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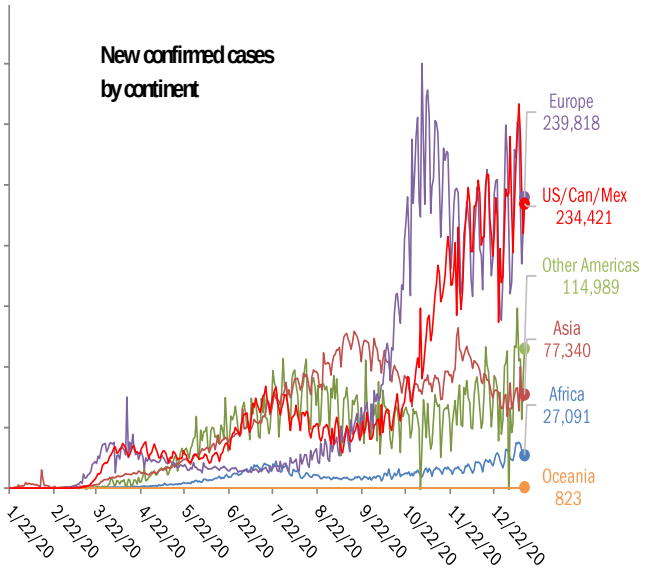
Data Insights: Covid-2019 Monitor

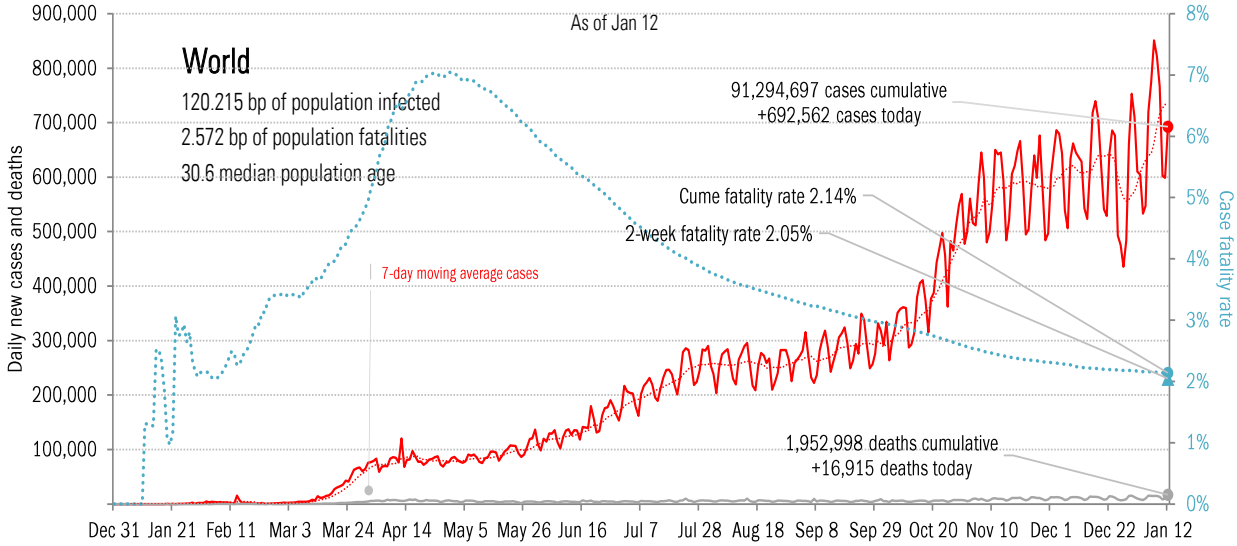
Wednesday, January 13, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+213,885	United States	+4,056
Brazil	+64,025	Mexico	+1,314
United Kingdom	+45,648	United Kingdom	+1,246
Germany	+27,210	Brazil	+1,110
Spain	+25,438	Germany	+1,090
#N/A	+22,657	South Africa	+755
#N/A	+19,680	France	+742
#N/A	+17,395	Italy	+616
India	+15,968	Russia	+519
Mexico	+14,395	Spain	+408
	+466,301		+11,856
World	+692,562	World	+16,915
Top ten	67%	Top ten	70%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

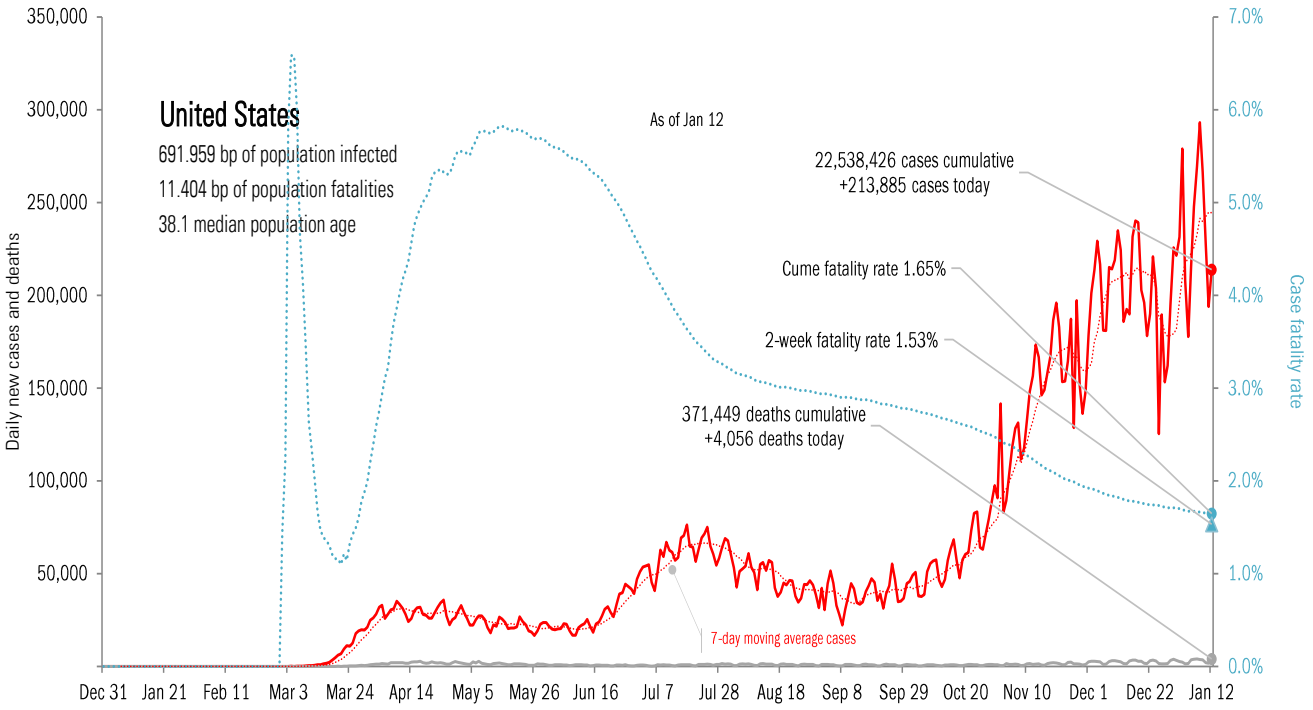
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	+36,487	CA	+548	TX	+821	CA	2,747,288	NY	32,007	NY	89,995	RI	90%	AL	96%
TX	+26,052	AZ	+335	NY	+281	TX	1,995,292	CA	30,513	FL	67,158	GA	89%	GA	94%
NY	+15,214	TX	+286	NC	+97	FL	1,476,484	TX	30,219	NJ	53,577	SC	88%	RI	91%
FL	+14,526	PA	+227	AZ	+85	NY	1,155,370	FL	23,585	GA	45,177	MD	86%	OK	91%
AZ	+8,559	AL	+226	FL	+70	IL	1,040,168	NJ	20,039	AZ	44,389	DC	84%	CA	89%
OH	+7,981	MO	+204	VA	+68	OH	792,938	IL	19,497	OH	41,863	FL	83%	NM	89%
PA	+7,275	GA	+187	SC	+66	PA	733,429	PA	18,080	AL	37,587	CA	81%	TN	89%
NC	+6,851	NY	+166	LA	+53	TN	660,874	MI	14,296	IN	37,505	PA	81%	TX	88%
IL	+6,642	FL	+161	NJ	+50	GA	648,694	MA	13,273	MD	28,860	AZ	81%	MS	87%
GA	+5,982	TN	+146	NV	+50	AZ	636,100	GA	11,662	MN	22,931	MA	81%	SC	87%
	+135,569		+2,486		+1,641		11,886,637		213,171		469,042				
All states	+213,885		+4,056		+1578	All states	22,538,426		371,449		748,277	All states	76%		80%
Top ten	63%		61%		104%	Top ten	53%		57%		63%	Median	73%		78%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,180	KS	-107	AL	-237	TX	+26,890
CT	-3,675	CT	-59	WA	-103	TN	+10,435
CA	-3,352	NE	-11	ID	-92	OH	+9,644
MI	-2,661	DE	-9	CA	-88	PA	+5,384
OK	-1,675	PR	-9	FL	-86	OK	+5,320



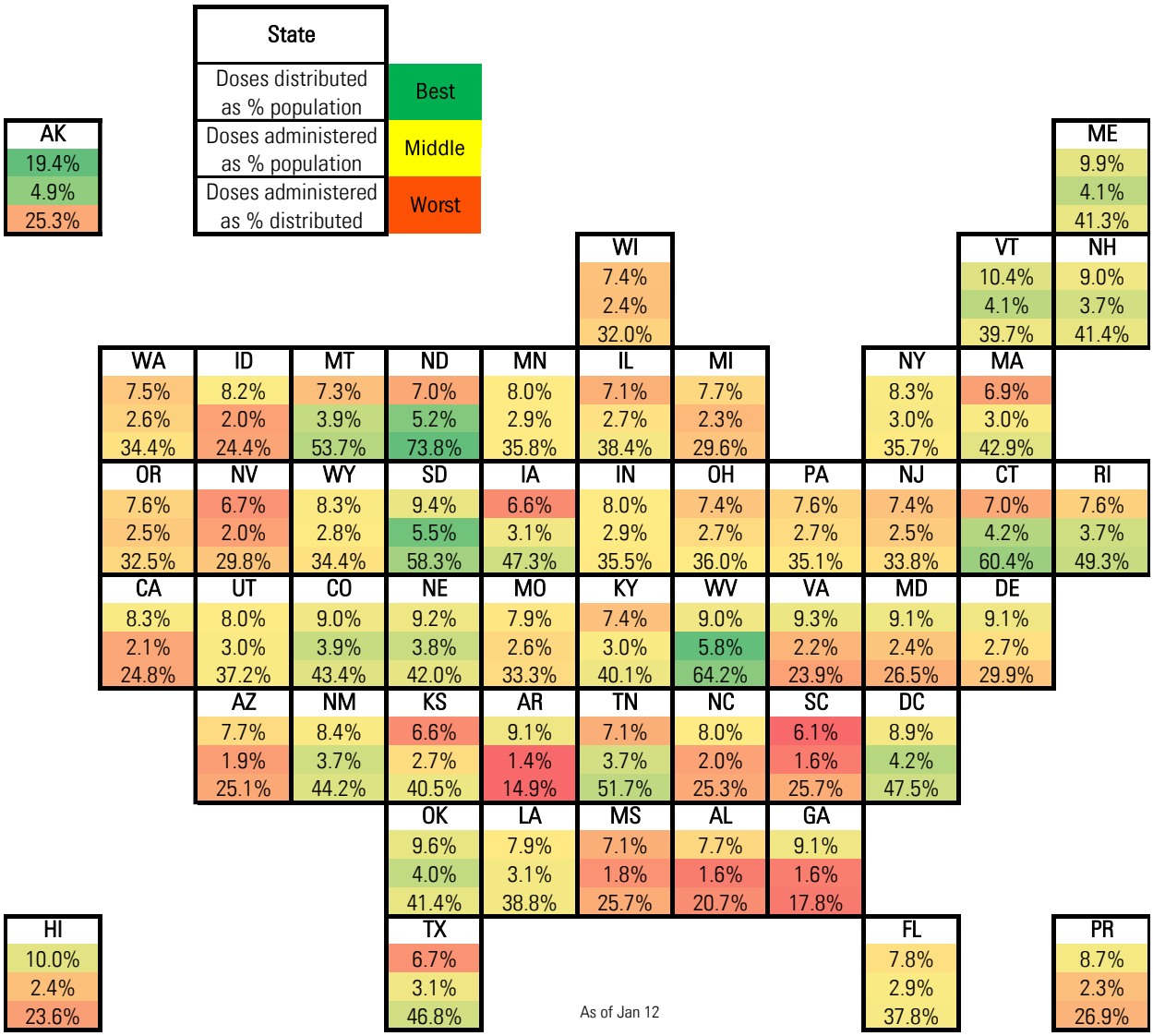
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US

US overall	
27.70 million doses distibuted	+2.22 million/day
9.33 million 1st doses received	+0.34 million/day
4.39 million distributed to long-term care	+0.15 million/day
0.95 million 1st doses long-term care	+0.01 million/day

33.7% of distributed doses administered

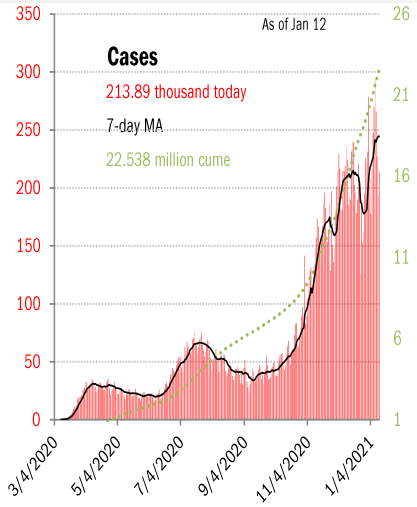
2.8% of US population vaccinated

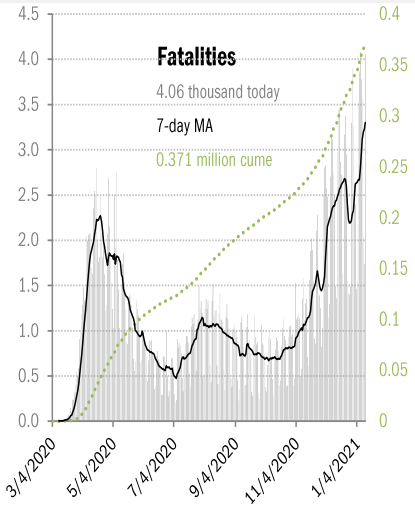


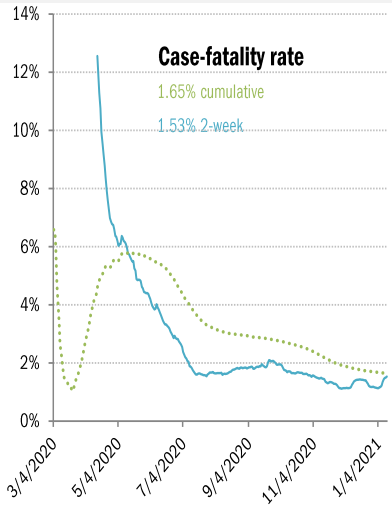
Source: CDC, TrendMacro calculations

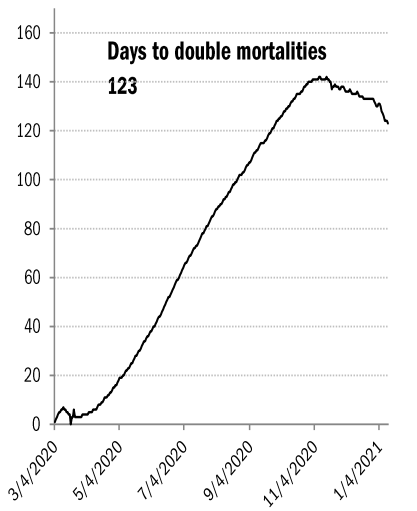
US deep-dive

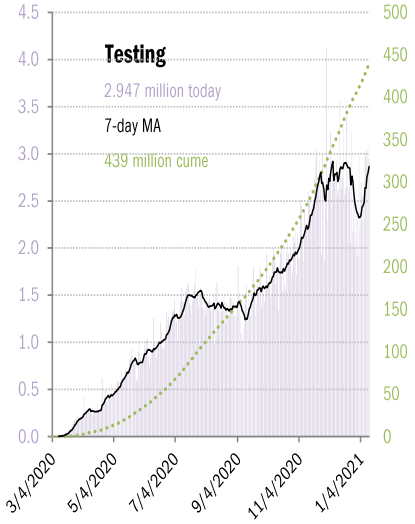
National and state-by-state data do not line up because of different sources

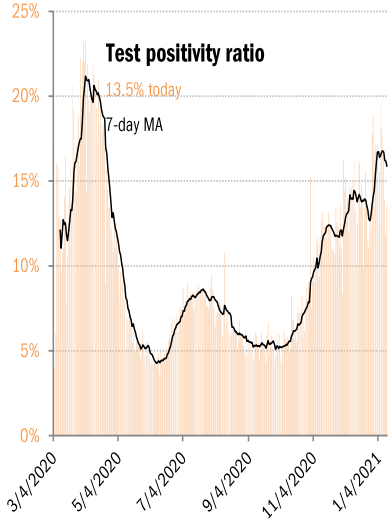


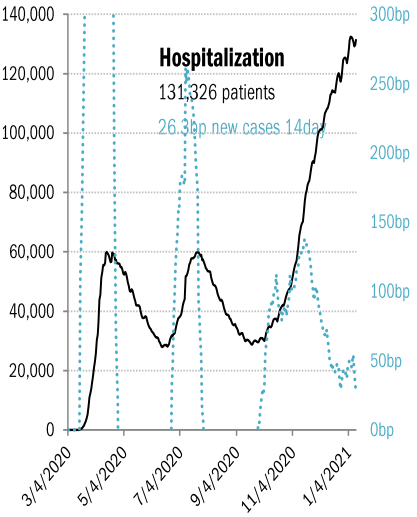


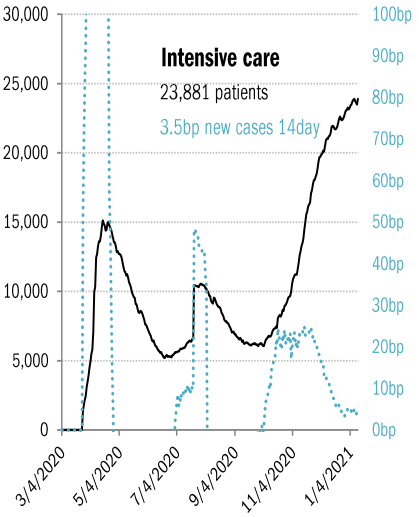


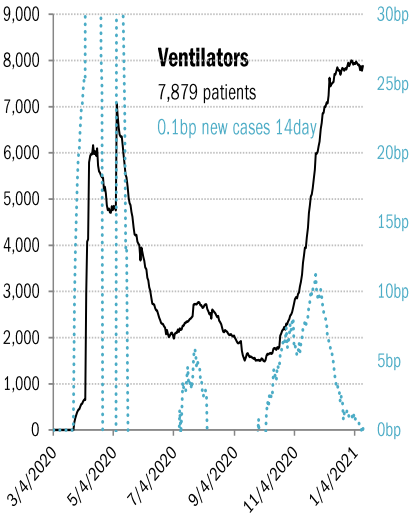






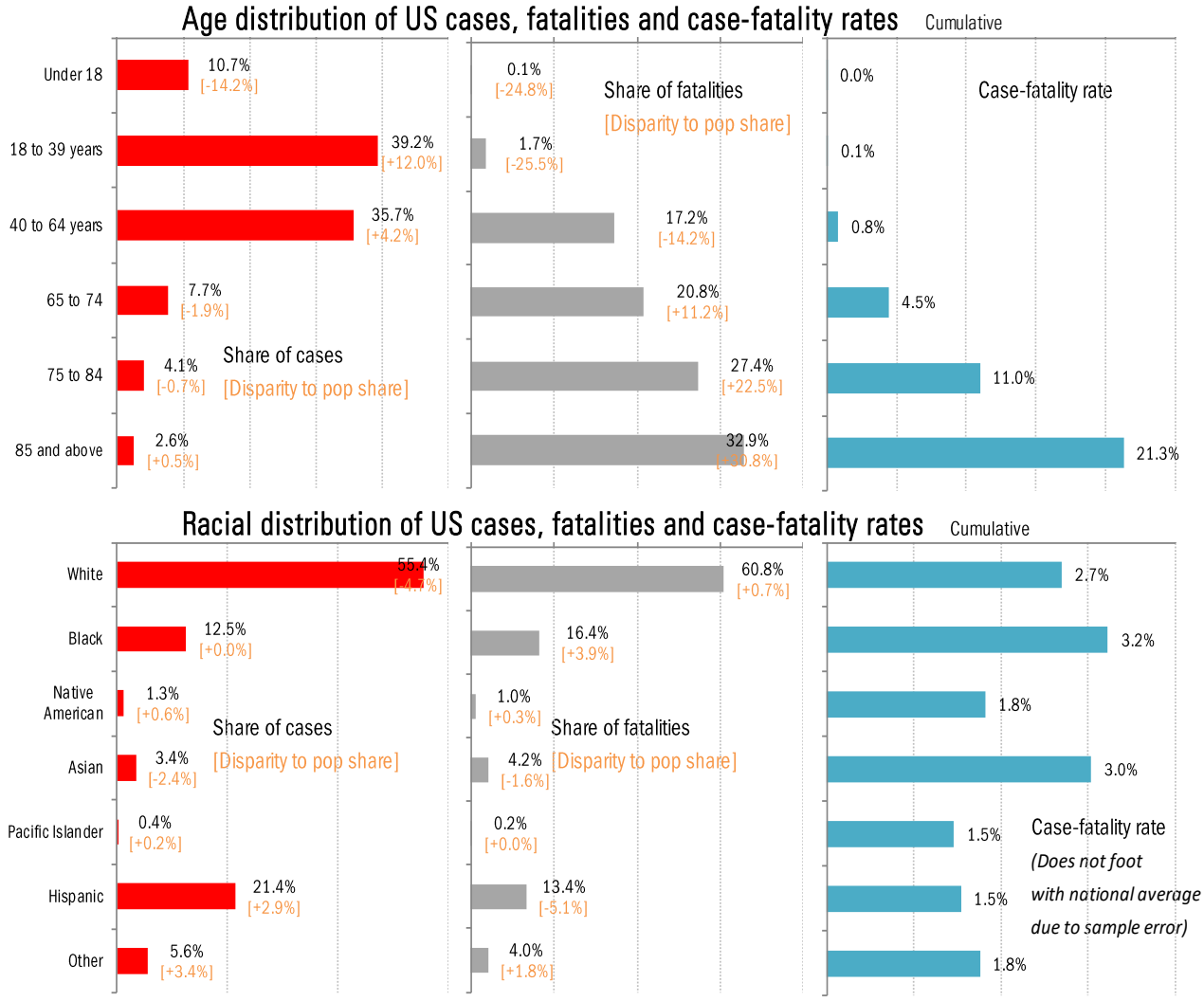




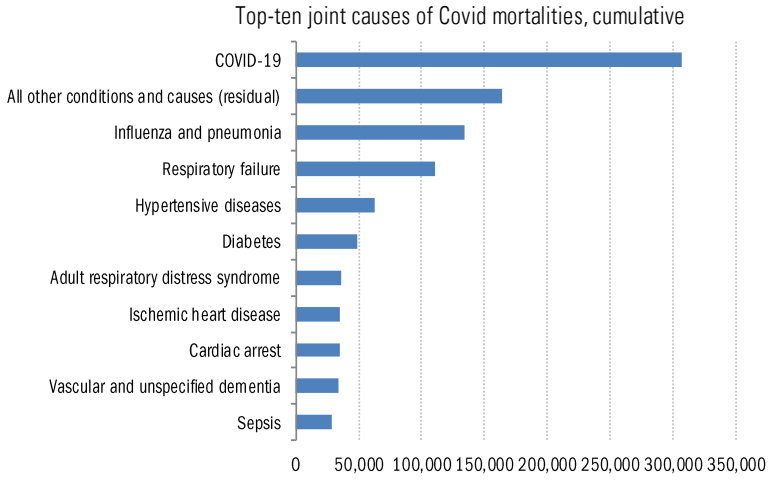


Source: Covid Tracking Project, TrendMacro calculations

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

An Anti-Bureaucracy Vaccine, Please
Wall Street Journal
January 12, 2021

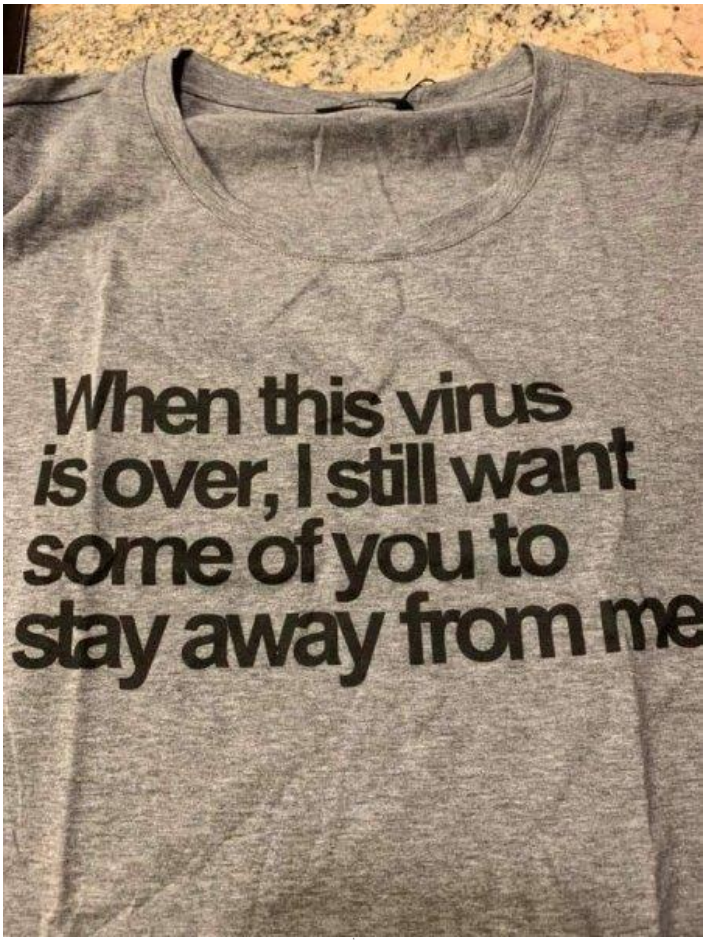
Vaccination by Age Is the Way to Go
Paul E. Peterson
Wall Street Journal
January 12, 2021

Following COVID-19 death and new cases, Maimonides families demand second vaccine dose for elderly parents
Katherine Wilton
Montreal Gazette
January 11, 2021

New cover-up fears as Chinese officials delete critical data about the Wuhan lab with details of 300 studies vanishing - including all those carried out by virologist dubbed Batwoman
Jonathan Bucks
Daily Mail
January 9, 2021

The secrets to Israel's coronavirus vaccination success
Dana Regev
Politico
January 11, 2021

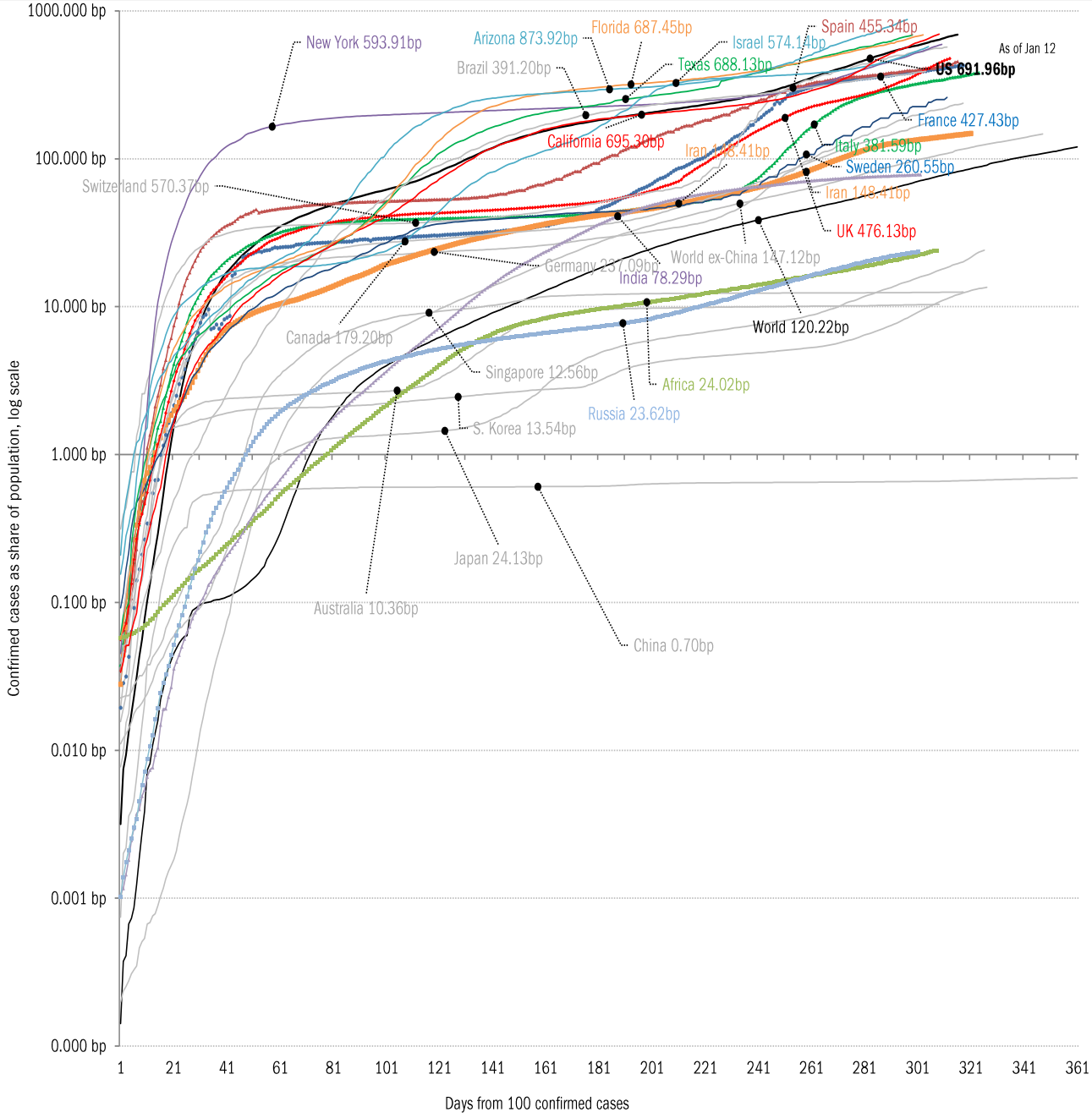
Meme of day



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

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

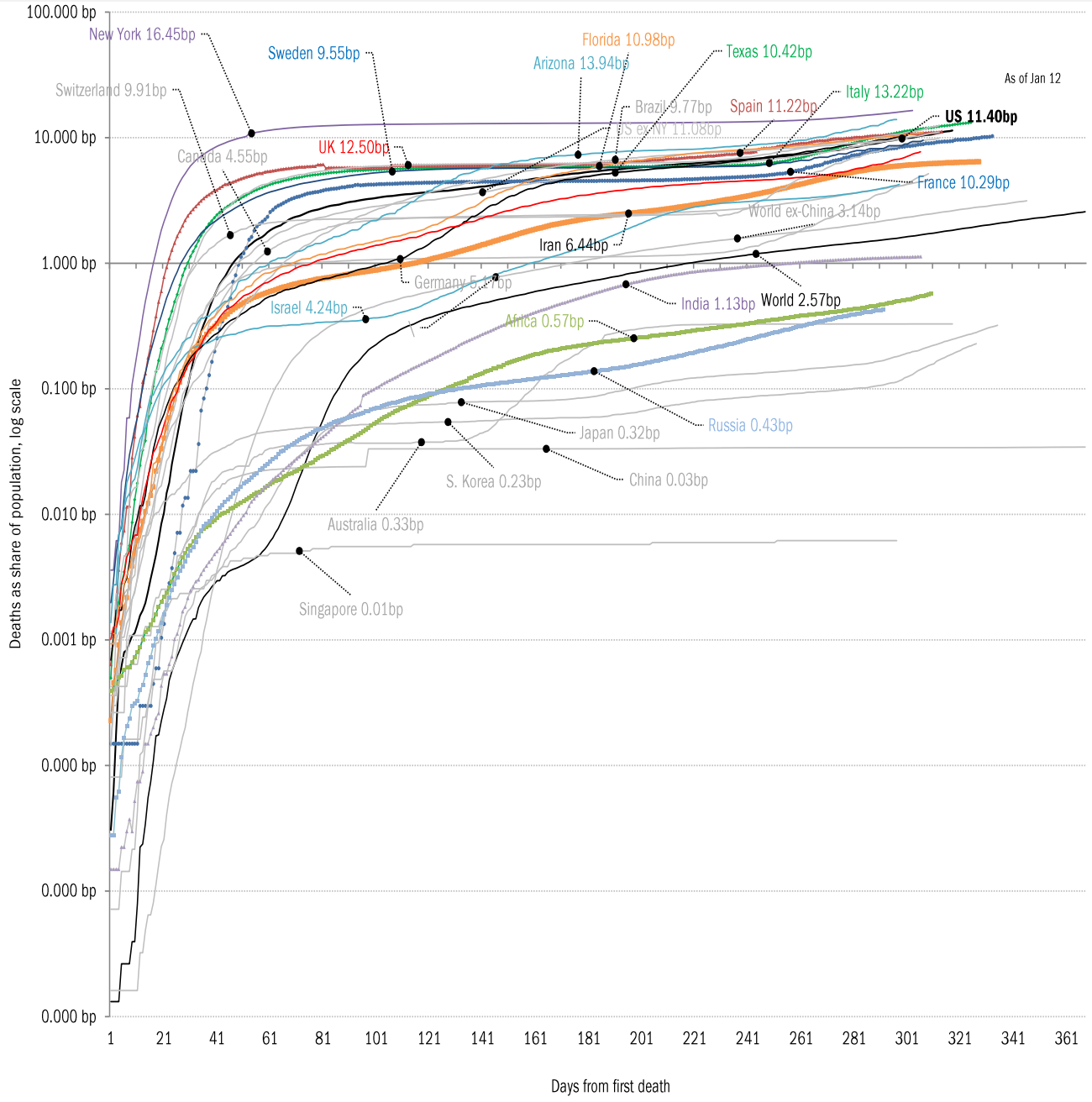
Share of infected population from first day with 100 confirmed cases, log scale



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

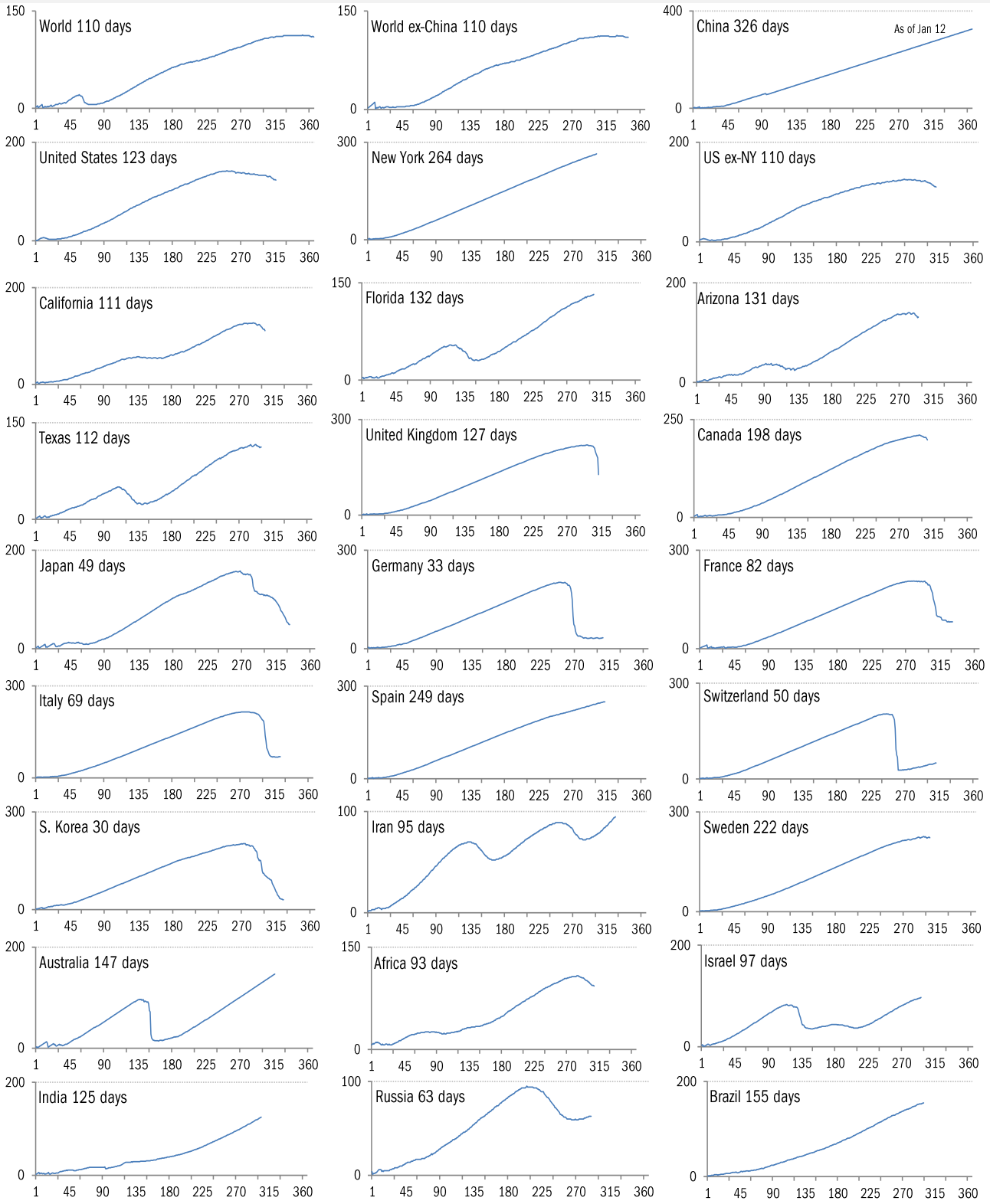


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

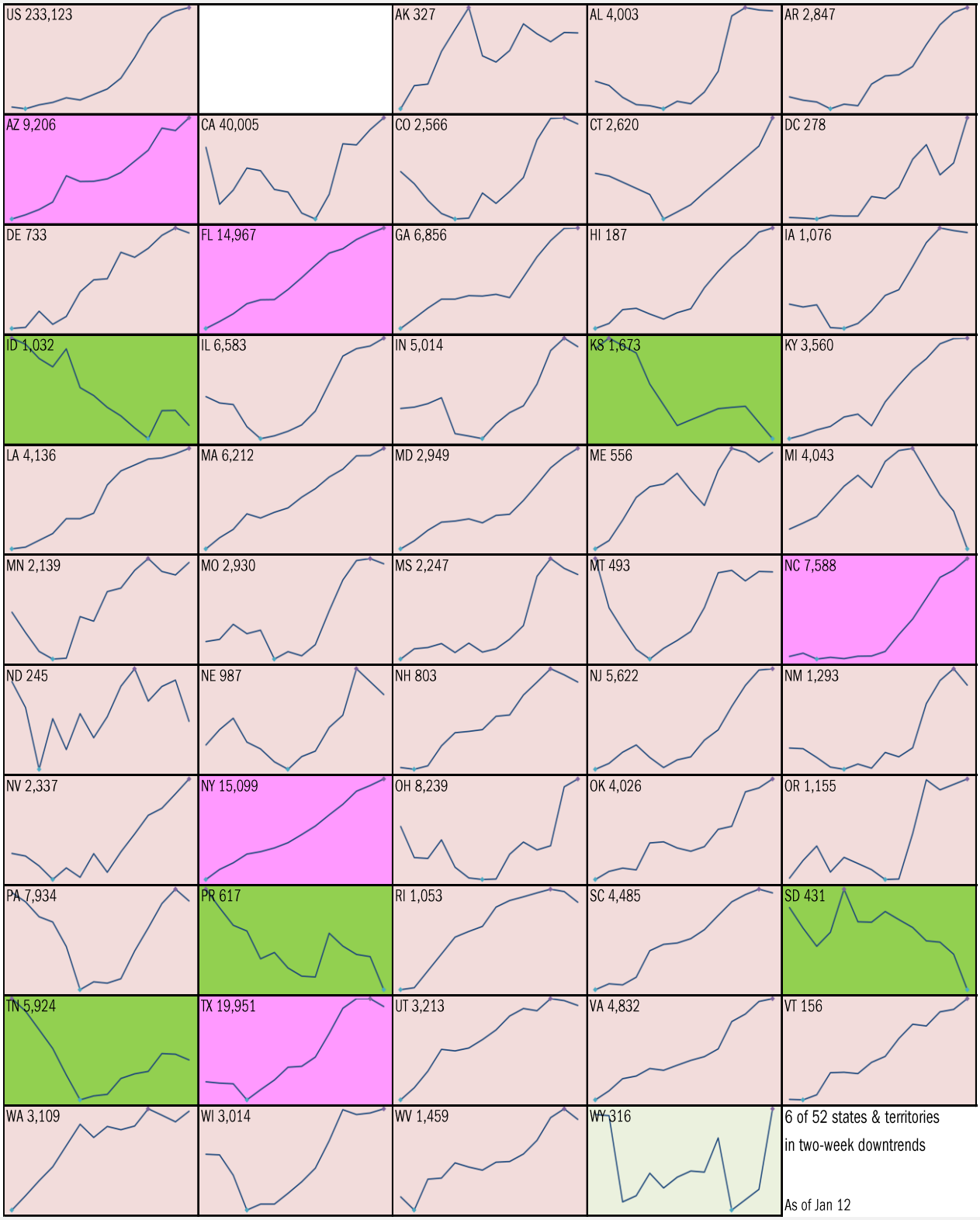


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

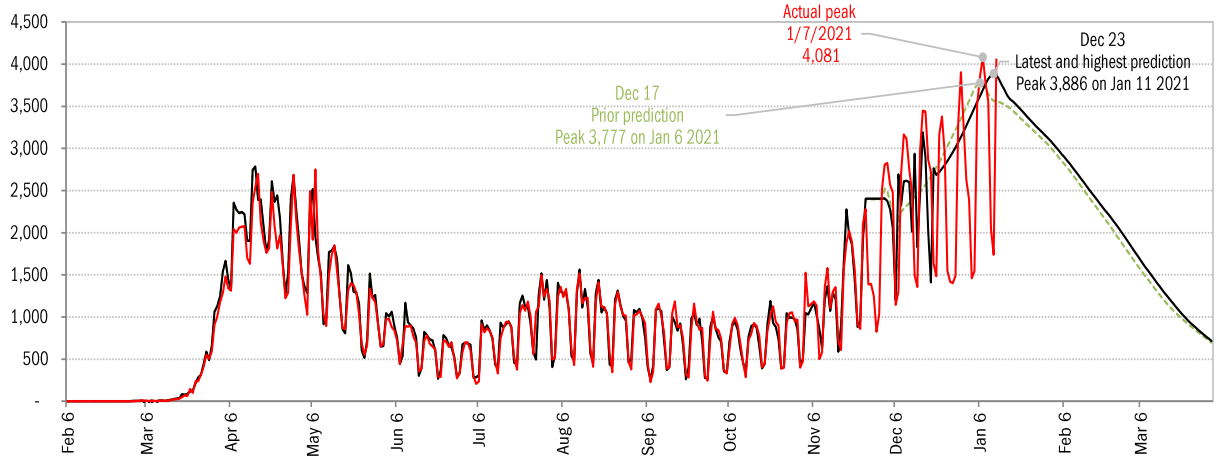
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

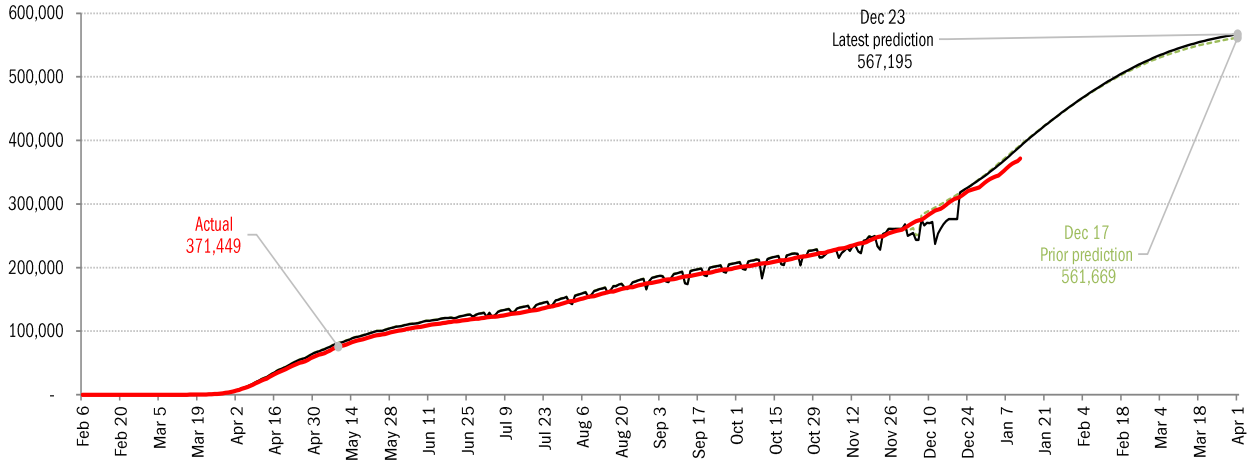
New daily fatalities As of Jan 12

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

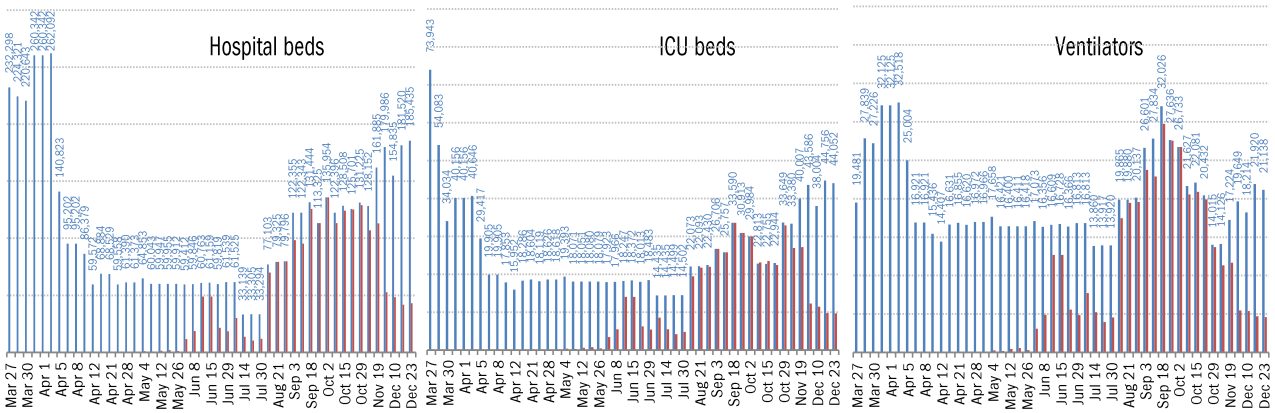


Cumulative fatalities

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

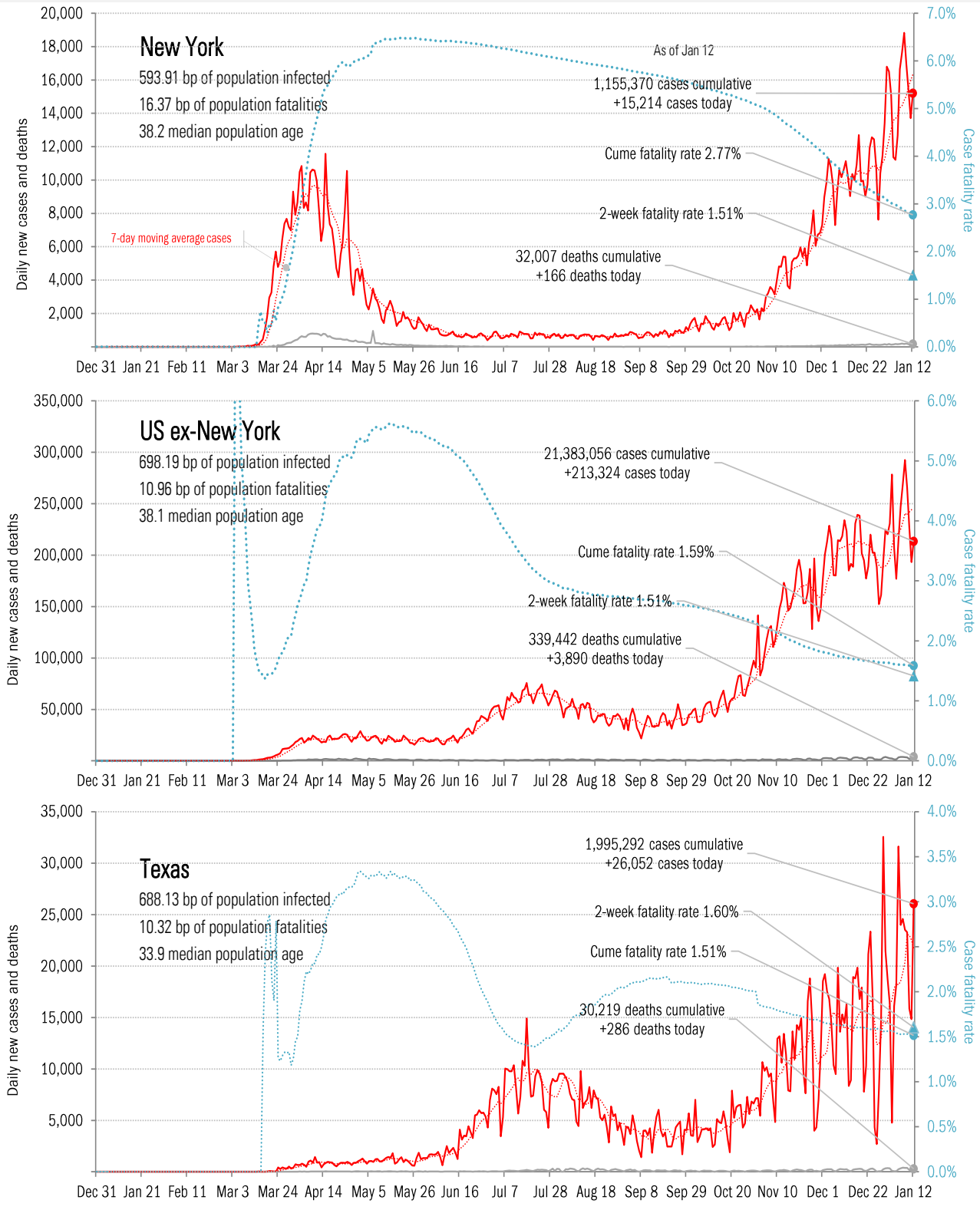


Healthcare system stress, peak and ultimate estimated at each model revision



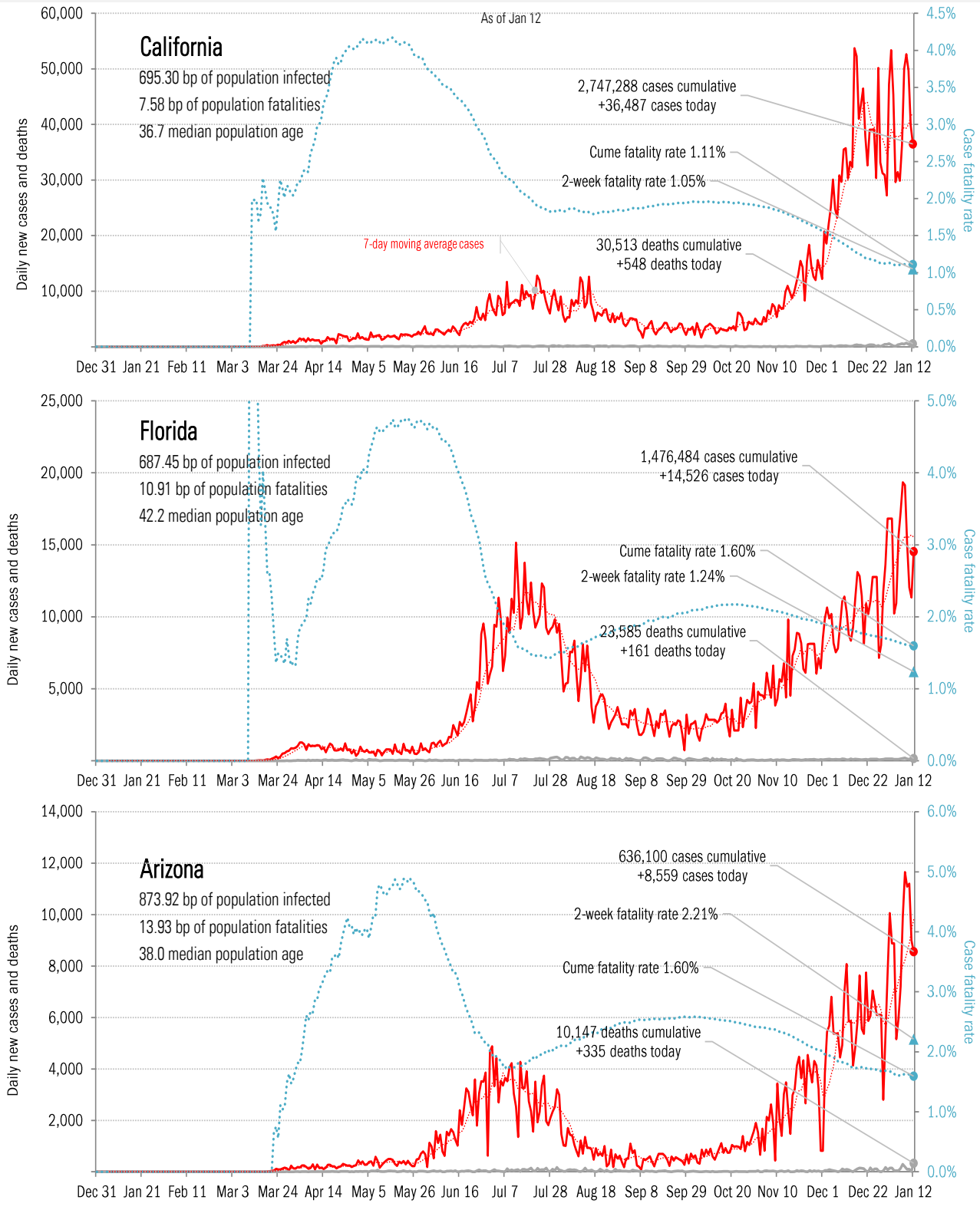
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



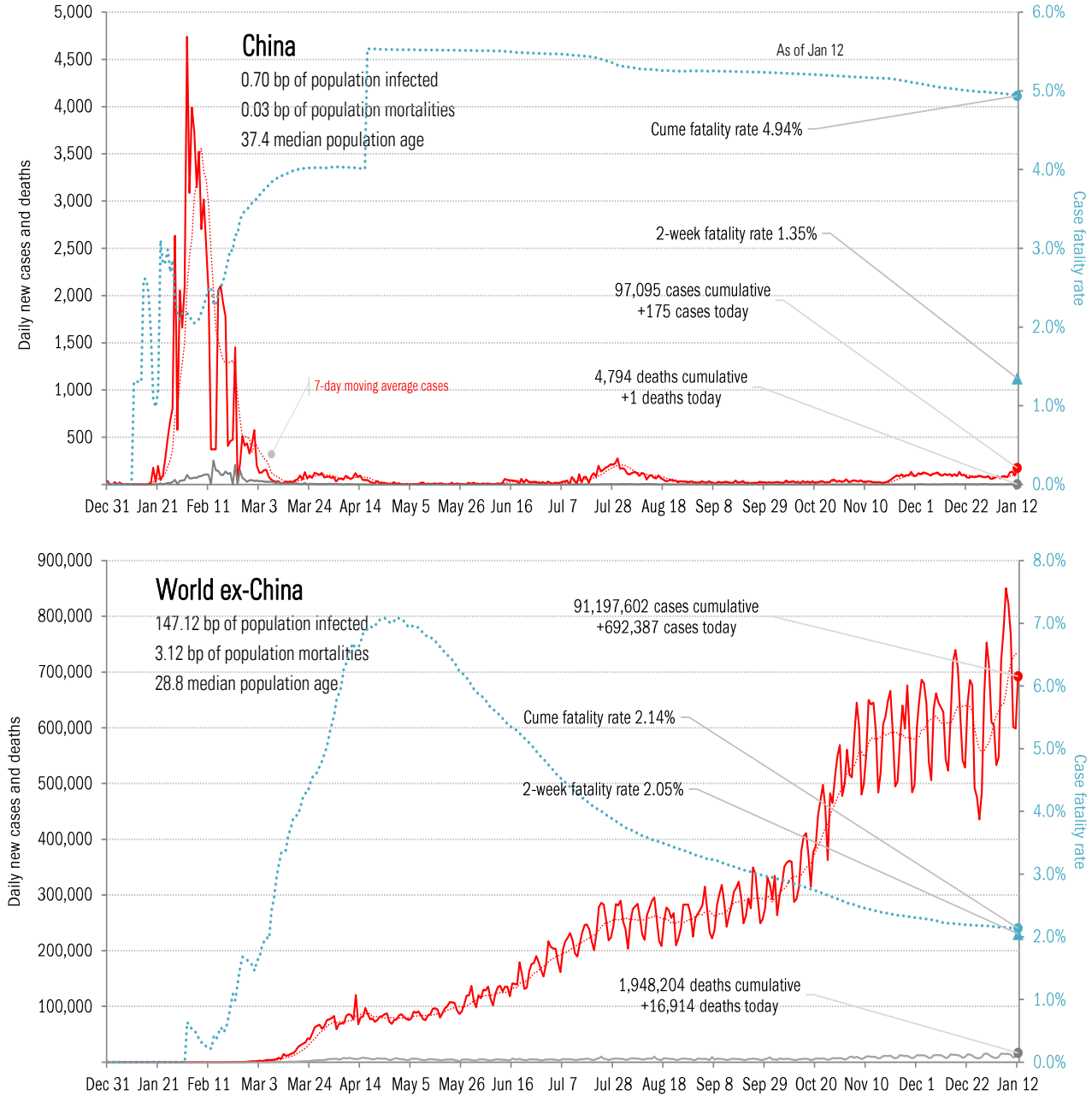
Source: Covid Tracking Project,, TrendMacro calculations

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



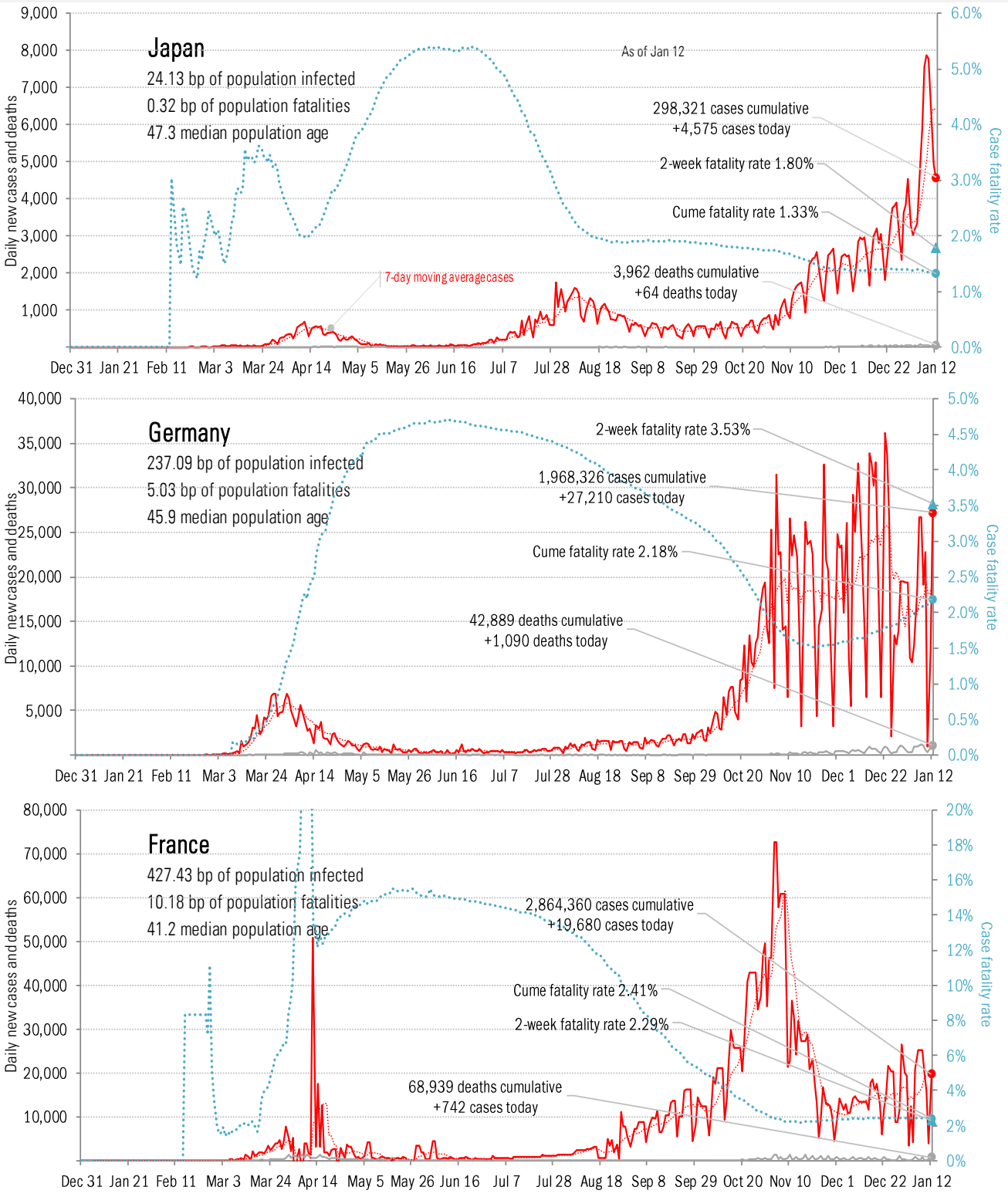
Source: Covid Tracking Project,, TrendMacro calculations

Patient zero… and then everyone else



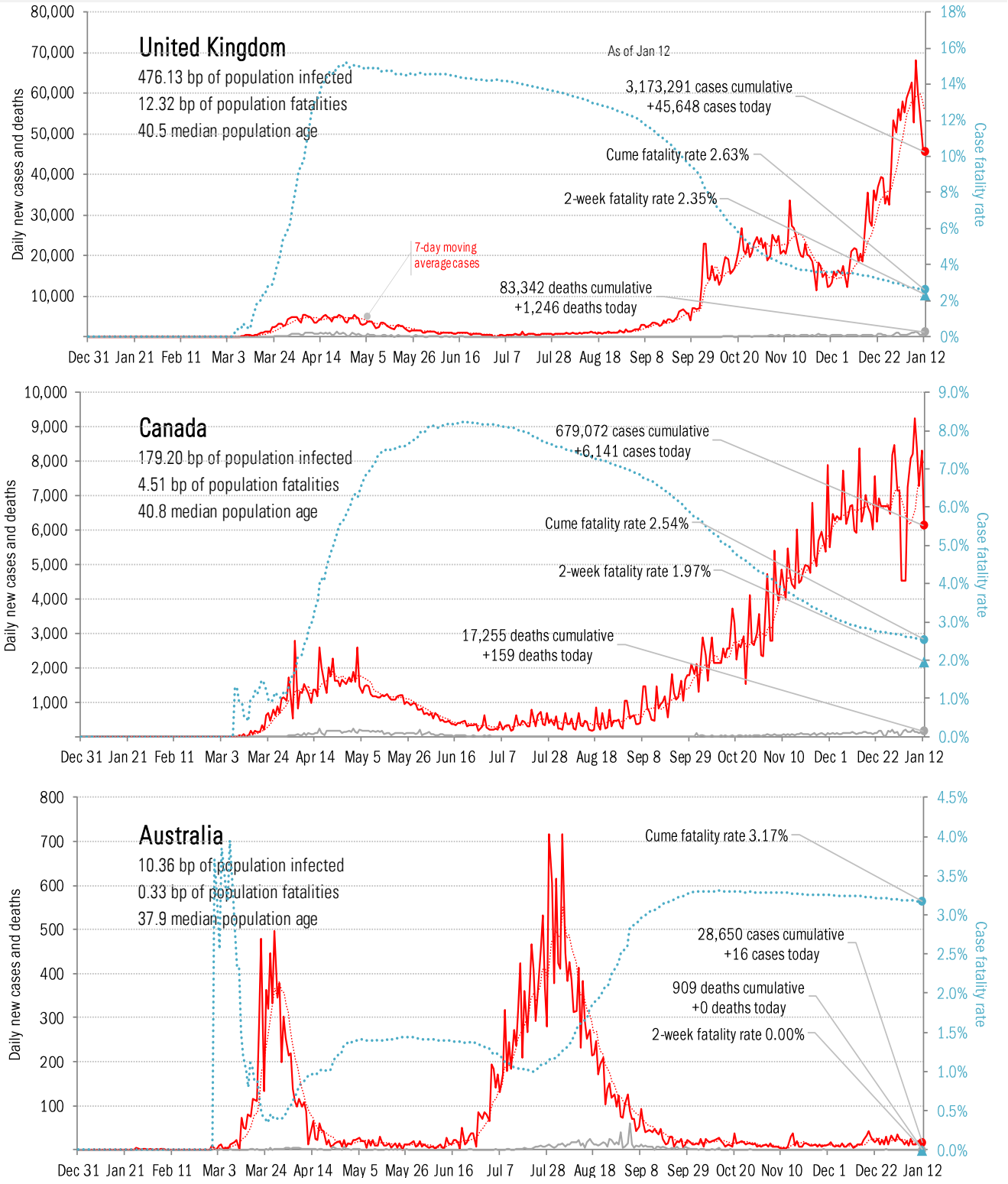
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



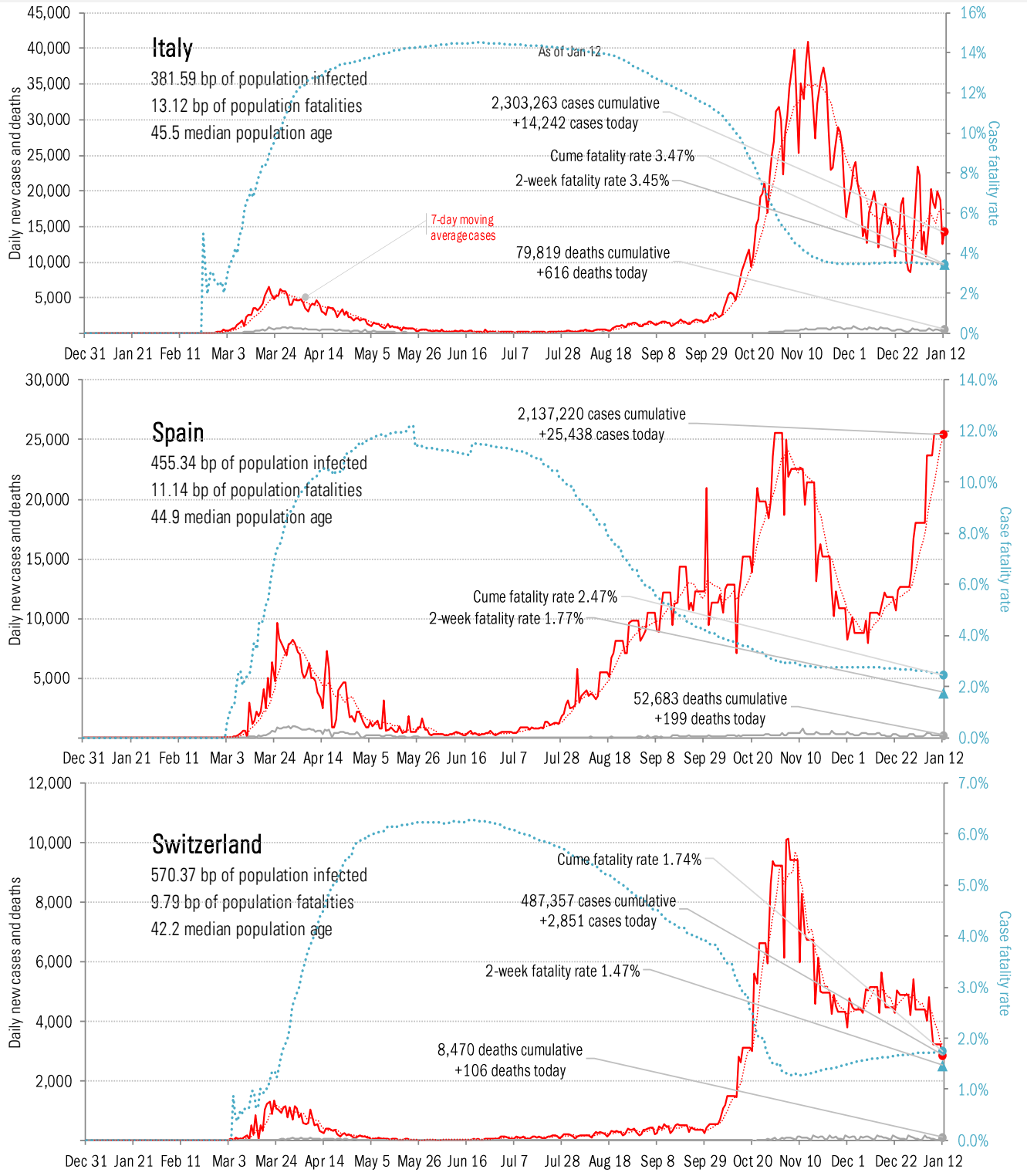
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



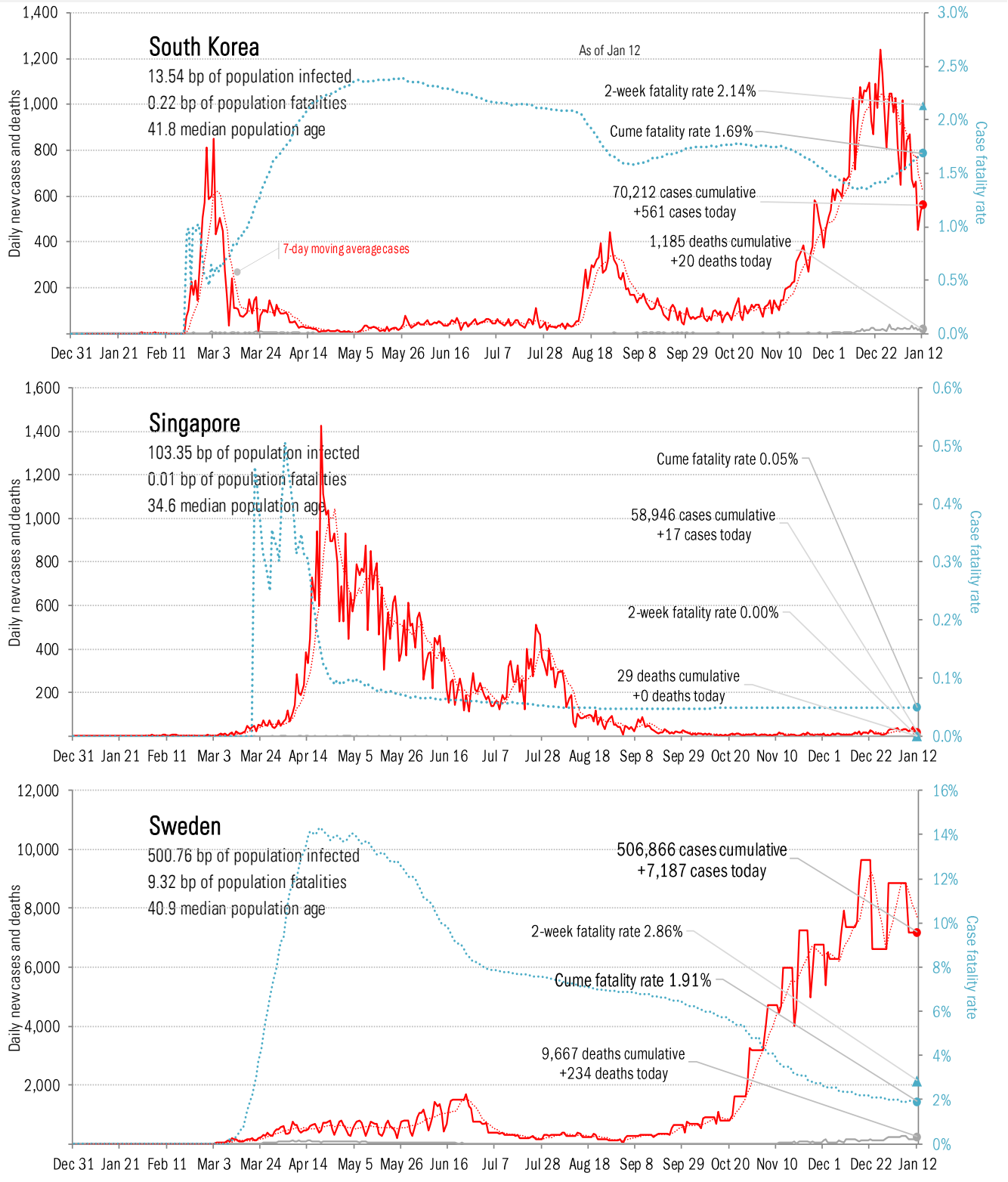
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



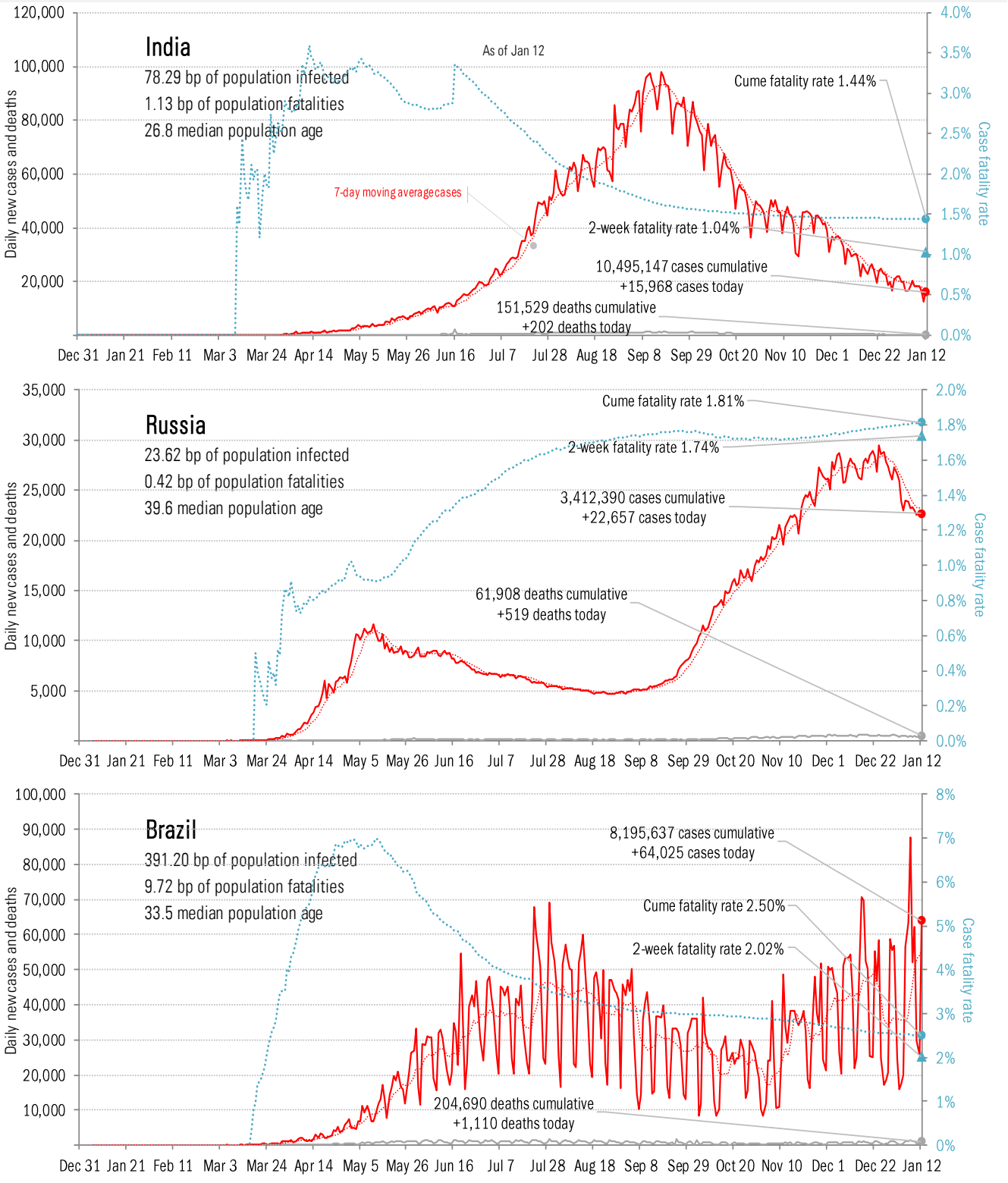
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



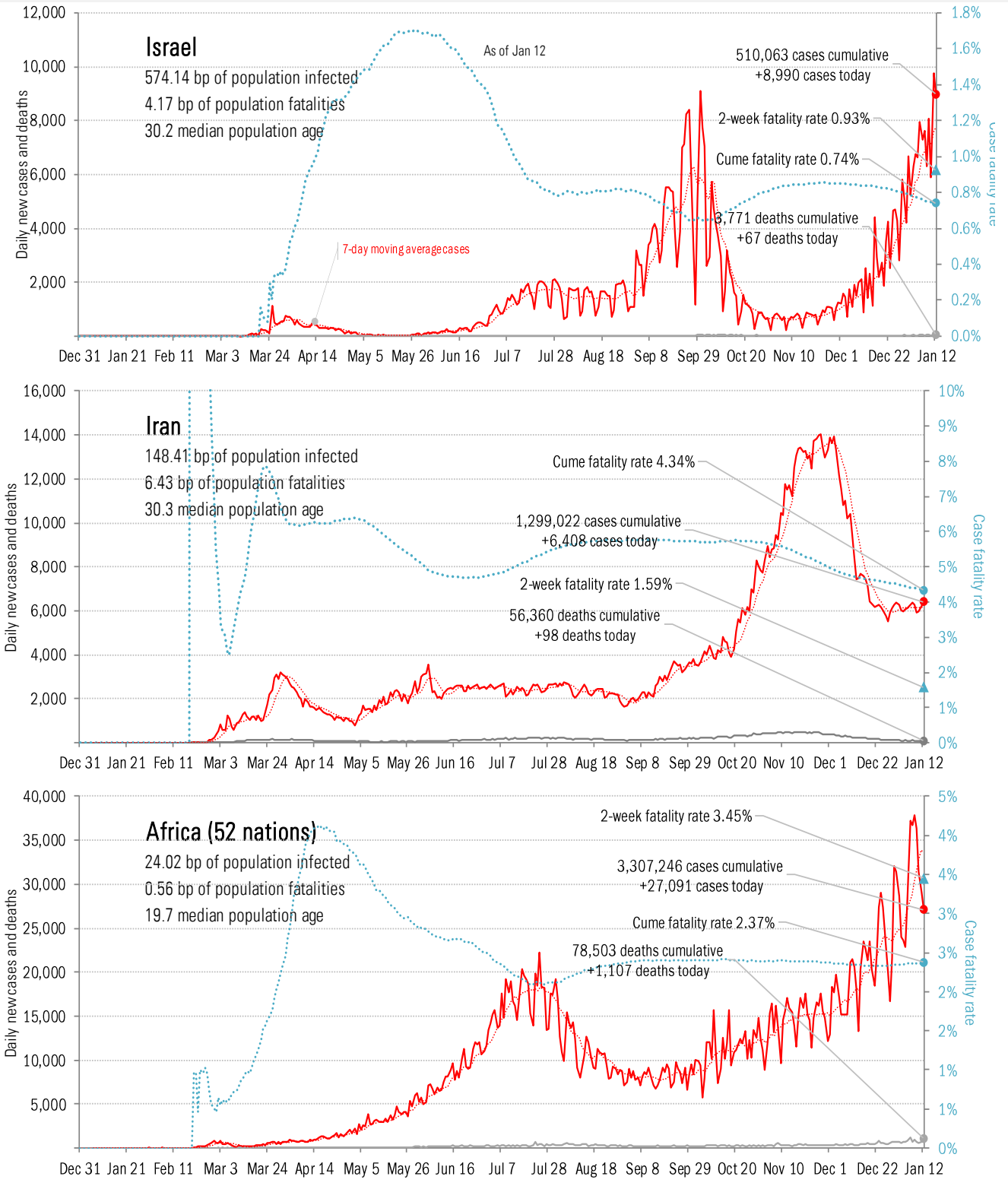
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations