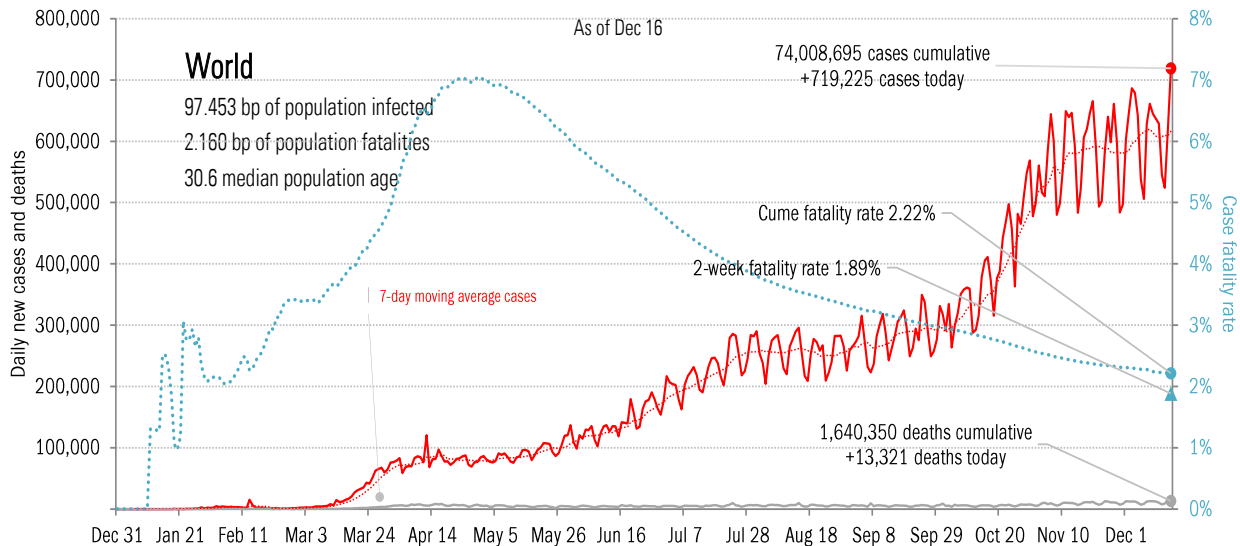
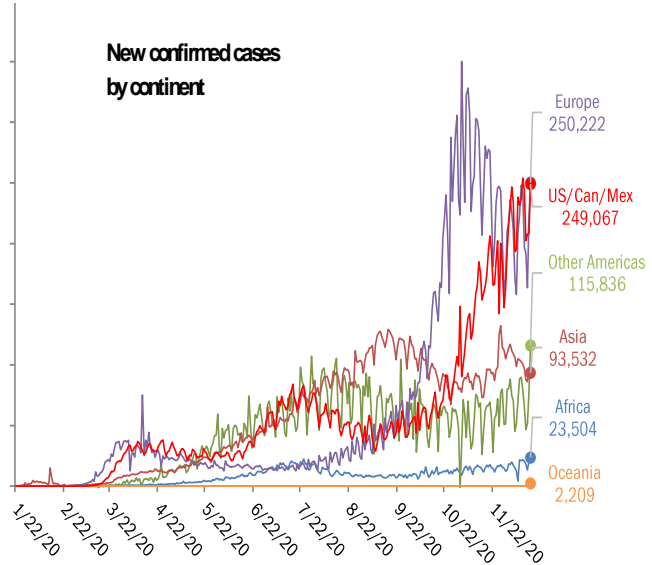


Data Insights: Covid-2019 Monitor

Thursday, December 17, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+232,258	United States	+3,448
Brazil	+70,574	Brazil	+936
Germany	+32,744	Germany	+729
Turkey	+29,718	Italy	+680
Russia	+26,074	Mexico	+670
United Kingdom	+25,300	United Kingdom	+612
India	+24,010	Poland	+605
France	+17,720	Russia	+584
Italy	+17,568	India	+355
Poland	+12,455	France	+290
+488,421		+8,909	
World	+719,225	World	+13,321
Top ten	68%	Top ten	67%



Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

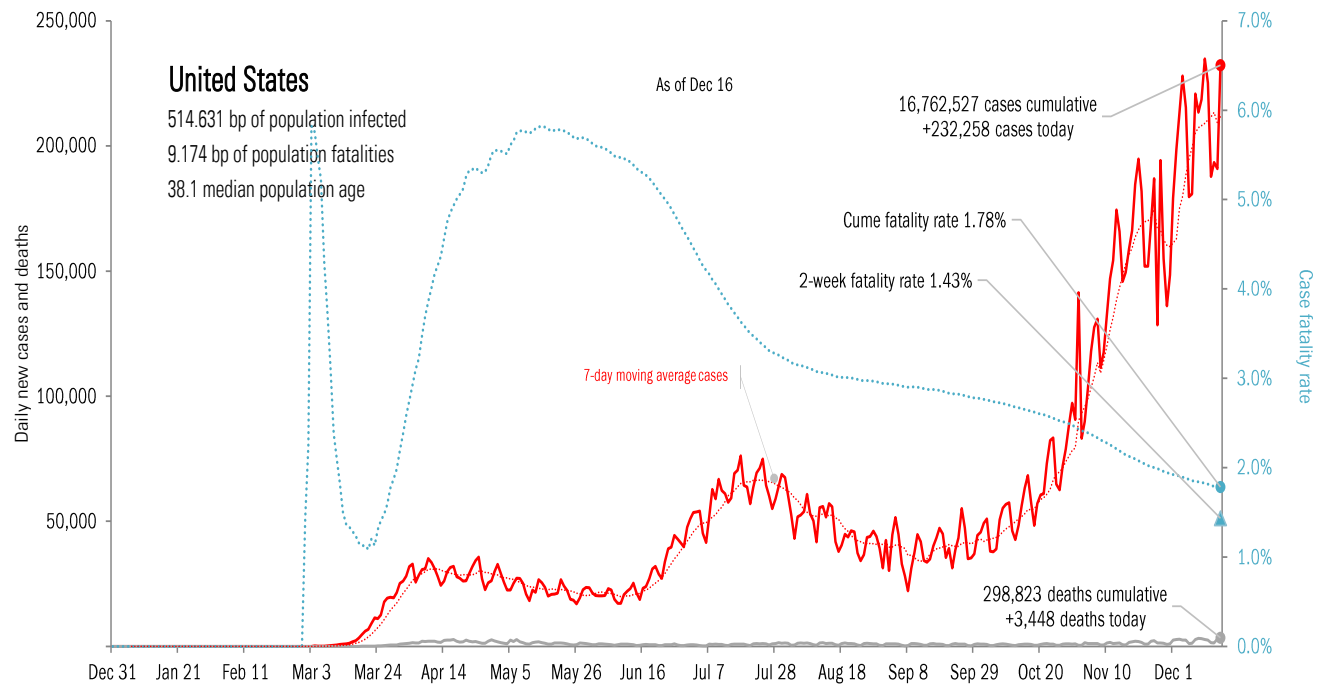
The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
CA	+53,711	CA	+293	CA	+688	CA	1,671,081	NY	28,100	NY	89,995
TX	+18,802	PA	+278	KS	+235	TX	1,519,340	TX	24,394	FL	59,751
TN	+11,410	TX	+252	NY	+115	FL	1,136,024	CA	21,481	NJ	44,461
FL	+11,282	IL	+190	AZ	+107	IL	870,600	FL	20,490	GA	38,418
PA	+10,049	KS	+144	NC	+76	NY	804,555	NJ	18,003	CH	33,375
NY	+9,998	IN	+133	TX	+56	CH	584,766	IL	15,777	IN	31,575
IL	+7,123	NJ	+131	FL	+53	PA	519,369	PA	13,168	AZ	31,468
IN	+6,208	FL	+125	PA	+51	GA	488,338	MI	11,588	AL	29,559
MA	+5,952	CH	+123	TN	+38	TN	484,285	MA	11,513	MD	23,908
NJ	+5,661	AZ	+108	WA	+37	MI	482,815	GA	10,228	MIN	19,980
+140,196		+1,777		+1,456		8,561,173		174,742		402,490	
All states	+232,258	All states	+3,448	All states	+276	All states	16,762,527	All states	298,823	All states	627,774
Top ten	60%	Top ten	52%	Top ten	528%	Top ten	51%	Top ten	58%	Top ten	64%

