Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

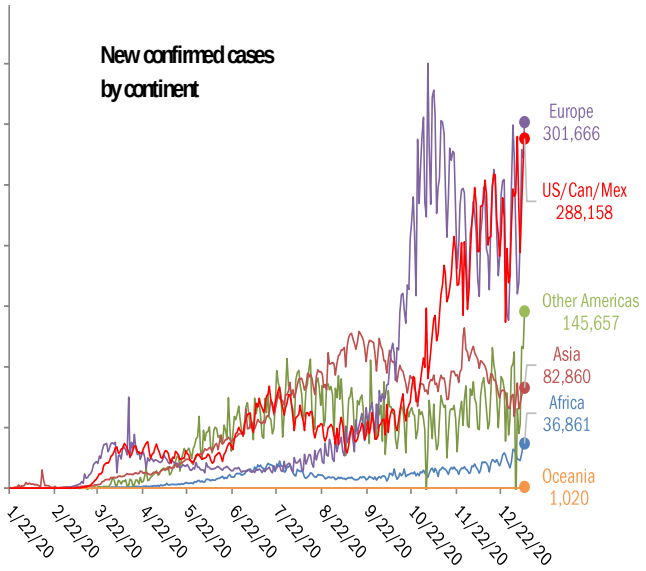
Data Insights: Covid-2019 Monitor

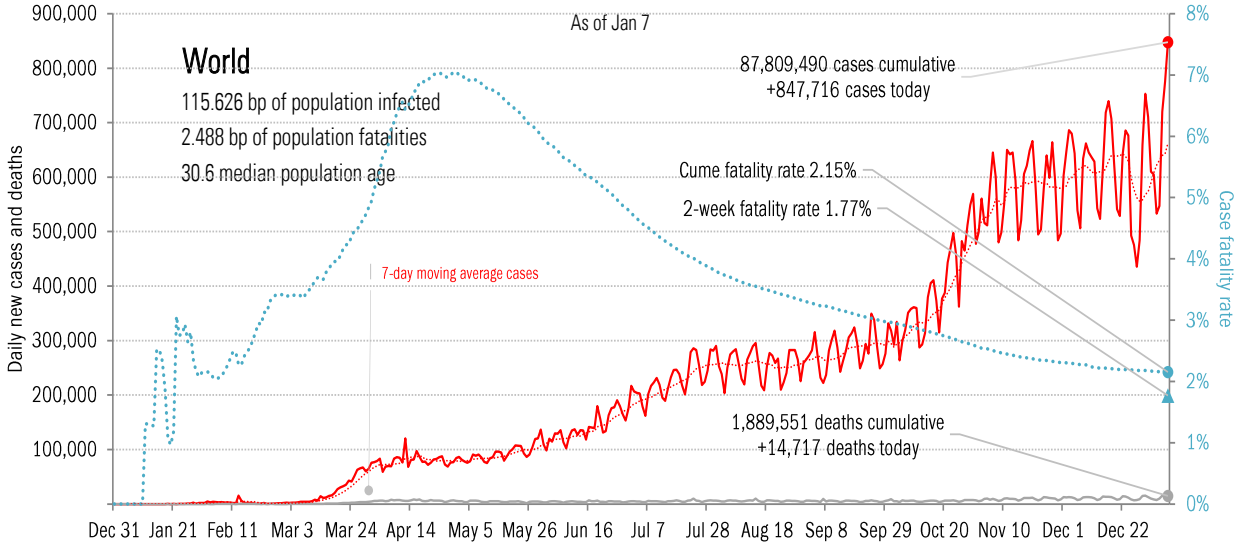
Friday, January 8, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+266,197	United States	+4,033
Brazil	+87,843	Brazil	+1,524
United Kingdom	+52,787	United Kingdom	+1,162
Germany	+45,333	Germany	+1,152
Spain	+42,360	Mexico	+1,044
Russia	+23,218	Russia	+491
South Africa	+20,999	South Africa	+441
Italy	+18,416	Italy	+414
India	+18,139	Colombia	+344
Czechia	+17,773	Sweden	+277
	+593,065		+10,882
World	+847,716	World	+14,717
Top ten	70%	Top ten	74%





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

Copyright 2021 Trend Macrolytics LLC. All rights reserved. This document is not to be forwarded to individuals or organizations not authorized by Trend Macrolytics LLC to receive it. For information purposes only; not to be deemed to be recommendations for buying or selling specific securities or to constitute personalized investment advice. Derived from sources deemed to be reliable, but no warranty is made as to accuracy.

The US scorecard

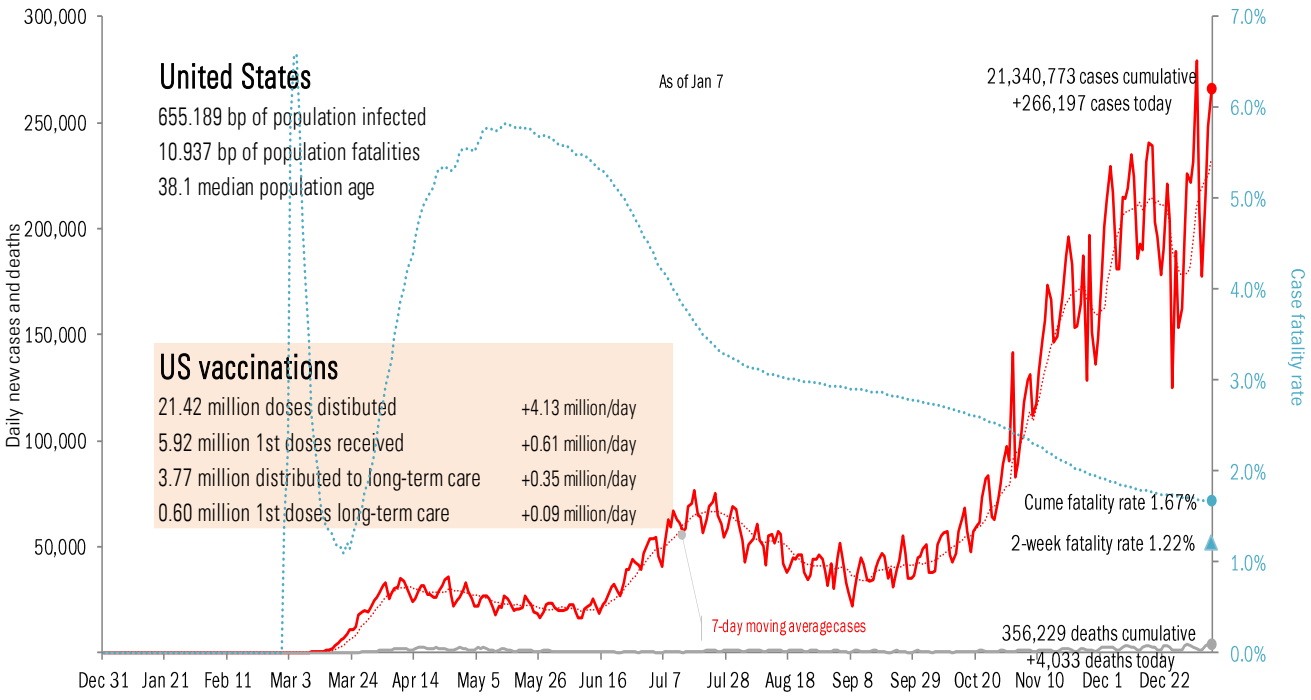
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+36,385	CA	+583	TX	+156	CA	2,518,611	NY	31,164	NY	89,995	RI	90%	AL	96%
TX	+24,578	TX	+393	ID	+112	TX	1,891,741	TX	28,938	FL	65,622	GA	89%	GA	94%
FL	+19,334	AZ	+297	VA	+75	FL	1,404,374	CA	28,045	NJ	49,515	SC	88%	RI	91%
NY	+17,636	PA	+265	NC	+67	NY	1,075,312	FL	22,817	GA	43,796	MD	86%	CK	91%
NC	+10,398	IL	+206	AL	+48	IL	1,008,045	NJ	19,646	AZ	42,112	DC	84%	CA	89%
CH	+10,251	MI	+206	MO	+46	CH	753,068	IL	18,941	CH	40,469	FL	83%	NM	89%
AZ	+9,913	NY	+199	AZ	+43	PA	693,087	PA	17,179	IN	36,517	CA	81%	TN	89%
PA	+9,698	FL	+170	LA	+40	TN	634,237	MI	13,873	AL	36,411	PA	81%	TX	88%
TN	+9,000	NC	+137	CA	+31	GA	609,868	MA	12,909	MD	27,900	AZ	81%	MS	87%
IL	+8,757	NJ	+123	IN	+30	NC	592,746	GA	11,230	MN	22,541	MA	81%	SC	87%
	+155,950		+2,579		+648		11,181,089		204,742		454,878				
All states	+266,197		+4,033		-94	All states	21,340,773		356,229		716,151	All states	76%		80%
Top ten	59%		64%		-689%	Top ten	52%		57%		64%	Median	73%		78%

Some states not reporting

Five most improved US states

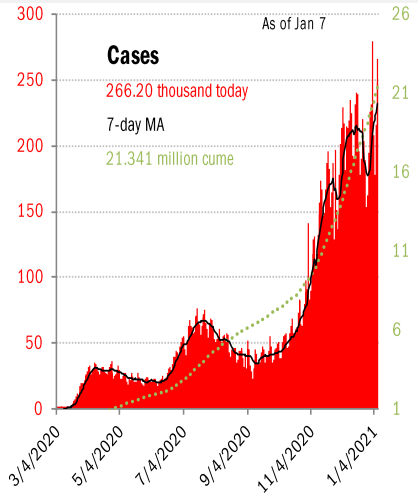
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,501	KS	-130	CA	-304	MA	+31,850
MS	-2,791	PA	-103	NY	-192	TX	+17,462
LA	-2,346	IA	-56	KS	-176	PA	+13,816
KY	-816	AR	-40	GA	-171	CH	+7,944
IA	-716	MS	-38	TX	-164	TN	+6,796

