COVID-19
Applying approach of global pandemics to COVID-19
Data to Action
Ensuring Community Engagement
Total confirmed COVID-19 cases

The number of confirmed cases is lower than the number of total cases. The main reason for this is limited testing.

Source: European CDC – Situation Update Worldwide – Last updated 5th July, 10:15 (London time)
OurWorldInData.org/coronavirus • CC BY
Total confirmed COVID-19 deaths

Limited testing and challenges in the attribution of the cause of death means that the number of confirmed deaths may not be an accurate count of the true number of deaths from COVID-19.

Source: European CDC - Situation Update Worldwide – Last updated 5th July, 10:15 (London time)
OurWorldInData.org/coronavirus • CC BY
<table>
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<tr>
<th>Country, Other</th>
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<th>New Cases</th>
<th>Total Deaths</th>
<th>New Deaths</th>
<th>Total Recovered</th>
<th>Active Cases</th>
<th>Serious, Critical</th>
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Daily New Cases in the United States

Daily New Cases
Cases per Day
Data as of 0:00 GMT+0

Novel Coronavirus Daily Cases

0
10k
20k
30k
40k
50k
60k
70k
80k


Daily Cases  3-day moving average  7-day moving average
Daily New Deaths in the United States

Daily Deaths
Deaths per Day
Data as of 0:00 GMT+8
CUMULATIVE CASES: TOP STATES 1-12 WITHOUT NY

CONFIRMED CASES

CONFIRMED CASES

CA
NJ
TX
FL
IL
MA
PA
GA
AZ
MI
NC
MD
CUMULATIVE CASES: TOP 37-51 STATES

CONFIRMED CASES

DE
DC
OR
SD
ID
NH
ND
ME
WV
WY
VT
MT
AK
HI

3/12
3/15
3/18
3/21
3/24
3/27
3/30
4/2
4/5
4/8
4/11
4/14
4/17
4/20
4/23
4/26
4/29
5/2
5/5
5/8
5/11
5/14
5/17
5/20
5/23
5/26
5/29
6/1
6/4
6/7
6/10
6/13
6/16
6/19
6/22
6/25
6/28
7/1

CONFIRMED CASES
Percentage change of the most recent 7-day new cases vs. the 7-days before that

Source: USAFacts, Updated: 2020-07-01
Total COVID-19 tests

Source: Official sources collated by Our World in Data
Note: Comparisons of testing data across countries are affected by differences in the way the data are reported. Details can be found at our Testing Dataset page.
Data from state public health labs, commercial labs, and hospitals. Some data may still coming in for the most recent 3 days. This chart is sorted by the 7-day percent positive.
States are ranked based on the current percent positive on a 7-day window. 7-day positive percent is calculated as total positive results in trailing 7 days / total test results in trailing 7 days.
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TRENDS IN FLORIDA

Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases
Daily ED visits for CLI reported to CDC as a % of all ED visits

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received
TRENDS IN TEXAS

Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

COVID-19 SNAPSHOT

POSITIVITY RATE 19.2%
NEW CASES PER 100K / DAY 21 (weekly avg.)
TESTING PER 100K / DAY 154 (weekly avg.)
BED UTILIZATION 62%

WEEK-ON-WEEK CHANGES

POSITIVITY RATE +2.5%
INCIDENCE +41%
TESTING PER 100K / DAY +35%
BED UTILIZATION -1%

RISK FACTORS

POPULATION DENSITY 110 per sq mi
% OVER 60 18%
CRUDE CVD PREVALENCE 3.3%

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received

Not enough CLI syndromic surveillance data to display
TRENDS IN CALIFORNIA

Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

COVID-19 SNAPSHOT
- POSITIVITY RATE: 8.1%
- NEW CASES PER 100K / DAY: 15 (weekly avg.)
- TESTING PER 100K / DAY: 193 (weekly avg.)
- BED UTILIZATION: Unknown

