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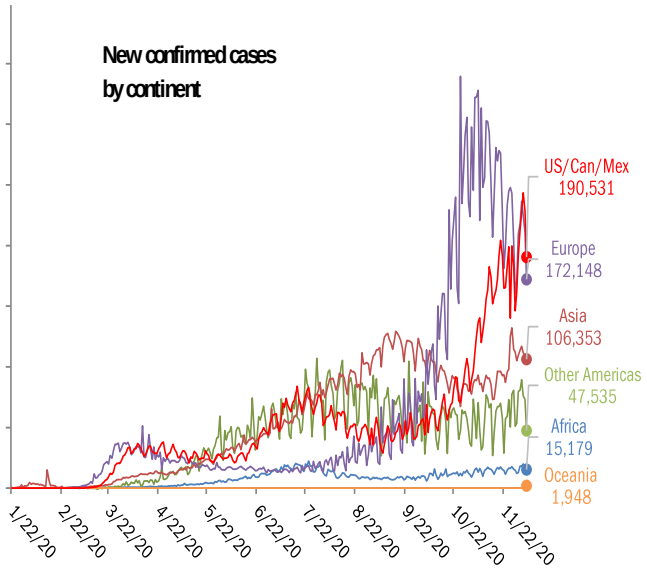
Data Insights: Covid-2019 Monitor

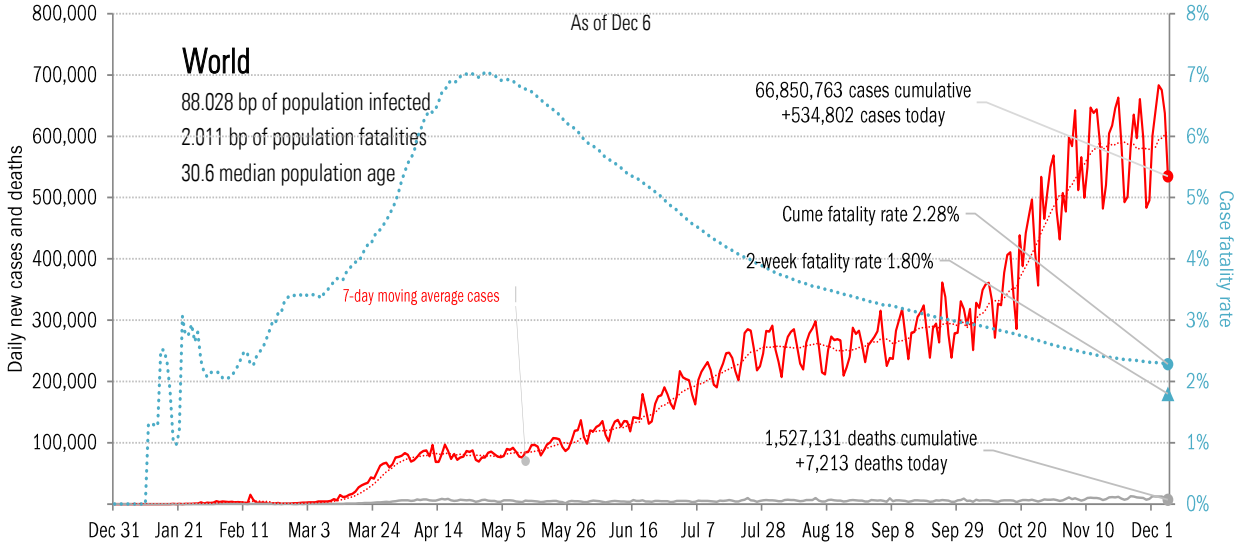
Monday, December 7, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+176,771	United States	+1,138
India	+32,981	Italy	+564
Turkey	+30,402	Russia	+447
Russia	+28,701	India	+391
Brazil	+26,363	Brazil	+313
Italy	+18,887	Iran	+294
United Kingdom	+17,372	Mexico	+261
Ukraine	+11,928	United Kingdom	+231
Iran	+11,561	Poland	+228
France	+11,022	Turkey	+195
	+365,988		+4,062
World	+534,802	World	+7,213
Top ten	68%	Top ten	56%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

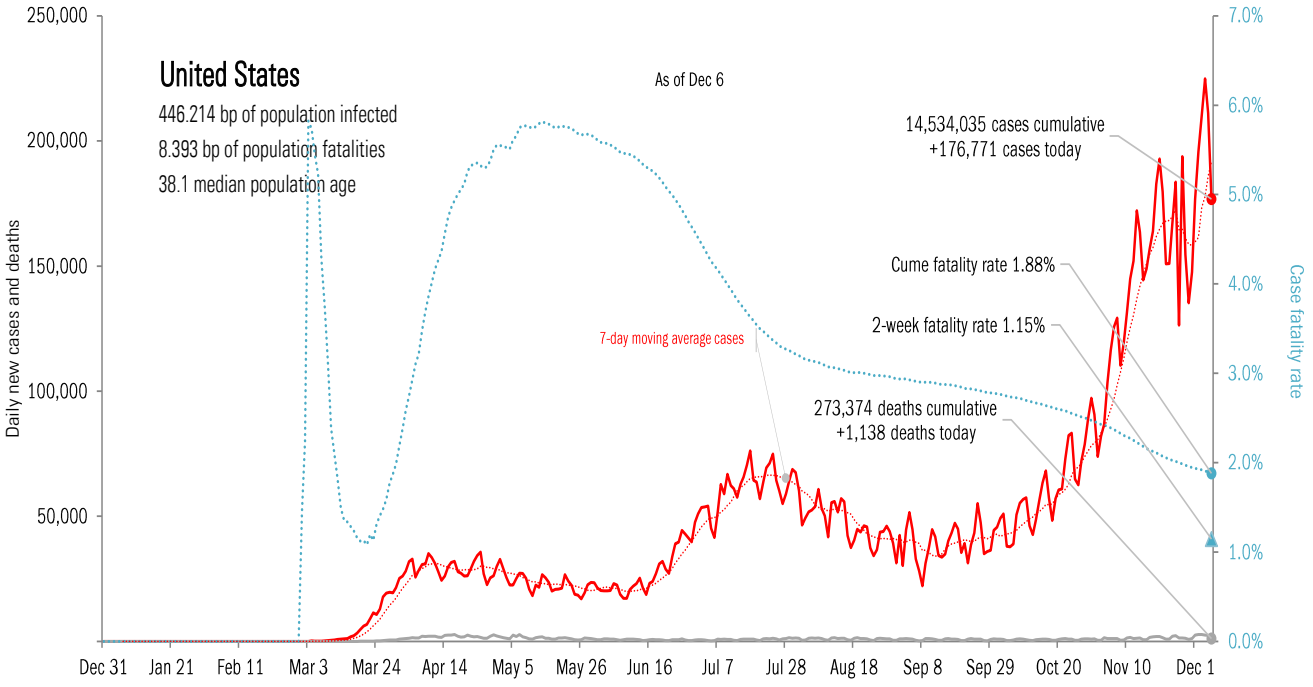
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+30,075	IL	+99	CA	+351	CA	1,341,700	NY	27,149	NY	89,995
NY	+9,702	FL	+96	NY	+124	TX	1,249,323	TX	22,594	FL	57,185
PA	+8,630	TX	+92	VA	+117	FL	1,040,727	CA	19,876	NJ	42,456
TX	+8,573	CA	+85	OH	+94	IL	787,573	FL	19,423	GA	36,039
FL	+8,175	PA	+69	GA	+76	NY	705,827	NJ	17,321	OH	29,233
IL	+7,598	MN	+64	FL	+61	OH	475,024	IL	14,116	IN	28,367
OH	+7,592	NY	+60	AL	+60	GA	443,822	PA	11,331	AZ	28,248
IN	+6,598	MA	+51	AZ	+46	WI	441,067	MA	11,004	AL	26,331
NC	+6,438	SC	+49	TN	+45	MI	426,576	MI	10,321	MD	22,095
NJ	+6,030	AR	+40	LA	+35	PA	420,114	GA	9,806	MN	18,233
	+99,411		+705		+1,009		7,331,753		162,941		378,182
All states	+176,771	All states	+1,138	All states	+297	All states	14,534,035	All states	273,374	All states	585,676
Top ten	56%	Top ten	62%	Top ten	340%	Top ten	50%	Top ten	60%	Top ten	65%

Some states not reporting

Five most improved US states

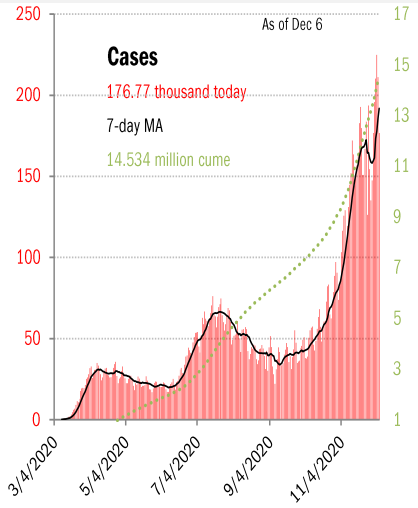
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
MI	-6,308	MI	-204	TX	-136	TX	+8,419
PA	-4,254	TX	-155	NV	-111	MN	+7,137
TX	-3,365	IL	-136	IL	-49	OH	+6,052
OH	-2,877	CA	-124	MA	-46	WI	+5,514
WI	-2,562	PA	-80	NE	-38	TN	+2,805