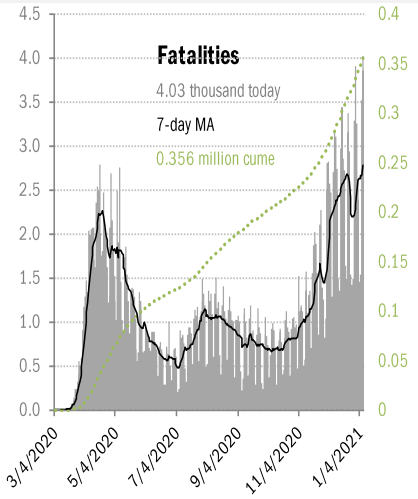


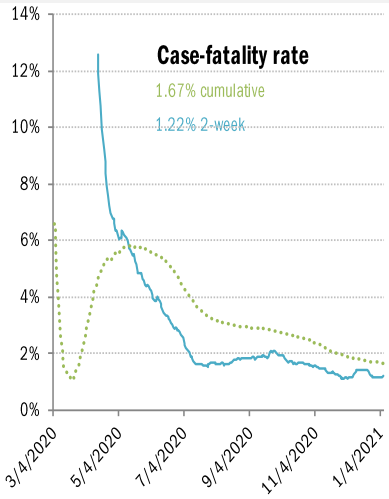
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

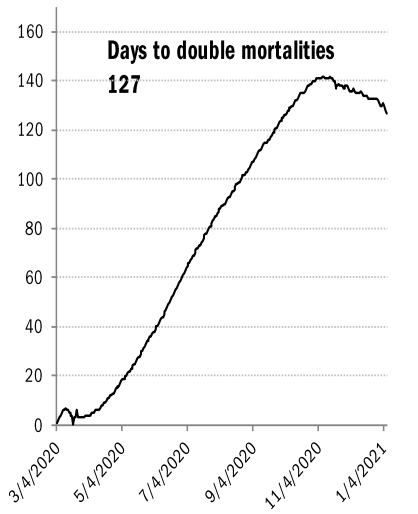
US deep-dive

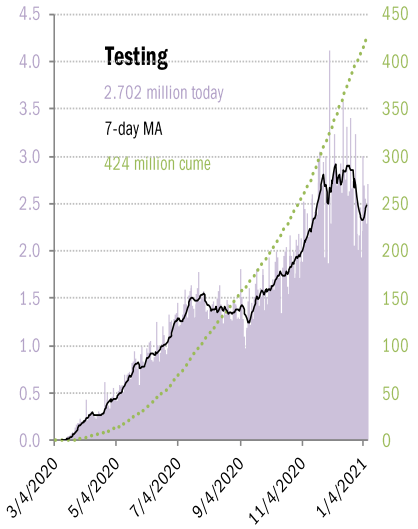
National and state-by-state data do not line up because of different sources