Some states not reporting

Five most improved US states

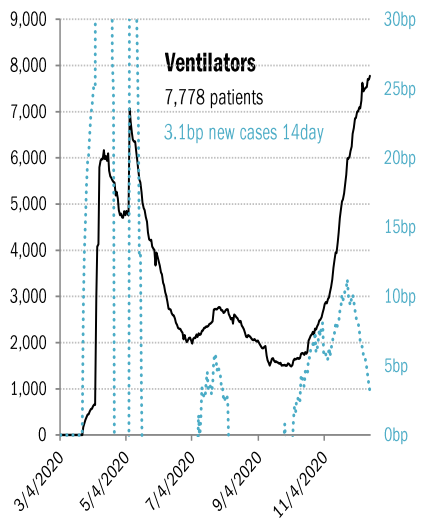
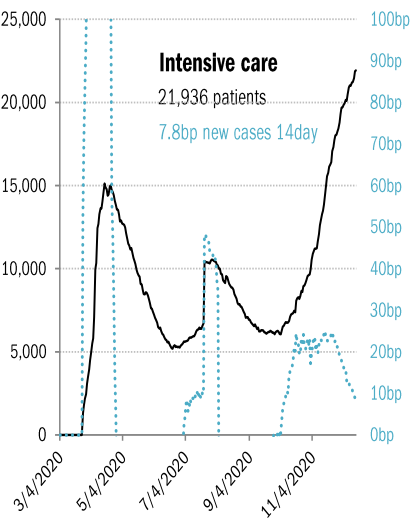
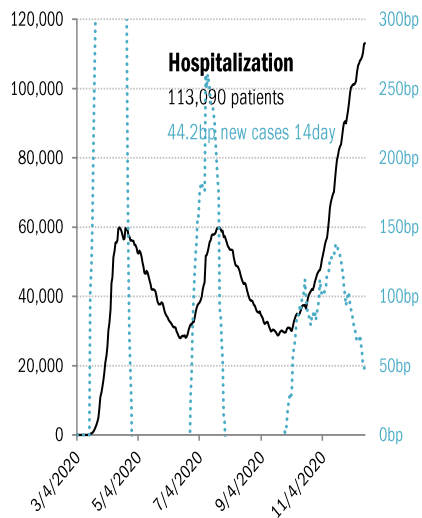
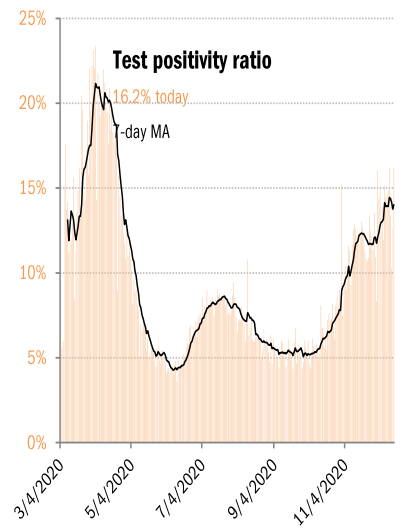
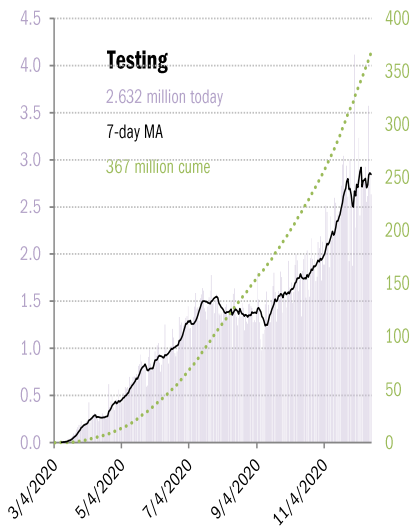
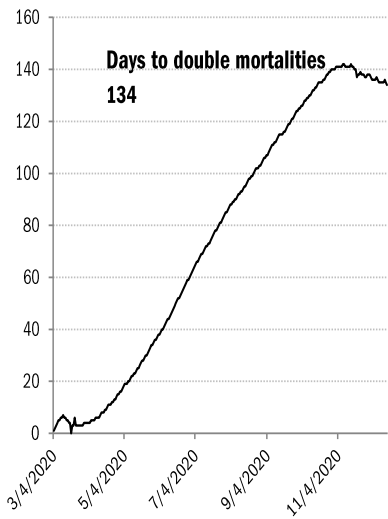
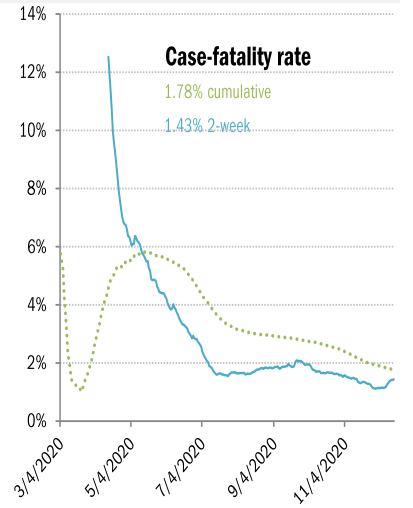
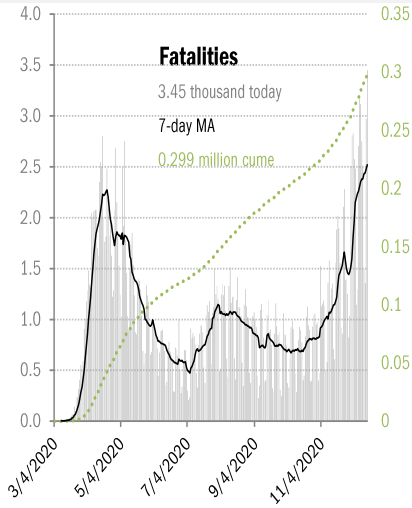
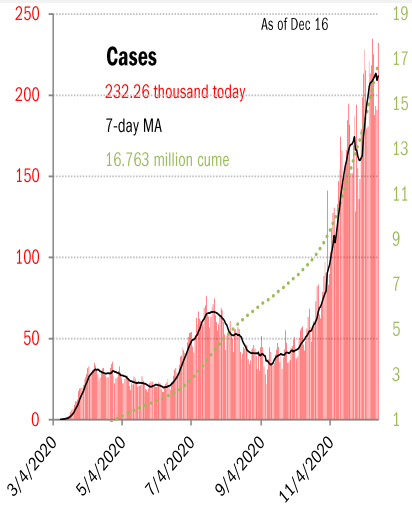
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CH	-3,346	MO	-195	NV	-383	LA	+14,795
WI	-1,233	MI	-113	CH	-292	TX	+13,017
MI	-747	IA	-53	PA	-218	CH	+11,218
GA	-626	CO	-45	IN	-194	PA	+11,022
WA	-462	NY	-34	IL	-186	AL	+8,820



Source: [Covid Tracking Project](#), TrendMacro calculations

US deep-dive

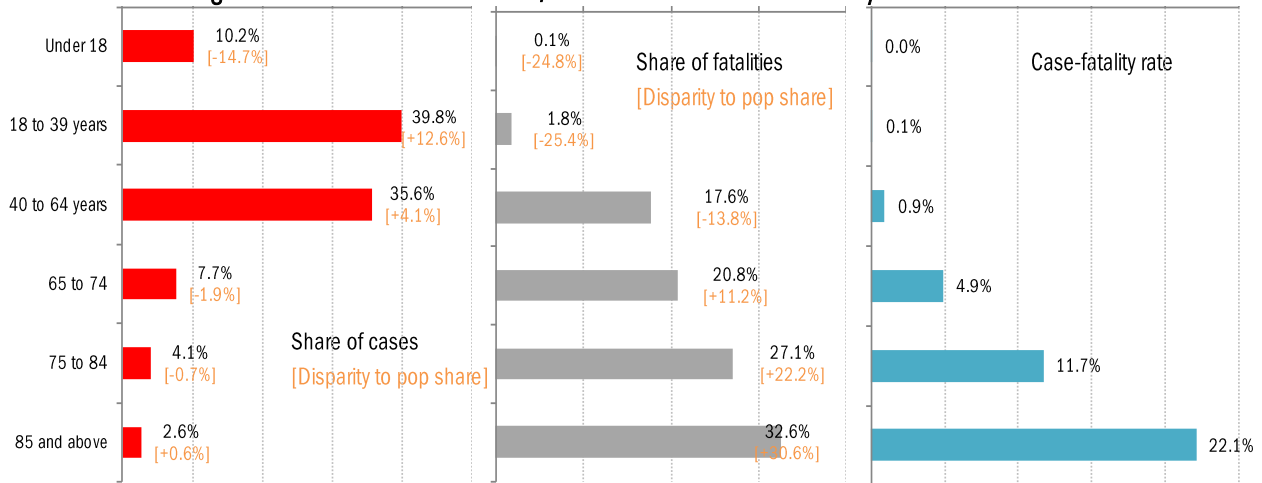
National and state-by-state data do not line up because of different sources



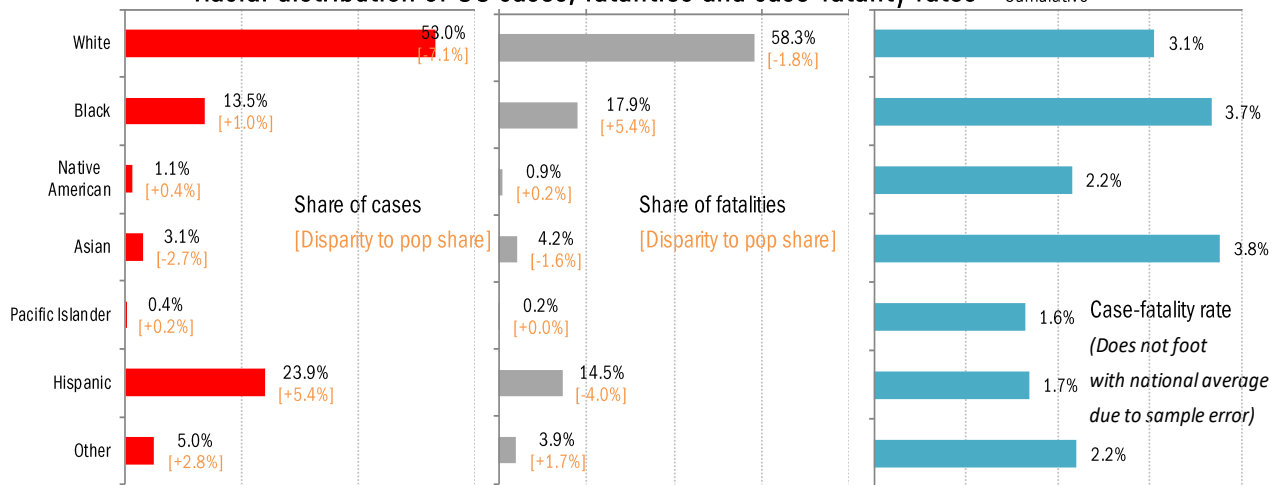
Source: [Covid Tracking Project](#), TrendMacro calculations

US deep-dive on the demographics of age, race and health

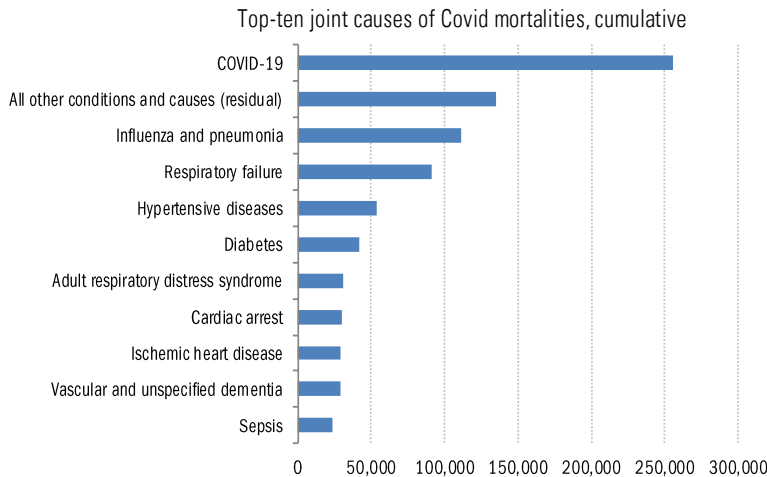
Age distribution of US cases, fatalities and case-fatality rates



Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[Rhode Island Governor Tells Citizens To 'Stay Home' Before Heading To Wine Bar](#) [\(edit\)](#)

Jordan Lancaster
Daily Caller
December 16, 2020

[Vaccination Campaign at Nursing Homes Faces Obstacles and Confusion](#)

Rebecca Robbins and Jessica Silver-Greenberg
New York Times
December 16, 2020

[Fauci tells Americans not to see their kids for Christmas](#)

Bradford Betz
Fox News
December 16, 2020

['The most lopsided economic event imaginable': Wave of evictions threatens Black, Latino tenants](#)

Katy O'Donnell and Janaki Chadha
Politico
December 14, 2020

[Vaccines vs. Lockdowns](#)

Holman Jenkins
Wall Street Journal
December 15, 2020

[They Stole It Fair and Square](#)

Steven Hayward
Power Line Blog
December 15, 2020

[Why the number '3' may make you rethink Covid hysteria](#)

Simon Black
Sovereign Man
December 15, 2020

[The Virus Trains: How Lockdown Chaos Spread Covid-19 Across India](#)

Jeffrey Gettleman, Suhasini Raj, Sameer Yasir and Karan Deep Singh
New York Times
December 16, 2020

[FT People of the Year: BioNTech's Ugur Sahin and Ozlem Tureci](#)

