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Data Insights: Covid-2019 Monitor

Thursday, October 22, 2020

The global scorecard



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The US scorecard

National and state-by-state data do not line up because of different sources



Source: States and test data Covid Tracking Project, US data ECDC, TrendMacro calculations

Recommended reading

Understanding COVID-19 vaccine efficacy

Marc Lipsitch and Natalie E. Dean *Science* October 21, 2020

Lung cancers 'may have been misdiagnosed as COVID' during pandemic

Sky News October 21, 2020

Are The Risks Of Reopening Schools Exaggerated?

Anya Kamanetz *NPR* October 21, 2020

<u>A Plague of Pandemic Restrictions Builds Herd</u> <u>Immunity to Arbitrary Rules</u>

JD Tucille *Reason* November 2020

Can Placebos Work—Even When Patients Know They're Fake?

Claudia Lopez Lloreda *Wired* October 20, 2020

Meme of day

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



Source: ECDC, TrendMacro calculations



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 200 200 500 China 249 days World 101 days World ex-China 100 days As of Oct 22 0 0 30 60 90 120 150 180 210 240 270 1 30 60 90 120 150 180 210 240 270 30 60 90 120 150 180 210 240 270 1 1 200 200 200 United States 135 days New York 187 days US ex-NY 119 days 0 0 0 30 60 90 30 60 90 120 150 180 210 240 270 1 120 150 180 210 240 270 1 30 60 90 120 150 180 210 240 270 1 100 100 100 Florida 75 days Arizona 92 days California 86 days 0 0 0 60 90 120 150 180 210 240 270 30 30 60 90 120 150 180 210 240 270 1 1 30 60 90 120 150 180 210 240 270 1 200 200 100 United Kingdom 181 days Canada 164 days Texas 72 days 0 0 0 30 60 90 120 150 180 210 240 270 1 30 60 90 120 150 180 210 240 270 30 60 90 120 150 180 210 240 270 1 200 200 200 Japan 150 days Germany 183 days France 190 days 0 0 0 60 90 120 150 180 210 240 270 30 60 90 120 150 180 210 240 270 1 30 60 90 120 150 180 210 240 270 30 1 1 500 200 300 Spain 192 days Switzerland 190 days Italy 195 days 0 0 0 30 60 90 120 150 180 210 240 270 30 60 90 120 150 180 210 240 270 30 60 90 120 150 180 210 240 270 1 1 1 200 200 100 S. Korea 190 days Iran 88 days Sweden 173 days 0 0 0 $30 \quad 60 \quad 90 \quad 120 \quad 150 \quad 180 \quad 210 \quad 240 \quad 270$ 30 60 90 30 60 90 120 150 180 210 240 270 1 120 150 180 210 240 270 1 100 100 200 Israel 37 days Australia 63 days Africa 81 days



0

100

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Russia 93 days

30 60 90 120 150 180 210 240 270

0

200

1

Brazil 97 days

30

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30 60 90 120 150 180 210 240 270

60 90 120 150 180 210 240 270

Source: <u>ECDC</u>, TrendMacro calculations

60 90 120 150 180 210 240 270

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100

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India 58 days

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



Source: Covid Tracking Project, TrendMacro calculations

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



Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

New daily fatalities

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



As of Oct 22

Cumulative fatalities

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



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



Source: ECDC, IHME, TrendMacro calculations



From Ground Zero to the Rio Grande

Source: ECDC, TrendMacro calculations



Source: <u>ECDC</u>, TrendMacro calculations



Patient zero... and then everyone else

Source: ECDC, TrendMacro calculations



Source: ECDC, TrendMacro calculations



Source: ECDC, TrendMacro calculations



Source: ECDC, TrendMacro calculations

Impact in other hot-spots



Source: ECDC, TrendMacro calculations





Impact in the Middle East and Africa