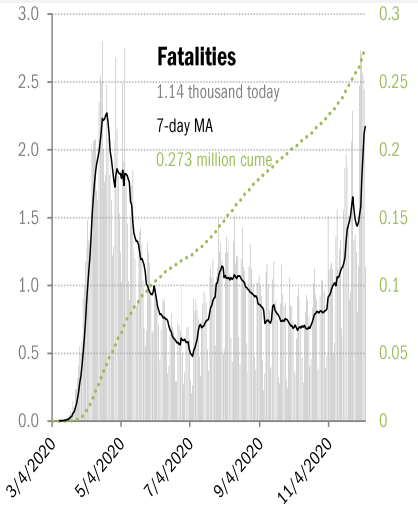


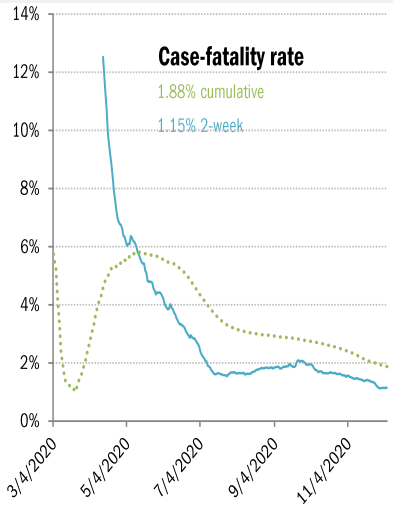
Source: Covid Tracking Project, TrendMacro calculations

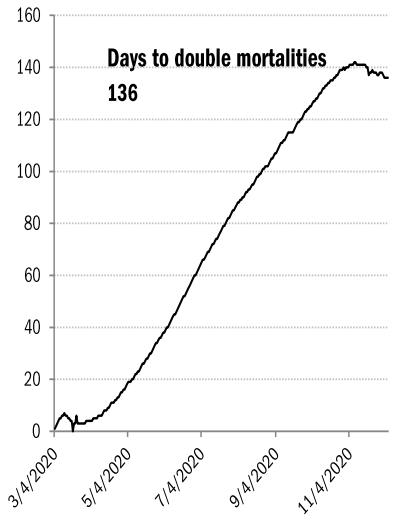
US deep-dive

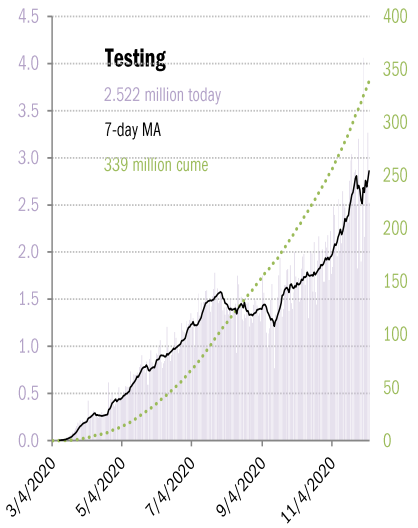
National and state-by-state data do not line up because of different sources

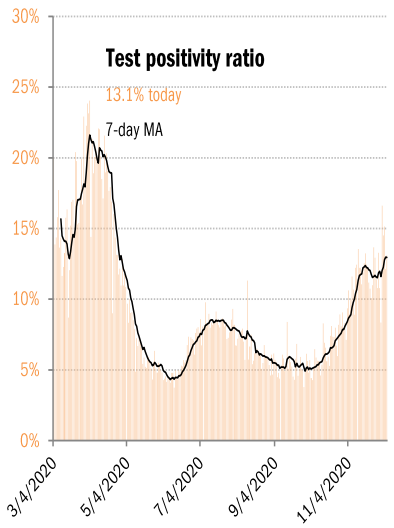


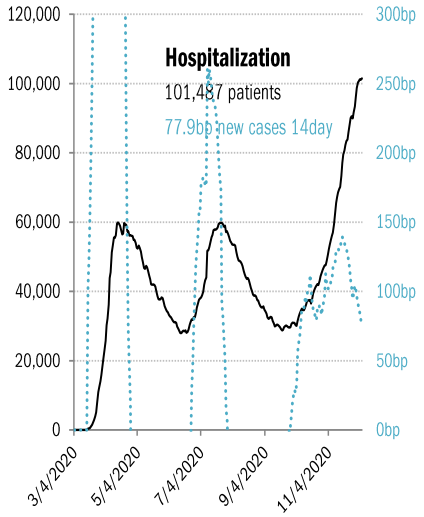


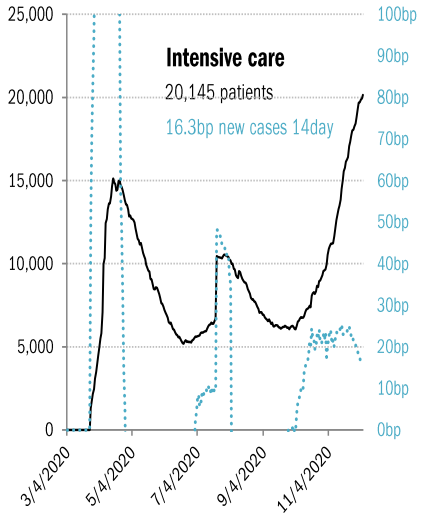


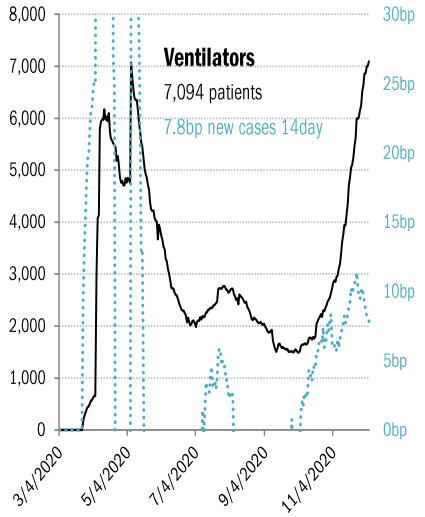






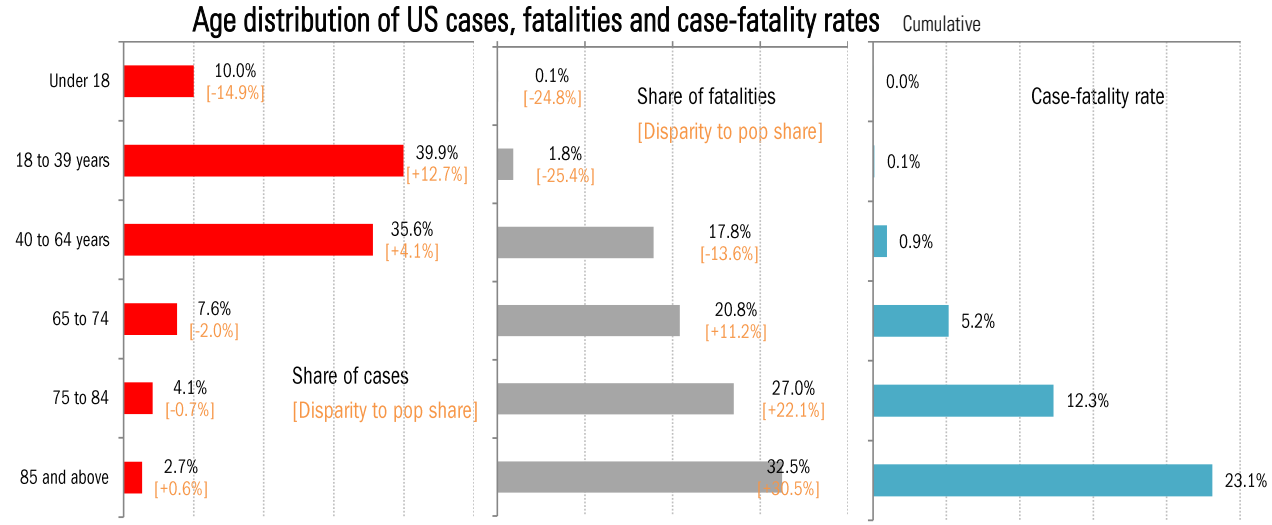


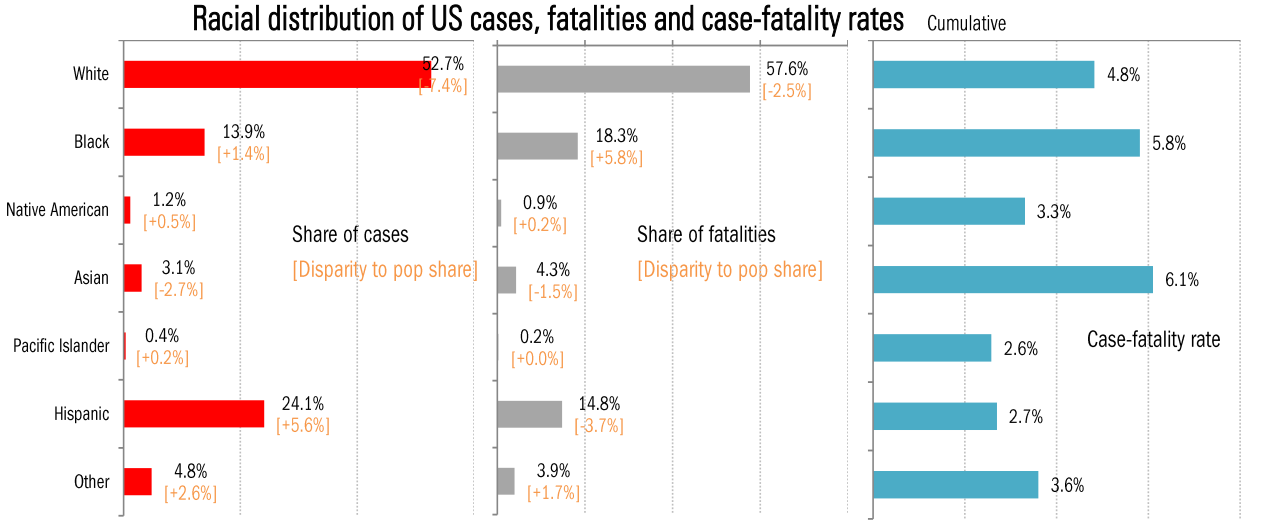




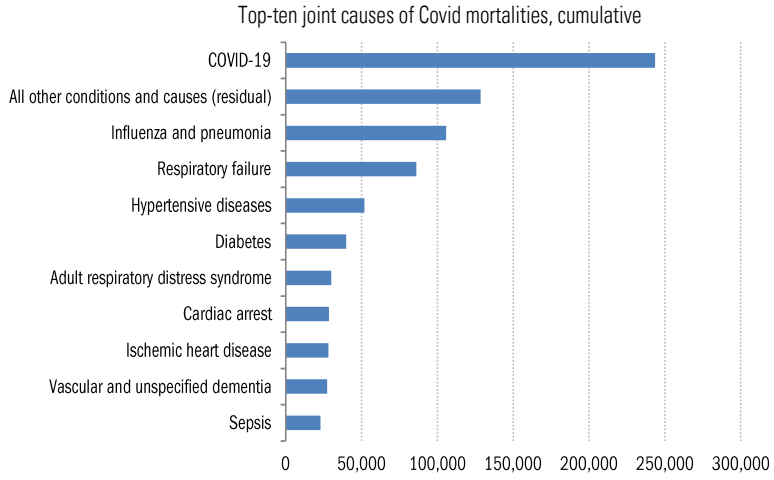
Source: Covid Tracking Project, TrendMacro calculations

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





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 2.6 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

First Cuomo, Now Newsom
Wall Street Journal
December 6, 2020

To rebuild CDC, Biden picks Rochelle Walensky
Tyler Pager
Politico
December 6, 2020

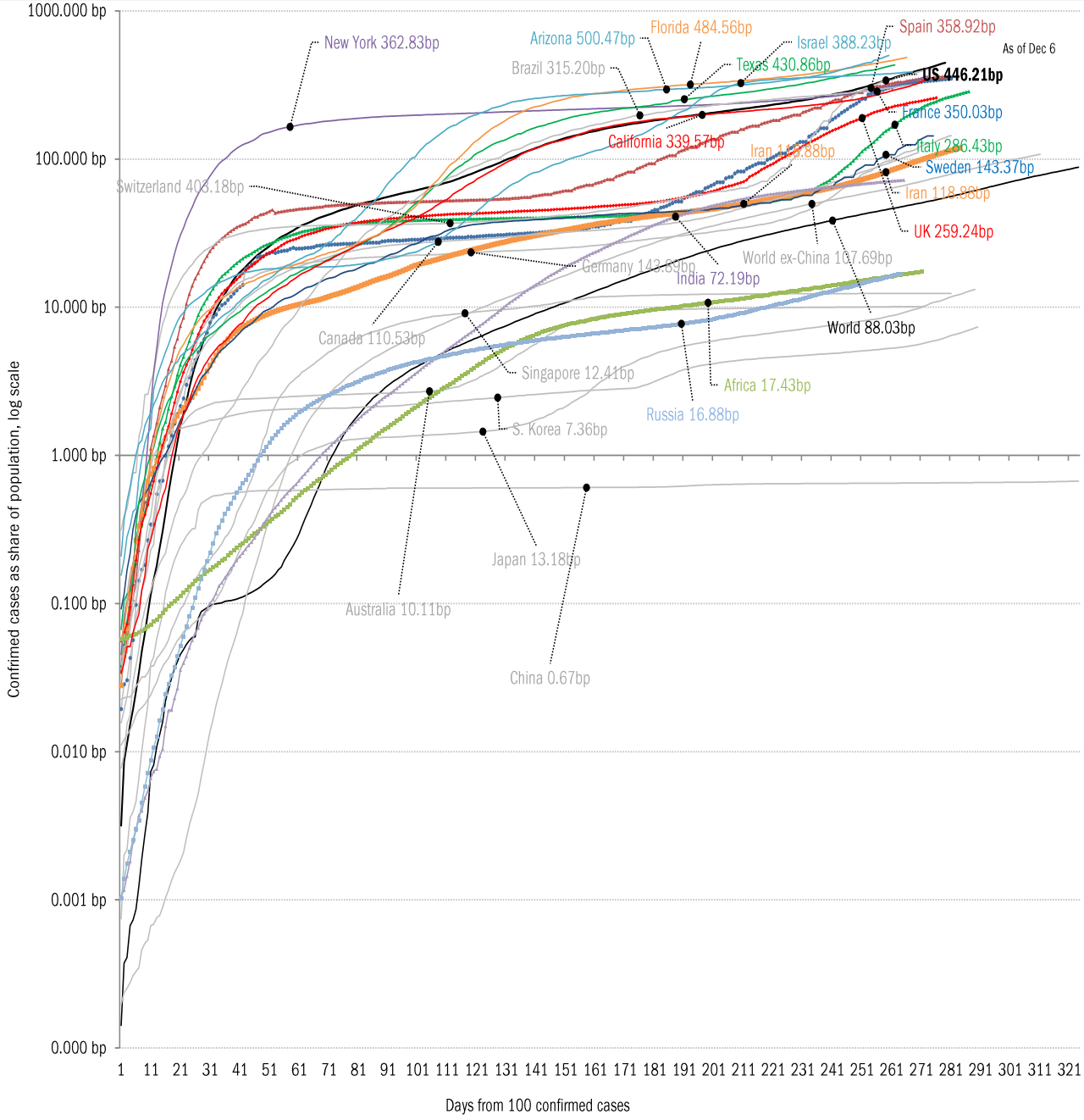
Rudy Giuliani tests positive for Covid-19, Trump says
Katrina Manson
Financial Times
December 6, 2020

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

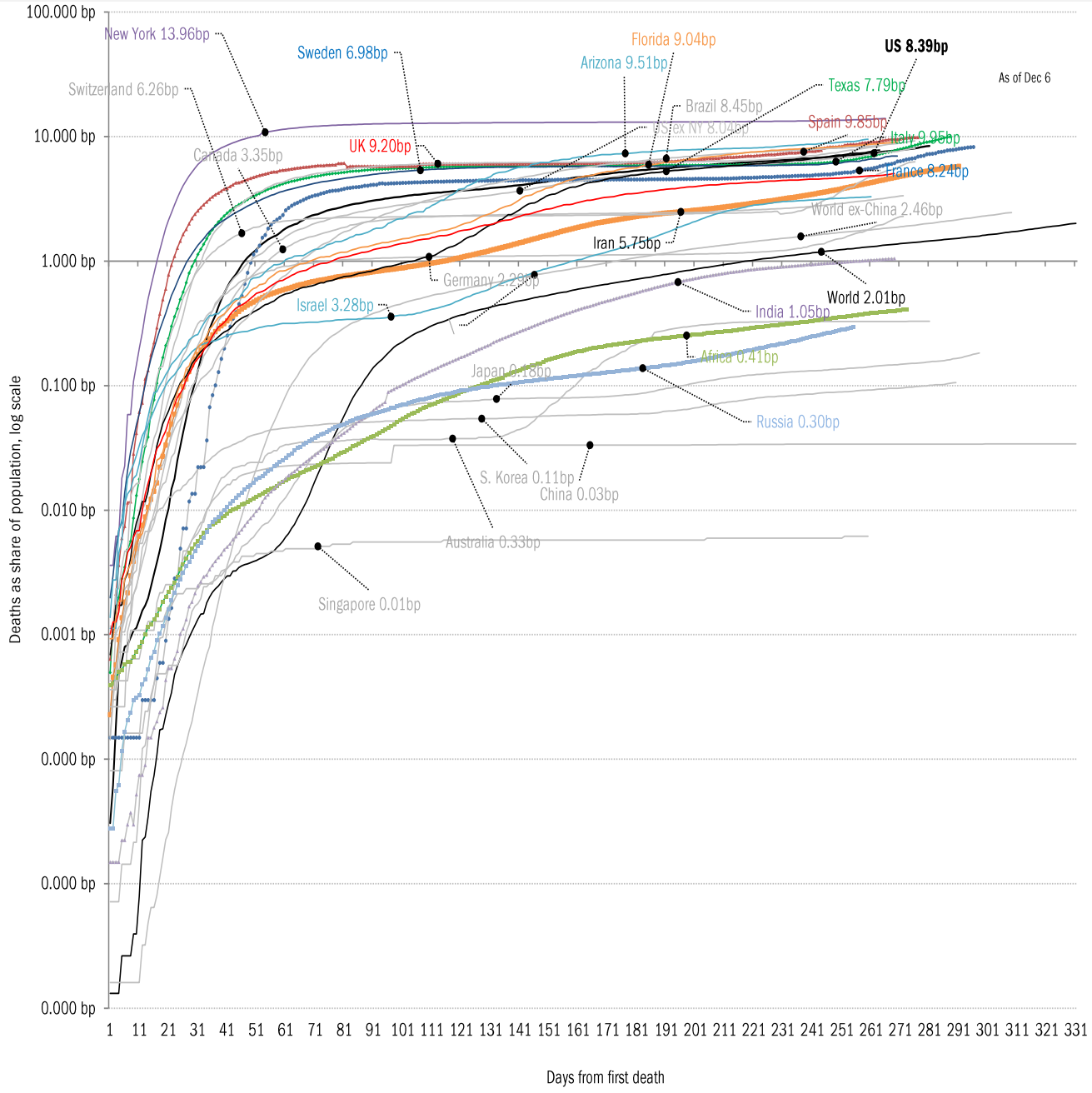
Share of infected population from first day with 100 confirmed cases, log scale