Joe Miller and Clive Cookson
Financial Times
December 16, 2020

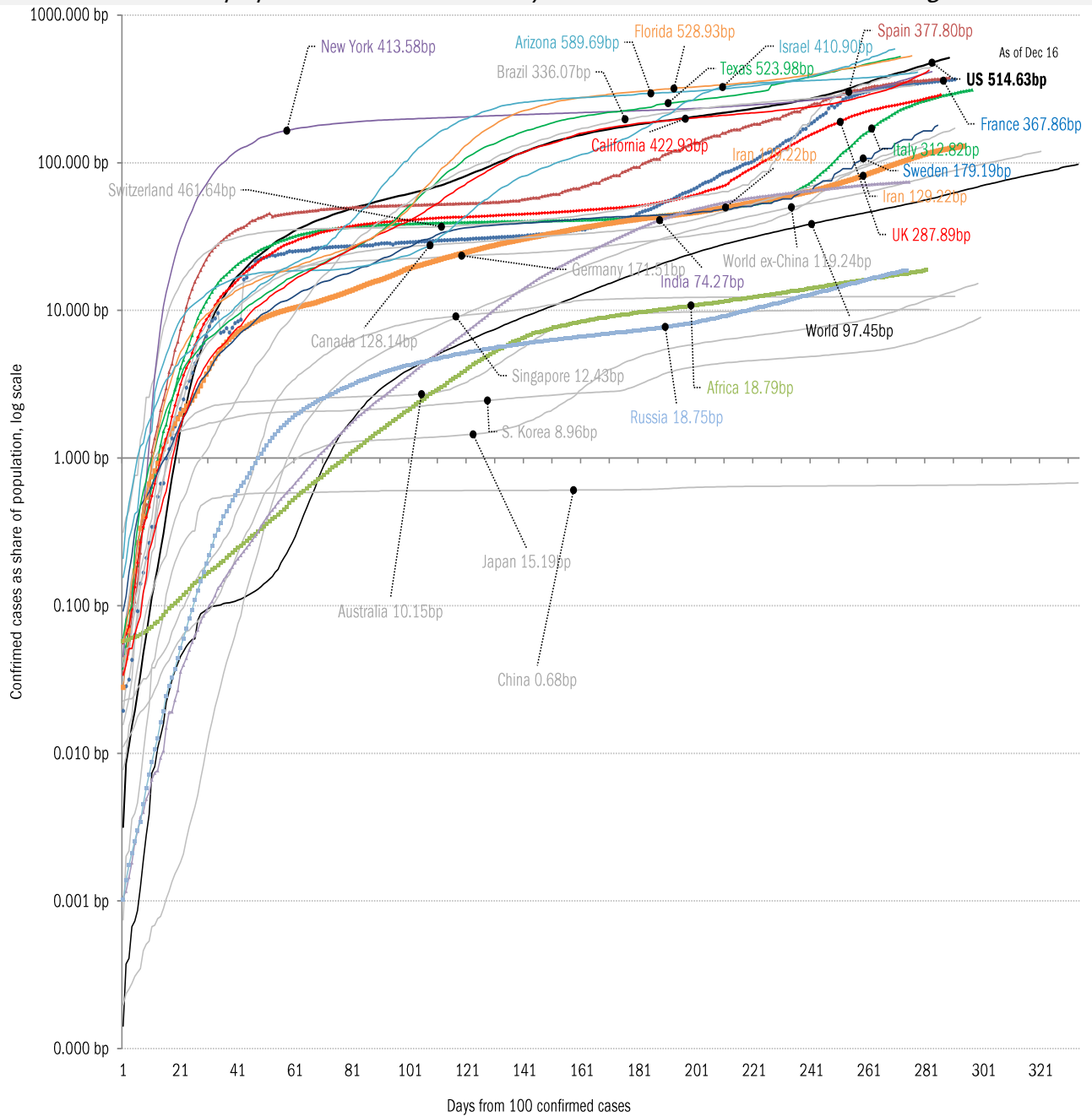
Meme of day



Time Traveler Arrives From 3000 A.D. And Oh No! He's Still Wearing A Mask!

Source: Our beloved clients, and [Power Line blog "The Week in Pictures"](#)

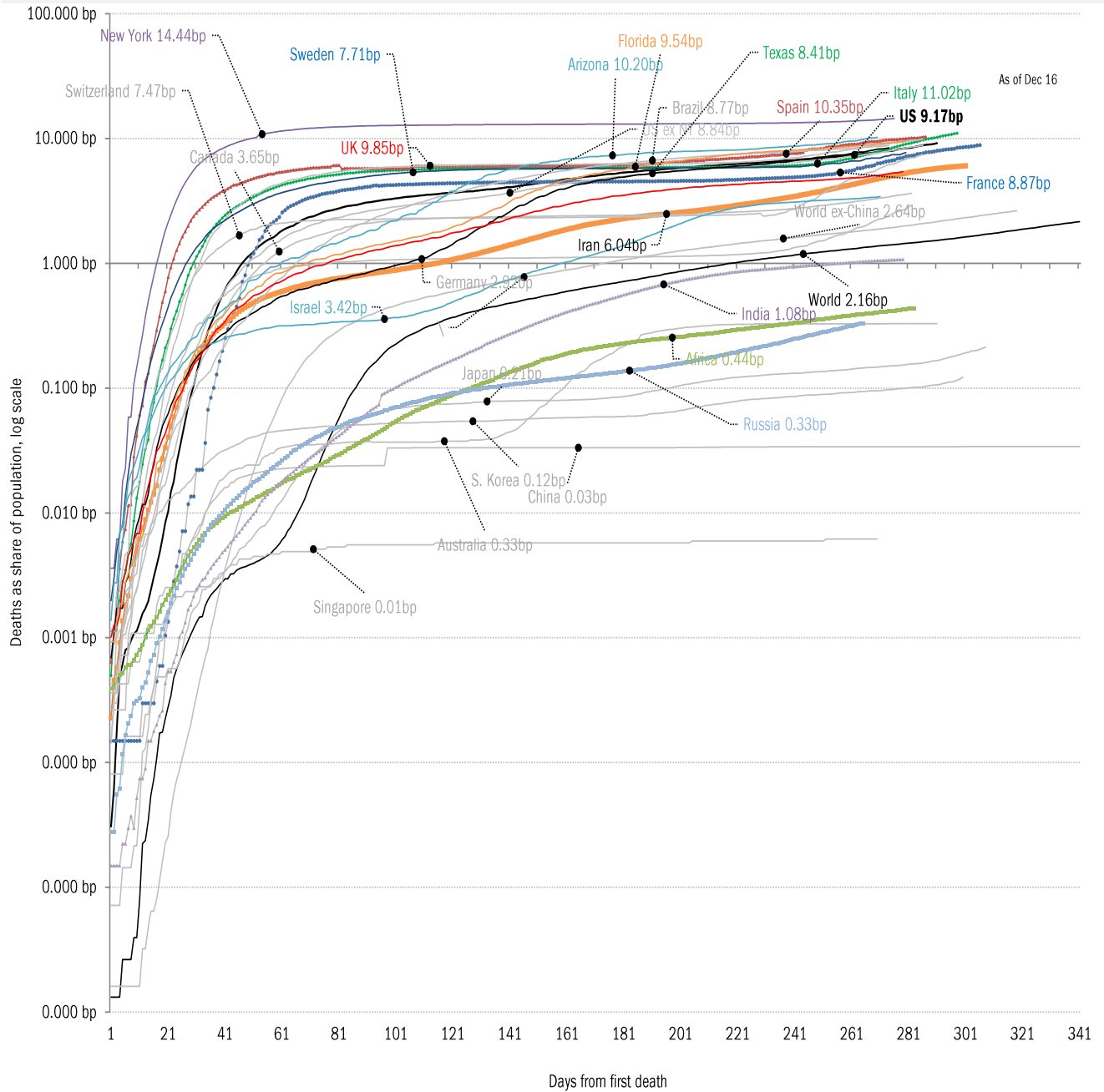
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

The coronavirus mortality accelerometer ... tracking the world's fatality curves

Share of deceased population from day of first fatality

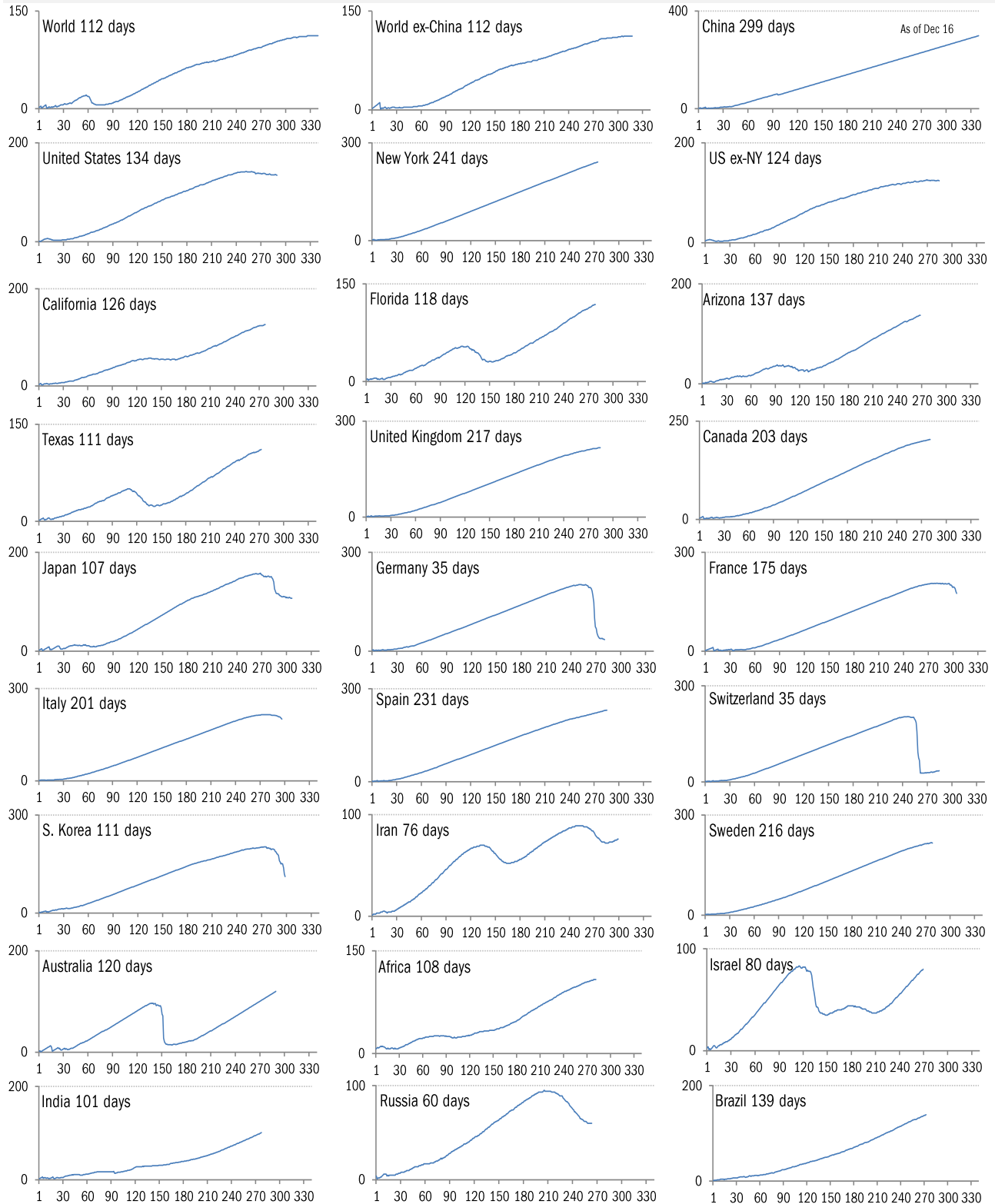


Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

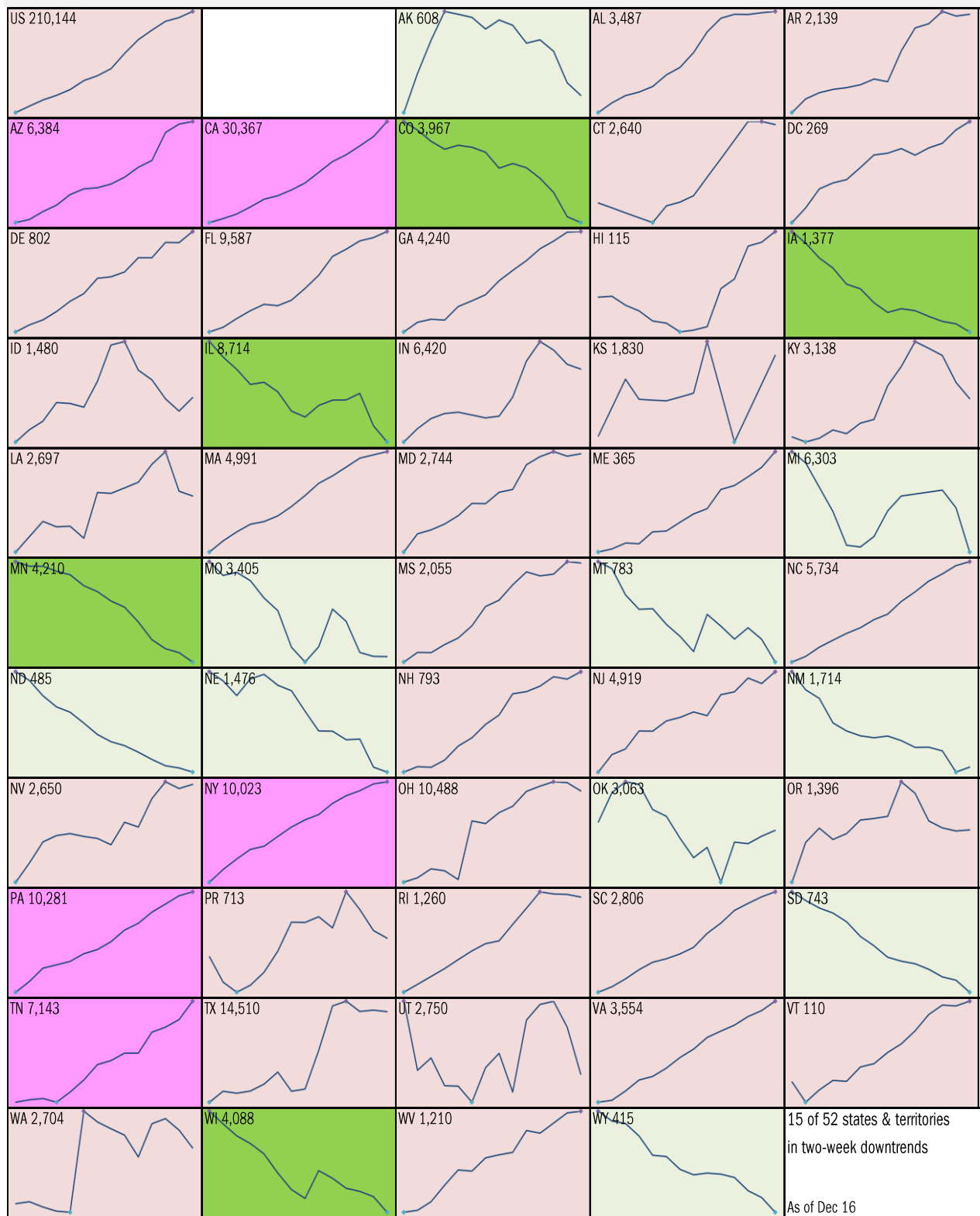
Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Requirement to [Open Up America Again](#): 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 [Open Up America Again](#): 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



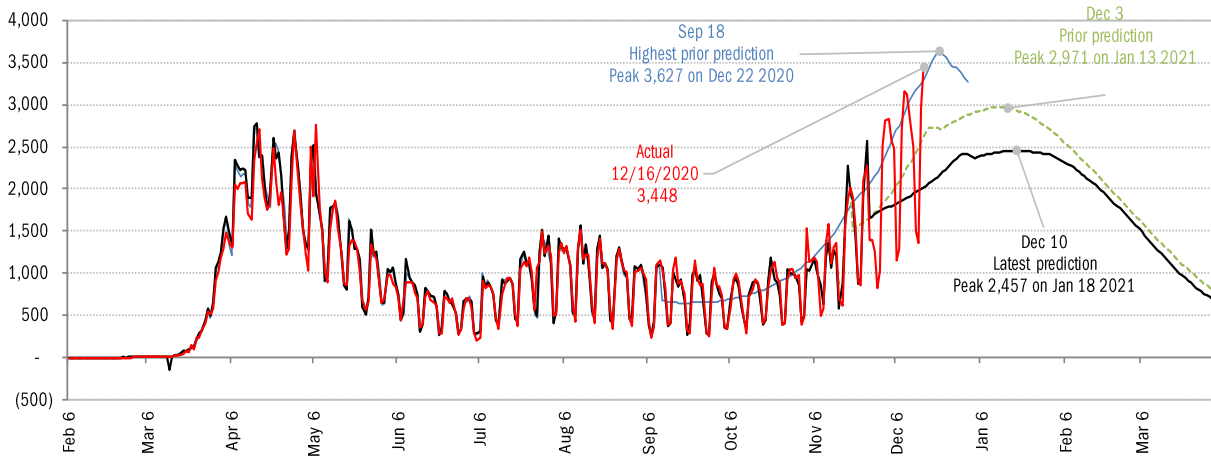
Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus [IHME predictions](#)

New daily fatalities

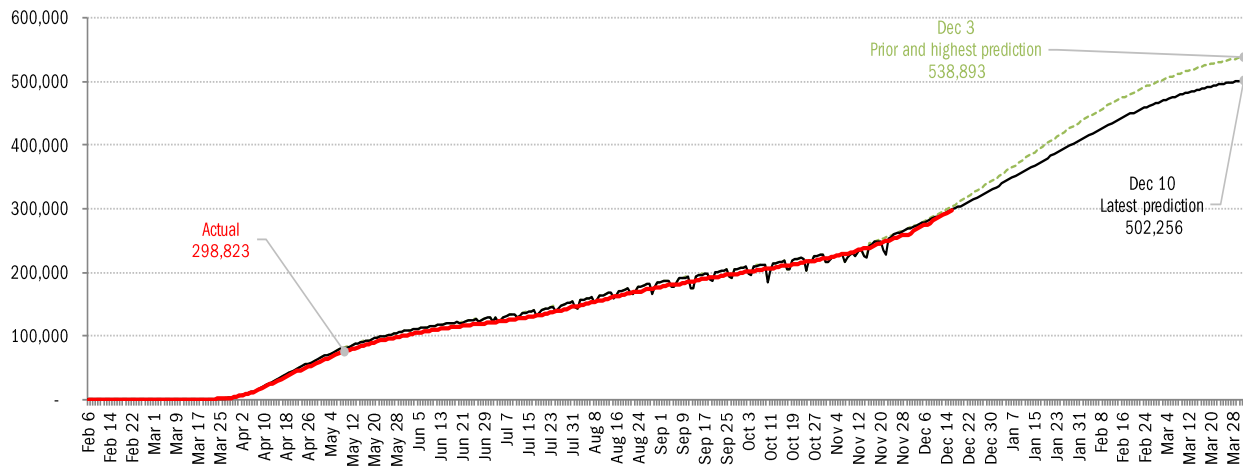
As of Dec 16

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

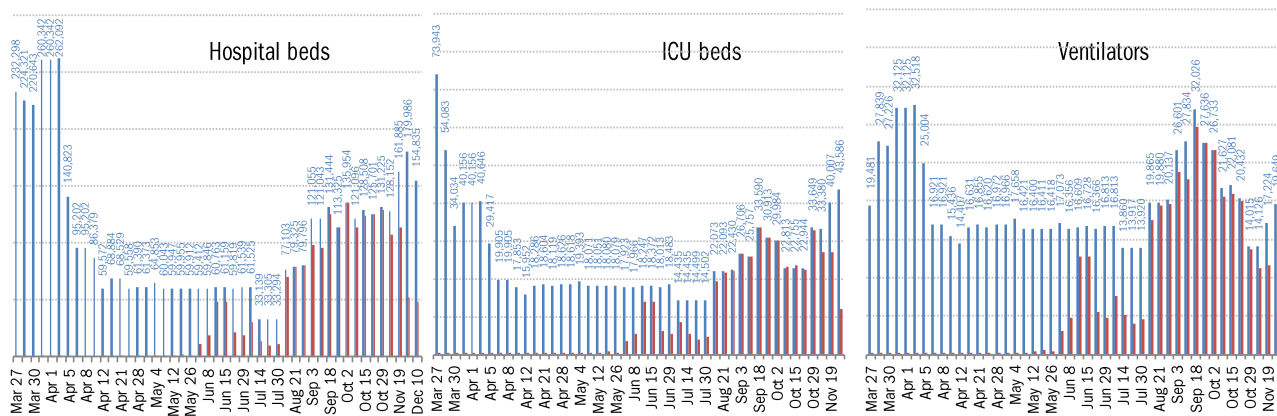


Cumulative fatalities

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

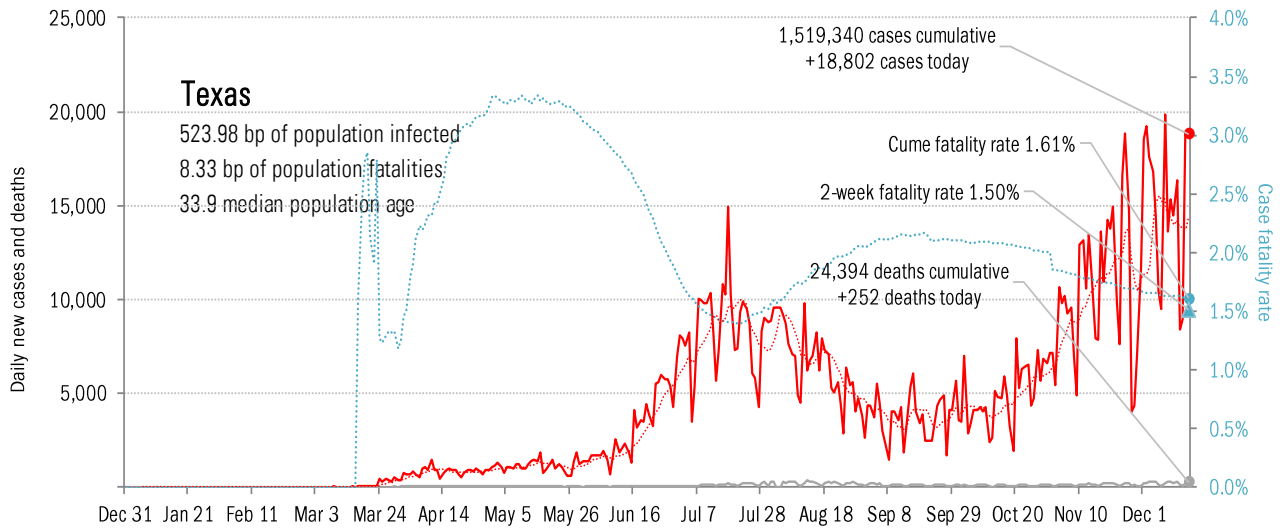
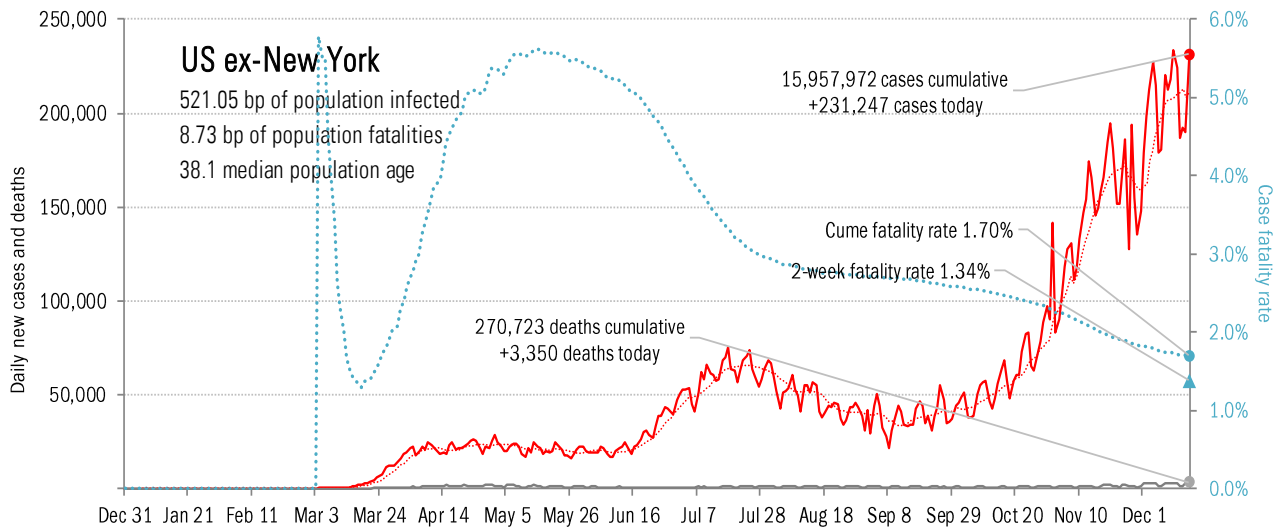
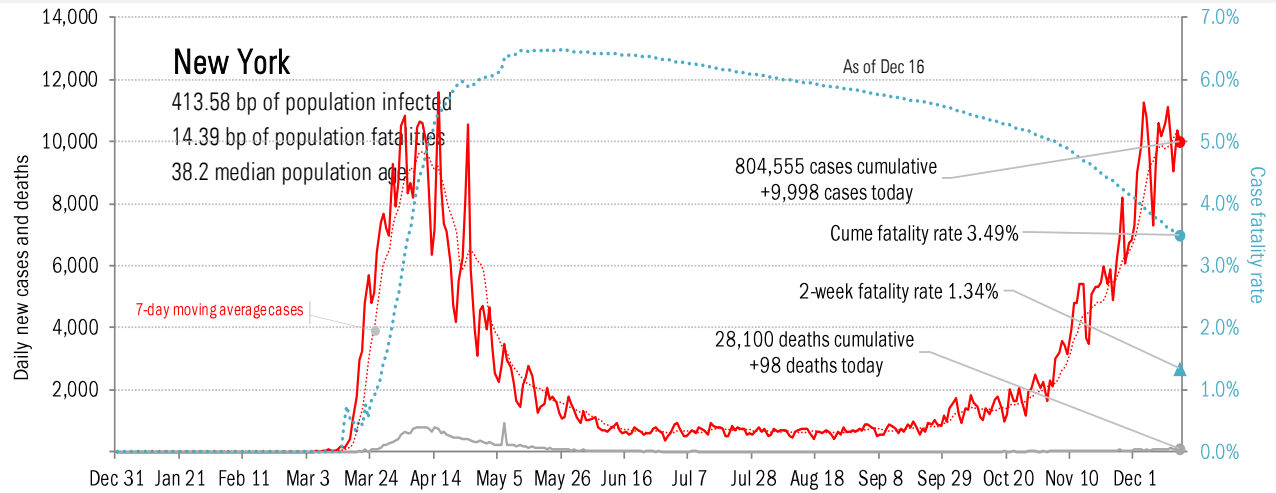


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



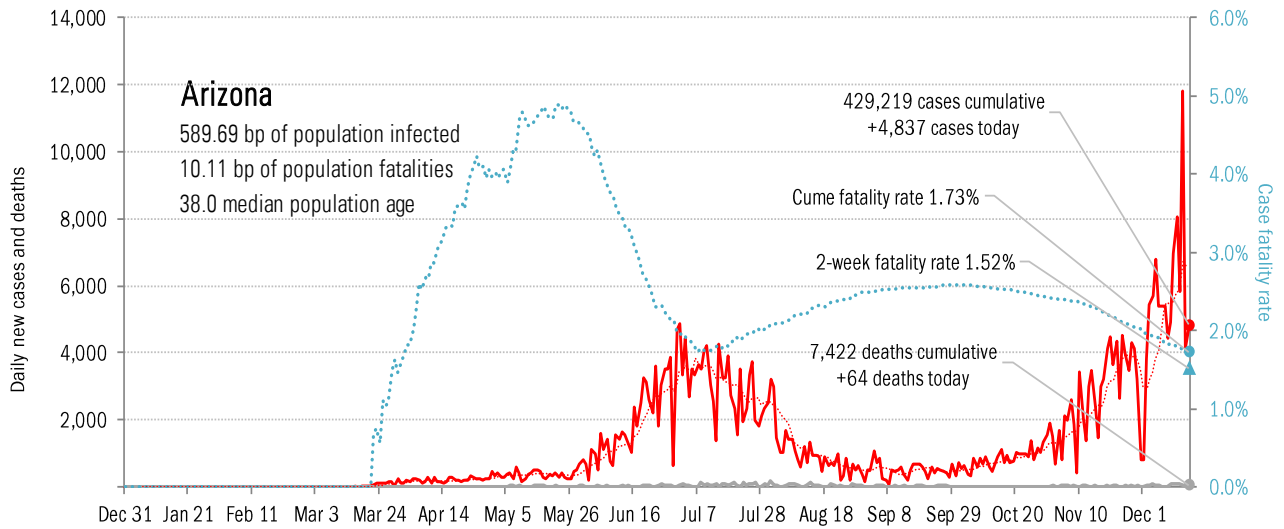
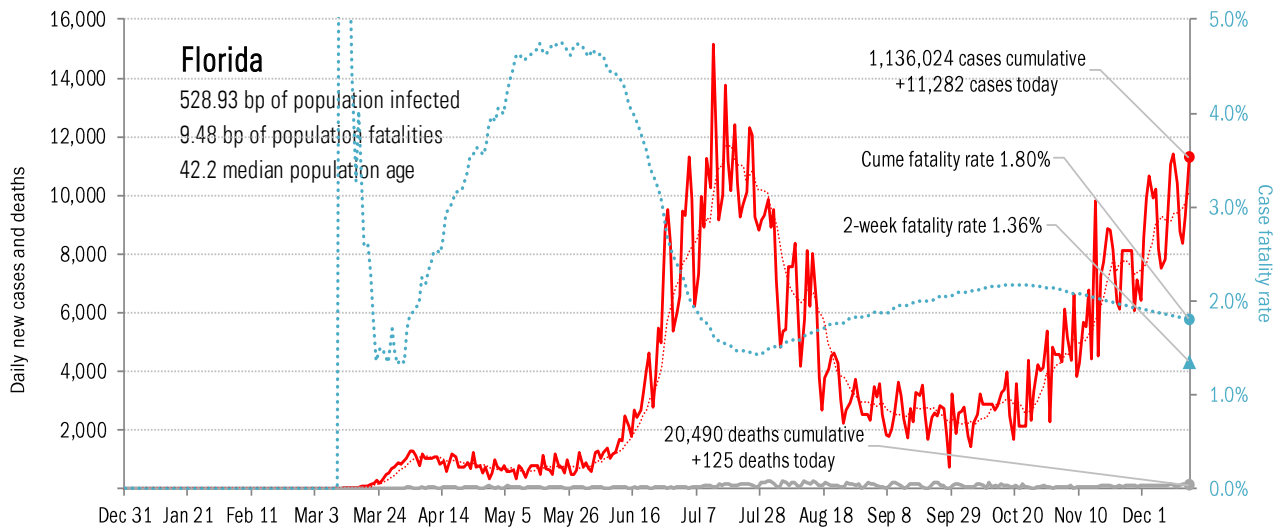
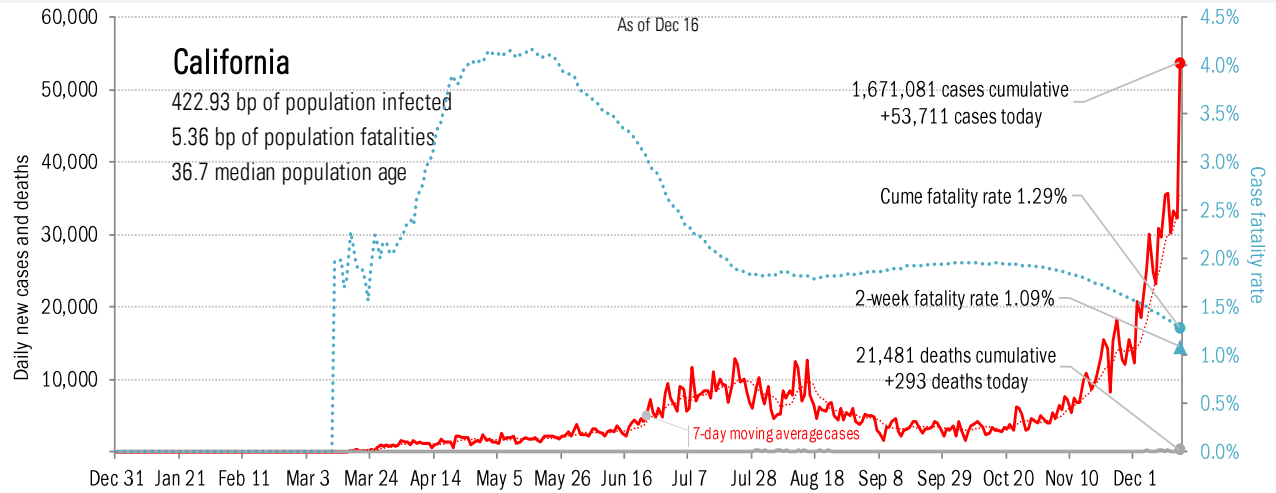
Source: [IHME Covid Tracking Project](#), TrendMacro calculations

From Ground Zero to the Rio Grande



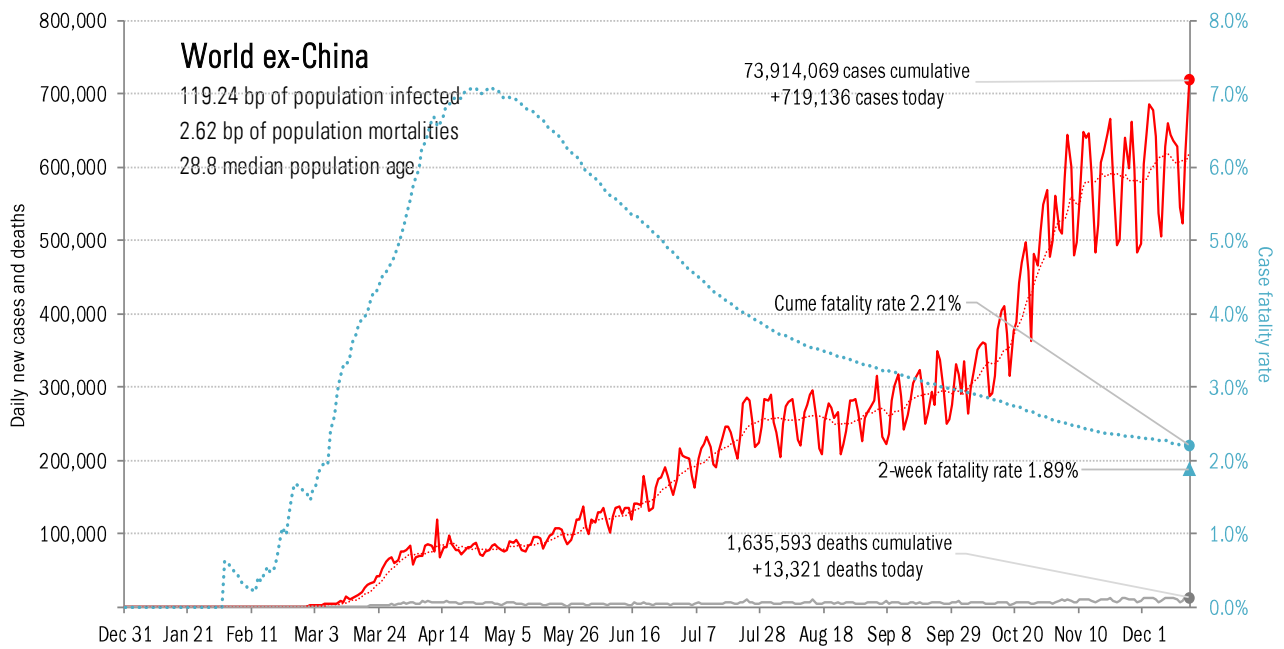
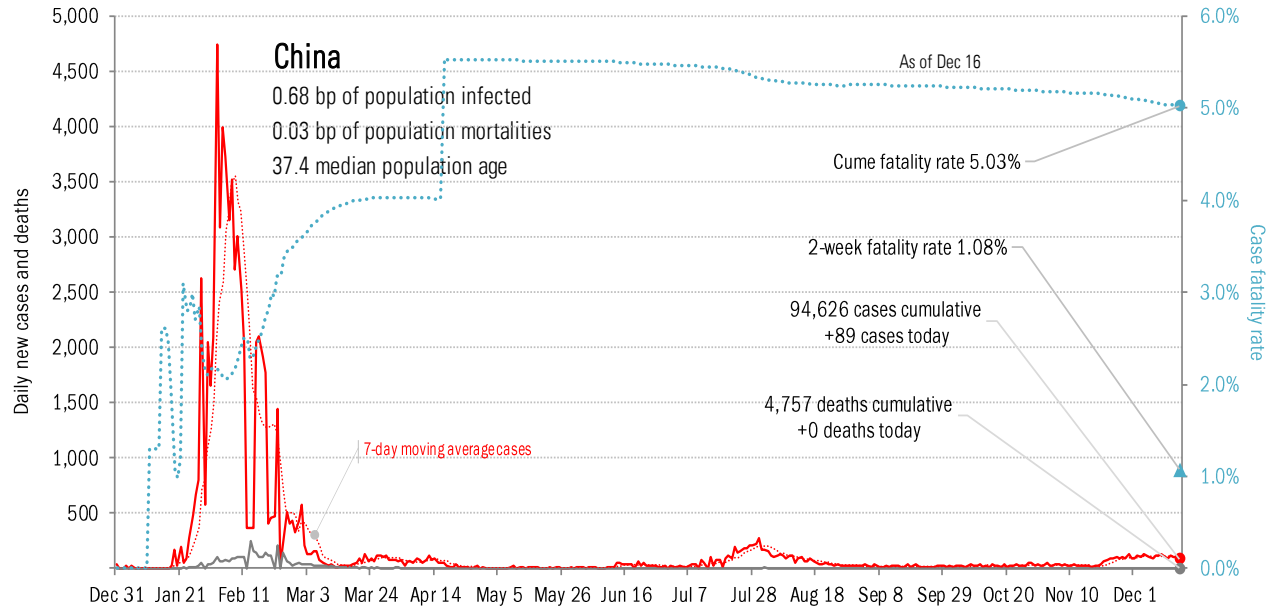
Source: [Covid Tracking Project](#), TrendMacro calculations

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



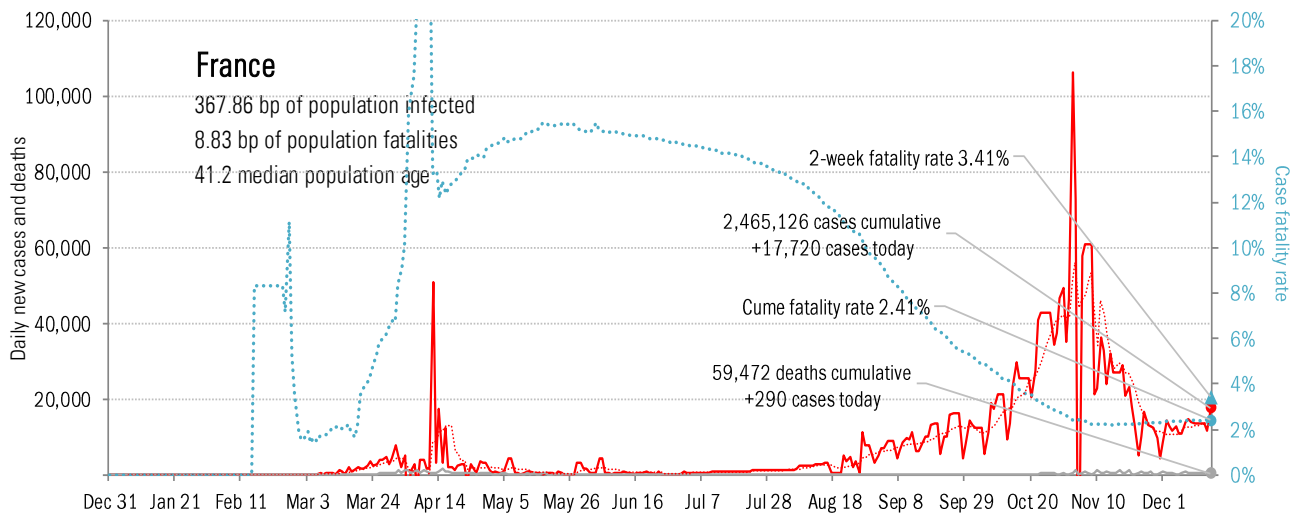
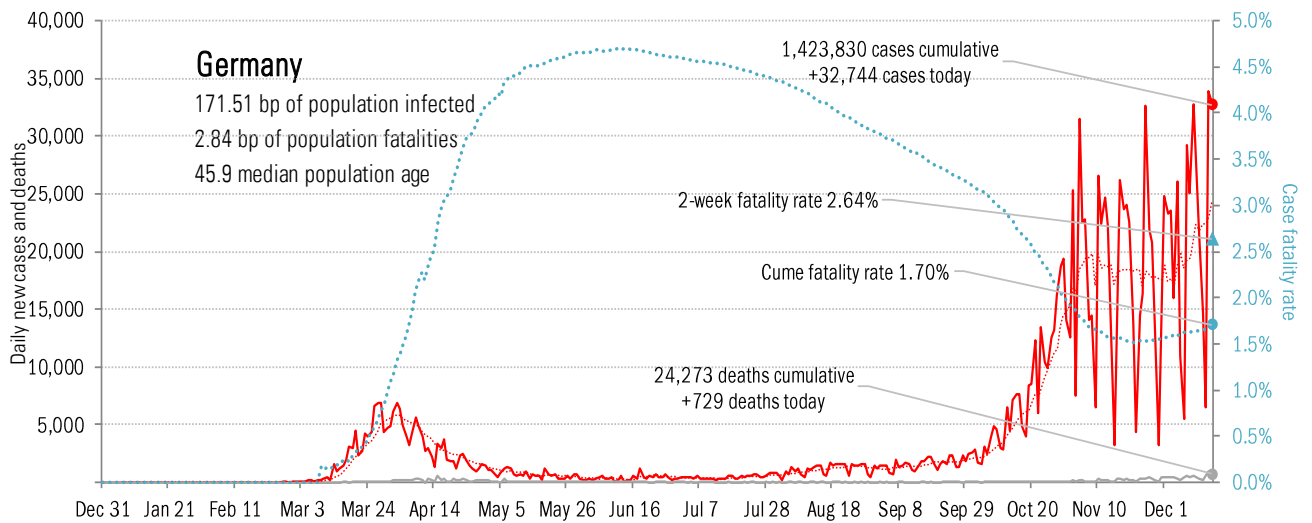
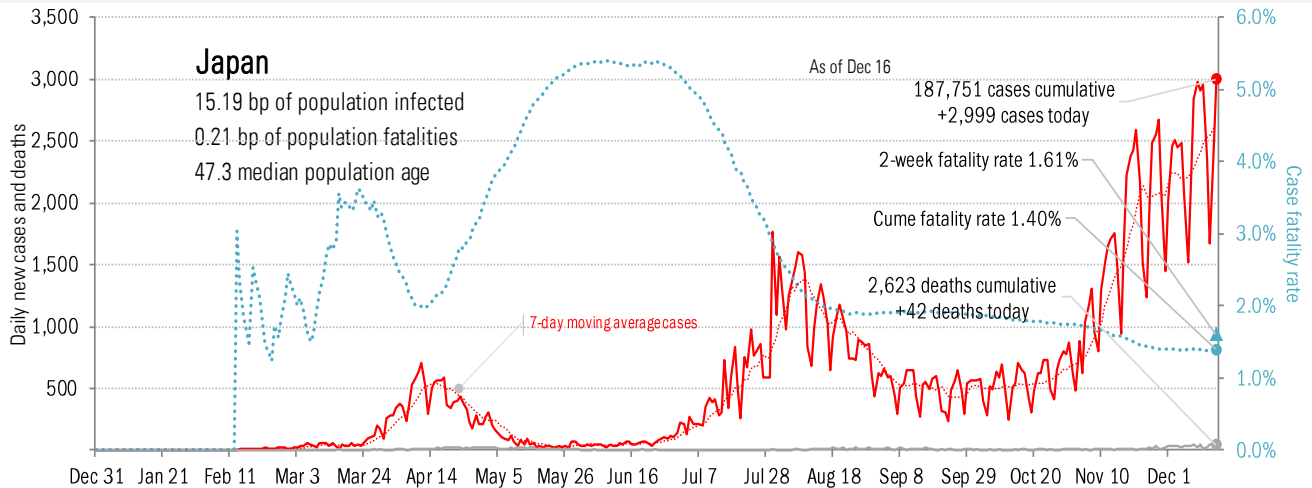
Source: [Covid Tracking Project](#), TrendMacro calculations

Patient zero... and then everyone else



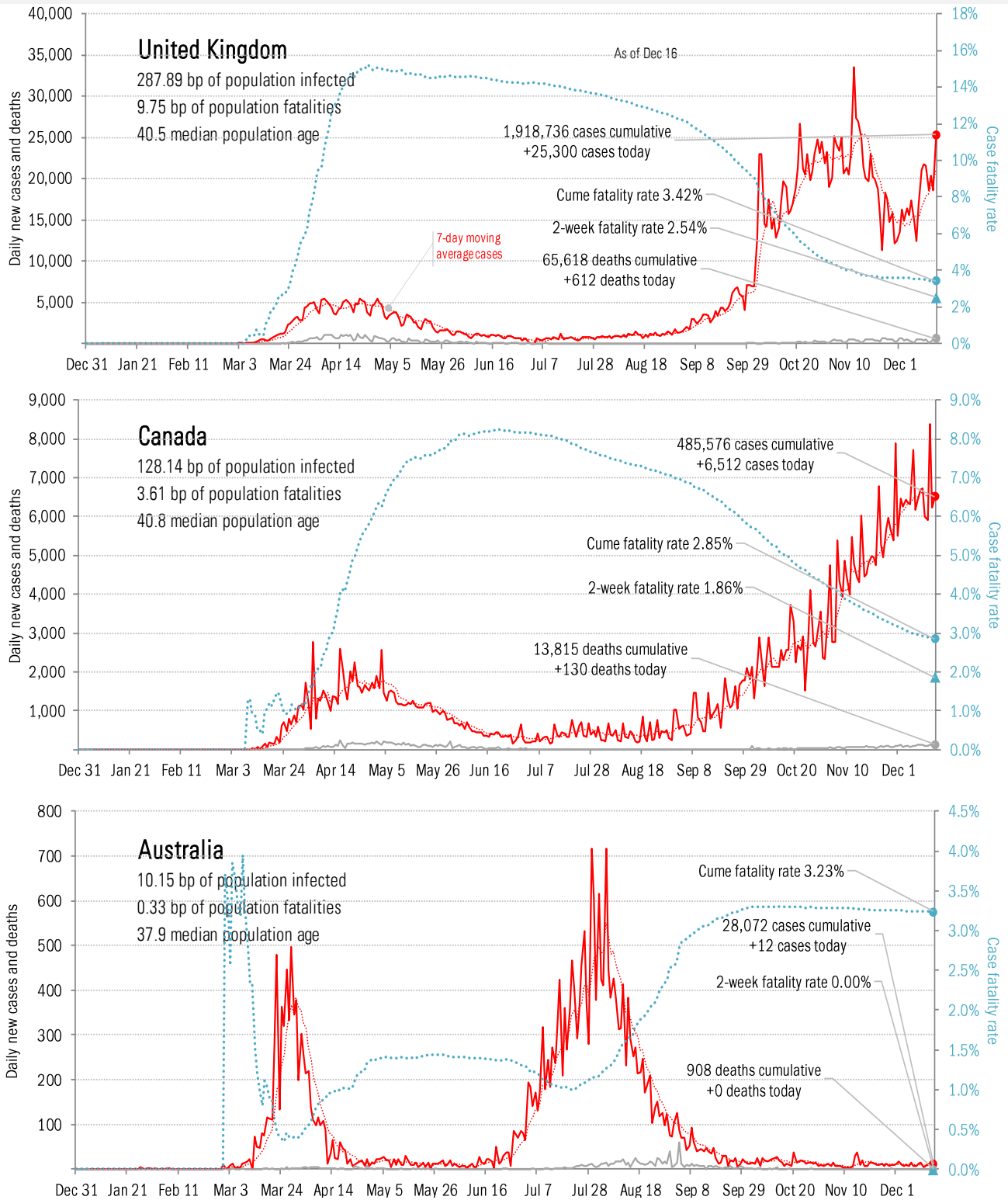
Source: [Johns Hopkins](#), [Covid Tracking Project](#), TrendMacro calculations

Impact in the largest economies



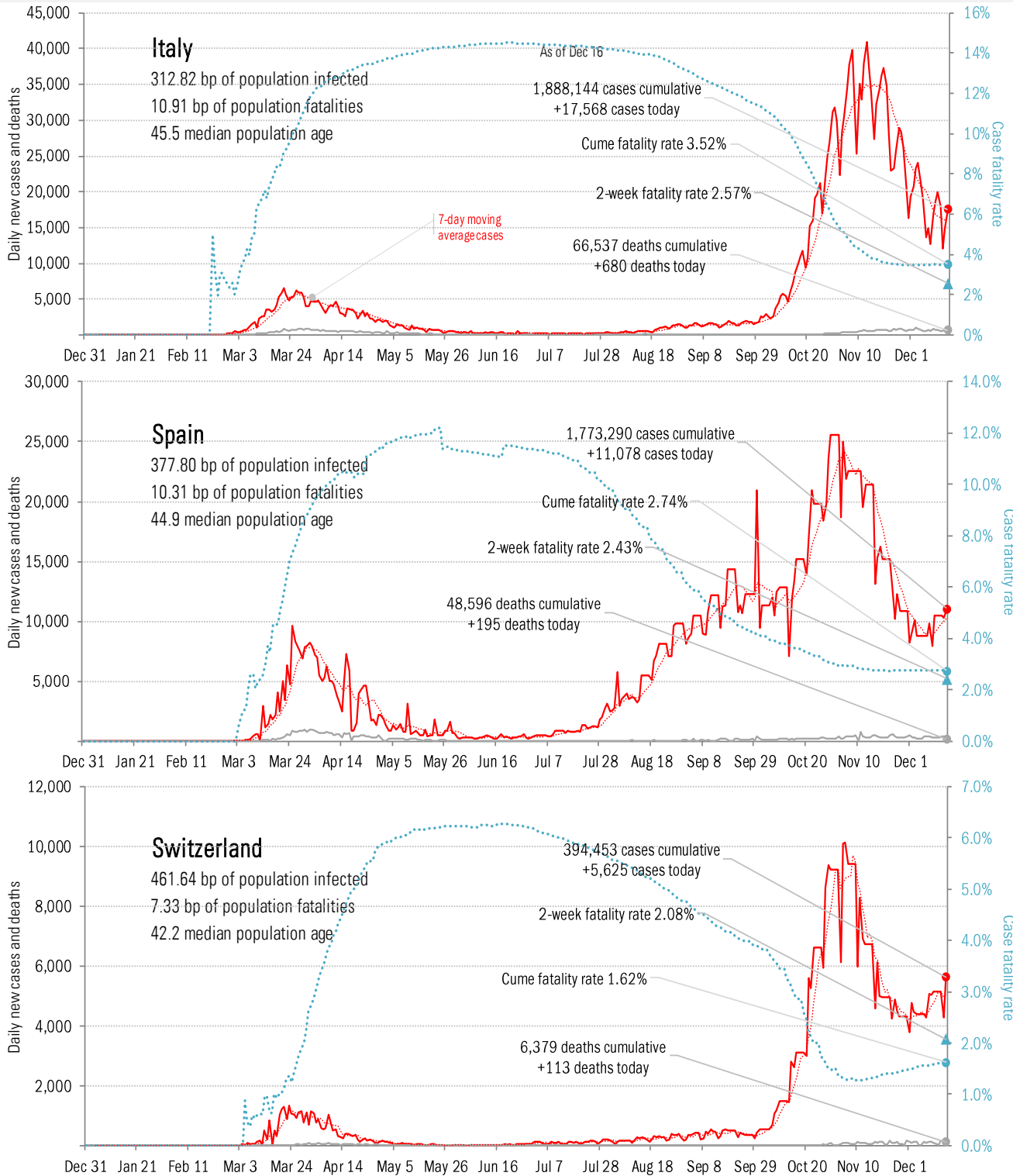
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



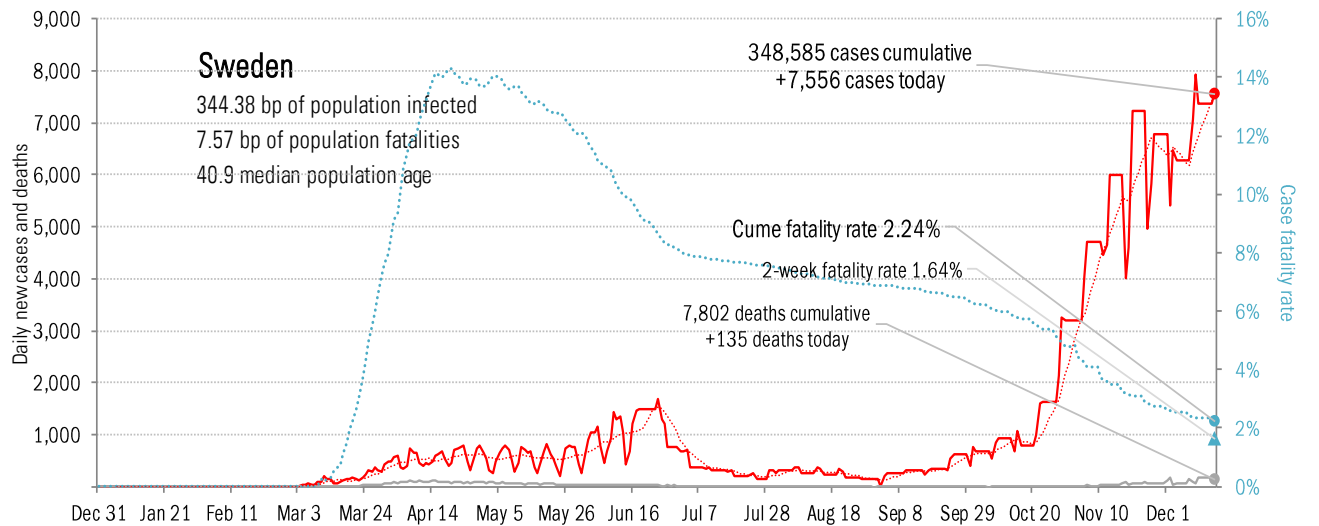
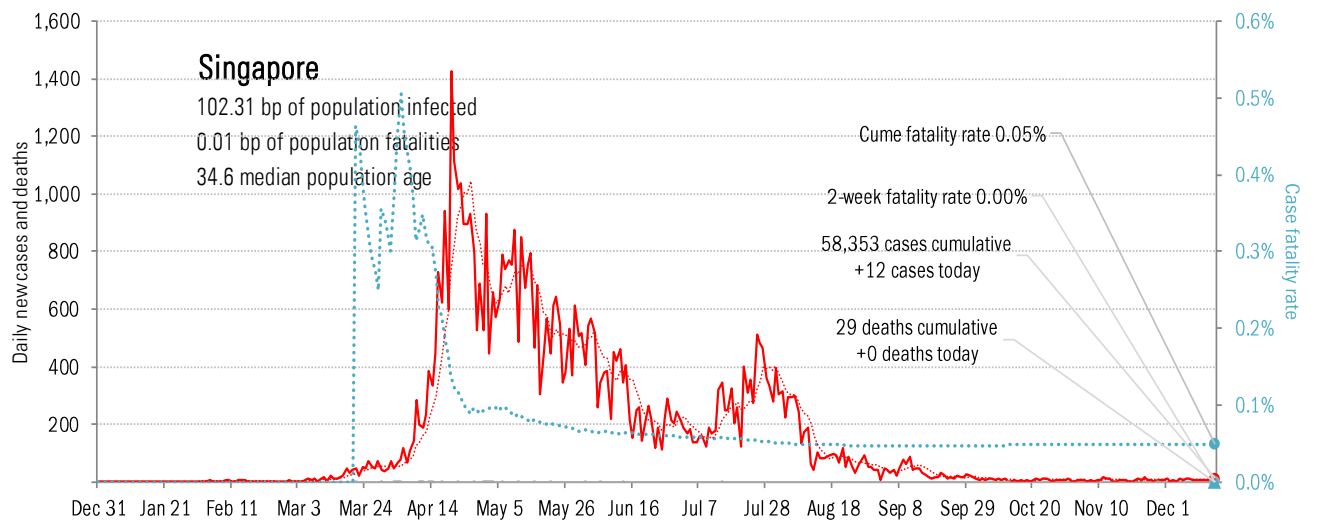
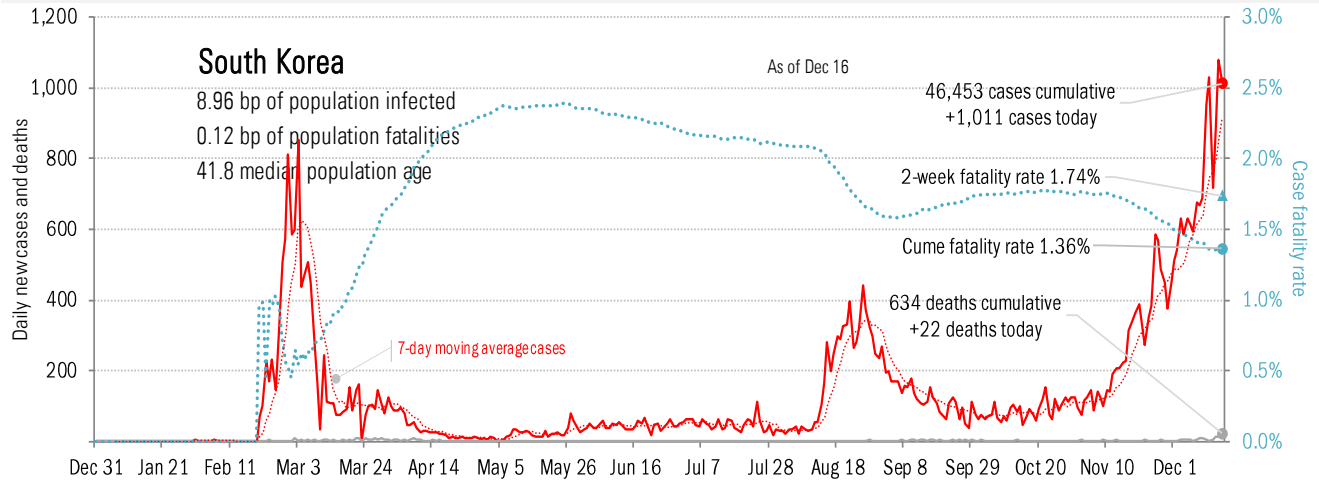
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



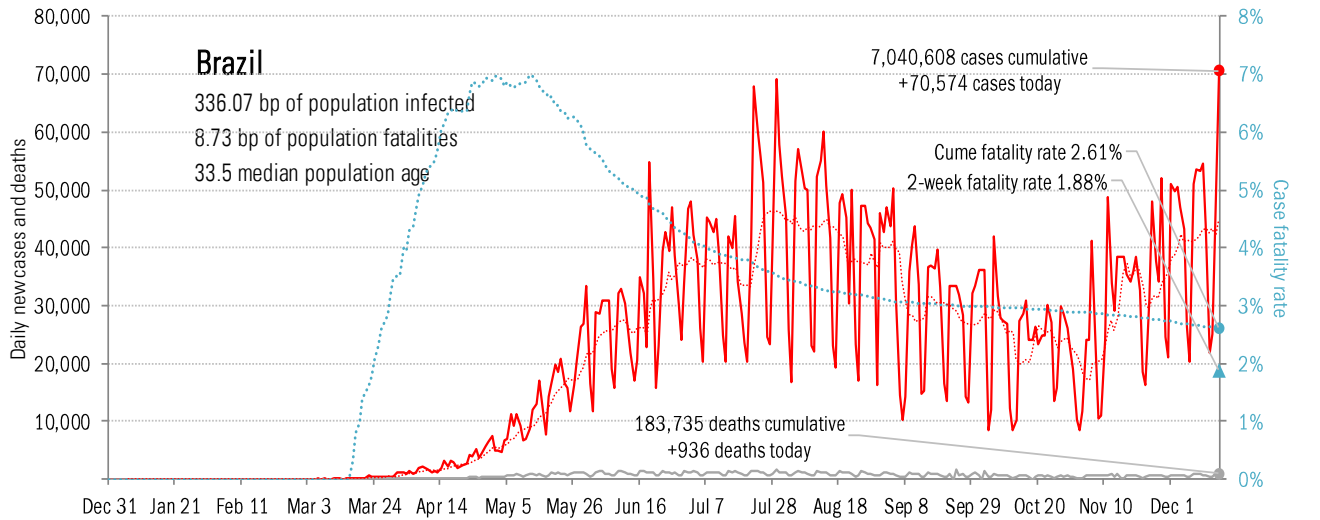
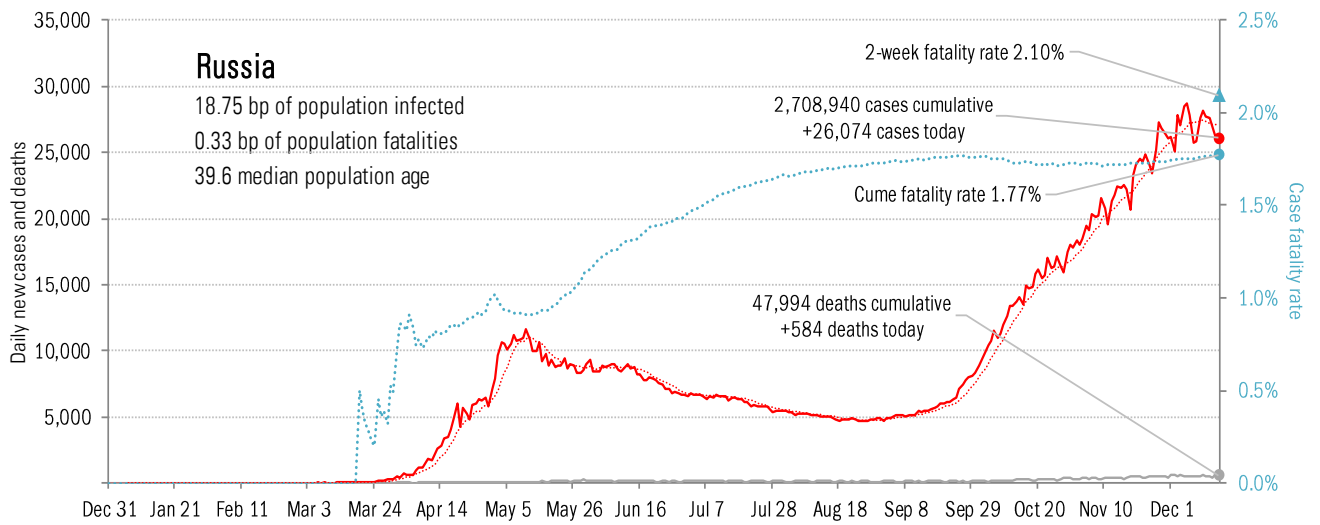
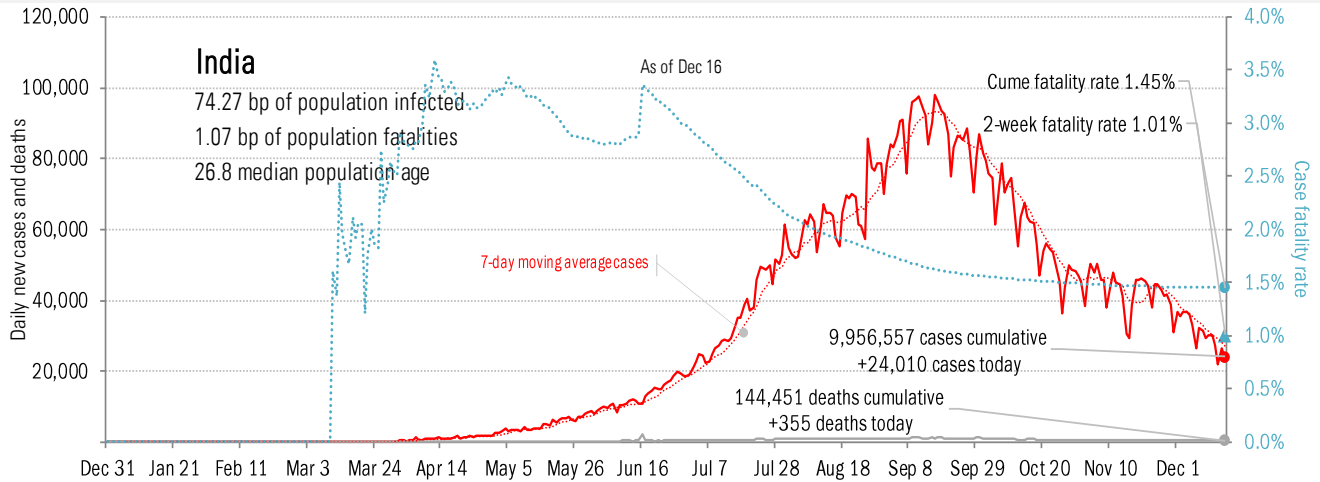
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



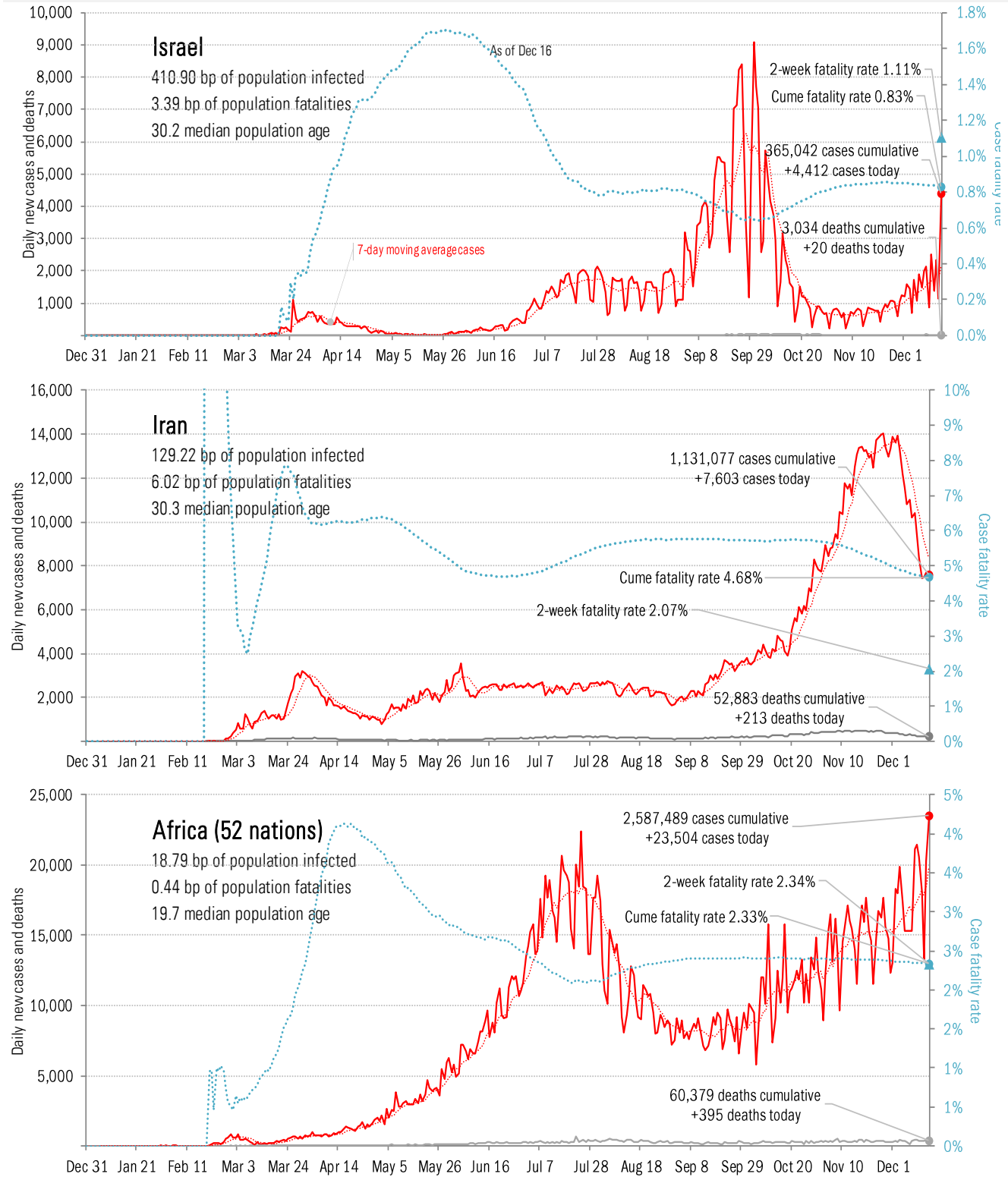
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations