







COVID-19 Report

Issue # 130

Sunday, August 9, 2020



Today's Highlights

- First, given the concern about testing availability and turnaround in the United States, a potentially "game-changing" development: a rapid, low-cost saliva test for SARS-CoV-2, SalivaDirect, was submitted in July to the FDA for Emergency Authorization Use. If approved, this test could significantly improve both back-to-work and back-to-school efforts
 - Non-invasive and does not require trained healthcare professionals for administration
 - Costs \$1.29-\$4.37 per sample
 - Reports a high agreement in testing outcomes with existing tests on the market
 - Backed by a number of foundations . . . and the NBA and NBA Players Association (hmmm)
- On the vaccine front, thee potential vaccines updated their efforts:
 - Noravax, currently in combined Phase II and III trials, announced promising results on preliminary studies in monkeys and humans. If successful, Noravax anticipates having 100 million doses available in the U.S in O1 2001
 - Medigen announced a Phase I trial to begin in September in Taiwan
 - Zydus Cadila launched a Phase II trial in India on August 6

- The week ending August 8 provided encouraging trends with respect to the SARS-CoV-2 infection spread in the U.S., with the lone exception being test volume:
 - New infection rate: Down 14.4% week-over-week (lowest point since July 9)
 - U.S rank in the world: Down to 11th, from 5th one week earlier
 - Tests/Capita: Down 8.6% (lowest point since July 13)
 - Test-positive rate: Down to 7.4% for the week, down from 8.0% week earlier (lowest since July 1)
 - Deaths per day: Down 11.5% week-over-week (lowest since July 27)
 - Hospital COVID-19 Census: Down 8.3% week-over-week (lowest since Florida began reporting these on July 10)
 - ICU COVID-19 Census: Down 7.6% week-over-week (lowest since Utah began reporting these on July 22)
 - ER Visits for COVID-19 Illness as % of all Visits: Down to 2.3% from 3.1% week earlier (lowest point since June 10)
 - Recoveries:Deaths: Up to 16.0 from 15.0 week earlier
 - Recoveries:Active cases: Up to 1.13 from 1.05 week earlier



Vaccines

On Aug. 4, Novavax announced promising results from two preliminary studies in monkeys and humans

Noravax expects to deliver 100 million doses in the U.S. in Q1 2021*

Pre-Clinical – Vaccines not yet in clinical trial	135+	
Phase I — Vaccines testing safety and dosage	18	Medigen – announced a September Phase I launch
Phase II — Vaccines in expanded safety trials	12	 Noravax –announced strong preliminary results Zydus Caila – launched a Phase II trial
Phase III — Vaccines in large-scale efficacy tests	6	 Moderna/National Institutes of Health BioNTech/Pfizer/Fosun Pharma AstraZeneca/University of Oxford Sinovac Biotech Murdoch Children's Research Institute
Phase IV — Vaccine approved for limited use	1	CanSinoBIO/China's Academy of Military Medical Sciences

^{* -} Source: "Coronavirus Vaccine Tracker", New York Times, Updated August 6, 2020 https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html



Week-Over-Week: Good progress across the board on key metrics, except test volume

Current rate is best since:

- New Infections: 7/9
- Test-positive%: 7/1
- Deaths/Day: 7/27
- Hospital Census: Florida started reporting data on 7/10
- ICU Census: Utah started reporting data on 7/22
- ER Visit%: 6/10

Test volume is lowest since 7/13

Week-Over-Week Changes in Key Metrics

United Sates, August 8 v. August 1

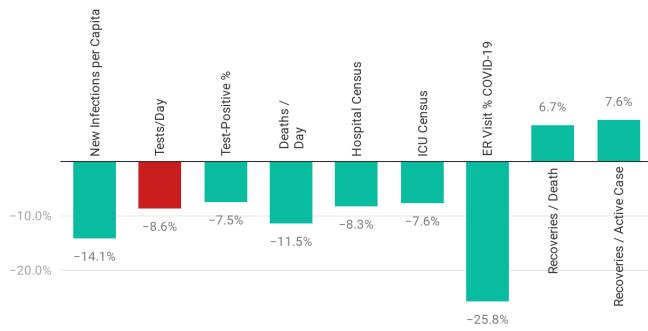


Chart: Health Industry Advisor LLC • Created with Datawrapper



New cases are now down 14.4% n a week-over-week basis; Fewest new cases on a Saturday since June 28

New Cases

Through August 8

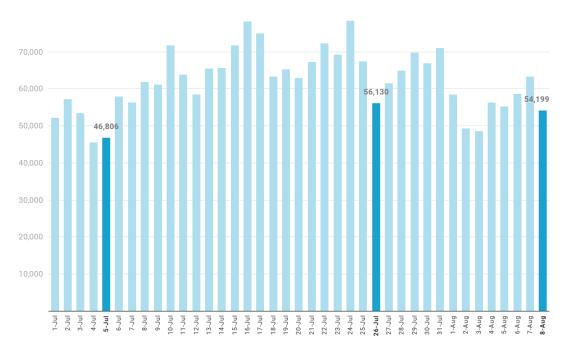


Chart: Health Industry Advisor LLC • Source: eorldometers.info • Created with Datawrapper

Week-Over-Week Change In New Cases

Through August 8



Health Industry Advisor LLC analysis

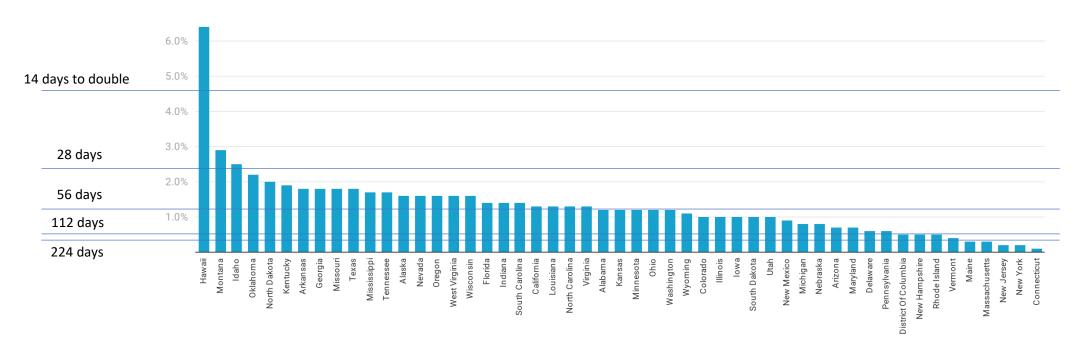


State-By-State

Case growth is slowing but, Hawaii remains the outlier. At current rates, cases are doubling every 11 days in Hawaii; every 674 days in Connecticut; 60-61 days for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 8



Health Industry Advisor LLC analysis



New infections per capita* declined for the 14th consecutive day on Friday; At its lowest level since July 9th

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 8



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

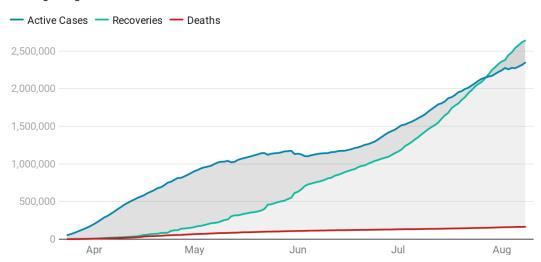
* - per million per day, trailing 7-day moving average



Recoveries accelerating, now exceed active cases in the United States by 13%; Sixteen recovered persons for each death

Active Cases v. Recoveries & Deaths

Through August 8

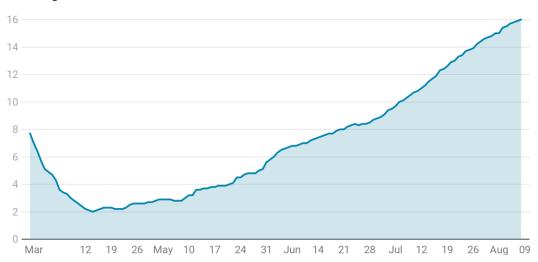


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Recoveries: Deaths - United States

As of August 8



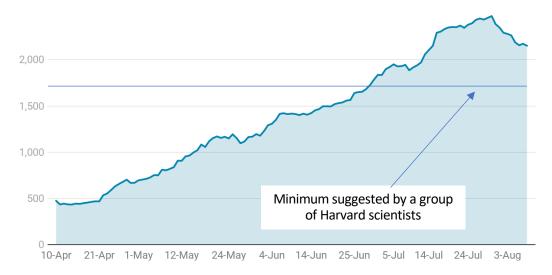
Health Industry Advisor LLC analysis



Test volume continued to decline Test-positive rate improved; showing downward trend since July 11