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

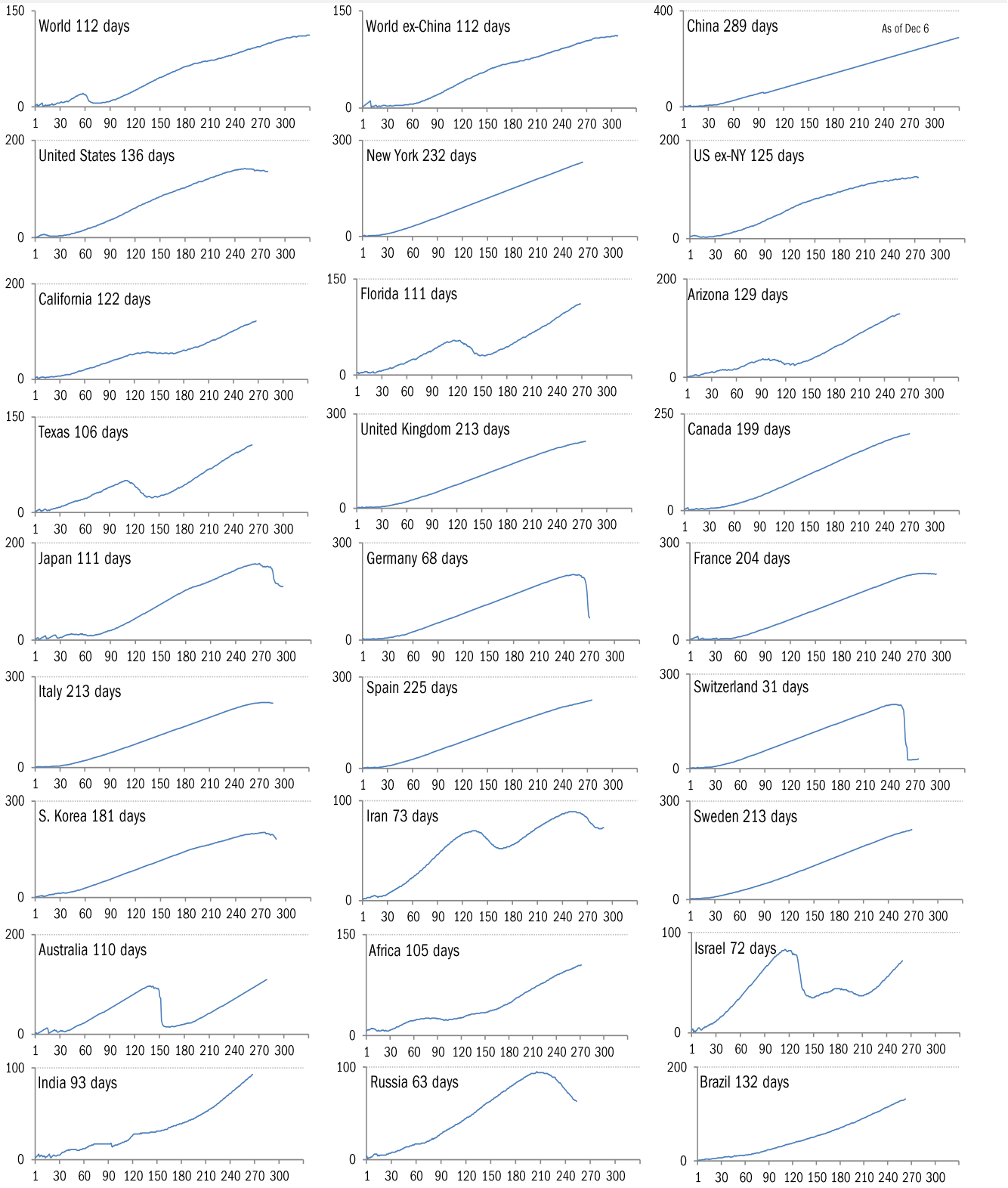


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

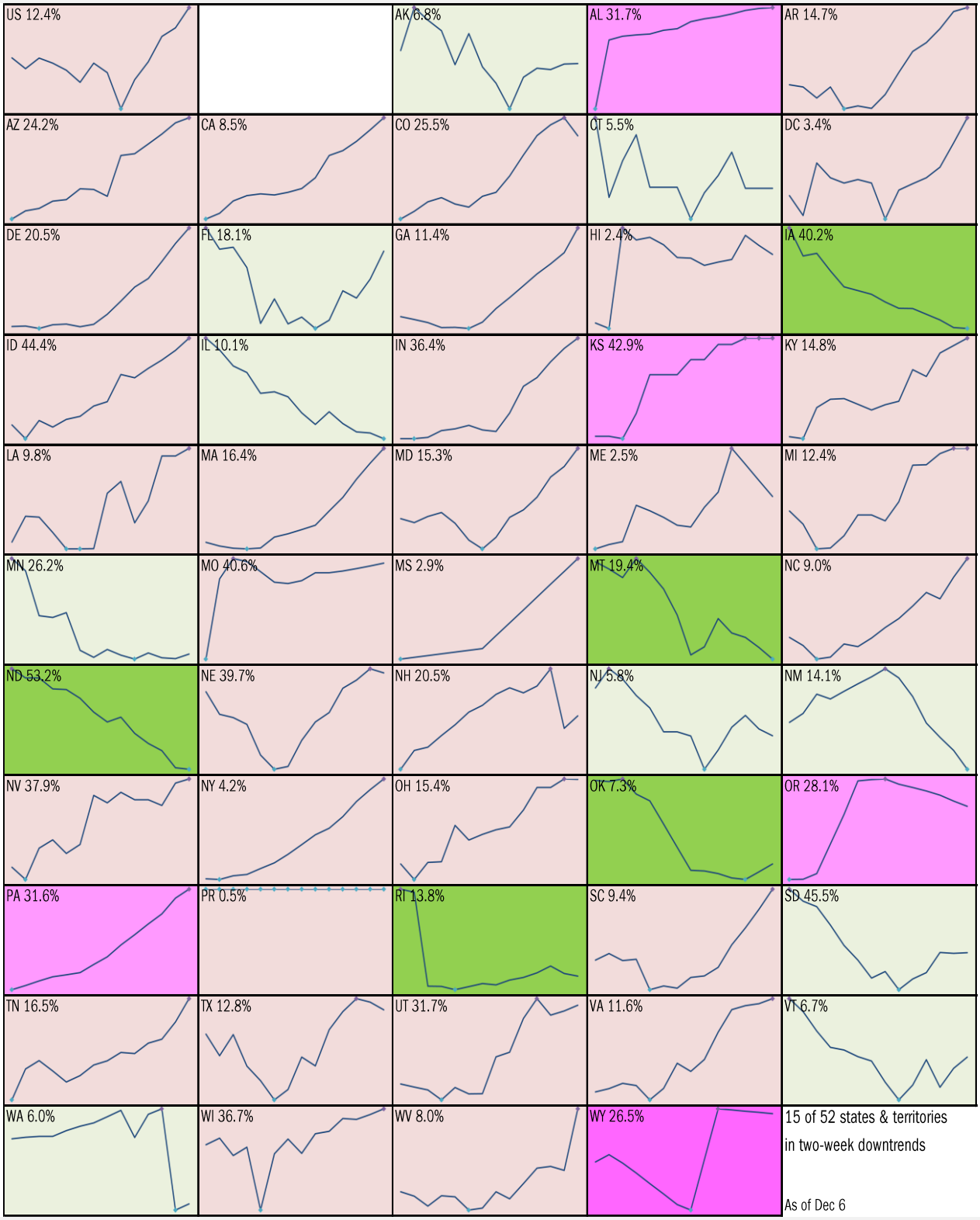
Downward trajectory Five best Upward trajectory Five worst