WEEK-ON-WEEK CHANGES
- POSITIVITY RATE: +3.3%
- INCIDENCE: +31%
- TESTING PER 100K / DAY: -47%
- BED UTILIZATION: Unknown

RISK FACTORS
- POPULATION DENSITY: 254 per sq mi
- % OVER 60: 20%
- CRUDE CVD PREVALENCE: 2.8%

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received

Not enough CLI syndromic surveillance data to display
Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases
Daily ED visits for CLI reported to CDC as a % of all ED visits

**COVID-19 SNAPSHOT**
- Positivity Rate: 22.4%
- New cases per 100k/day: 48 (weekly avg.)
- Testing per 100k/day: 173 (weekly avg.)
- Bed utilization: 68%

**WEEK-ON-WEEK CHANGES**
- Positivity rate: +4.7%
- Incidence: +27%
- Testing per 100k/day: -15%
- Bed utilization: -1%

**RISK FACTORS**
- Population density: 63 per sq mi
- % over 60: 23%
- Crude CVD prevalence: 3.7%

*Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received.*

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect
TRENDS IN WISCONSIN

Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases
Daily ED visits for CLI reported to CDC as a % of all ED visits

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received
Positive and negative cumulative results in the last 30 days per CBSA with % positive per CBSA

Data from state public health labs, commercial labs, and hospitals. Some data may still coming in for the most recent 3 days. The top 50 CBSAs were determined by ranking over the number of results reported for a given area in the last 30 days. This chart is sorted by the 7-day percent positive.
CUMULATIVE CASES: TOP 25 CBSA WITHOUT NYC

- Chicago-Naperville-Elgin, IL-IN-WI
- Los Angeles-Long Beach-Anaheim, CA
- Washington-Arlington-Alexandria, DC-VA-MD-WV
- Boston-Cambridge-Newton, MA-NH
- Miami-Fort Lauderdale-Pompano Beach, FL
- Philadelphia-Camden-Wilmington, PA-NJ-DE-MD
- Phoenix-Mesa-Chandler, AZ
- Houston-The Woodlands-Sugar Land, TX
- Detroit-Warren-Dearborn, MI
- Dallas-Fort Worth-Arlington, TX
- Atlanta-Sandy Springs-Alpharetta, GA
- Riverside-San Bernardino-Ontario, CA
- Baltimore-Columbia-Towson, MD
- Providence-Warwick, RI-MA
- Minneapolis-St. Paul-Bloomington, MN-WI
- New Orleans-Metairie, LA
- Stamford-Norwalk-Danbury, CT
- Tampa-St. Petersburg-Clearwater, FL
- Detroit-Ann Arbor-Flint, MI
- Denver-Aurora-Lakewood, CO
- Charlotte-Concord-Gastonia, NC-SC
- Nashville-Davidson--Murfreesboro--Franklin, TN
- Indianapolis-Carmel-Anderson, IN
- San Francisco-Oakland-Berkeley, CA
- Orlando-Daytona Beach-Port Orange, FL
- Bridgeport-Stamford-Norwalk, CT
- Seattle-Tacoma-Bellevue, WA
CBSAs are initially filtered to include the top 30 metro areas based on number of results reported in the area, then are ranked based on the current percent positive on a 7-day window. 7-day positive percent is calculated as total positive results in trailing 7 days / total test results in trailing 7 days.
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**TRENDS IN MIAMI-FORT LAUDERDALE-POMPANO BEACH, FL**

**Daily Tests Completed (7 day avg.)**

**% Positivity Rate (by result date 7 day avg.)**

**Daily COVID-19 Cases**

**Daily ED visits for CLI reported to CDC as a % of all ED visits**

**Sources:** Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)

Testing & hospital data based on best available data in HHS Protect

**COVID-19 SNAPSHOT**

- **POSITIVITY RATE:** 15.5%
- **NEW CASES PER 100K / DAY:** 39 (weekly avg.)
- **TESTING PER 100K / DAY:** 198 (weekly avg.)
- **BED UTILIZATION:** 75%

**WEEK-ON-WEEK CHANGES**

- **POSITIVITY RATE:** +2.1%
- **INCIDENCE:** +90%
- **TESTING PER 100K / DAY:** +42%
- **BED UTILIZATION:** -2%

**RISK FACTORS**

- **POPULATION DENSITY:** 1221 per sq mi
- **% OVER 60:** 24%
- **CRUDE CVD PREVALENCE:** 3.7%

*Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received*
**TRENDS IN HOUSTON-THE WOODLANDS-SUGAR LAND, TX**

### COVID-19 Snapshot
- **Positivity Rate**: 21.4%
- **New Cases Per 100K / Day**: 21 (weekly avg.)
- **Testing Per 100K / Day**: 208 (weekly avg.)
- **Bed Utilization**: 64%

### Week-on-Week Changes
- **Positivity Rate**: +3.3%
- **Incidence**: +14%
- **Testing Per 100K / Day**: +50%
- **Bed Utilization**: -1%

### Risk Factors
- **Population Density**: 847 per sq mi
- **% Over 60**: 16%
- **Crude CVD Prevalence**: 3.5%

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Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)

Testing & hospital data based on best available data in HHS Protect

*Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received*
Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received

Not enough CLI syndromic surveillance data to display
TRENDS IN PHOENIX-MESA-CHANDLER, AZ

Daily Tests Completed (7 day avg.)
% Positivity Rate (by result date 7 day avg.)
Daily COVID-19 Cases
Daily ED visits for CLI reported to CDC as a % of all ED visits

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs)
Testing & hospital data based on best available data in HHS Protect

* Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received
**TRENDS IN MILWAUKEE-WAUKESSHA, WI**

**COVID-19 SNAPSHOT**
- **Positivity Rate**: 6.8%
- **New Cases per 100K / Day**: 11 (weekly avg.)
- **Testing per 100K / Day**: 39 (weekly avg.)
- **Bed Utilization**: 85%

**WEEK-ON-WEEK CHANGES**
- **Positivity Rate**: +1.5%
- **Incidence**: +26%
- **Testing per 100K / Day**: +36%
- **Bed Utilization**: -2%

**RISK FACTORS**
- **Population Density**: 1083 per sq mi
- **% Over 60**: 22%
- **Crude CVD Prevalence**: 3.7%

Sources: Cases - USAFacts.org; ED visits - ESSENCE; COVID-19 test results - CELR (COVID Electronic Lab Reporting) state health department-reported data and HHS Protect laboratory data (provided directly to Federal Government from public health labs, hospital labs, and commercial labs).

Testing & hospital data based on best available data in HHS Protect.

*Most recent several days of testing data is incomplete until all test results come in; testing date is by date the result was received.*
Demographics of COVID patients in 11 Academic Medical Center

%Outpatient COVID

%Inpatient COVID

demographics USA

white  black  Hispanic
Decreasing inpatient COVID status with increasing income

- >74K: %Inpatient COVID: 10%, %Outpatient COVID: 18%
- 50-74K: %Inpatient COVID: 8%, %Outpatient COVID: 10%
- 25-49K: %Inpatient COVID: 5%, %Outpatient COVID: 15%
- <25K: %Inpatient COVID: 3%, %Outpatient COVID: 18%

Legend:
- %Inpatient COVID
- %Outpatient COVID
Co-morbidities driving mortality in Italy

Most common comorbidities observed in coronavirus (COVID-19) deceased patients in Italy as of May 2020

- Hypertension: 68.3%
- Type 2-Diabetes: 30.1%
- Ischemic heart disease: 28.2%
- Atrial fibrillation: 22.5%
- Chronic renal failure: 20.4%
- Chronic Obstructive Pulmonary Disease (COPD): 16.4%
- Heart failure: 16.2%
- Active cancer in the last 5 years: 15.8%
- Dementia: 15.8%
- Obesity: 11%
- Stroke: 10.2%
- Respiratory failure: 4.9%
Prevalence of Hypertension, 2017
U.S. Adults Ages 20 and Older

Age-Adjusted Prevalence (%)
- 24.3 - 27.2
- 27.3 - 28.2
- 28.3 - 30.0
- 30.1 - 31.9
- 32.0 - 38.6

Data Source:
BRFSS - Behavioral Risk Factor Surveillance System, CDC.

Self-report: "Have you ever been told by a doctor, nurse, or other health care professional that you have high blood pressure?"
Excludes women who reported being told only during pregnancy and respondents who reported they had been told that their blood pressure was borderline high or pre-hypertensive.
County-Level Diabetes Prevalence, 2007

Age-adjusted percent of adults older than age 20 who have diabetes

0 - 6.3%
6.4 - 7.5%
7.5 - 8.8%
8.9 - 10.5%
≥ 10.6%

Data Summary

- Increasing cases week over week with increased hospitalizations in AZ, TX, FL, CA, SC, GA – hitting historic high in new cases, substantial acceleration of cases in LA, Phoenix, Houston, Dallas, Miami, Jacksonville
- **4** States account for 50% of new cases with unfortunately increases in deaths
- **8** additional states over 1000 cases/day and increasing (NY, GA, NC, LA, OH, TN, LA, SC)
- Uniform use of masks in all metros, closing bars, limiting indoor dining to under 50% - with increasing social distanced outdoor dining
- **13** states with rising cases and percent positive cases: most concerning are CA, TX, FL, SC, AZ, GA – with early alerts for KS, MS, DE, WI, NV, ID, TN, LA – rate of rising cases in LA and New Orleans and BR must be addressed
- **28** states with rising cases or rising test positive rate, 10 states and DC stable
- **154** USA counties with significant increasing cases triggering the emerging county alert
- States with greater than 10% test positives (7-day average): TX, AZ, FL, MS, SC, AL, GA, TN, LA, NV: TX and AZ now nearly 20%
- Metros with greater than 10% positives (7-day average) many approaching 20%: Phoenix, Houston, Dallas, Austin, San Antonio, Miami, Orlando, Tampa, Jacksonville, Los Angeles, Las Vegas, Riverside, Atlanta, Nashville, Memphis, Charleston, Charlotte (Talked to the Texas metros yesterday)
**Actions**

- **Deployment** of interagency Federal team to both the “hot” states and the states in “yellow” status to ensure joint understanding of the data, the actions necessary to control the pandemic and specifically meeting with local community members to ensure actions are planned with and executed with the community; continued focus on protecting those most vulnerable to severe disease and stopping community spread.

- **Weekly comprehensive data summaries and recommendations** to all Governors weekly.
- **Weekly call with Governors** as group and individually for specific states and to Mayors for specific metros.
- In every county and metro with increase cases and increasing percent positive need to intensify community testing and with isolation of positive individuals and messages of testing in all multigenerational households: **neighborhood level HOUSEHOLD POOLED TESTING with isolation of households and follow-up individuals tests and full activation of the local university researchers to support pooled testing**.
- **Aggressive outreach and partnership with local community groups** and NGOs to expand testing, importance of knowing your status and protecting yourself and others in your community.
- Move beyond IHS to specific tribal leaders and ensure response supports the Tribal Nations.

- **Intensify pooled and individual testing** of nursing home employees and agricultural workers and the communities surrounding them to enhance protection of the vulnerable and stop community spread: must mandate weekly testing of LTCF staff weekly in all areas with rising cases.
- **PSAs for plasma collection** to ensure increases availability at all hospitals with new cases, ensuring Remdesivir is available to all states and enhanced supply to states with increasing hospitalizations.
- **Mandate social distancing and masks in public** in exploding metros and counties as well as specifically move to only outdoor options for dining and bars.