The new year of COVID-19: the state of the

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MARCH 12, 2021
One Year of COVID-19

12/31/19 – WHO is alerted to reports of unusual outbreak of pneumonia in Wuhan, China

1/11/2020 – The genetic sequence of a novel Coronavirus is made available. First report of a death in Wuhan from SARS-CoV-2

1/20/20 – Washington State confirms first case in the US in a traveler from China

2/6/20 – First US death confirmed

2/26/20 – Vice-President Pence appointed to lead White House Coronavirus Task Force

3/1/20 – First case of COVID-19 reported in New York City

3/11/20 – WHO announces that COVID-19 is officially a pandemic

3/13/20 – President Trump declares a national emergency

3/16/20 – Trump administration announces 15 days of “Social distancing” (later extended to 45 days)

3/17/20 – COVID-19 identified in all 50 States

3/26/20 – 1,000 U.S. Deaths confirmed
One Year of COVID-19

3/27/20 - $2.2 Trillion CARES Legislation is passed

4/24/20 – 50,000 U.S. Deaths Confirmed

5/15/20 – Operation WARP Speed is launched to begin vaccine development

5/27/20 – 100,000 U.S. Deaths Confirmed

6/20/20 – Advance purchase agreements are signed with Pfizer and Moderna contingent on successful Phase 3 trials

8/7/20 – Motorcycle rally in Sturgis, North Dakota becomes a “superspreader” event

9/22/20 – 200,000 U.S. Deaths Confirmed

9/26/20 – White House Rose Garden gathering for new Supreme Court designee becomes a “superspreader” event
One Year of COVID-19

10/2/20 – President Trump tests positive for COVID-19

12/11/20 – FDA Grants EUA to Pfizer-BioNTech vaccine

**12/14/20 – 300,000 U.S. Deaths Confirmed**

12/30/20 – B.1.1.7 variant from the U.K. is detected. Other variants emerge in South Africa and Brazil

**1/19/20 – 400,000 U.S. Deaths Confirmed**

1/20/21 – Joseph Biden sworn in as the 46th President of the United States

**2/22/21 – 500,000 U.S. Deaths Confirmed**
The Numbers

✓ Globally > 119 Million cases & > 2.6 M deaths
  ✓ ~ 50% of deaths in: US (20%); Brazil (10%); Mexico (7%); India (7%) & U.K. (5%)

✓ US > 29.9 Million cases & > 543,000 deaths
  ✓ CA has > 3.6 M cases
  ✓ TX has > 2.7 M cases
  ✓ FL, NY, IL and GA have > 1 M cases
  ✓ GA ~ 1 million cases (97,000 cases per million pop)

✓ India and Brazil > 11 M cases
✓ Russia & U.K. > 4 M cases
✓ France, Spain & Italy > 3 M cases
✓ Turkey, Germany, Colombia, Argentina & Mexico have > 2 M cases
COVID-19 Cases and Deaths in Georgia

Cases = 832,480

Deaths = 15,784

HHS Community Profile Report 08Mar2021

#5 in US for new cases per 100,000
#2 in US for new deaths per 100,000
#2 in US for COVID percentage of all inpatients
# ATL STRONG

## Gatekeeping Metrics: Disease Spread Indicators

### New COVID Cases (7-day trailing avg.)
- **Red Zone**: > 250
- **Yellow Zone**: 75 – 249
- **Green Zone**: 20 – 74
- **Blue Zone**: < 20

- **Current Trend**
  - 25 Days Trending in the Yellow Zone since 2/14

- **10-day Target**
  - 10 Days Yellow Zone trend

### Avg. % Positive Test Results (7-day trailing avg.)
- **Red Zone**: > 10%
- **Yellow Zone**: 5.1 – 10%
- **Green Zone**: 1 – 5%
- **Blue Zone**: < 1%

- **Current Trend**
  - 6 Days Trending in the Green Zone since 3/5

- **10-day Target**
  - 10 Days Yellow Zone trend

### COVID Hospitalizations (7-day trailing avg.)
- **Red Zone**: > 350
- **Yellow Zone**: 201 – 349
- **Green Zone**: 50 – 200
- **Blue Zone**: < 50

- **Current Trend**
  - 6 Days Trending in the Yellow Zone since 3/5

- **10-day Target**
  - 10 Days Yellow Zone trend
New Indicators and Thresholds for Community Transmission of COVID-19* (reported over 7 days) (from CDC’s New Operational Strategy for K-12 Schools through Phased Mitigation)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Low Transmission</th>
<th>Moderate Transmission</th>
<th>Substantial Transmission</th>
<th>High Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category no longer exists. It has been merged into one low transmission (blue) category.</td>
<td>0-9</td>
<td>10-49</td>
<td>50-99</td>
<td>≥100</td>
</tr>
<tr>
<td>Percentage of NAATs that are positive during the past 7 days***</td>
<td>&lt;5.0%</td>
<td>5.0%-7.9%</td>
<td>8.0%-9.9%</td>
<td>≥10.0%</td>
</tr>
</tbody>
</table>

*If the two indicators suggest different levels, the actions corresponding to the higher threshold should be chosen. County-level data on total new cases in the past 7 days and test percent positivity are available on the County View tab in CDC’s COVID Data Tracker.
09Mar2021 CDC Community Transmission Rankings

High: 97 counties
Substantial: 35 counties

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Moderate: 21 counties
Low: 6 counties

Based on recent case rate + recent PCR test positivity
Case rate = how intense is the disease burden?
Test positivity = how much are we undercounting disease burden?
LANDING THE COVID-19 PLANE
Five states are rolling back mask mandates. More could be on the way. Here's what it could mean for all of us.

Christal Hayes USA TODAY
Published 10:20 p.m. ET Mar. 3, 2021 | Updated 1:34 p.m. ET Mar. 4, 2021

Other states:
• Mississippi
• North Dakota
• Montana
• Iowa
Getting back to pre-pandemic life

We need to get back to a disease burden that doesn’t overwhelm hospitals or cause lots of death.

How do we get there?
- Non-pharmaceutical interventions (NPIs): mask wear, social distancing, limited gatherings, proper ventilation
- Vaccines

Where we are now

Vaccines

NPIs

Where we will be, hopefully this summer

Vaccines

NPIs
910,455 Georgians fully vaccinated

996,770 Georgians with natural infection

1,907,225* possibly immune (18% of GA population)

Herd Immunity for COVID-19 is estimated to be 70-90%
Governor Brian P. Kemp @GovKemp · 1h
We appreciate the partnership between @FultonInfo, the Biden administration, @GeorgiaEMAHs, @GaDPH, and @MBStadium to get more vaccines administered in Georgia. #gapol

Greg Bluestein @bluestein · 1h
The Biden administration just announced the Mercedes-Benz Stadium in downtown Atlanta will serve as a federally-run vaccine site capable of administering 6K shots each day. #gapol

Show this thread
65+ % of Population: 17%

Cumulative Deaths
520,028
65+ % of COVID Deaths 80%
416,022

65+ Odds of Death From COVID As Of Yesterday: 1 in 132
1 in 88

65+ Odds of Death From COVID End of This Year (Forecast)
Vaccine Efficacy: 95%
65+ Odds of Death AFTER COVID Vaccination
less than 1 in 23,000

% of US Fully Vaccinated*: 8.8%
% of US First Dose Only*: 17.2%

Among 65+ who died of COVID, Average Number of Years of Life lost, after controlling for co-morbidities: 8 years
Vaccines reduce infections, as well as risk of hospitalisation and death

Impact of Pfizer’s vaccine on outcomes of exposure to SARS-CoV-2
Estimate based on data from Britain and Israel

- Hospitalised and survived: 270
- Symptomatic, treated at home: 7,800
- Asymptomatic: 1,850

10,000 unvaccinated people infected with SARS-CoV-2
Change in infections: -66%

Died: 80
10,000 infected unvaccinated people
If all had received one vaccine dose: -84%

Change in infections: -89%
If all had received two doses:

*No data on deaths
### US COVID-19 Cases Caused by Variants

**Updated Mar. 9, 2021**

<table>
<thead>
<tr>
<th>Variant</th>
<th>Reported Cases in US</th>
<th>Number of Jurisdictions Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.1.1.7</td>
<td>3701</td>
<td>50</td>
</tr>
<tr>
<td>B.1.351</td>
<td>108</td>
<td>23</td>
</tr>
<tr>
<td>P.1</td>
<td>17</td>
<td>10</td>
</tr>
</tbody>
</table>

**Emerging Variant Cases in the United States**

![Map of the United States with variant cases](https://www.cdc.gov/coronavirus/2019-ncov/transmission/variant-cases.html)

- **Number of Cases**
  - 0 to 0
  - 1 to 100
  - 101 to 200
  - 201 to 300
  - 501 to 600
  - 601 to 700

- **Filters**
  - Variant B.1.1.7

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COVID-19 in 2021—Continuing Uncertainty

- Which vaccine is best and how should the be prioritized?
- Do vaccines protect against infection and prevent transmission?
- What is the best way to address vaccine hesitancy?
- What is safe for people to do once fully vaccinated?
- Are the current vaccines effective against variants?
- How long can people wait between doses?
- Can vaccines be mixed and matched?
- What happens if individuals receive only 1 dose?
- How long will immunity last?
- Will COVID-19 become endemic?

https://jamanetwork.com/journals/jama/fullarticle/2777391
Conclusions – March 12, 2021

1. The COVID-19 pandemic has caused enormous pain and suffering in our country.
   1. > 500,000 deaths
   2. In 2020, the U.S. GDP contracted 3.5%

2. There has been a disproportionate impact in minorities and the poor.

3. There are the best of times (vaccines), this is the worst of times (variants and premature lifting of restrictions).

4. The U.S. was not prepared for a pandemic of this magnitude.

5. The recovery will be slow and will require resources and compassion.

6. The U.S. will not be safe until all countries are safe
Acknowledgements:
Amber Schmidtke, Ph.D.

https://amberschmidtkephd.substack.com/
COVID-19 Vaccine And The Black Community, A Tyler Perry Special

Tune in Thursday, January 28, at 9 PM ET/PT.

https://www.youtube.com/watch?v=M5bq8Tt89U
Questions?

“By failing to prepare, you are preparing to fail.”
Benjamin Franklin

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