are now decreasing. It is not too late to get vaccinated, which is the best way to prevent influenza and its potentially serious complications. <u>Antiviral medications</u> are also important to control influenza. Over 99% of the influenza viruses tested this season are susceptible to antiviral medications.

• 7% of death certificates registered with pneumonia and/or influenza

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<sup>+</sup> Flu deaths less than 18 years of age are reportable to CDPH.

\* In a congregate living setting, outbreaks are defined as at least one laboratory-confirmed influenza case in the setting of a cluster (≥2 cases) of influenza-like illness (ILI) within a 72-hour period.

#### Table 1. Influenza Surveillance Indicators.

	2019-20 Season		2018-19 Season			Prior 3-Year Average*			
Indicator	Week 3	Week 2	Total to Date	Week 3	Total To Date	Season Total	Week 3	Total To Date	Season Total
All influenza detections reported (rapid or PCR)		2,149	9,919	487	3,130	9,655	658	6,303	12,110
Percent of emergency department visits for ILI		8%		4%			5%		
Percent of deaths registered with pneumonia and/or influenza		6%		7%			10%		
Number of influenza-related outbreaks $^{\infty}$		3	24	1	3	25	1	39	59
Number of influenza-related deaths reported^		9	32	8	24	77	16	73	169

Influenza season is July 1 – June 30, Weeks 27-26. Previous weeks case counts or percentages may change due to delayed processing or reporting. \*Includes FYs 2016-17, 2017-18, and 2018-19.

∞At least one case of laboratory-confirmed influenza in a setting experiencing two or more cases of influenza like illness (ILI) within a 72-hour period.

Total confirmed influenza outbreaks in prior seasons: 25 in 2018-19, 119 in 2017-18, and 34 in 2016-17.

^Current FY deaths are shown by week of report; by week of death for prior FYs. Total deaths reported in prior seasons: 77 in 2018-19, 343 in 2017-18, and 87 in 2016-17.



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### People at High Risk for Influenza Complications

Although **everyone six months and older should get an annual influenza vaccine**, some people are more likely to get <u>influenza complications</u> that can result in hospitalization and sometimes death. Influenza can also make chronic health problems worse. The groups of people who are more likely to get serious flu-related complications if they get sick with influenza are listed below.

- Children younger than 5, but especially children younger than 2 years old
- Adults 65 years of age and older
- Pregnant women (and women up to two weeks postpartum)
- Residents of nursing homes and other long-term care facilities
- American Indians and Alaskan Natives seem to be at higher risk of flu complications
- Asthma
- <u>Children</u> and adults with neurological and neurodevelopmental conditions [including disorders of the brain, spinal cord, peripheral nerve, and muscle such as cerebral palsy, epilepsy (seizure disorders), stroke, intellectual disability (mental retardation), moderate to severe developmental delay, muscular dystrophy, or spinal cord injury].
- Chronic lung disease (such as chronic obstructive pulmonary disease [COPD] and cystic fibrosis)
- <u>Heart disease</u> (such as congenital heart disease, congestive heart failure and coronary artery disease)
- Blood disorders (such as sickle cell disease)
- Endocrine disorders (such as diabetes)
- Kidney disorders
- Liver disorders
- Metabolic disorders (such as inherited metabolic disorders and mitochondrial disorders)
- Weakened immune system due to disease or medication (such as people with <u>HIV or AIDS</u>, or <u>cancer</u>, or those on chronic steroids)
- People younger than 19 years of age who are receiving long-term aspirin therapy
- People with extreme obesity (body mass index [BMI] of 40 or more)

Each year, the majority of influenza deaths occur among people who had no evidence of having received an annual influenza vaccine. Providers should make extra efforts to ensure that everyone at risk for influenza complications gets vaccinated with the annual influenza vaccine. More information is available at the <u>CDC</u> <u>Influenza website</u>.