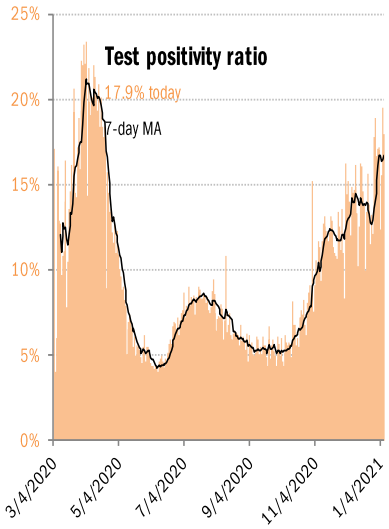


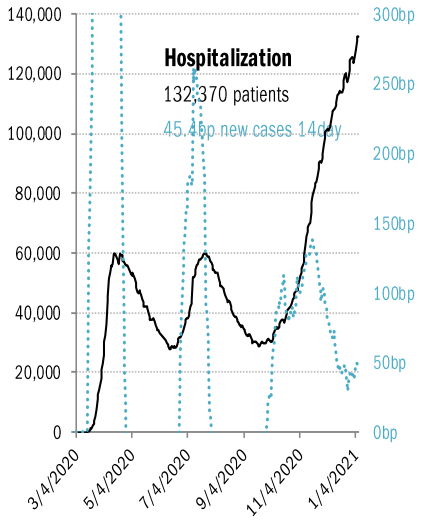


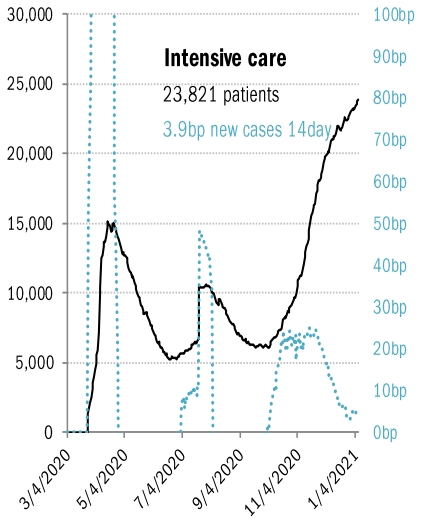


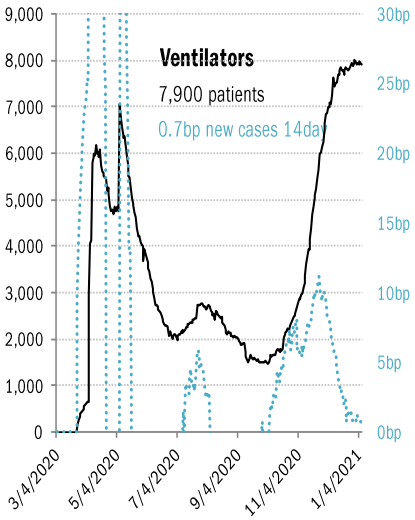






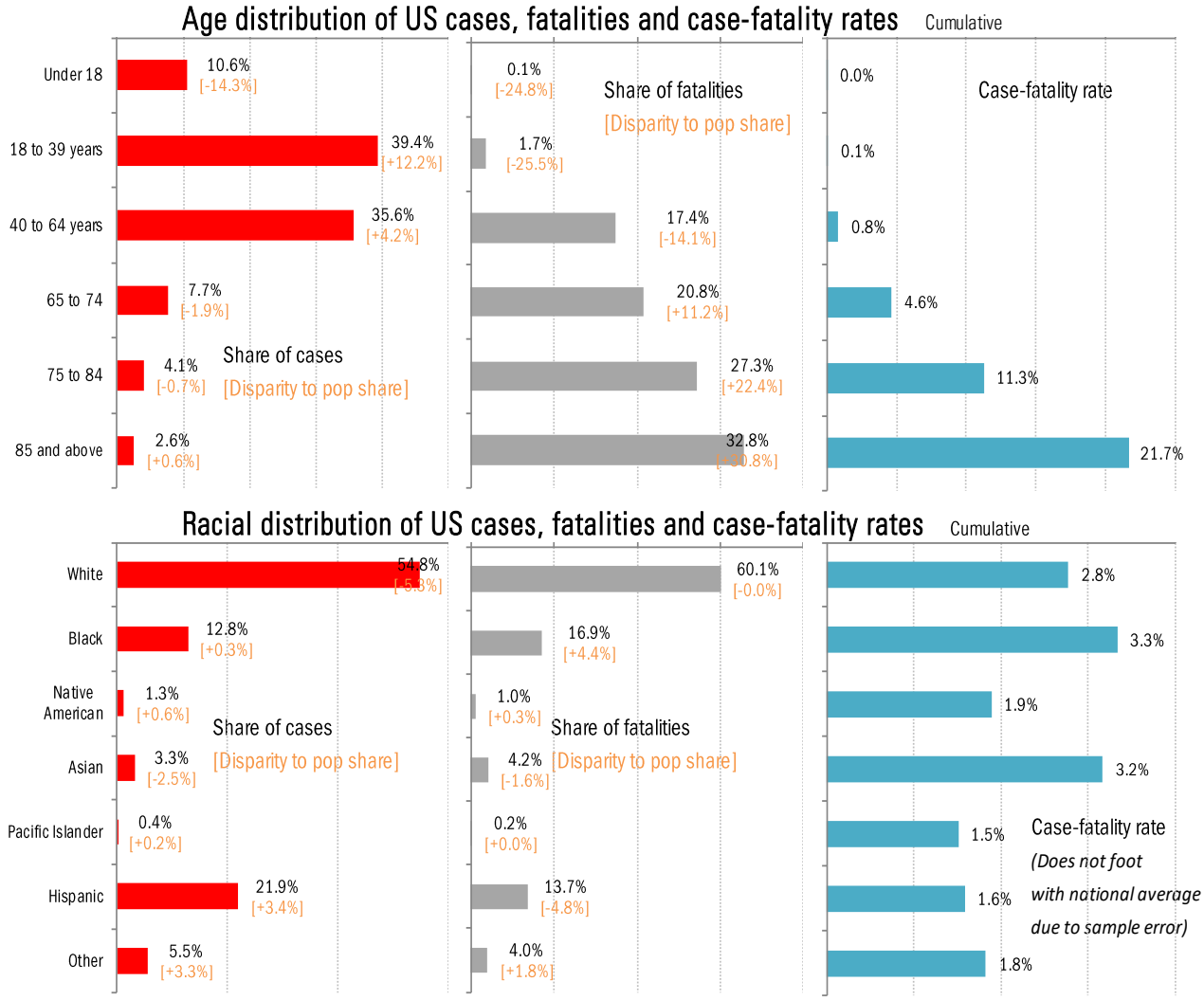




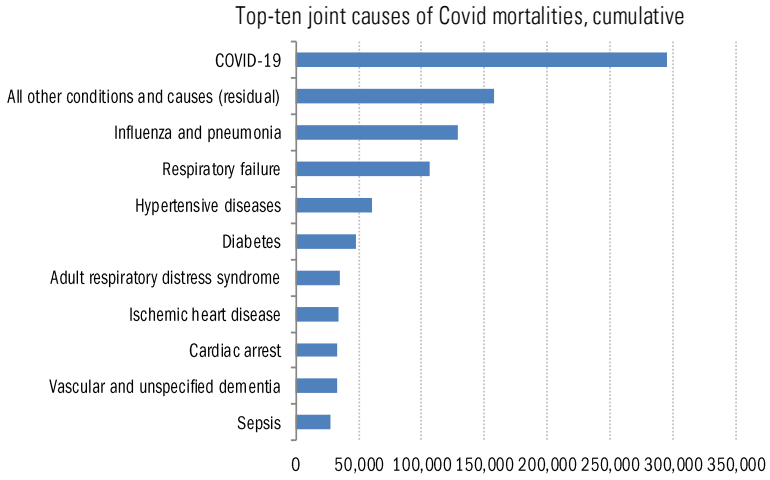


Source: Covid Tracking Project, TrendMacro calculations

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



Comorbidites



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

A deep learning framework for drug repurposing via emulating clinical trials on real-world patient data
Ruoqi Liu et al.
Nature Machine Intelligence
January 4, 2021

Scientists are monitoring a coronavirus mutation that could affect the strength of vaccines
Andrew Joseph
Stat News
January 7, 2021

Vaccine scepticism among medics sparks alarm in Europe and US
Erika Solomon, Kiran Stacey, Leila Abboud, Davide Ghiglione
Financial Times
January 6, 2021

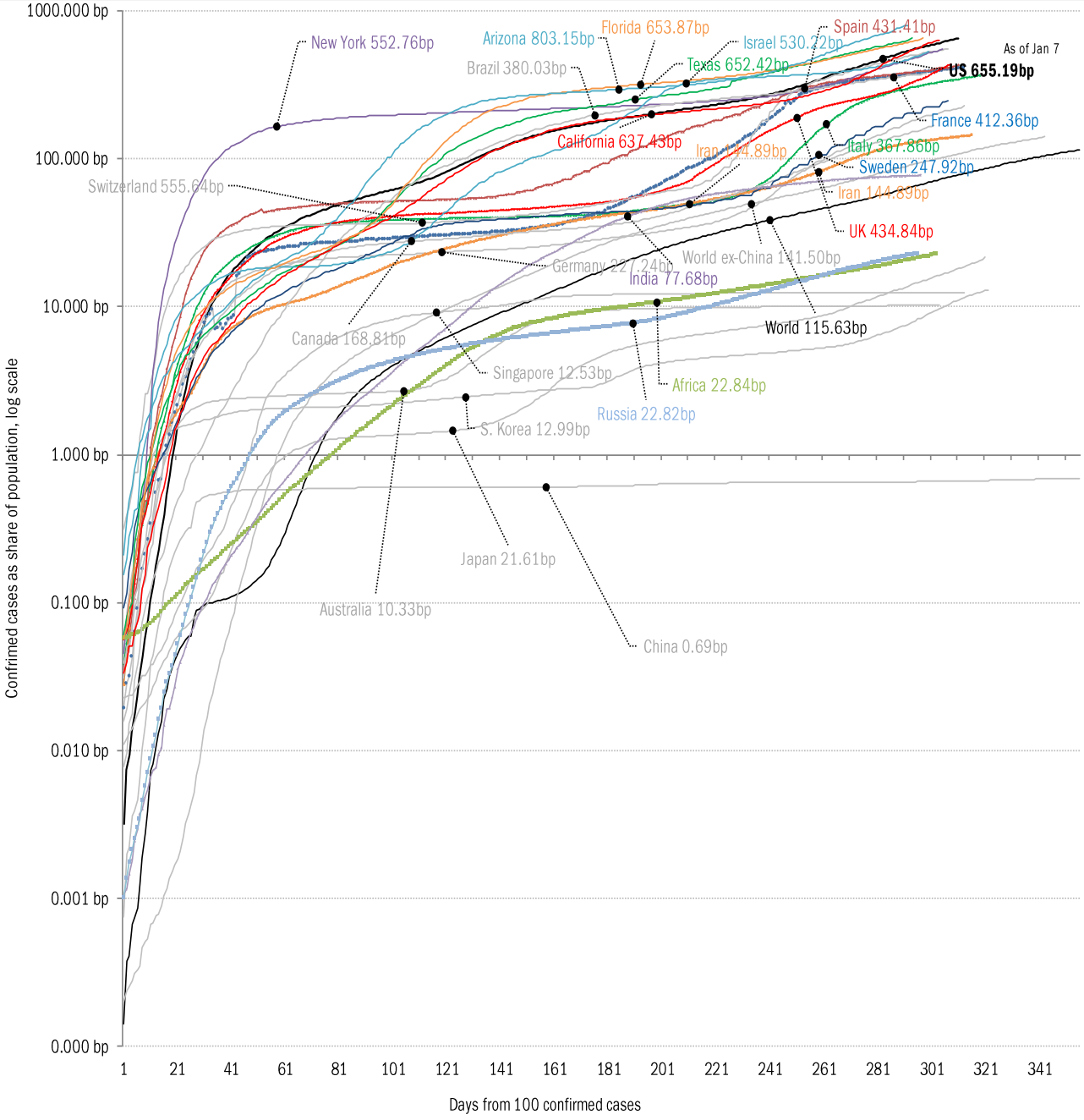
Meme of day

Study Finds Vaccine Only Works If You Post A Vaccination Selfie On Facebook

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

The coronavirus case accelerometer… tracking the world's infection curves

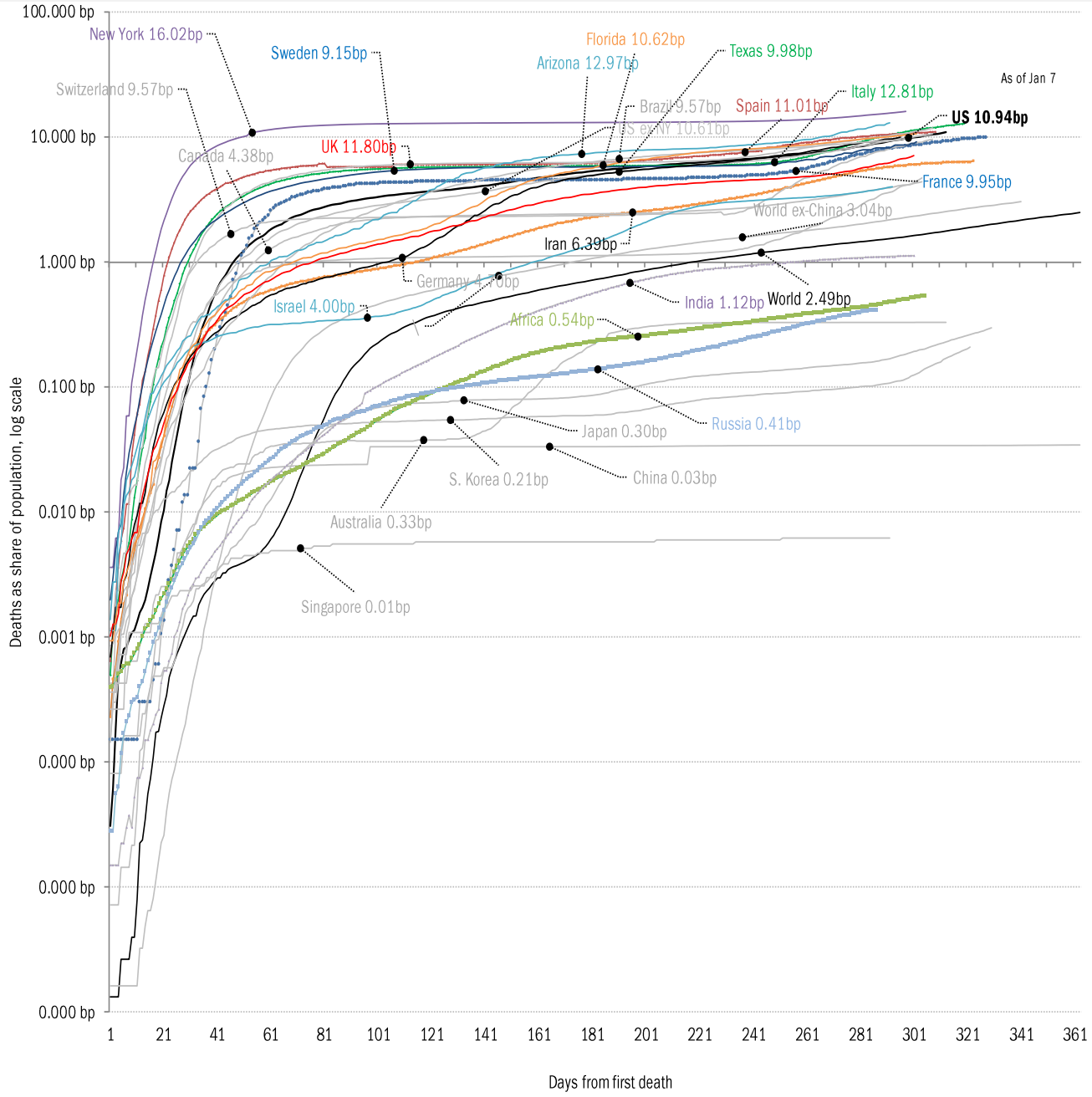
Share of infected population from first day with 100 confirmed cases, log scale



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

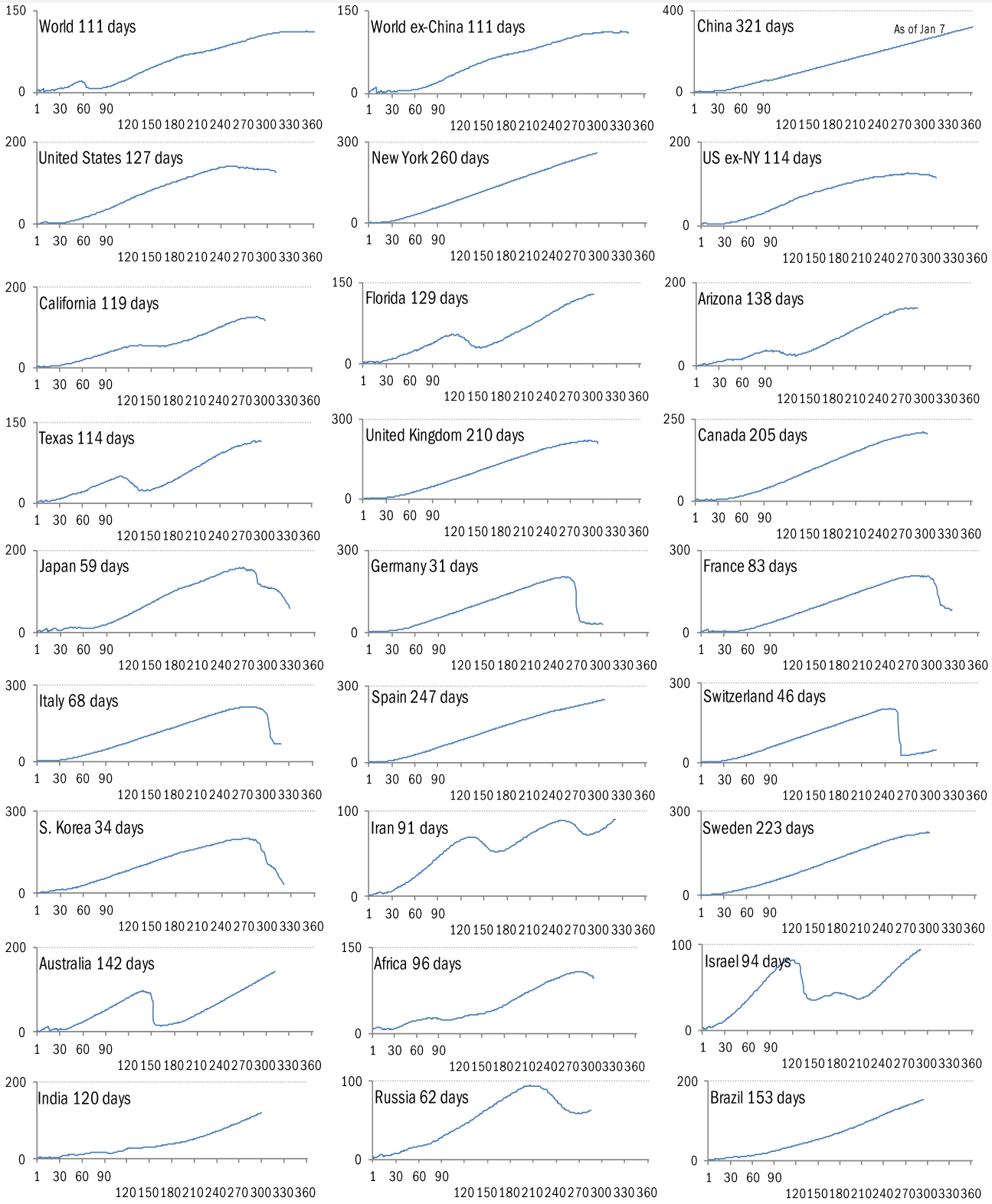


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

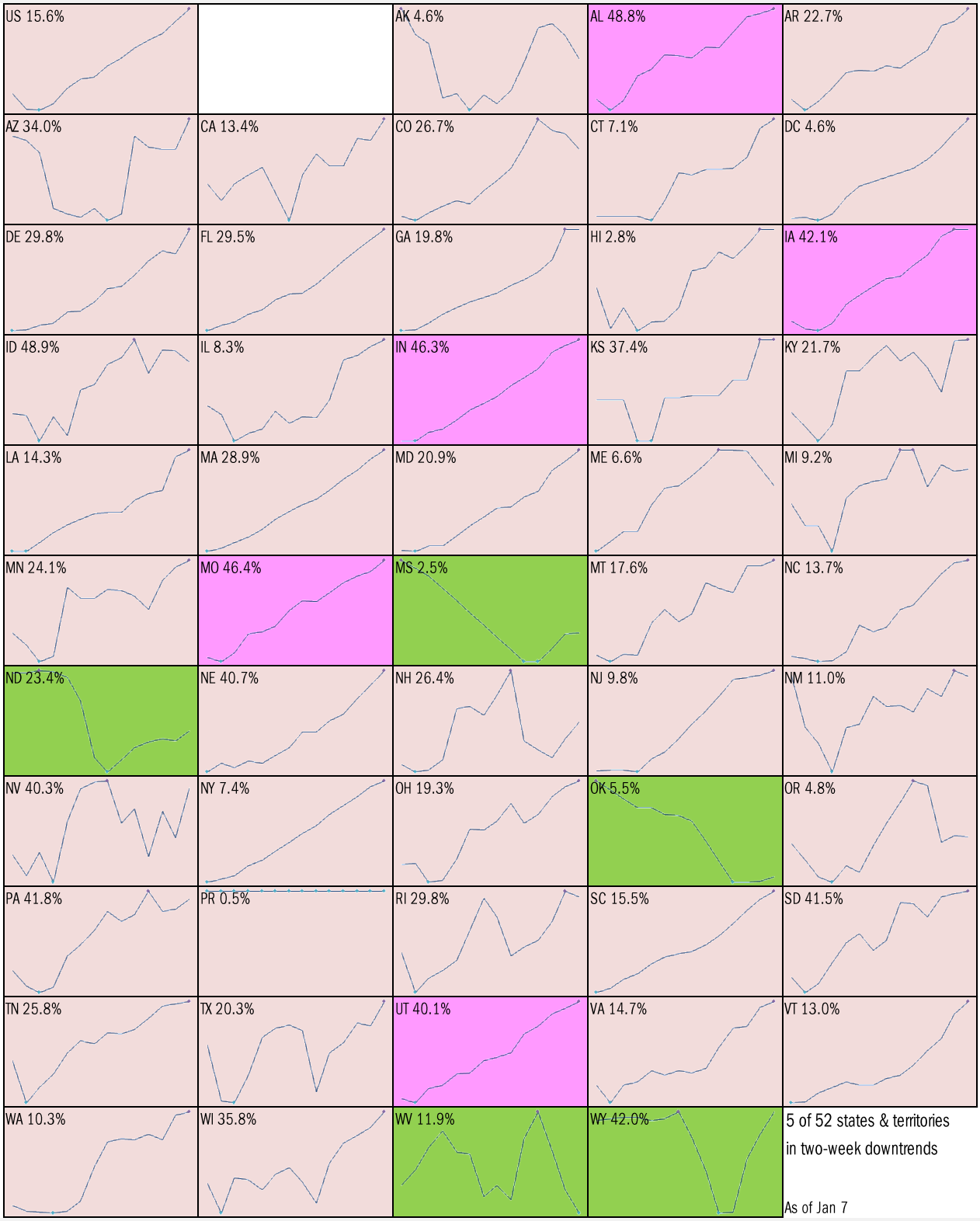
Downward trajectory Five best Upward trajectory Five worst

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

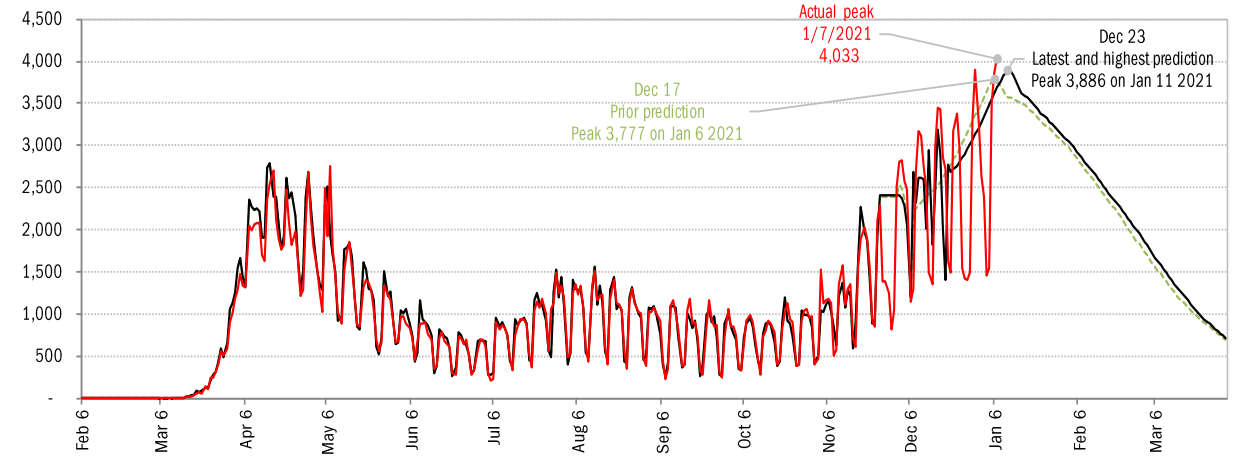


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

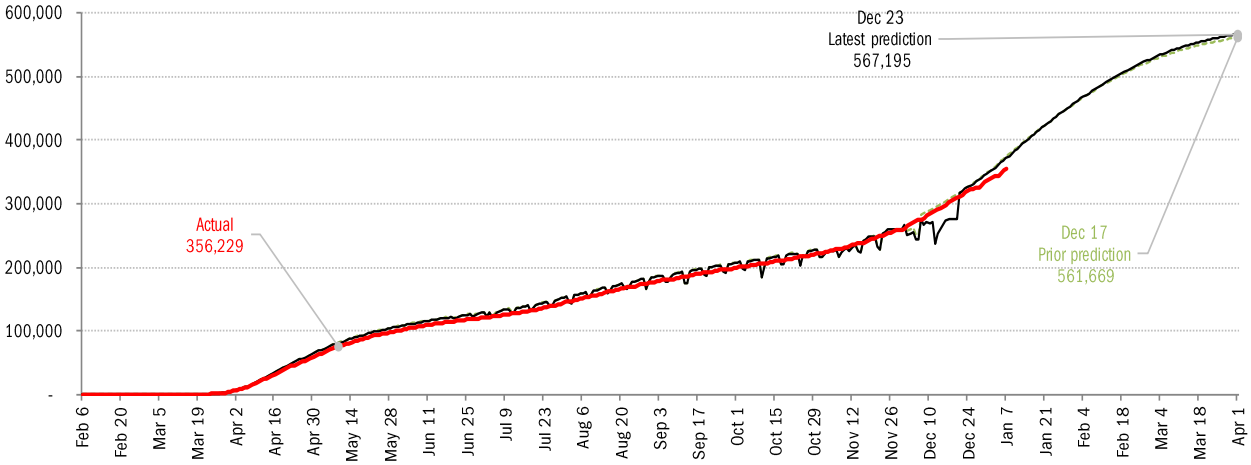
New daily fatalities As of Jan 7

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

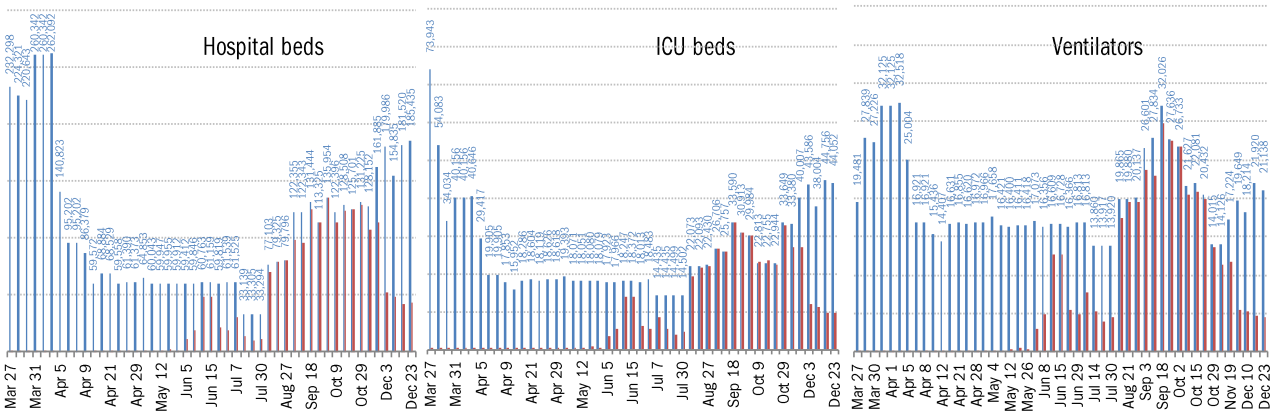


Cumulative fatalities

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

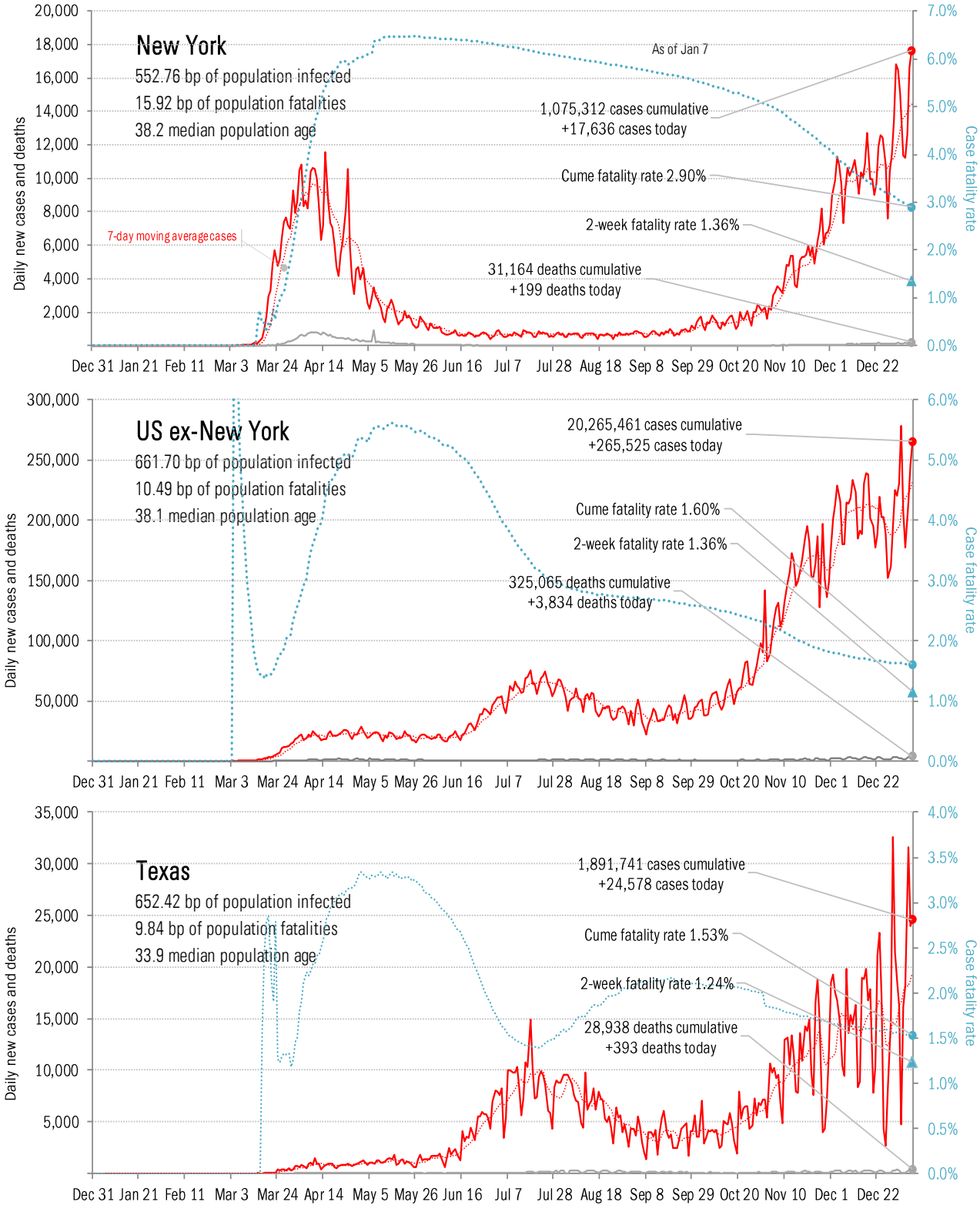


