Oregon Hospital Trends: COVID, Flu, RSV

Edition: 9/22/2023

Peter Graven, PhD; Office of Advanced Analytics, BIAA, ITG
As of 9/19/2023, 219 people are hospitalized with COVID-19 in Oregon. While below other waves, the level reached 240 recently which is over two times as the trough on July 16th at 95.

COVID Census by Oregon Region

The regions are generally similar to each other.

Source: https://public.tableau.com/profile/oregon.health.authority.covid.19#!/vizhome/OregonCOVID-19HospitalCapacity/BedAvailabilitybyRegion
COVID Census in US

The rate of hospitalization is similar across regions and generally much lower than previous waves.

Source: https://healthdata.gov/Hospital/COVID-19-Reported-Patient-Impact-and-Hospital-Capa/g62h-syeh/data
A few countries have data indicating a recent wave (Italy, Malta, and Greece). Most other countries appear to have lower levels of weekly hospital admissions.

The pediatric census for COVID is 10 as of 9/9/2023.

Source: https://healthdata.gov/Hospital/COVID-19-Reported-Patient-Impact-and-Hospital-Capa/g62h-syeh/data
ED Boarding in Oregon

ED boarding is now measured with a new metric. The current level has fluctuated recently but is generally moderate.

Source: https://public.tableau.com/app/profile/apprisehealthinsights/viz/COVID-19HospitalCapacity/DailyTrends
COVID Wastewater in Oregon

The data show an equal number of sites are experiencing sustained increases as decreases. This suggests relatively stable levels statewide.
These data are population weighted averages and allow some ability to assess trends over time. That said, these data are typically viewed on a site by site basis and not aggregated across sites.

Source: https://data.cdc.gov/Public-Health-Surveillance/NWSS-Public-SARS-CoV-2-Wastewater-Metric-Data/2ew6-ywp6
Across the US, the regions have shown a consistent increase in the wastewater levels. A couple regions have appeared to peak in the level.
COVID Test Positivity in Oregon

Test positivity has reached 14.5% in the recent wave. The percentage appears to have peaked in recent weeks.

Source: https://public.tableau.com/app/profile/oregon.health.authority.covid.19/viz/OregonCOVID-19TestingandOutcomesbyCounty-SummaryTable/CasesandTestingbyCountySummaryTable
COVID Lineage Prevalence

There is no clear variant becoming dominant at this time.

Source:
Nationally, there is also little evidence of any one variant becoming dominant.
Round 17 forecasts were not able to predict the recent wave.

Source: https://covid19scenariomodelinghub.org/viz.html
While a mostly flat forecast comes from the ensemble forecast, the model specific forecasts show diverging possibilities.

RSV
Oregon has not seen the beginning of the RSV season.
RSV-Georgia, Tennessee

Georgia has had increasing levels for the last 6 weeks. And just this week Tennessee is beginning to show increase.

RSV typically moves from south to north during the season.

Source: https://www.cdc.gov/rsv/research/rsv-net/dashboard.html
Flu
Influenza-Oregon

Flu hospitalization levels have dropped to near zero.

Source: https://gis.cdc.gov/GRASP/Fluview/FluHospRates.html
There is no indication of flu in the US at this time. In the southern hemisphere, Argentina had a more typical season (peaking in week 26) without a large peak (lower than the last 2 seasons).
Acknowledgments

Each week this model requires updates, input and expertise from many people.

Thank you to Guang Fan, Xuan Qin and Brian O’Roak, at OHSU, for their work to monitor variants in Oregon.

Thank you to Dr. William Messer and Dr. Marcel Curlin for their expertise in virus dynamics and transmissions.

Thank you!