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 8

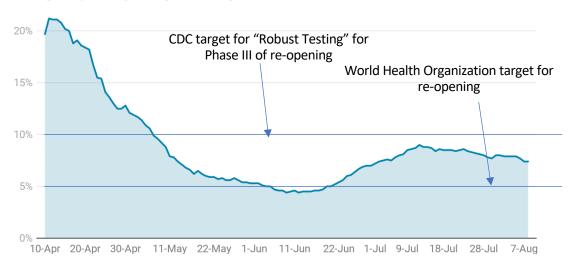


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Test-Positive Rate - United States

Trailing 7-Day Moving Average, As of August 8



Health Industry Advisor LLC analysis

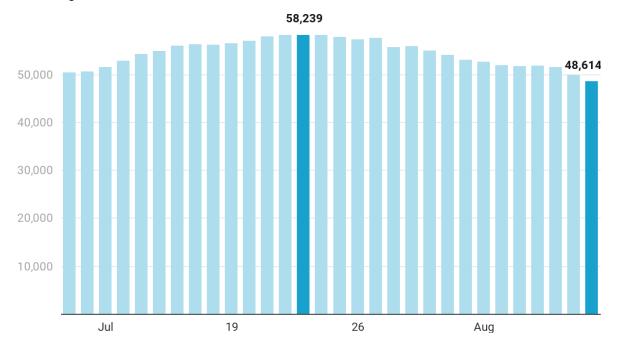
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper



COVID-19 census was lowest since Florida started reporting on July 10; Down 16.5% from peak

Hospital Census: COVID-19 Patients

As of August 8



Florida data first available on July 10

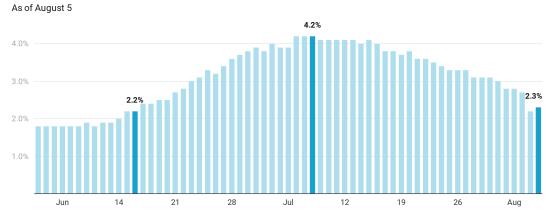
Chart: Health Industry Advisor LLC • Source: he Atlantic's Covid Tracking Project • Created with Datawrapper



Stress on ICU beds and ERs are also easing

ER Visits for COVID-19 are Declining

% of Emergency Department Visits for COVID-Like Illness



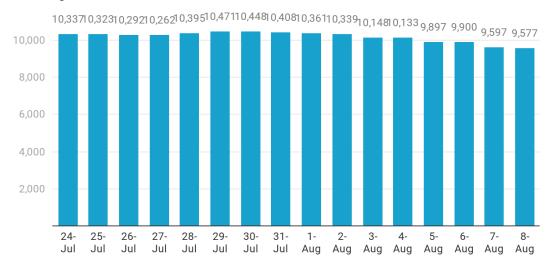
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: Centers for Disease Control • Created with Datawrapper

ICU COVID-19 Census Also Down

ICU Census

As of August 8



Not all state report these data

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracing Project • Created with Datawrapper



Deaths per day down 11.5% week-over-week Deaths per case down to 3.21%

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 8



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Deaths Per Case

As of August 8



Health Industry Advisor LLC analysis



Worldwide

Island Nations and Central/South American Countries/Regions dominate the top ten in new infections per capita the past week

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of August 8

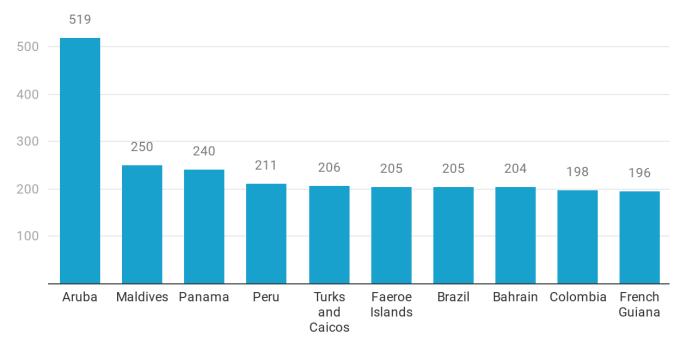


Chart: Health Industry Advisor LLC • Created with Datawrapper



Data Sources

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

- The Atlantic's Covid Tracking Project: https://covidtracking.com
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- Centers for Disease Control, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control, COVID Data Tracker https://www.cdc.gov/covid-data-tracker/index.html#mobility
- 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