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

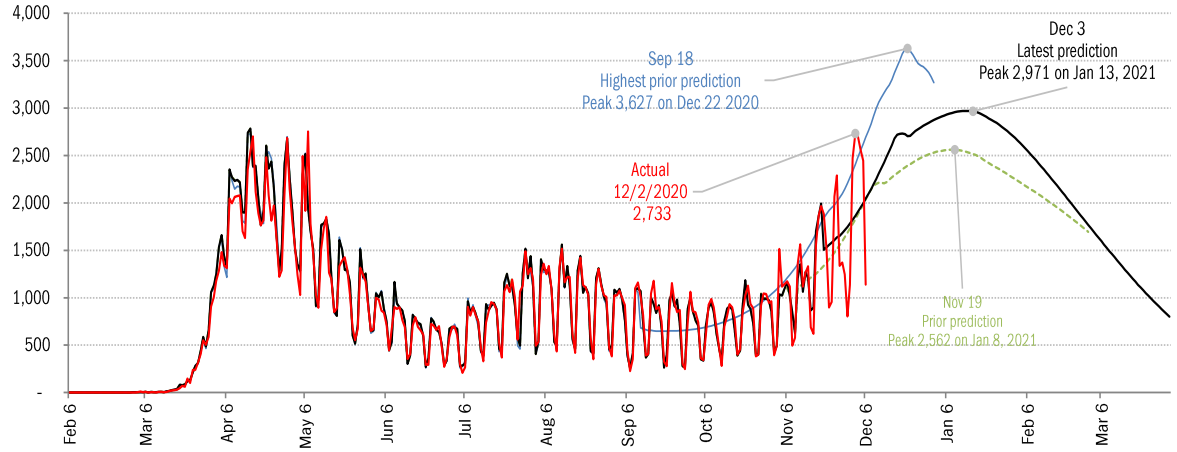


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

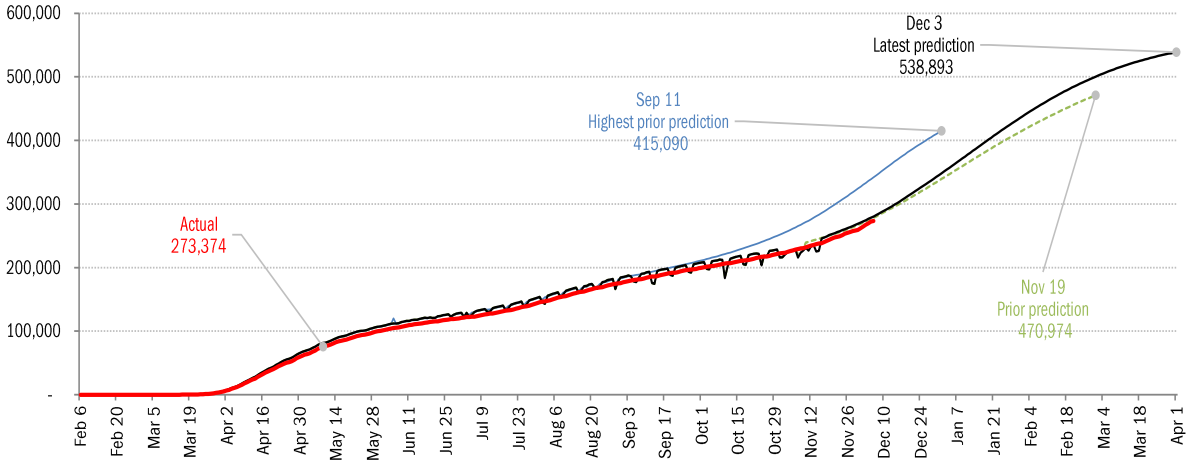
New daily fatalities As of Dec 6

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

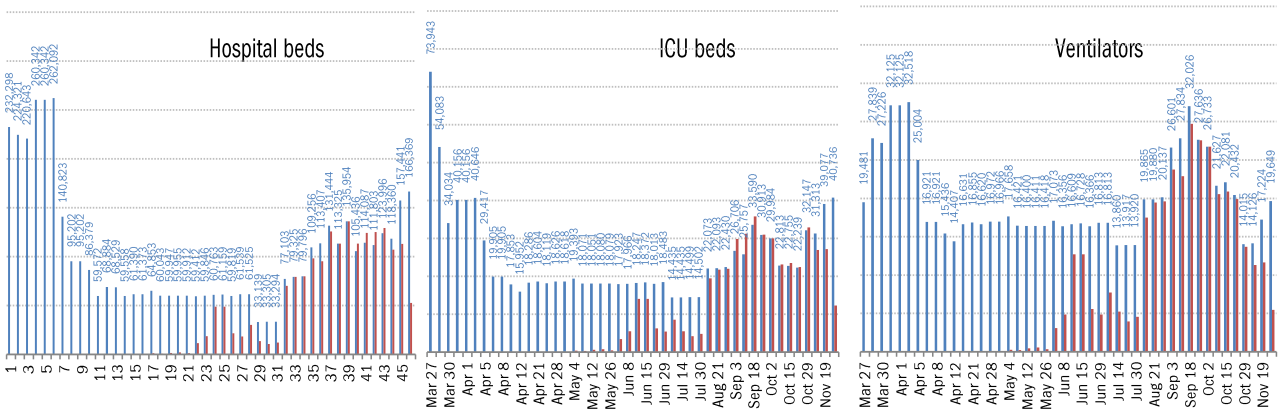


Cumulative fatalities

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

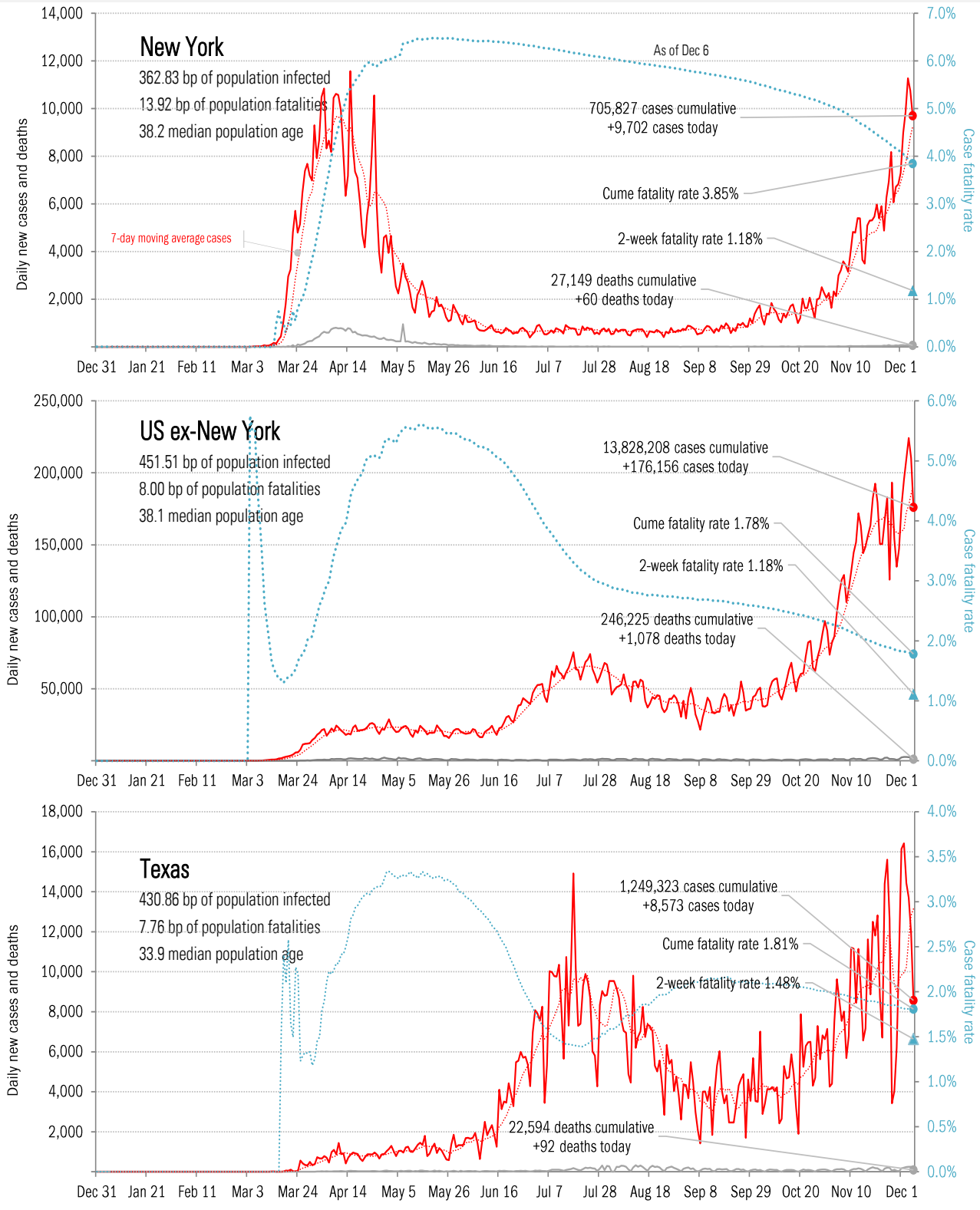


Healthcare system stress, peak and ultimate estimated at each model revision



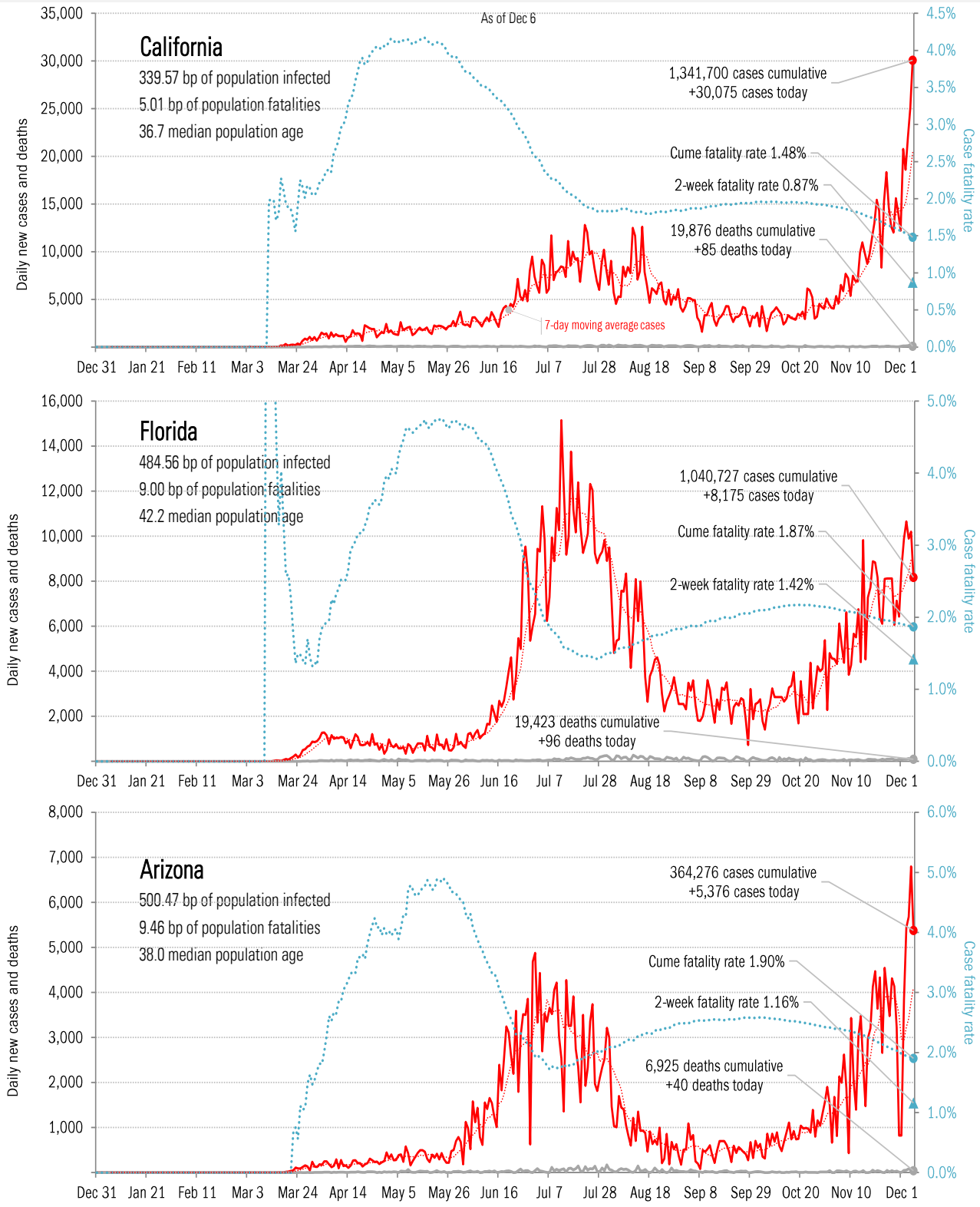
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



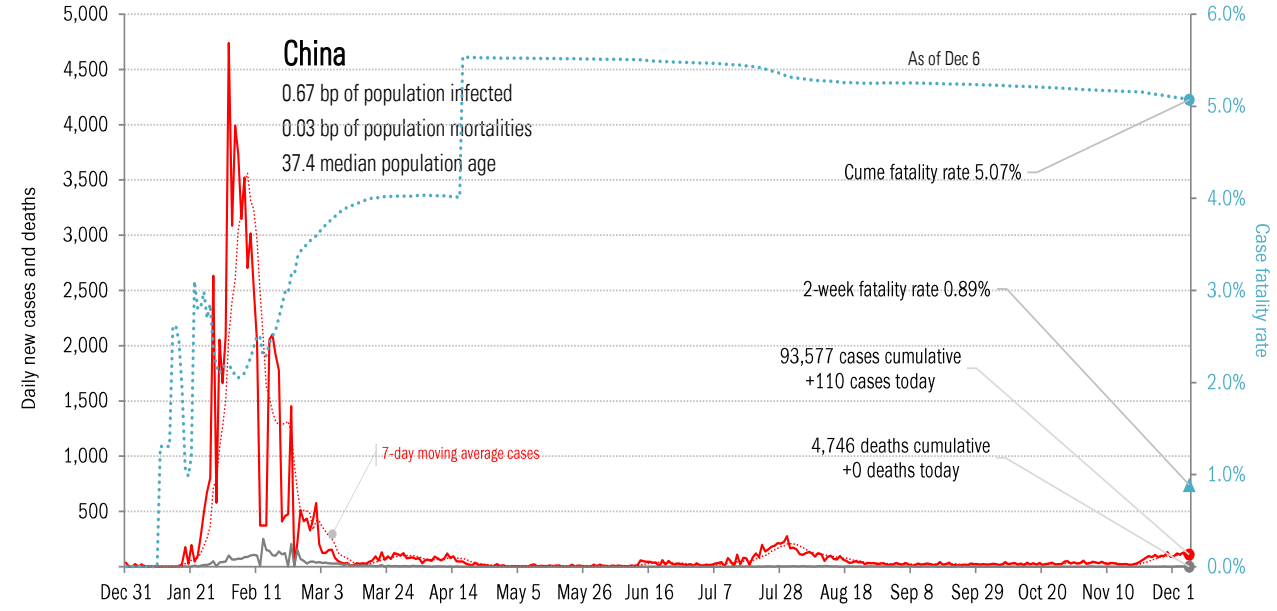
Source: Covid Tracking Project,, TrendMacro calculations

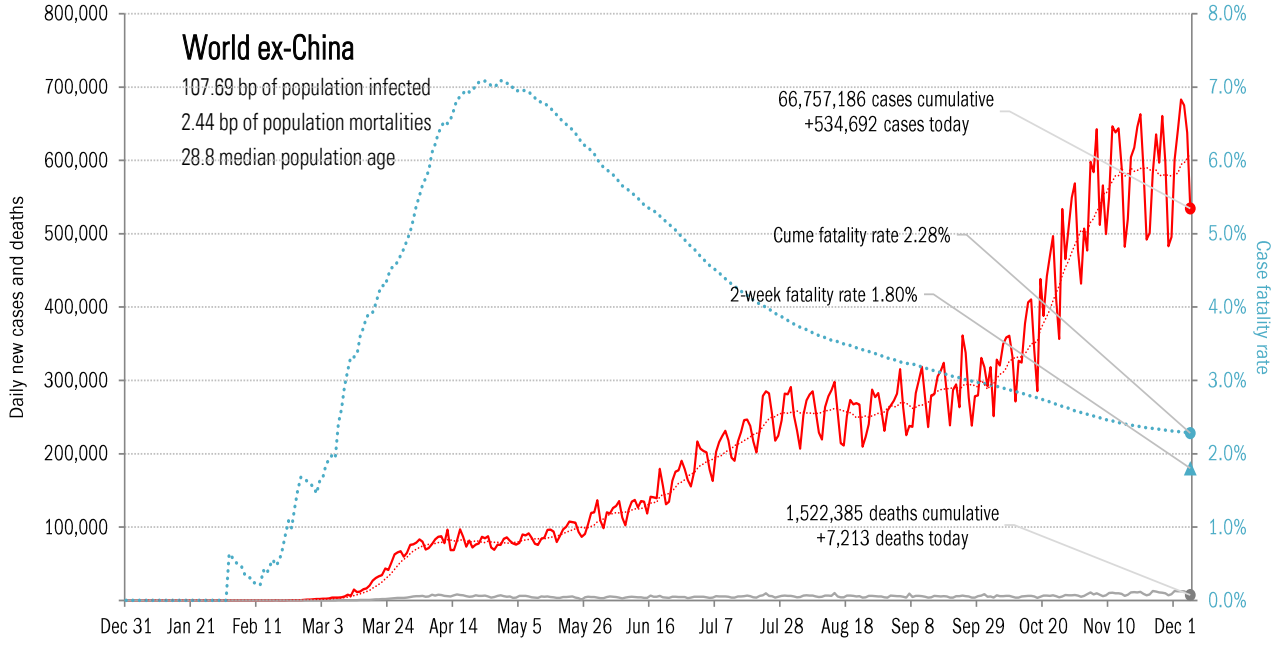
The sun-belt hot-spot states (other than Texas)



Source: Covid Tracking Project,, TrendMacro calculations

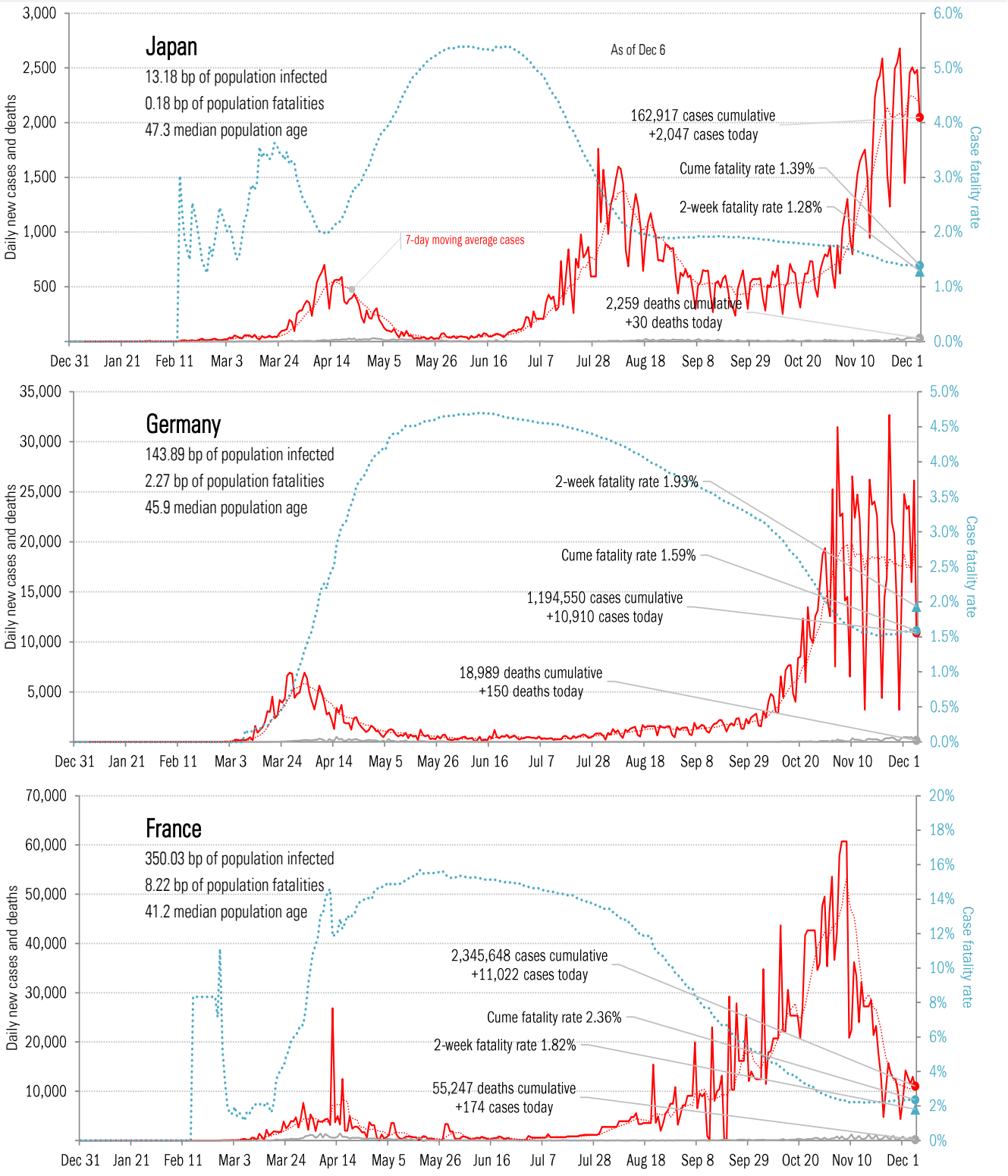
Patient zero… and then everyone else





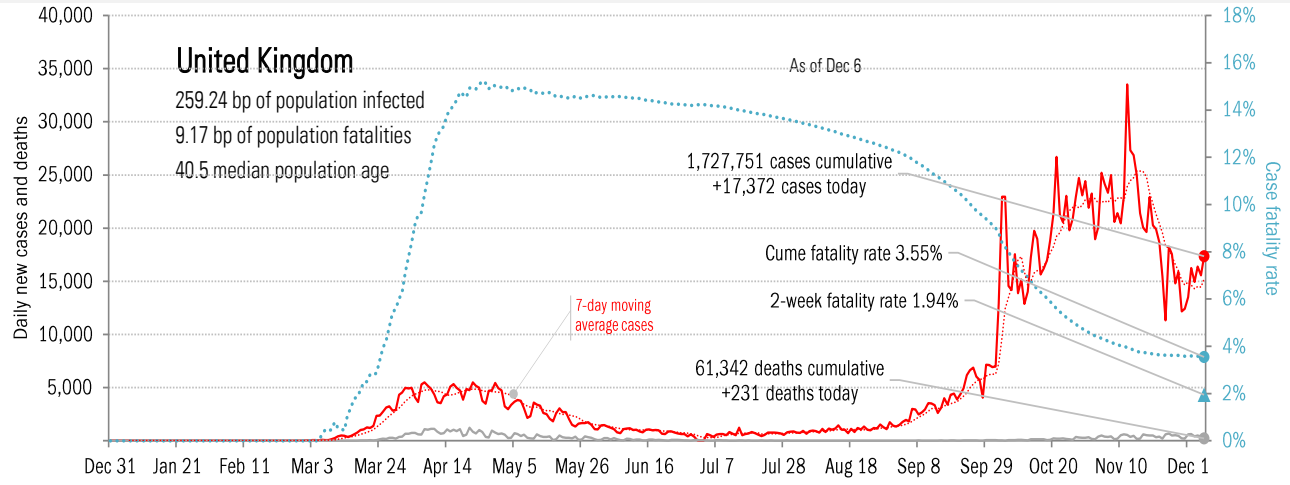
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

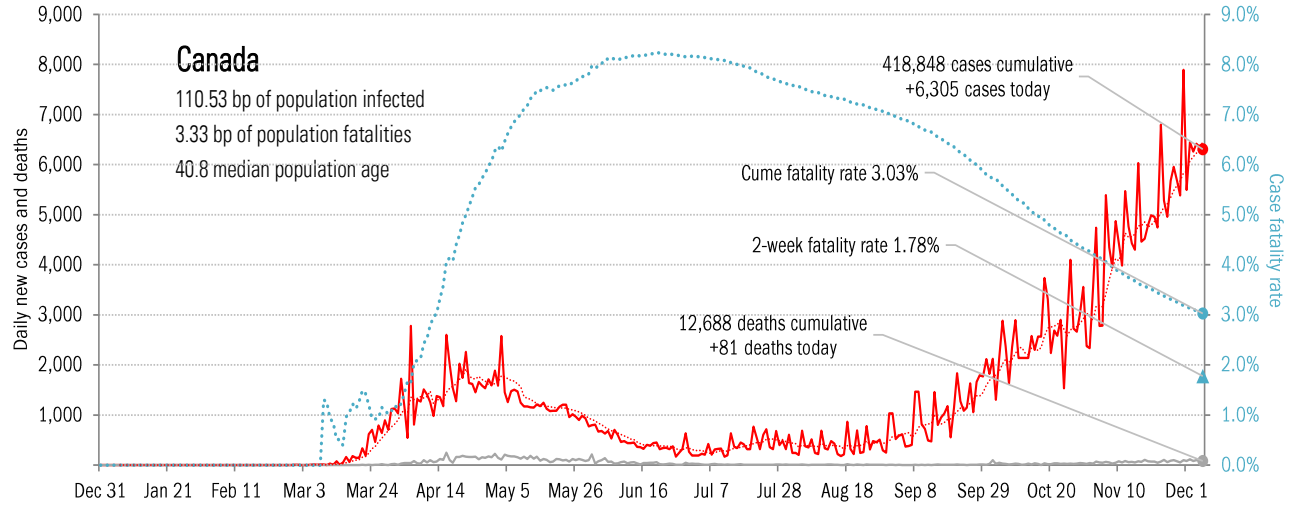
Impact in the largest economies

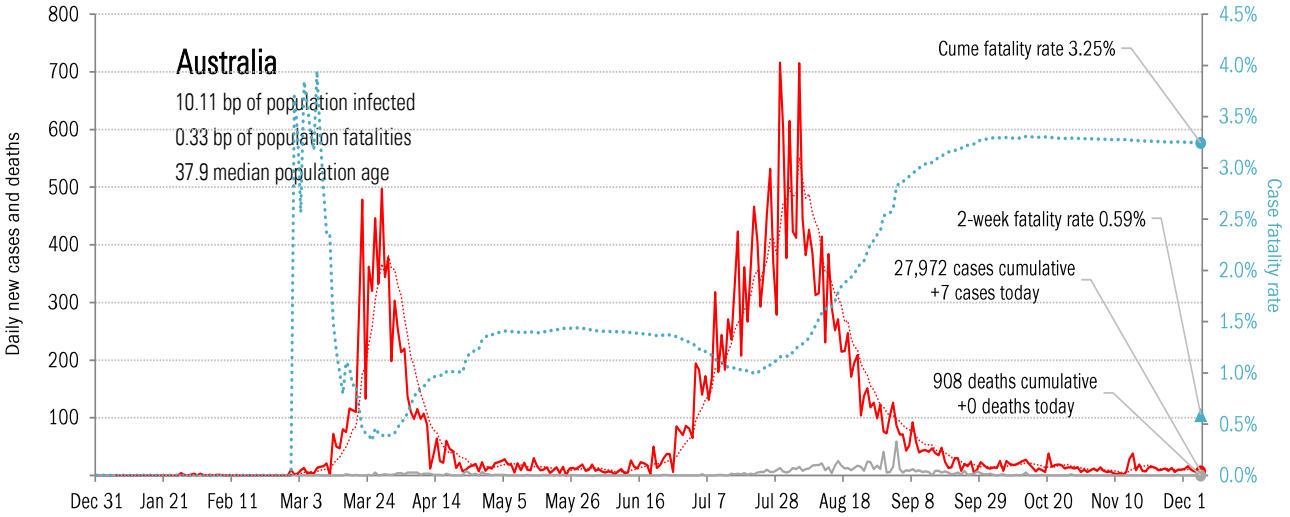


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

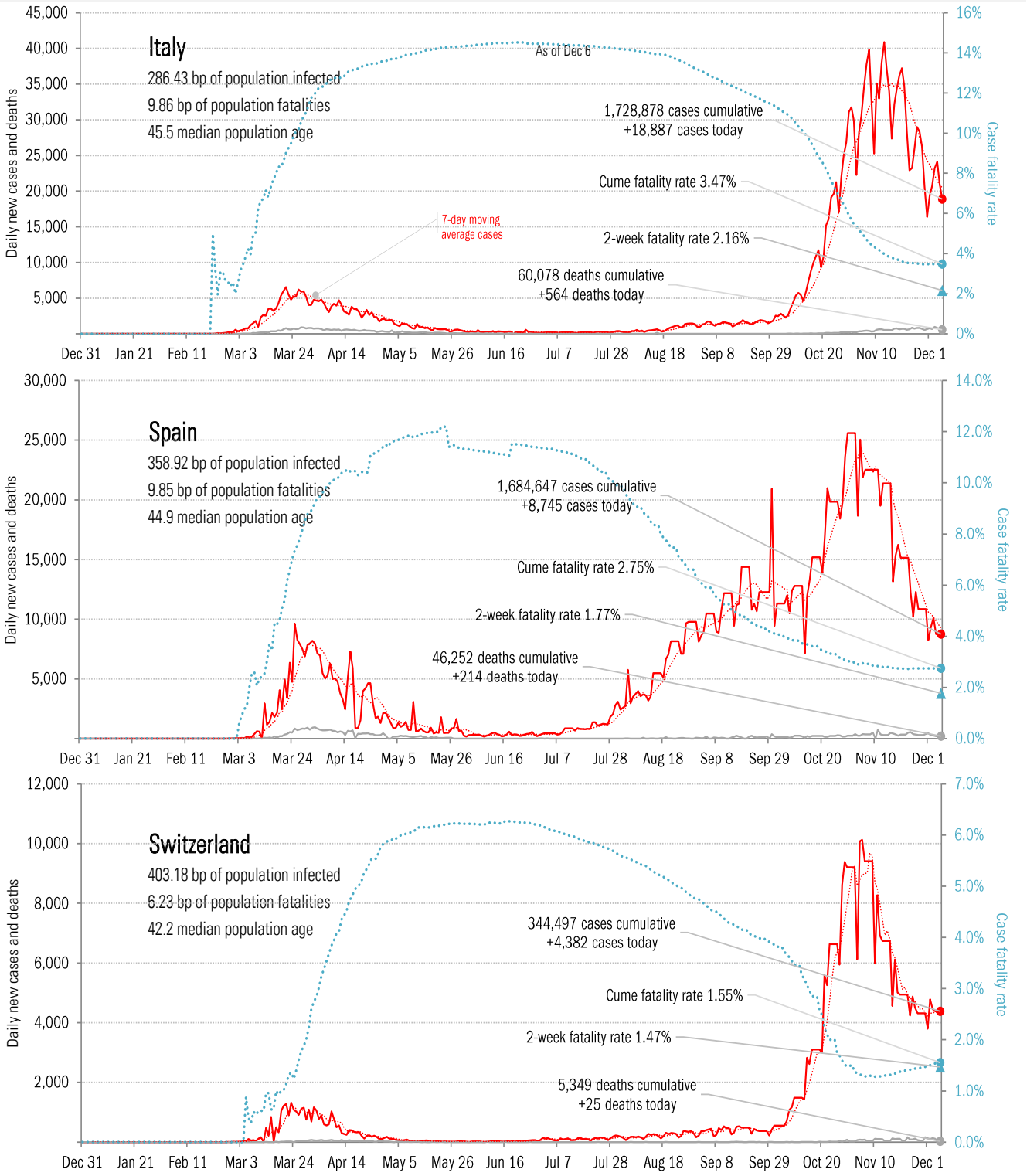






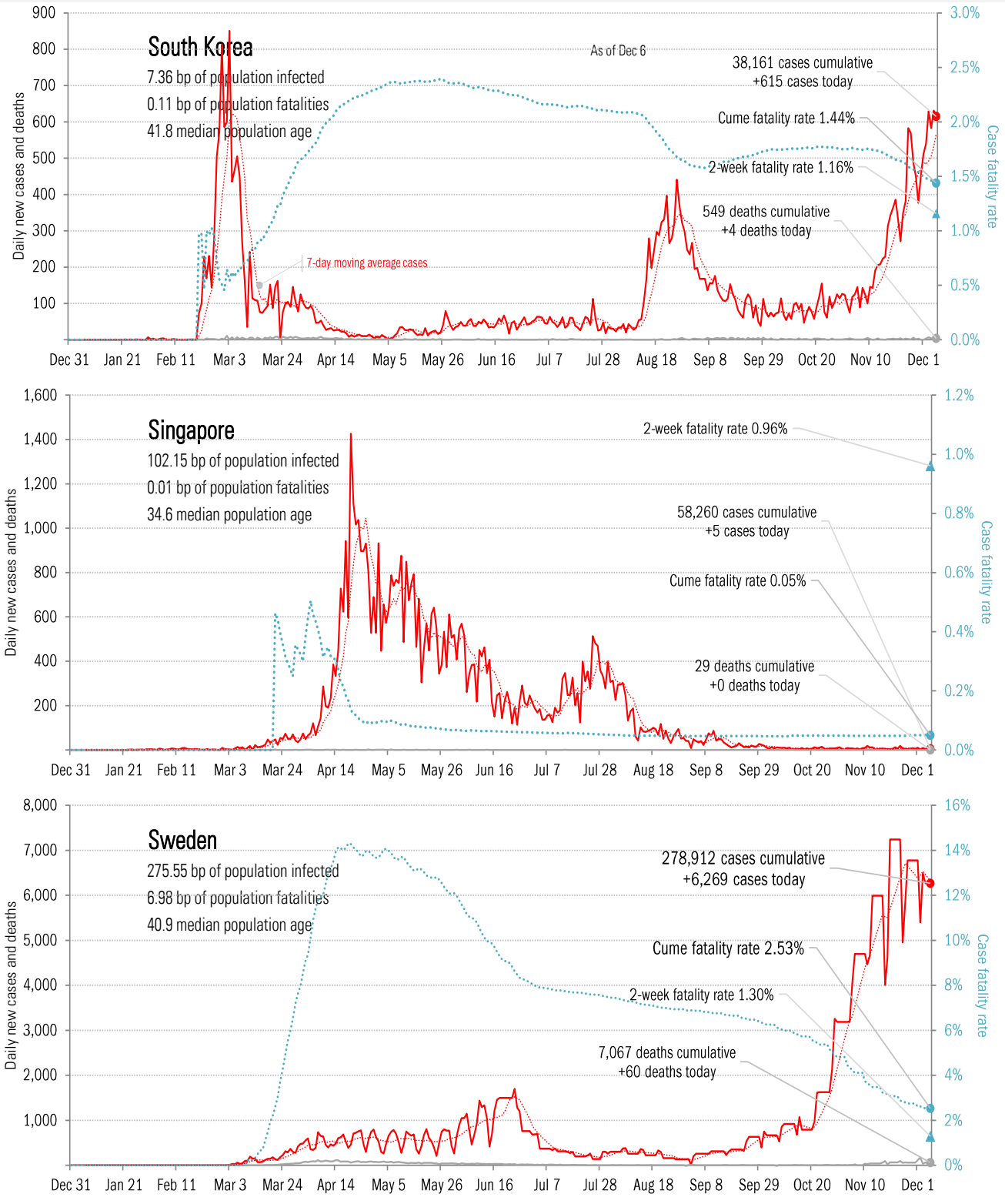