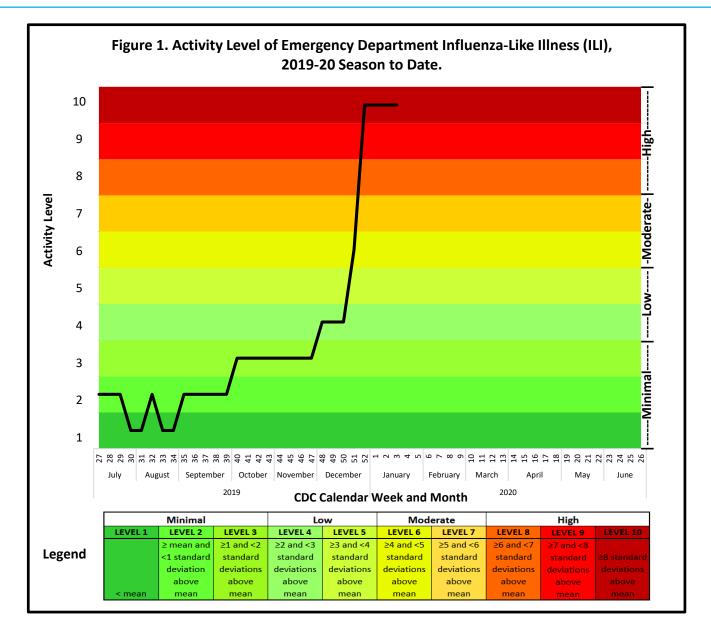
### Table 2. Influenza Cases Reported, 2019-2020 Season\*

			Total to	Percent
Positive Test Type/Subtype	Week 3	Week 2	Date	to Date
Influenza A, subtype unknown	1,477	1,233	5,052	50.9%
Influenza A (H1N1)pdm09	50	48	306	3.1%
Influenza A (H3)	1	2	100	1.0%
Influenza B, subtype unknown	745	850	4,227	42.6%
Influenza B/Victoria	1	8	167	1.7%
Influenza B/Yamagata	0	0	5	0.1%
Influenza, type unknown	18	8	62	0.6%
Total	2,292	2,149	9,919	100.0%

\*Season is July 1- June 30, Weeks 27-26.







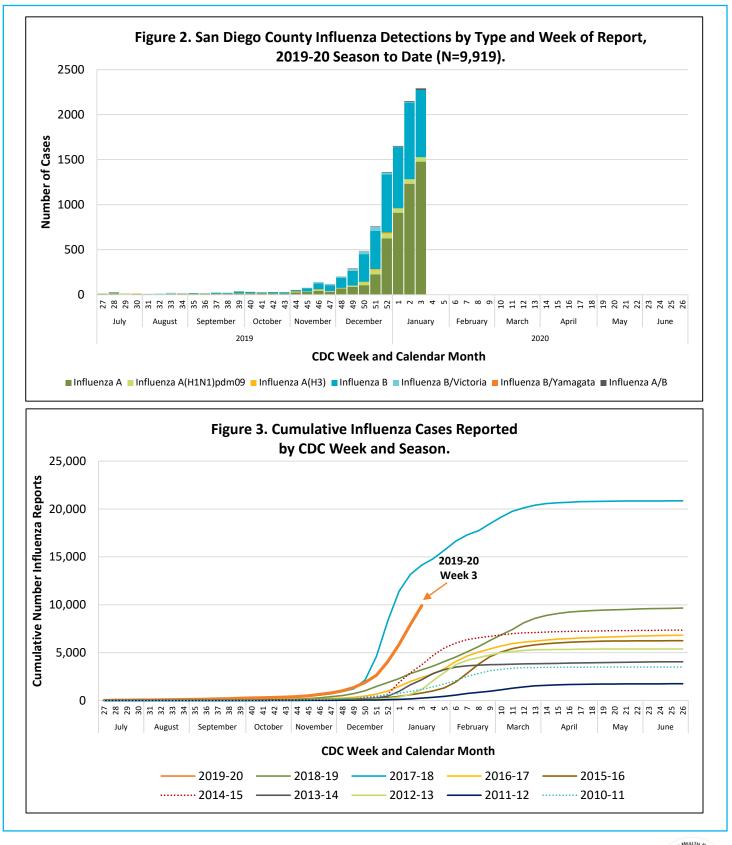
#### Influenza Activity Indicator:

The activity level compares the current week's ED ILI% (emergency department influenza-like illness, percent of all visits) to the mean and number of standard deviations above of the mean of the ED ILI% in non-influenza season weeks (CDC disease weeks 27-39) from the current and prior four seasons.

There are 10 activity levels, classified as: Minimal (levels 1-3), Low (levels 4-5), Moderate (levels 6-7), and High (levels 8-10). An activity level of 1 corresponds to when the ED ILI% is below the mean; level 2 corresponds to when the ED ILI% is less than 1 standard deviation above the mean; level 3 corresponds to when the ED ILI% is more than 1 but less than 2 standard deviations above the mean, and so on, with an activity level of 10 corresponding to when the ED ILI% is at 8 or more standard deviations above the mean.



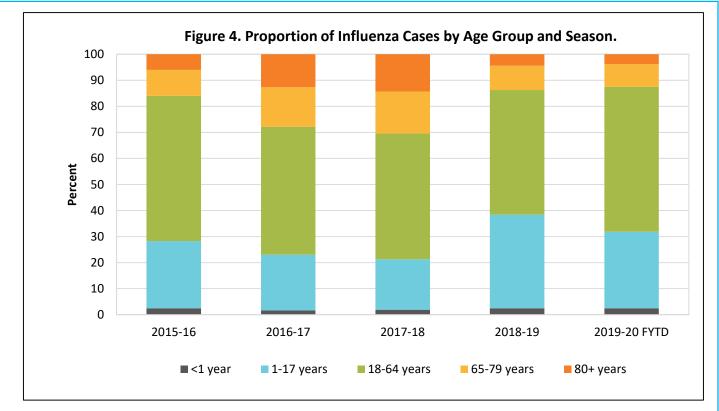


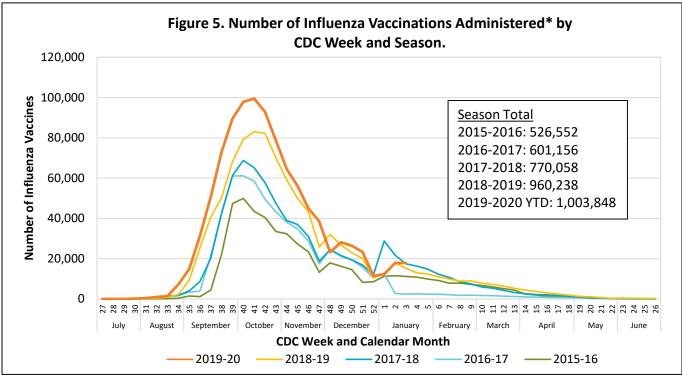




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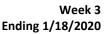


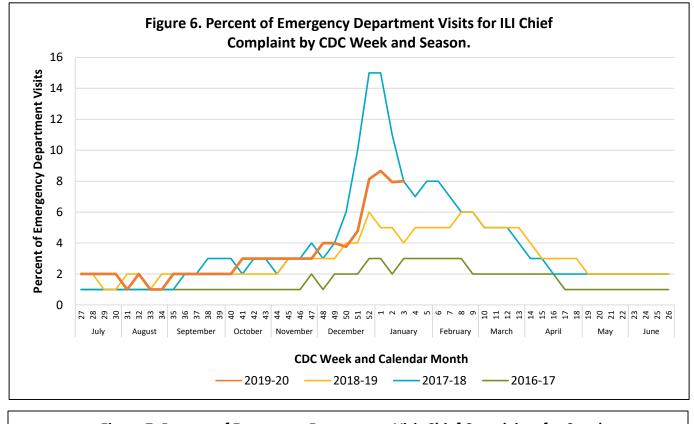


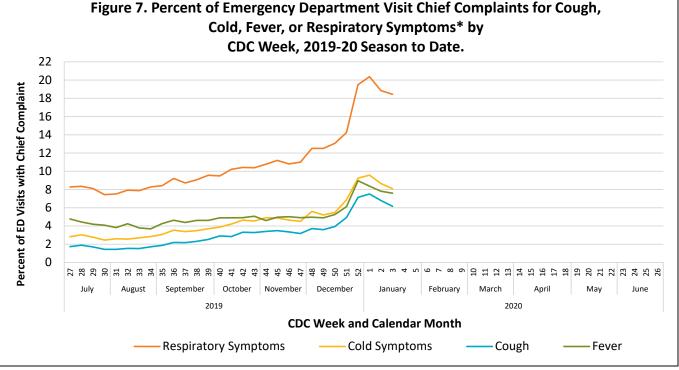
\* Influenza vaccinations administered and entered into the San Diego Immunization Registry (SDIR)











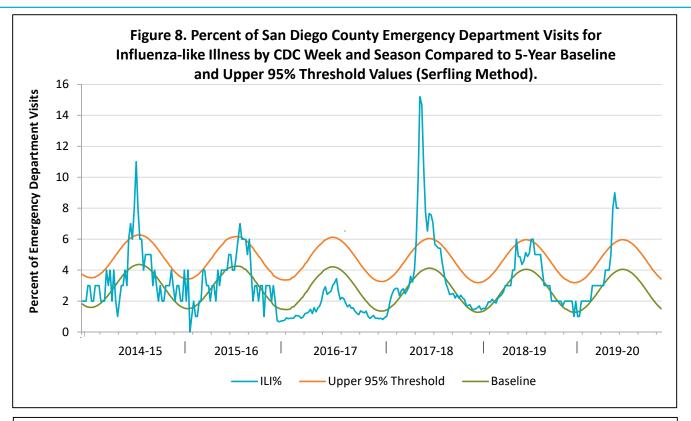
\* Respiratory category includes cough, cold symptoms, influenza-like illness, and other respiratory symptoms.



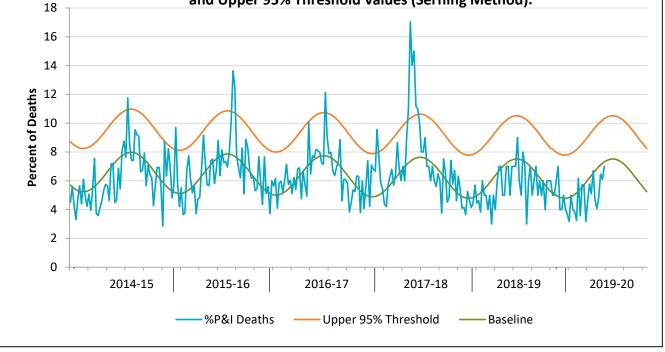
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### **County of San Diego INFLUENZA WATCH**



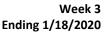






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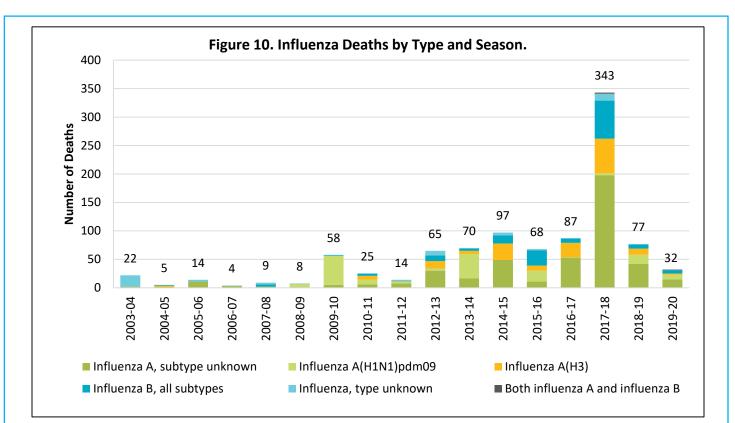
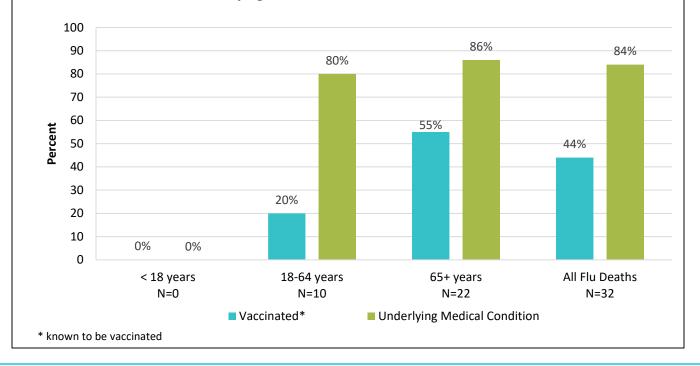


Figure 11. Percent of Influenza Deaths by Age Group, Vaccination Status, and Underlying Medical Condition, 2019-20 Season.





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### Influenza Reporting in San Diego County

Individual influenza cases are now reportable to Public Health as of October 1, 2019. Please report laboratory-positive influenza results to the County Epidemiology Program by FAX (858) 715-6458 using a <u>Confidential Morbidity Report Form</u>, or an <u>Influenza Case Report</u> Form, and/or a copy of the laboratory results. Also, please indicate if the patient died and/or is a resident of a congregate living facility (if known).

Influenza specimens may be sent to <u>Public Health Laboratory</u> (PHL) for confirmation and subtyping. Please contact PHL at **(619) 692-8500 before submitting** or for questions and use the current PHL Test Request Form found at <a href="https://www.sandiegocounty.gov/hhsa/programs/phs/phs\_laboratory/">https://www.sandiegocounty.gov/hhsa/programs/phs/phs\_laboratory/</a>. Contact the Epidemiology Program by telephone **(619) 692-8499** or email (<u>EpiDiv.HHSA@sdcounty.ca.gov</u>) with questions about influenza data. Influenza outbreaks should be reported by telephone to **(619) 692-8499**.

#### **Resource Links**

- County of San Diego Epidemiology Program <u>www.sdepi.org</u>
- County of San Diego <u>2018-19 Influenza Season Summary</u>
- Influenza Watch <u>Slide Deck</u> A slide version of this report for presentations
- County of San Diego Immunization Program (SDIZ) <u>www.sdiz.org</u>
- San Diego Regional Immunization Registry (SDIR) http://www.sdiz.org/CAIR-SDIR/index.html
- California Department of Public Health (CDPH) Influenza Update
- Centers for Disease Control and Prevention (CDC) Influenza Surveillance

### Influenza Watch Data Sources

The following sources of data are used to produce this report:

- Influenza case reports: Medical providers and laboratories report individual cases of confirmed influenza via fax or electronic laboratory reporting (ELR) to Public Health Services Epidemiology Program (Epidemiology).
- Influenza deaths: Hospital infection control professionals report influenza-related deaths. Pediatric flu deaths (under 18 years of age) are legally reportable in California; however, San Diego County requests that all influenza-related deaths be reported for surveillance purposes. Influenza-related deaths are also identified through death certificate registration. The County Office of Vital Records notifies Epidemiology when a new death is registered with influenza listed as a cause of death or underlying condition. In addition, influenza case reports are compared to death data for San Diego County, and matches are evaluated to determine if their influenza infection was related to the cause of death.
- **Percent pneumonia and influenza deaths:** The percentage of all deaths registered that had either pneumonia and/or influenza listed as a cause of death is obtained directly from the Vital Records VRIS data system on a weekly basis.
- Influenza-like illness (ILI): Electronic emergency department (ED) visit data is submitted to Epidemiology daily, and the number of all ILI chief complaints and total visits are used to calculate the ED ILI percentage for each week. ILI is defined as fever (>100°F or 37.8°C) and cough and/or sore throat, in the absence of a known cause.
- Influenza outbreaks: In a congregate living setting, outbreaks are defined as at least one laboratory-confirmed influenza in the setting of a cluster (≥2 cases) of influenza-like illness (ILI) within a 72-hour period. Influenza outbreaks are reportable in California. Epidemiology identifies outbreaks when facilities call to report. Other potential outbreaks are identified when multiple cases share an address or have a residential address that matches a skilled nursing or long-term care facility.
- **Number of vaccines:** The San Diego Immunization Registry (SDIR) provides weekly updates on the number of flu vaccinations given based on the number of flu vaccinations registered by participating providers.

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.

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