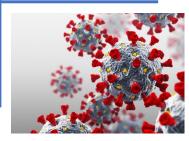


"Strategic Advice in an Era of Unprecedented Change"









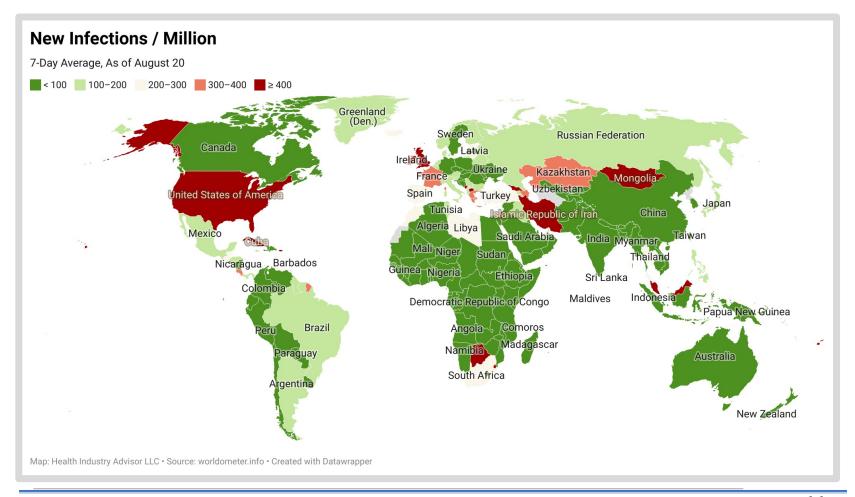
Covid-19 "Vital Signs"

Issue # 344 August 23, 2021



Newly Detected Cases / Million

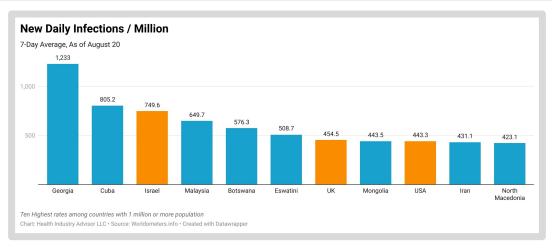
Infection "hot-spots" exist on each populated continent

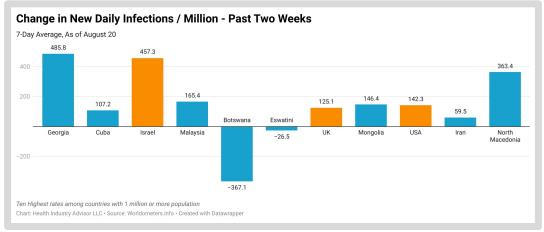




Countries With the Highest Current Infection Rates Per Capita

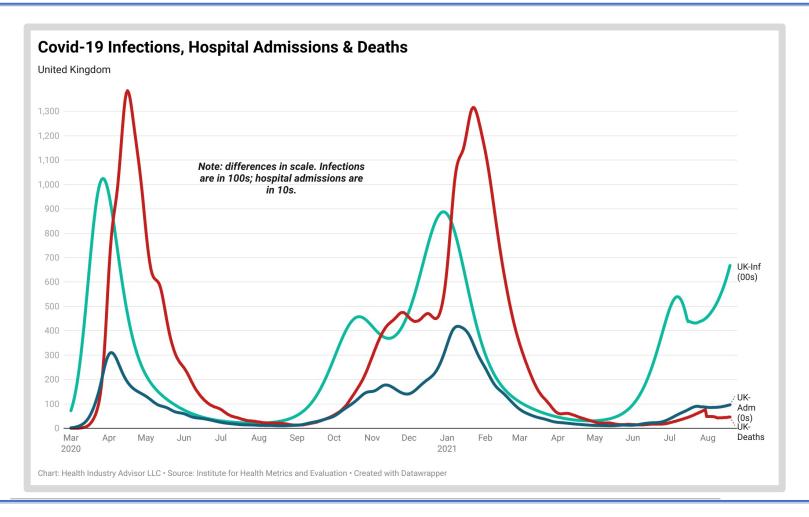
The United States ranks ninth in new cases per capita among countries with population of at least 1 million. Israel ranks third and the United Kingdom, seventh





Trends in New Infections, Hospitalizations and Deaths – United Kingdom

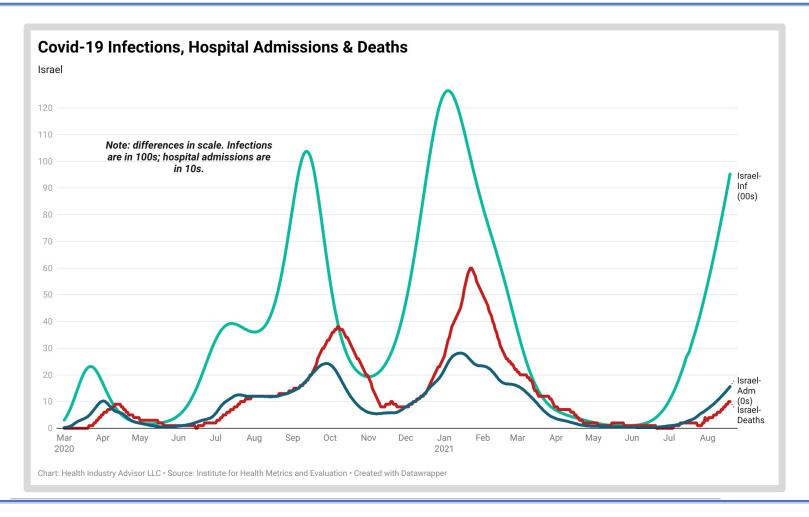
New infections are surging in the United Kingdom again. Unlike prior surges, however, hospital and death rates have not increased appreciably.





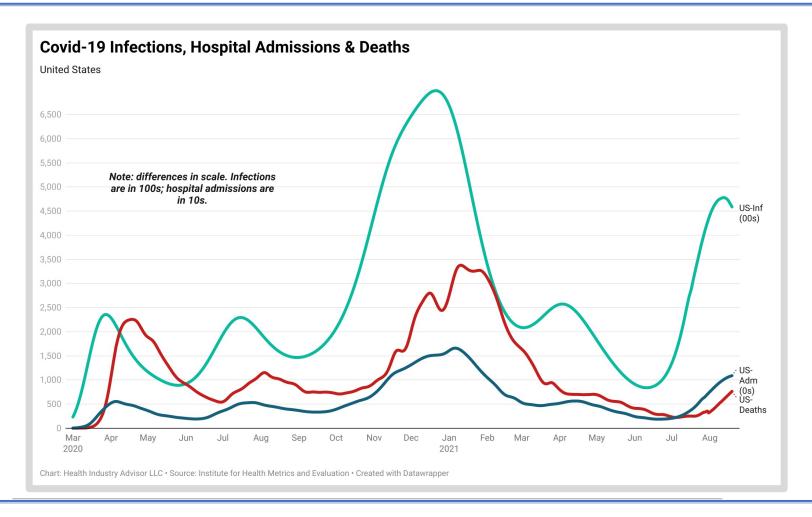
Trends in New Infections, Hospitalizations and Deaths – Israel

New infections are surging in the Israel too. Like with United Kingdom, hospital and death rates have not increased as greatly as during prior surges.



Trends in New Infections, Hospitalizations and Deaths – United States

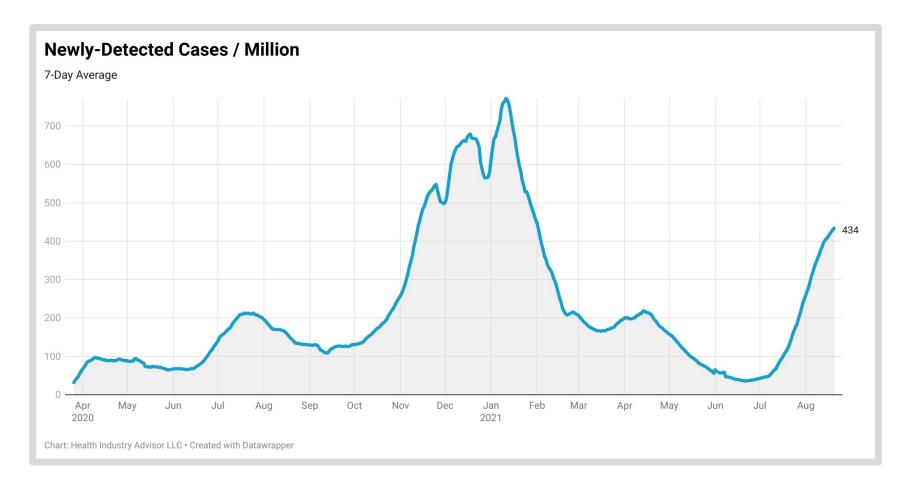
IHME estimates that new infections are declining in the United States. Hospital and death rates in the United States seem to have increased during the latest surge more so than in the UK and Israel.





Newly Detected Cases

Reported new cases remain on the rise in the United States. The rate of increase, however, is slowing.

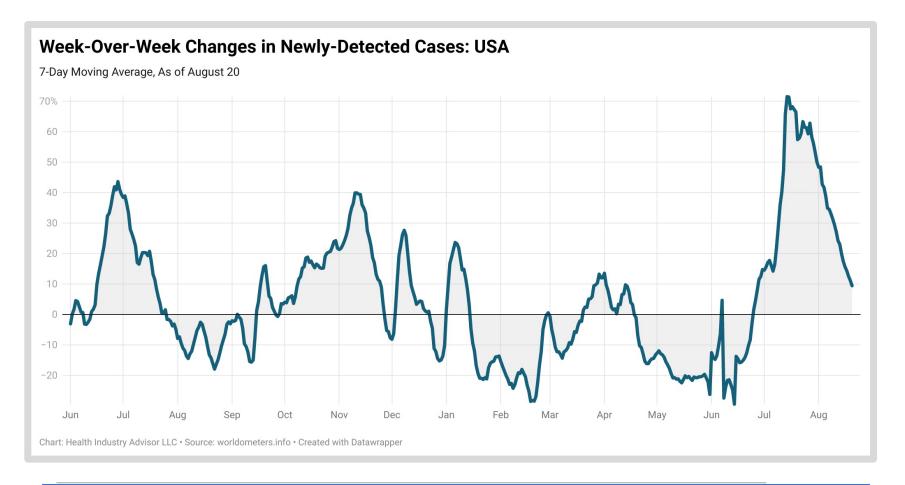






Weekly Change in Newly Detected Cases

Despite the two-month long infection surge in the United States, the rate of increase in new cases declined over the last month. The current growth rate fell to single digits on Friday.

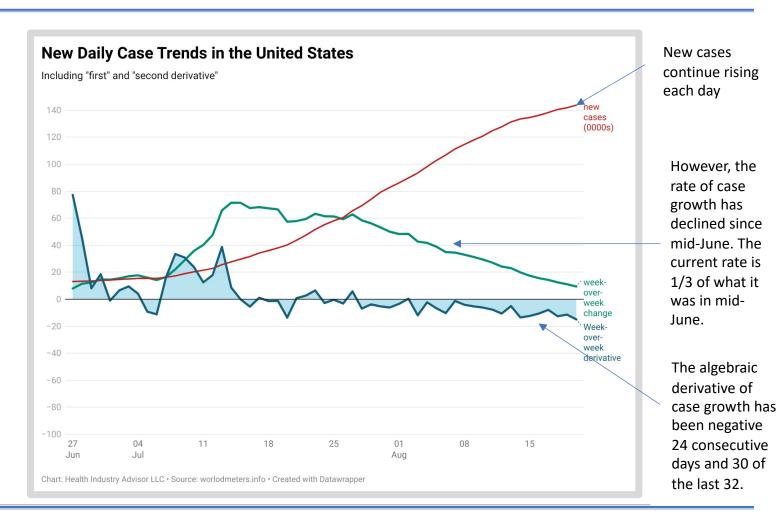






New Case Trends

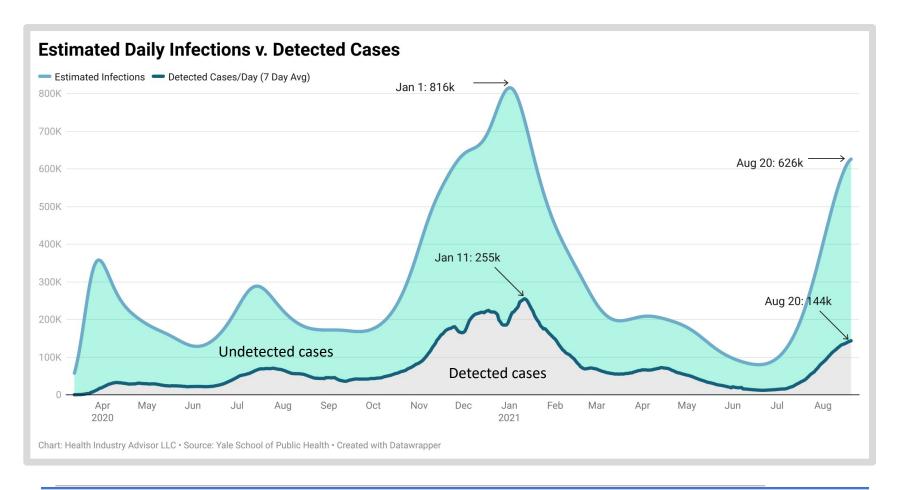
A closer inspection of new case trends suggest that case growth rate is slowing each day. Should this continue, new cases should begin to decline soon.





Estimated Daily Infections & New Case Rates

The gap between estimated infections and detected cases widens during surges. Some of the growing gap should be tied to insufficient testing.

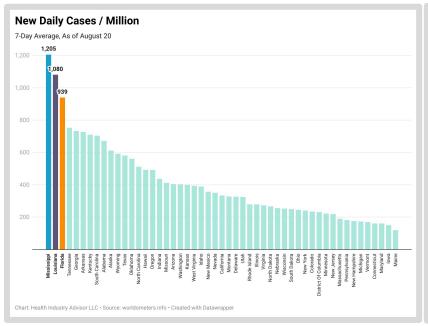


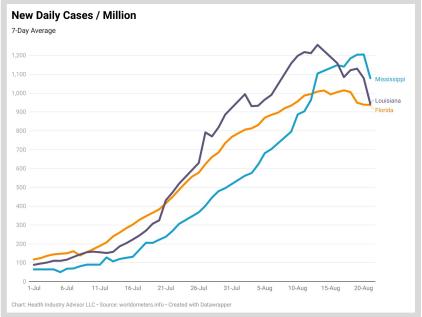




New Cases / Million By State

The current surge is hitting Florida, Louisiana, and Mississippi harder than other states. Fortunately, case rates in each of these states eased within the past several days.



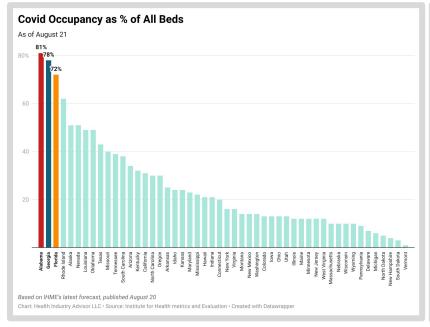


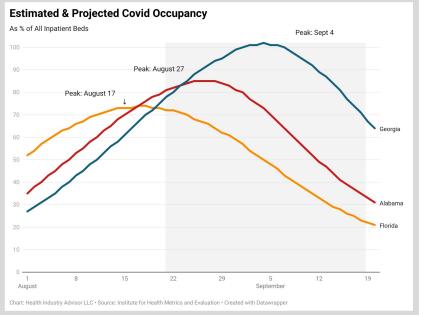




Covid-19 Hospitalizations

The current hospital crisis is concentrated in a handful of states, especially Alabama, Georgia, and Florida. IHME estimates that Covid census reached its peak in Florida last week and will peak in Alabama later this week. Georgia faces another difficult period ahead.

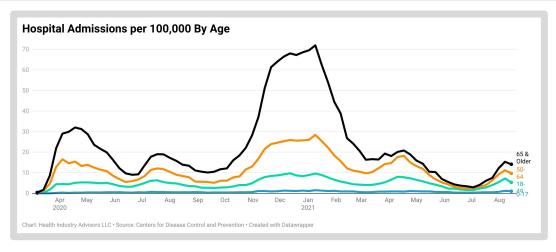


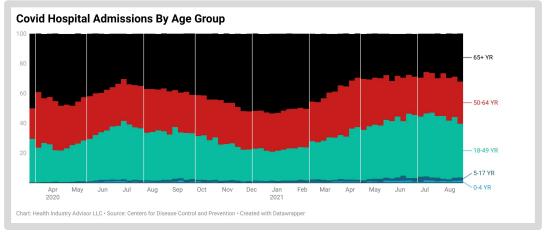




Hospitalization Rates By Age Group

Despite recent press reports, CDC data suggests that hospitalization rates among minors remain low. Hospital rates among senor citizens dropped and has remained low since vaccinations began.

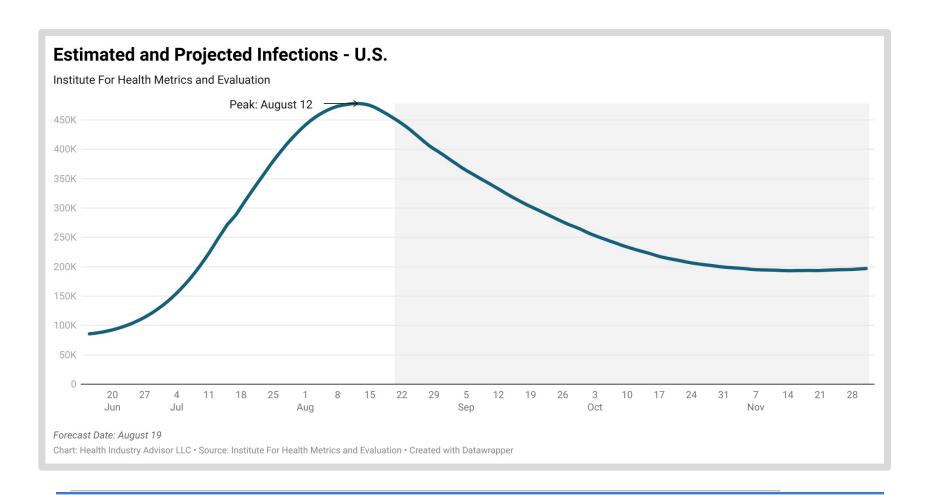






Estimated Infections- IHME Projections

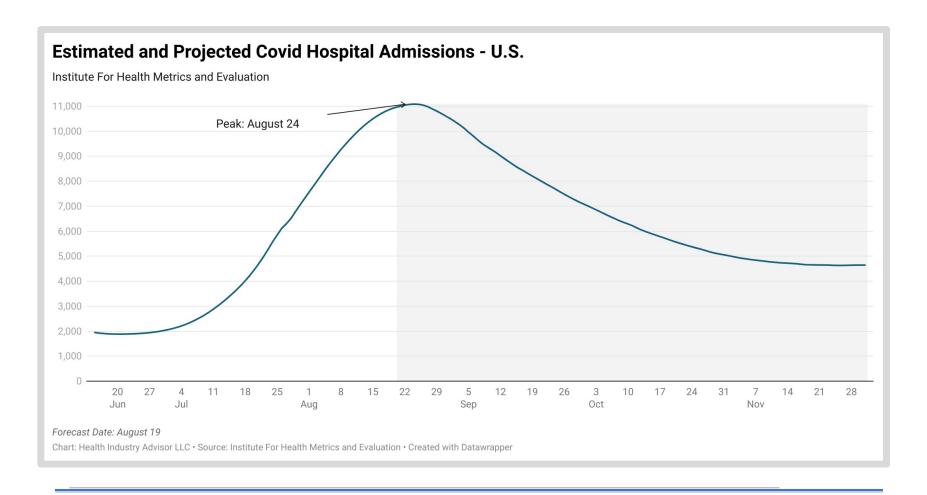
In its latest model (published August 20) IHME re-affirmed its assertion that the current Delta infection wave has crested in the United States. IHME foresees infections dropping by more than half then, stabilizing through the end of November





Covid-19 Inpatient Admissions – IHME Projections

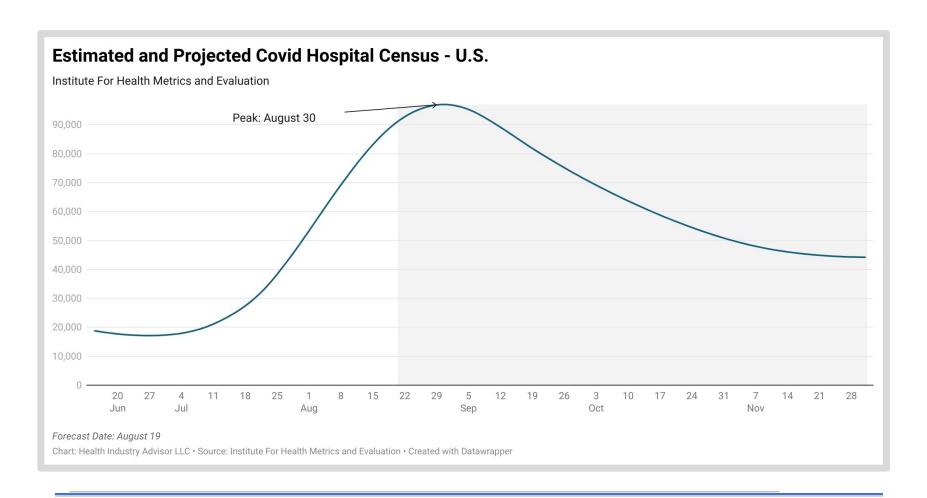
With declining infections, hospitals should see relief soon. IHME anticipates that Covid admissions will peak early this week.





Covid-19 Inpatient Census – IHME Projections

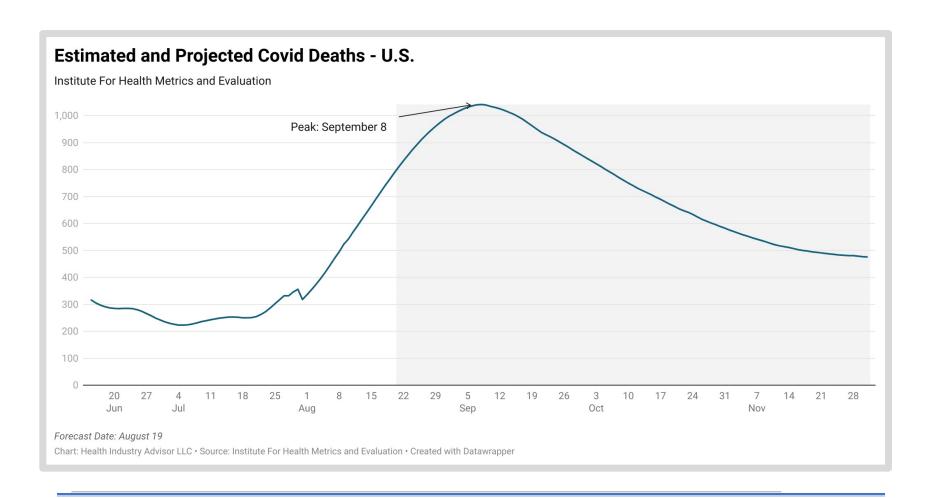
As admissions decline, Covid census will shortly follow suit. The peak in Covid census may come as soon next week.





Deaths With Covid-19: IHME Projection

The final benefit of slowing infections should be a drop in daily deaths reported with Covid. IHME expects deaths to peak early in September, at about 1,000 daily.





Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker https://www.cdc.gov/covid-data-tracker/index.html#mobility
- Centers for Disease Control and Prevention, Vaccines, https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads http://www.healthdata.org/covid/data-downloads
- New York Times, Covid-19 data https://github.com/nytimes/covid-19-data
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19
- COVID-19 Projections Using Machine Learning, https://covid19-projections.com
- Our World In Data, https://ourworldindata.org/covid-vaccinations
- Covid-19 Forecast Hub, https://viz.covid19forecasthub.org
- Yale School of Public Health & Harvard TH Chan School of Public Health, https://covidestim.org
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