Healthcare system stress, peak and ultimate estimated at each model revision



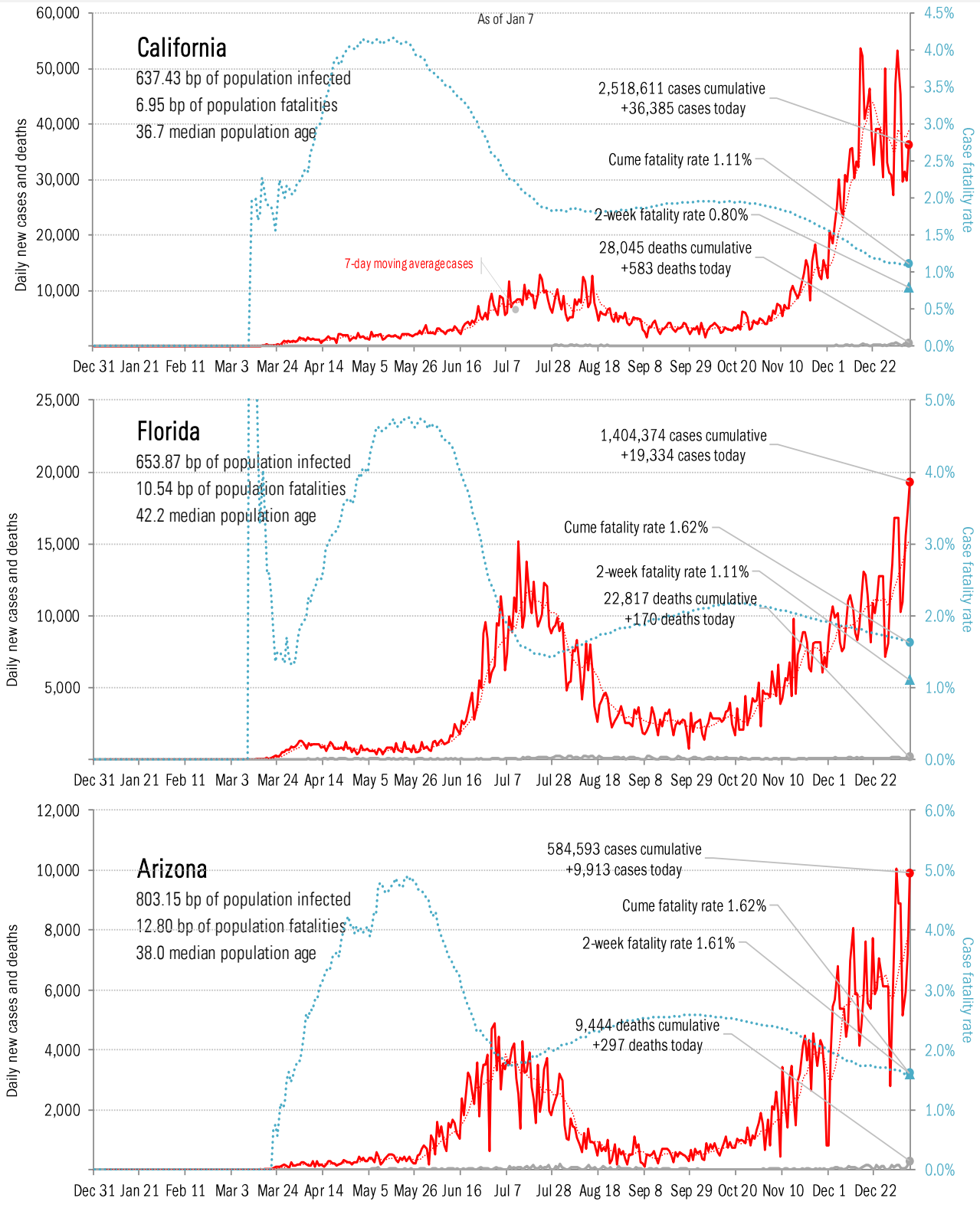
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



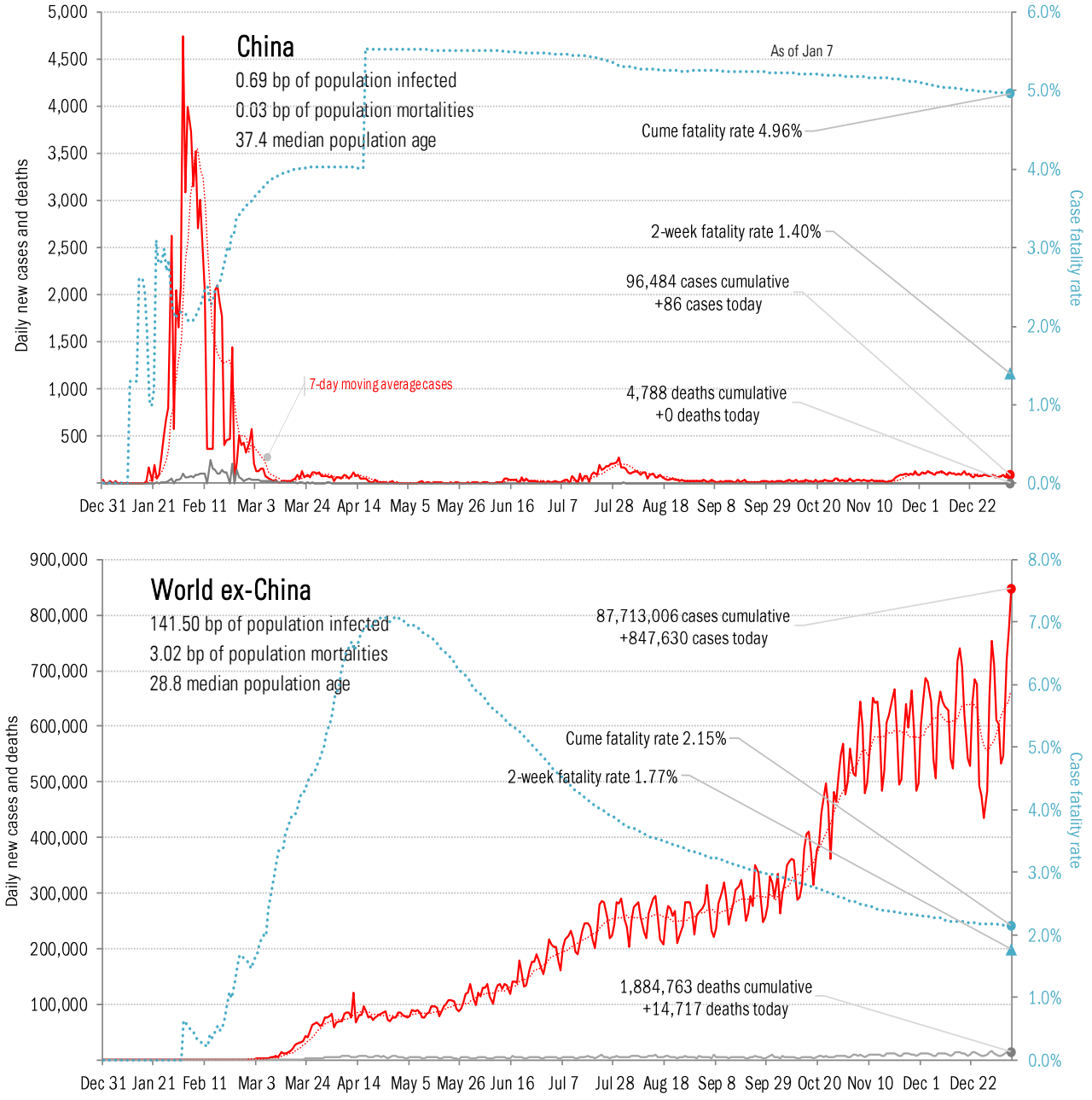
Source: [Covid Tracking Project](), TrendMacro calculations

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



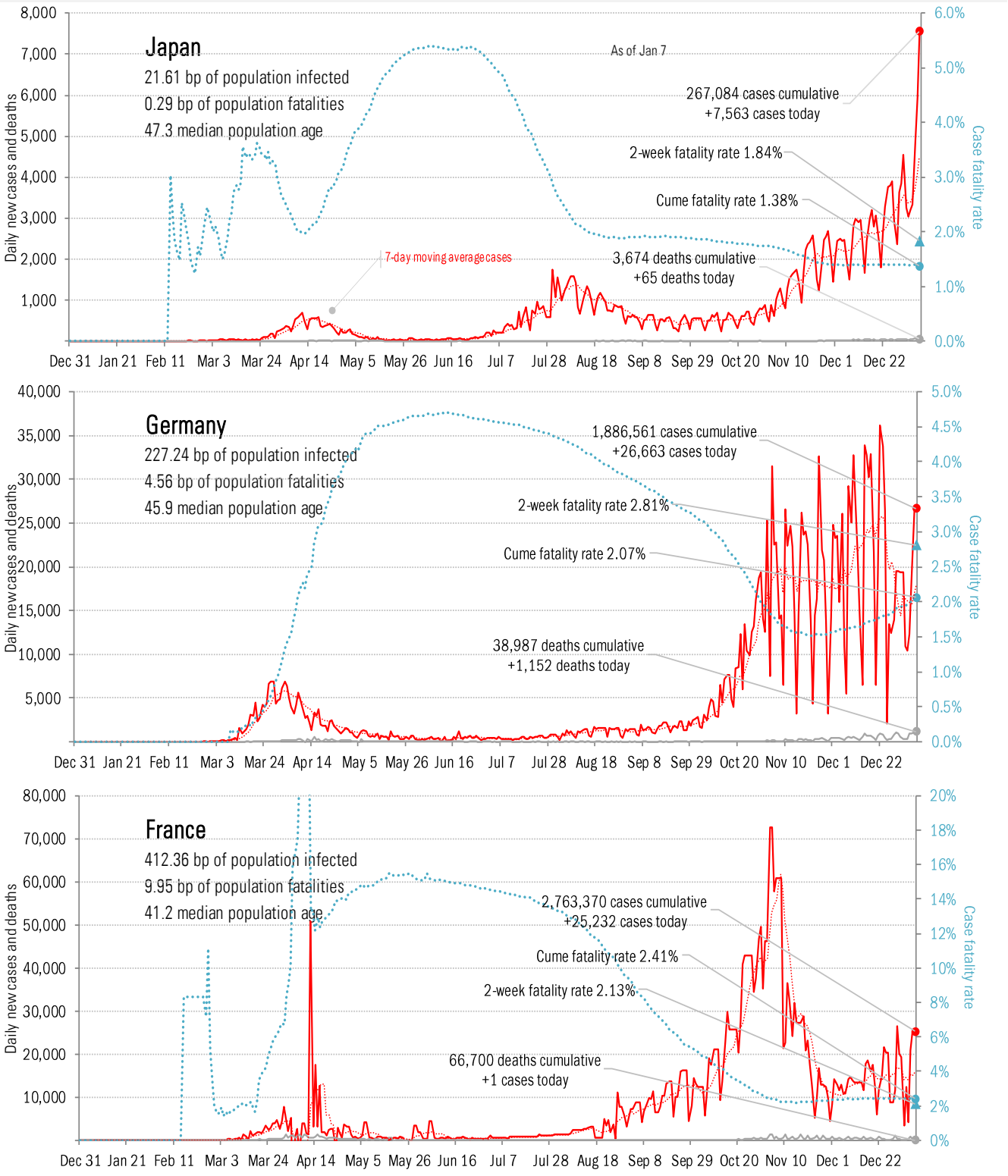
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



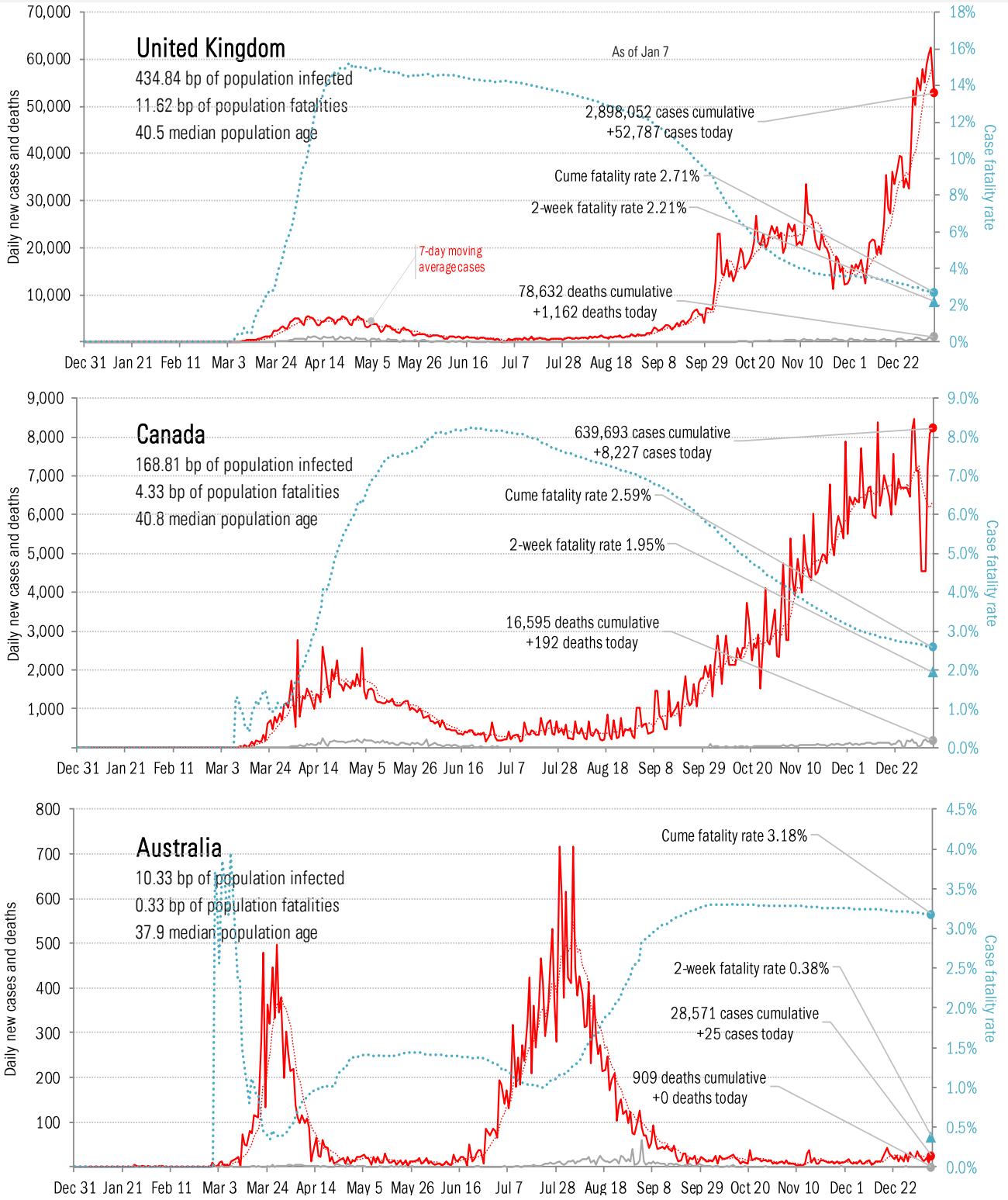
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



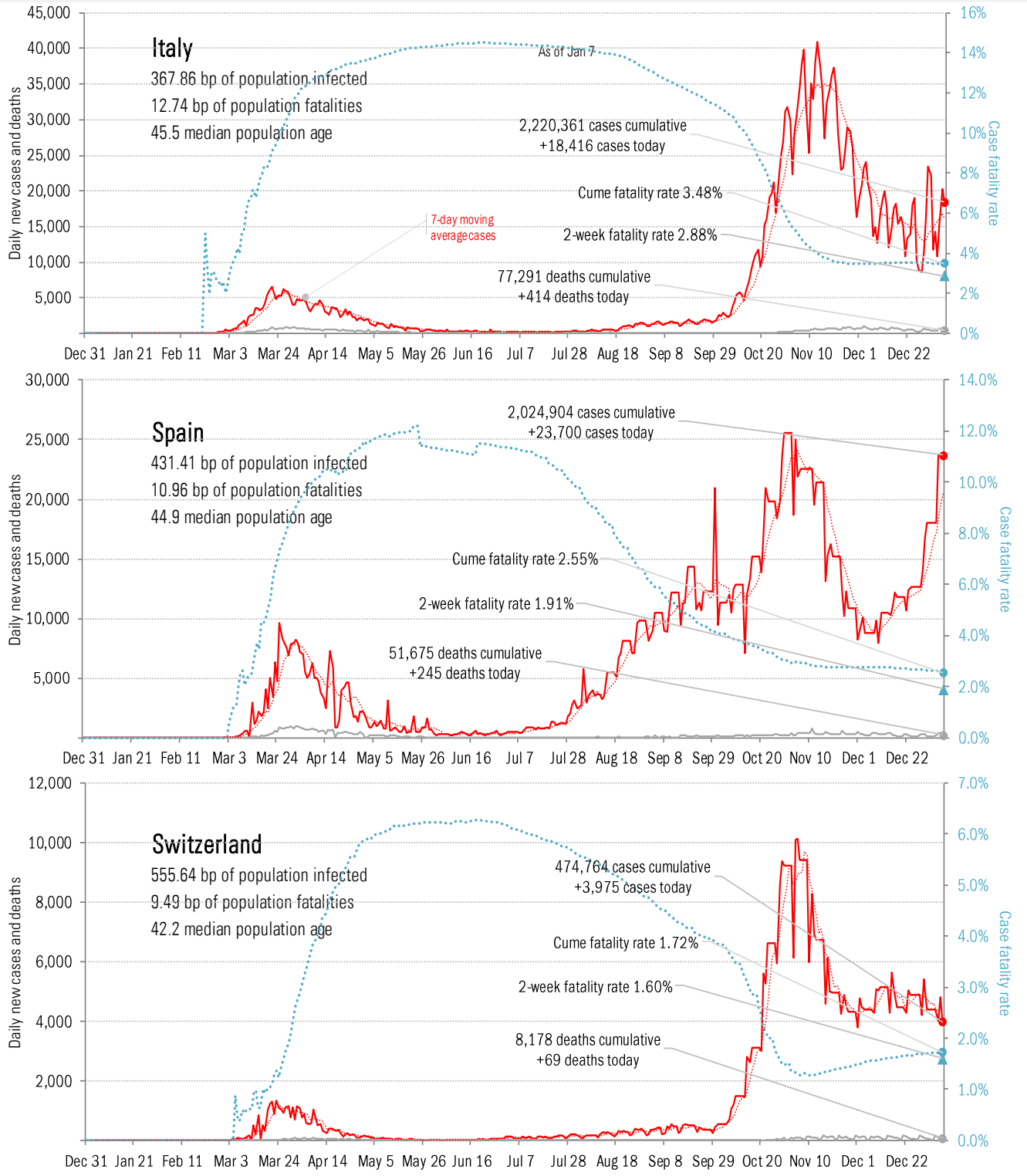
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



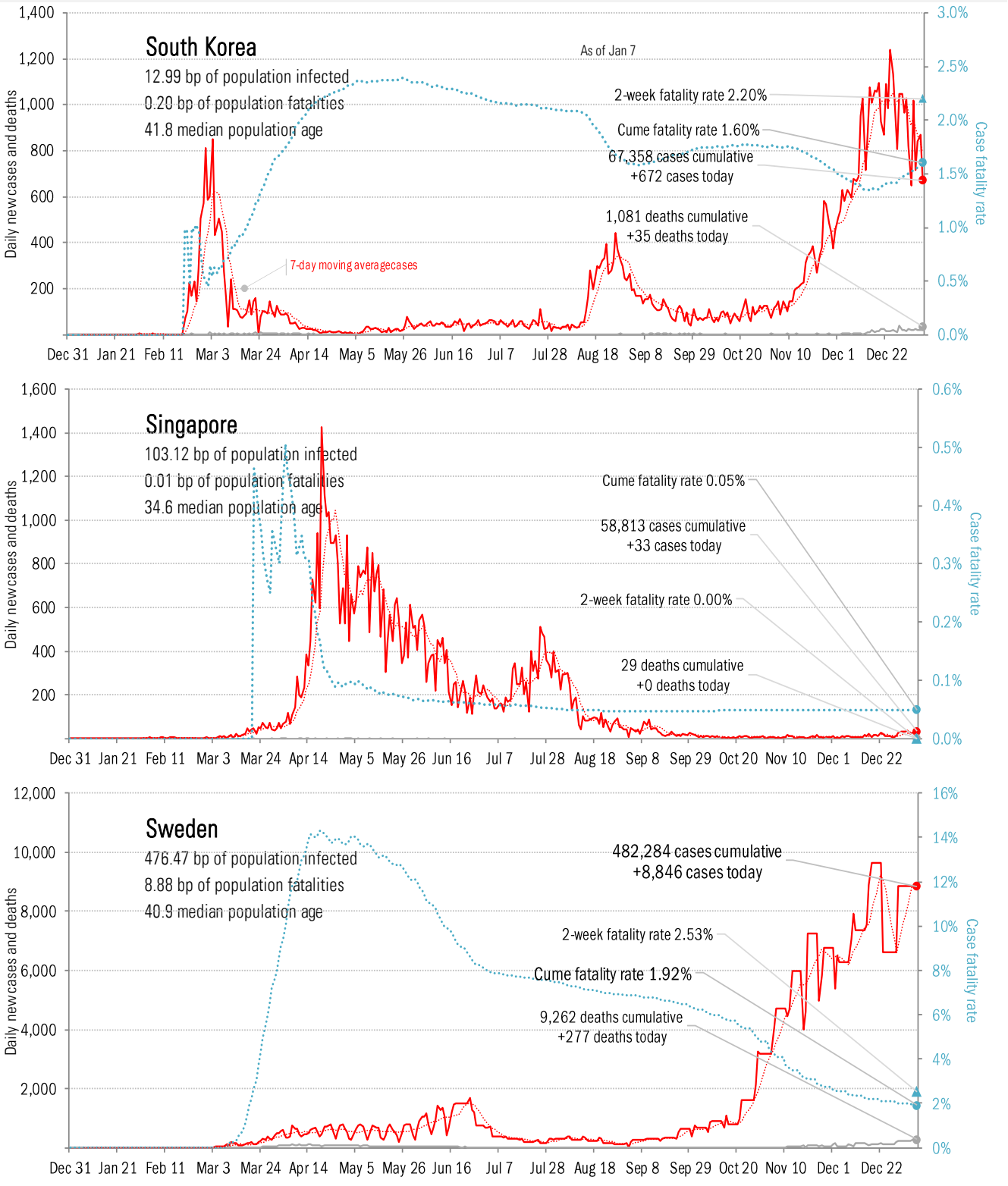
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



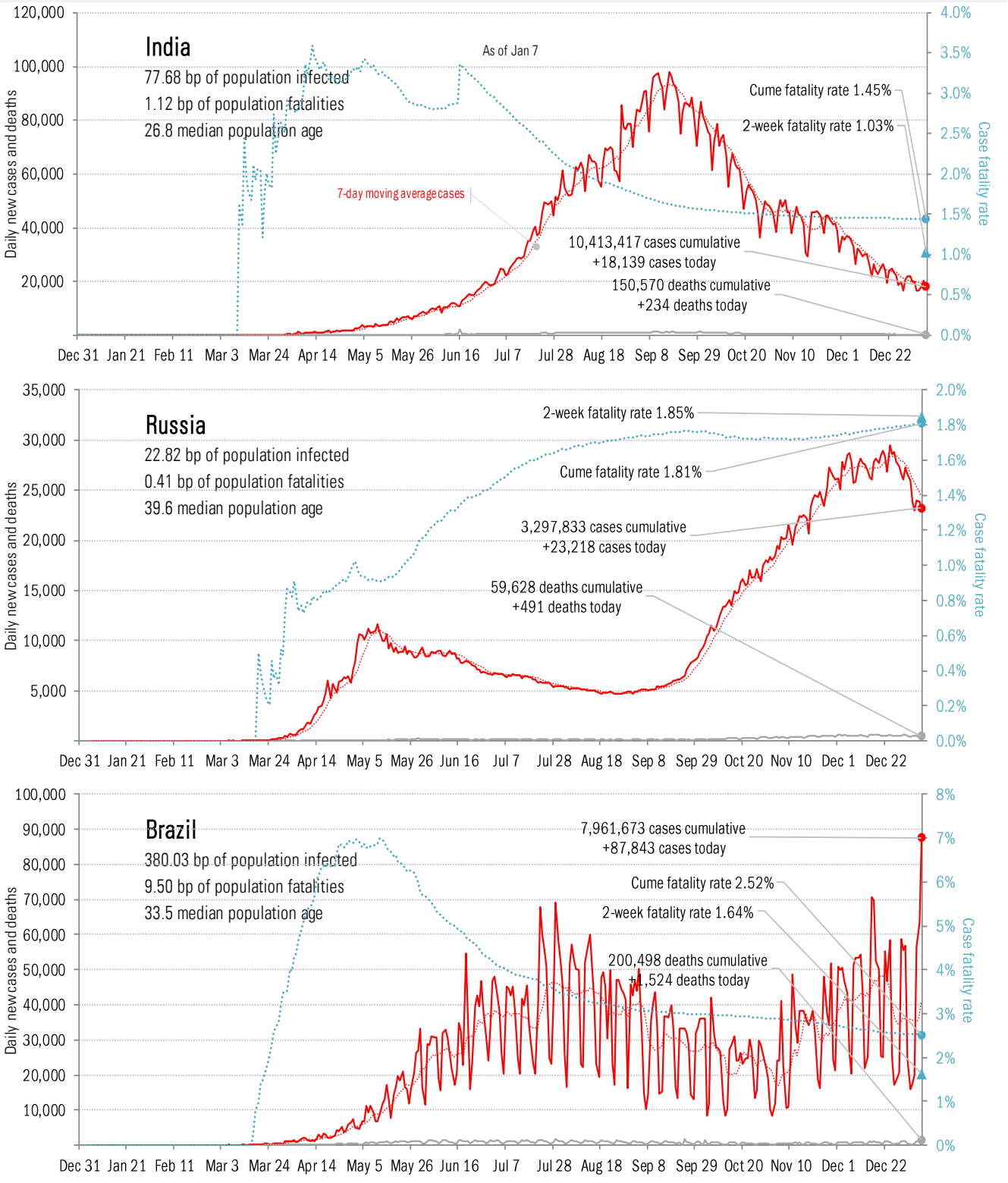
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



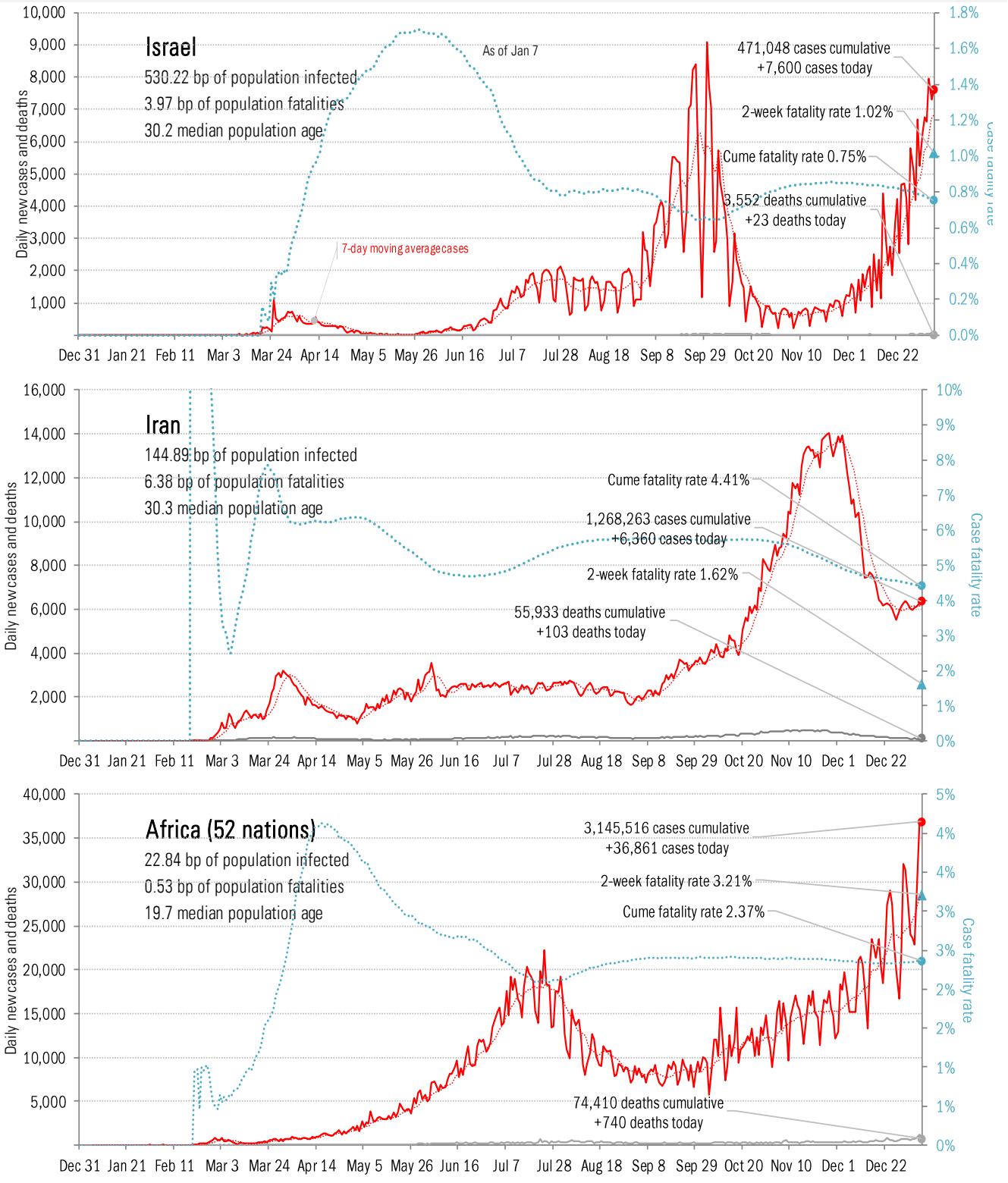
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations