Summary of Los Angeles County Department of Public Health (LAC DPH) COVID-19 Related Surveillance

Updated: 7-31-2020 MMWR Week: 30 Ending on: 7-25-2020

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COVID-19 At a Glance

Virology	Activity	Severity
10% of specimens tested at select Los Angeles area laboratories* in week 29 were positive for SARS-CoV-2, which is about the same as in week 29.	In week 30, around 5% of ED visits were for COVID-19. Around 25 per 1,000 ED visits during week 30 were for influenza-like illness. The rate of emergency-department visits for COVID or influenza-like illness has decreased since week 29.	cause for 17% of deaths registered in LAC during week 28. Pneumonia, influenza, and COVID-19 accounted for 23% of all deaths registered in LAC during week 30, which was about the same as in week 29. This percentage may change as death certificates representing recent deaths are processed.

^{*} See indicator specific sections for associated methods.

LAC DPH prepares this newsletter to summarize current COVID-19 and respiratory illness surveillance data in Los Angeles County. Because the COVID-19 pandemic is evolving rapidly, our methods, systems, and data are being added and revised constantly.

Weekly surveillance data are preliminary and subject to change.

Daily counts of cases and deaths are available on the LAC DPH website at http://dashboard.publichealth.lacounty.gov/covid19 surveillance dashboard/.



^{*} LAC DPH surveillance data excludes the cities of Long Beach and Pasadena.

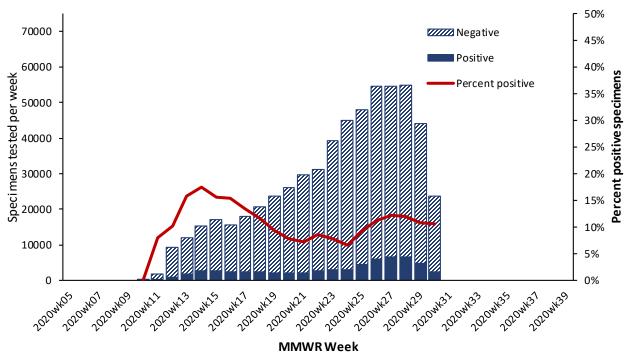
^{**} The respiratory virus surveillance period starts with MMWR week 40 and runs through week 39 of the following year. The 2019-20 season started on Sept 29, 2019.



Virologic Surveillance

The percentage of specimens testing positive for SARS-CoV-2 is calculated from a subset of Los Angeles County area clinical and commercial laboratories that have both on-site testing and report results through *Electronic Laboratory Reporting* (ELR). Because data from the same laboratories are reported every week, these sites serve as virtual "sentinel surveillance" sites. Specimens tested by the LAC DPH Public Health Laboratory are excluded from analyses because testing at the PHL is prioritized for situations where a positive result is more likely to inform a public health response (healthcare workers, critically ill patients, persons in settings experiencing a respiratory illness outbreak).

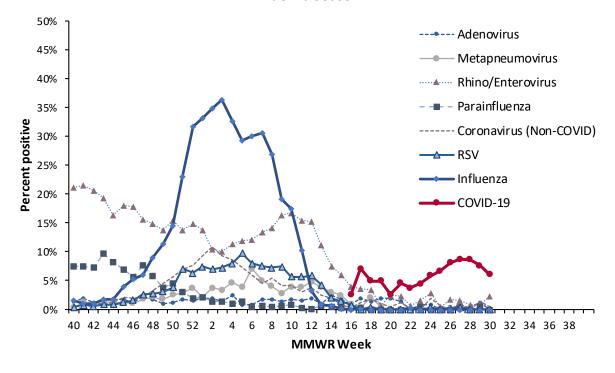
Figure 1. Respiratory Specimens Tested and Percent Positive for SARS-CoV-2 Reported by Select LAC Area Laboratories by MMWR Week of Specimen Collection.



Other Respiratory Viruses

Viral surveillance data is provided by eight clinical laboratories serving hospitals and healthcare networks across Los Angeles County. Participating laboratories provide the number of positive tests and total number of specimens tested for influenza and respiratory syncytial virus. Some participating laboratories also provide data on other respiratory viruses, including the virus that causes COVID-19.

Figure 2. Percentage of Respiratory Specimens Testing Positive by Viral Etiology, Los Angeles County Sentinal Surveillance Labs 2019-20 Influenza Season





Activity

Los Angeles County Emergency Department (ED) Influenza-Like Illness (ILI) and COVID-19 Visits

Public Health's Syndromic Surveillance Project monitors initial self-reported symptoms from patients presenting to participating emergency departments throughout LAC. These symptoms are categorized into different clinical syndromes according to specific code words. Visits are included in the COVID-19 category if the chief complaint field includes any mention of "COVID", "Coronavirus" or similar key words. The syndrome of ILI is defined as mention of influenza; or fever (subjective or measured greater than 100°F) plus cough or sore throat. The ILI and COVID-19 classified ED visits for all ages and by age group are analyzed weekly and year-round. The COVID-19 and ILI categories are not mutually exclusive.

Figure 3. Emergency Department Visits for Influenza-like Illness and COVID-19 per MMWR week, Los Angeles County, 2019-20 Influenza Season

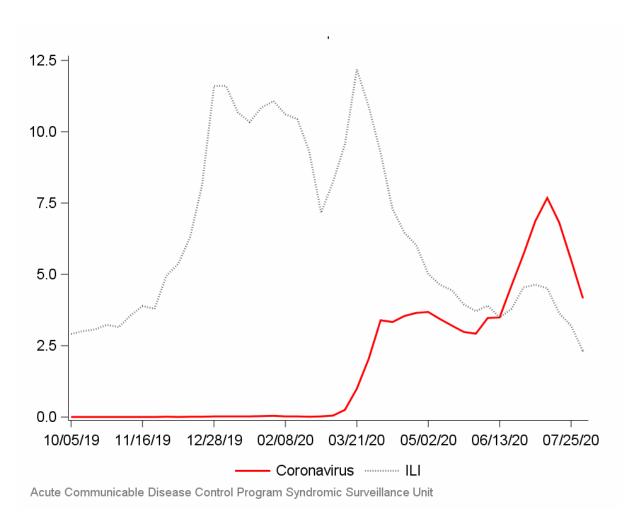


Figure 4. Emergency Department Visits for COVID-19 by Age Category per MMWR week,
Los Angeles County, January 2020 Through Present

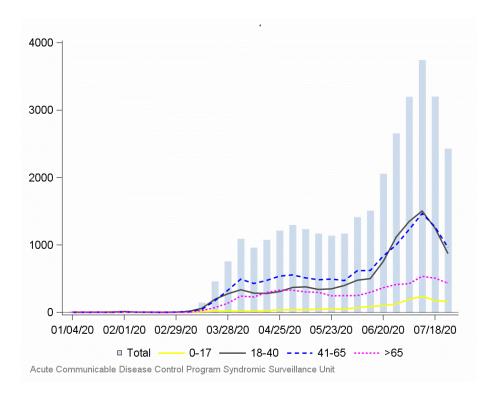


Figure 5. Emergency Department Visits for Influenza-like Illness, per 1,000, Los Angeles
County 2016-17 through 2019-20 Influenza Seasons

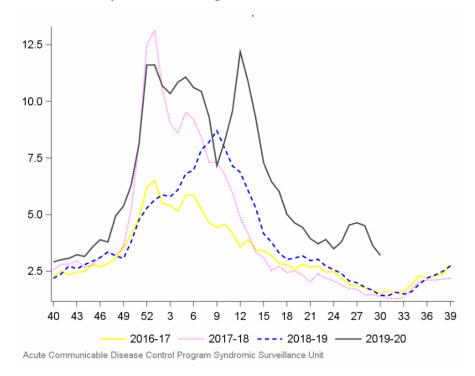
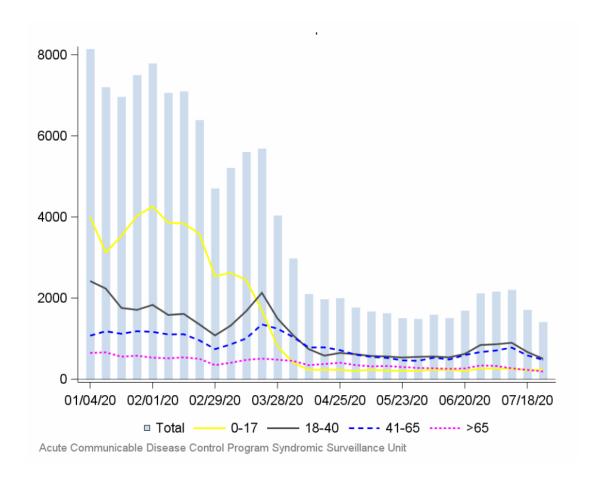


Figure 6. Emergency Department Visits for Influenza-like Illness by Age Groups per MMWR Week, Los Angeles County, January 2020 through Present





Severity

Pneumonia, Influenza and COVID-19 Mortality

Each week, the Office of Health Assessment and Epidemiology at LAC DPH reports the total number of death certificates received and the number of those for which pneumonia, influenza or COVID-19 (PIC) was listed as the underlying or contributing cause of death by age group.

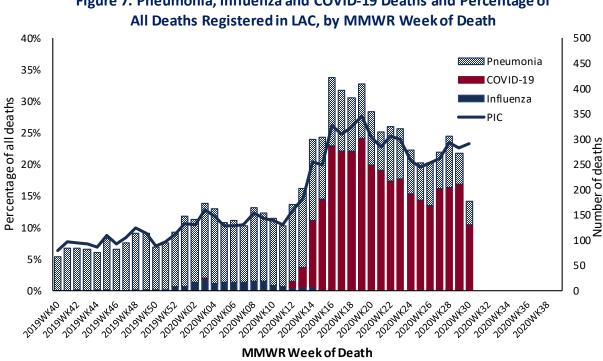
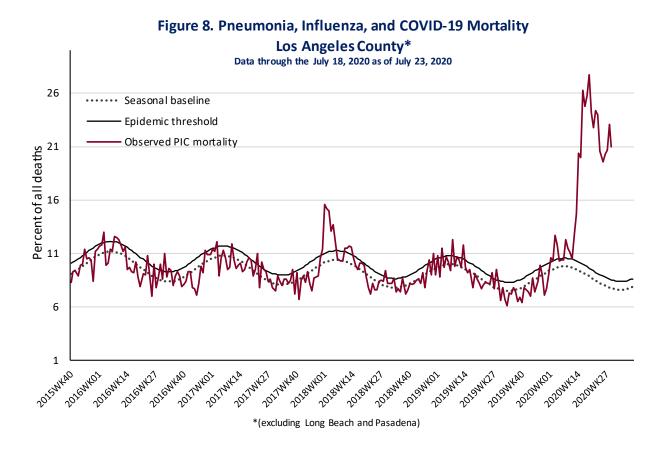


Figure 7. Pneumonia, Influenza and COVID-19 Deaths and Percentage of

The seasonal baseline of pneumonia, influenza and COVID-19 (PIC) deaths is calculated using a periodic regression model that incorporates a robust regression procedure applied to data from the previous 5 years. An increase of 1.645 standard deviations above the seasonal baseline of PIC deaths is considered the "epidemic threshold," i.e., the point at which the observed proportion of deaths attributed to pneumonia, influenza or COVID-19 was significantly higher than would be expected at that time of the year in the absence of substantial virus-related mortality.



Technical note: The number of deaths reported in recent weeks does not represent all deaths that occurred in the reporting period. Data may be incomplete due to a lag between when the death occurred and when the death was registered. Previous weeks counts or percentages may change as vital records are updated with lagged death certificates. The count includes all certificates of deaths (excludes fetal deaths) occurring in the County of Los Angeles (excluding Long Beach and Pasadena) regardless of the residence of the deceased.