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



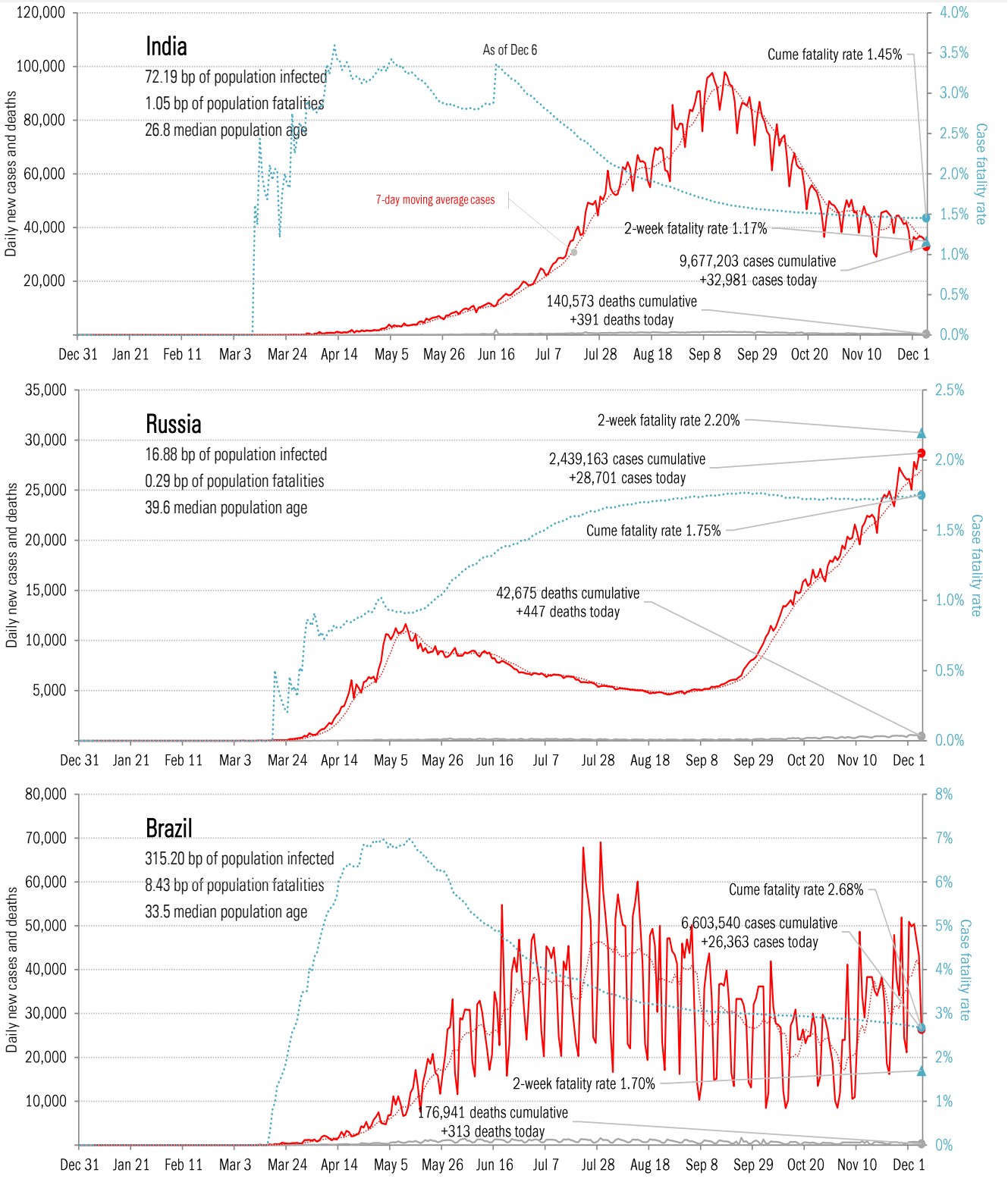
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



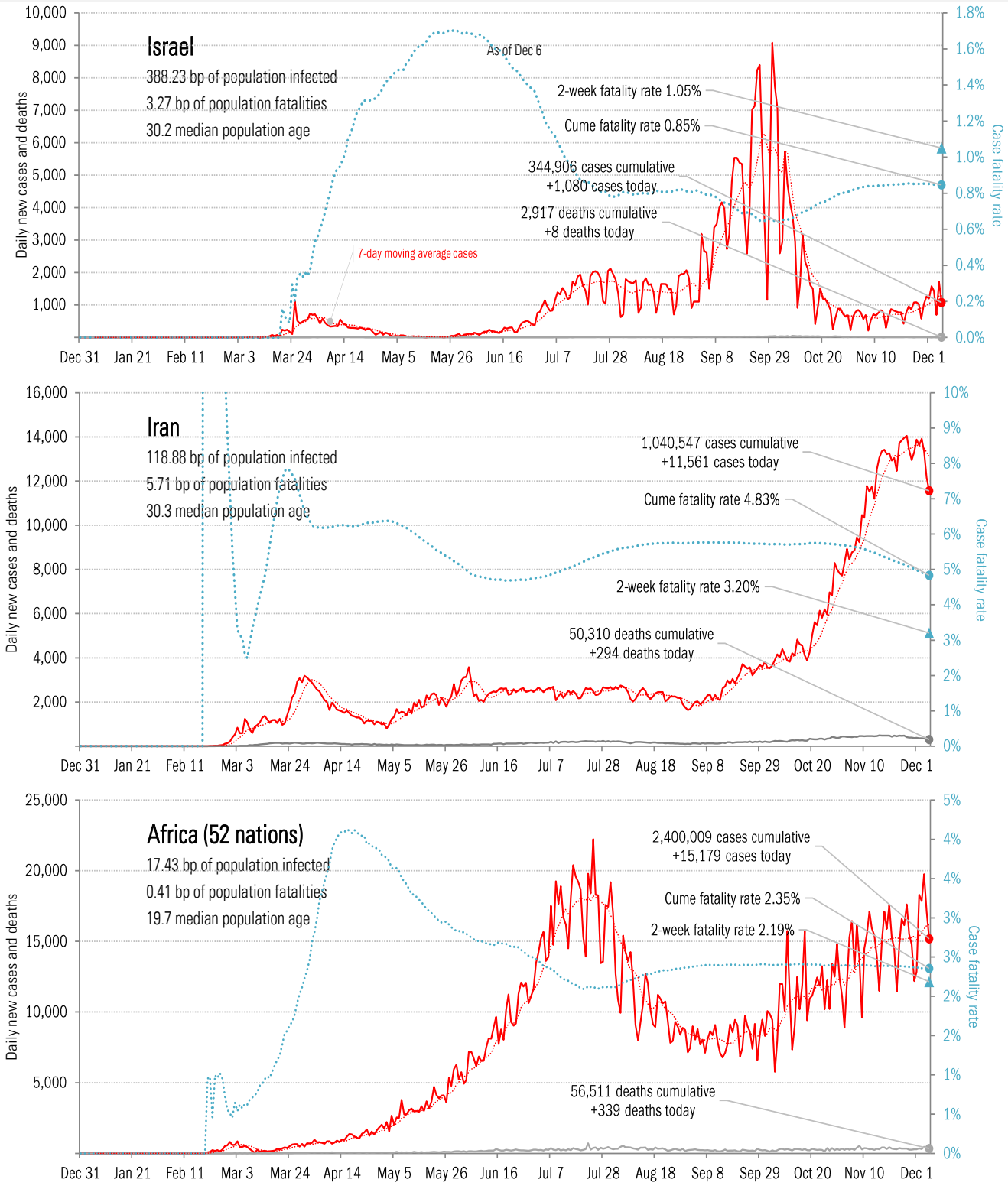
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations