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## Data Insights: Covid-2019 Monitor

Tuesday, December 1, 2020

### The global scorecard



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## The US scorecard







Source: Distributions <u>CDC</u>, Comorbidities <u>CDC</u>, TrendMacro calculations

## Recommended reading

# Pence Says Covid Vaccine Distribution Could Begin

<u>Mid-December</u> Josh Wingrove and Dina Bass *Bloomberg* November 30, 2020

#### Top Trump Coronavirus Adviser Scott Atlas Resigns His Post

Justin Sink and Josh Wingrove *Bloomberg* November 30, 2020

# Remote learners feel shortchanged in districts

<u>pressured to reopen in person</u> Bracey Harris and Caroline Preston

*The Hechinger Report* November 22, 2020

### PARENTING NOV. 24, 2020

<u>Children of Quarantine What does a year of isolation</u> and anxiety do to a developing brain?

Lisa Miller *The Cut* November 24, 2020

# Meme of day

#### <u>NYC bar in COVID-19 hotspot refuses to shut down</u> after state vanks liquor license

Sara Dorn and C.J. Sullivan *New York Post* November 28, 2020

### An ancient coronavirus-like epidemic drove adaptation in East Asians from 25,000 to 5,000 years ago

Yassine Souilmi et al. *medRvx* November 16, 2020

## Airlines Face 'Mission of the Century' in Shipping

<u>Vaccines</u> Christopher Jasper and William Wilkes *Bloomberg* November 29, 2020



Source: Our beloved clients, and Power Line blog "The Week in Pictures"



The coronavirus <u>case</u> accelerometer... tracking the world's infection curves *Share of infected population from first day with 100 confirmed cases, log scale* 



The coronavirus <u>mortality</u> accelerometer ... tracking the world's fatality curves *Share of deceased population from day of first fatality* 

#### Our most reliable evidence of slowing exponential growth of Covid-2019 Vertical: days to double deaths Horizontal: days from first death Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread 150 150 400 China 283 days World 111 days World ex-China 111 days As of Nov 30 0 1 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 200 300 200 United States 138 days New York 226 days US ex-NY 126 days 0 0 0 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 1 150 200 200 Florida 108 days Arizona 126 days California 118 days 0 0 0 30 60 90 120 150 180 210 240 270 300 1 1 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 300 250 150 United Kingdom 210 days Canada 195 days Texas 103 days 0 0 0 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 200 300 300 Japan 116 days Germany 189 days France 204 days 0 0 1 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 300 300 300 Spain 220 days Switzerland 28 days Italy 215 days 0 0 0 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 1 300 300 100 S. Korea 195 days Iran 72 days Sweden 209 days 0 0 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 1 100 150 200 Israel 66 days Australia 104 days Africa 103 days 0 Λ 0 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 100 100 200 Russia 68 days Brazil 128 days India 88 days 0 30 60 90 120 150 180 210 240 270 300 1 30 60 90 120 150 180 210 240 270 300 30 60 90 120 150 180 210 240 270 300 1 1

Requirement to <u>Open Up America Again</u>: 14-day "downward trajectory" in new cases *14-day moving average, last 14 days Most recent value displayed* • High • Low Downward trajectory Five best Upward trajectory Five worst



Alt requirement to <u>Open Up America Again</u>: 14-day "downward trajectory" in pos tests *14-day moving average, last 14 days Most recent value displayed* • High • Low Downward trajectory Five best Upward trajectory Five worst



## Reality-checking the models: actuals versus IHME predictions

#### New daily fatalities

Actual versus first, highest, lowest and latest model mean predictions



As of Nov 30

#### **Cumulative fatalities**

Actual versus first, highest, lowest and latest model mean predictions



Healthcare system stress, peak and ultimate estimated at each model revision







The sun-belt hot-spot states (other than Texas)

#### Patient zero... and then everyone else 5,000 6.0% China As of Nov 30 4,500 0.67 bp of population infected 5.0% 4,000 0.03 bp of population mortalities 37.4 median population age 3,500 Cume fatality rate 5.11% Daily new cases and deaths 4.0% 3,000 2,500 2-week fatality rate 0.24% 3.0% 2,000 92,902 cases cumulative 2.0% +88 cases today 1,500 7-day moving average cases 1,000 4,743 deaths cumulative 1.0% +0 deaths today 500 0.0%







Source: Johns Hopkins, TrendMacro calculations

# Impact in The Anglosphere



Source: Johns Hopkins, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations

#### Impact in other hot-spots 900 3.0% South Korea 800 As of Nov 30 2.5% 6.68 bp of papulation infected 700 Daily new cases and deaths 0.10 bp of population fatalities 34,652 cases cumulative 600 +451 cases today 2.0% 41.8 median population age 500 Cume fatality rate 1.52% 1.5% 400 2-week fatality rate 1.46% 526 deaths cumulative +0 deaths today 300 1.0% 7-day moving average cases 200 0.5% 100 0.0% Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 Jul 7 1,600 1.2% Singapore 1,400 1,200 1,00<sup>7</sup> 8<sup>8</sup> 1.0% 102.07 bp of population infected 2-week fatality rate 0.96% 0.01 bp of population fatalities 34.6 median population age 0.8% 58,218 cases cumulative +5 cases today 0.6% Cume fatality rate 0.05% 0.4% 29 deaths cumulative +0 deaths today 0.2% 200 0.0% Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 8,000 16% Sweden 7,000 243,129 cases cumulative 14% 240.20 bp of population infected +6,774 cases today 6,000 5,000 4,000 3,000 12% 6.60 bp of population fatalities 40.9 median population age 10% Cume fatality rate 2.75% tatality rate 8% 2-week fatality rate 1.33% 6% Daily 2,000 4% 6,681 deaths cumulative +59 deaths today 1,000 2% 0% Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10

Source: Johns Hopkins, TrendMacro calculations





## Impact in the Middle East and Africa