Trend Macrolytics, LLC
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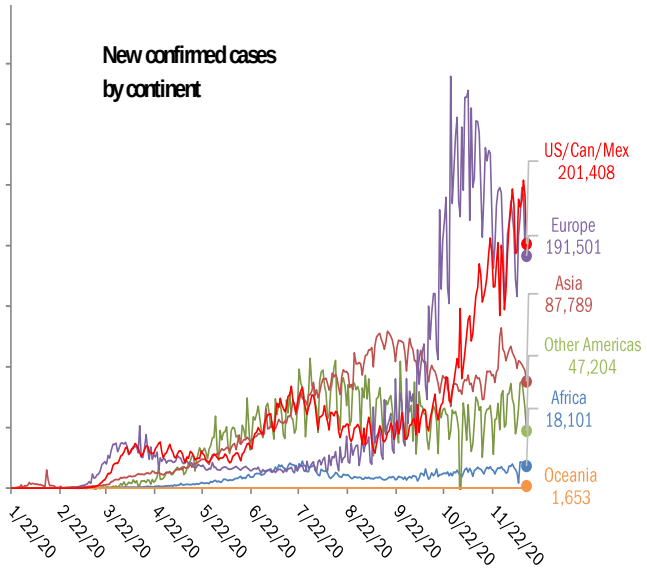
Data Insights: Covid-2019 Monitor

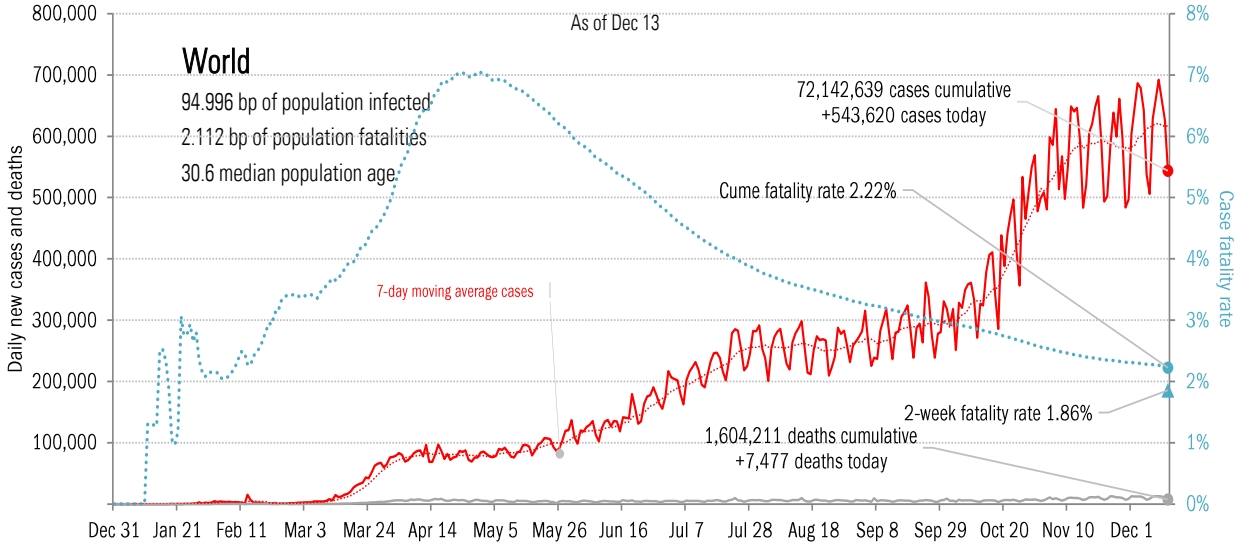
Monday, December 14, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+186,884	United States	+1,482
Russia	+27,651	Italy	+484
India	+27,071	Russia	+481
Turkey	+26,919	France	+344
France	+25,357	India	+336
Brazil	+21,825	Brazil	+279
United Kingdom	+18,541	Mexico	+249
Italy	+17,937	Iran	+247
Germany	+14,709	Turkey	+218
Netherlands	+9,937	Germany	+206
	+376,831		+4,326
World	+543,620	World	+7,477
Top ten	69%	Top ten	58%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

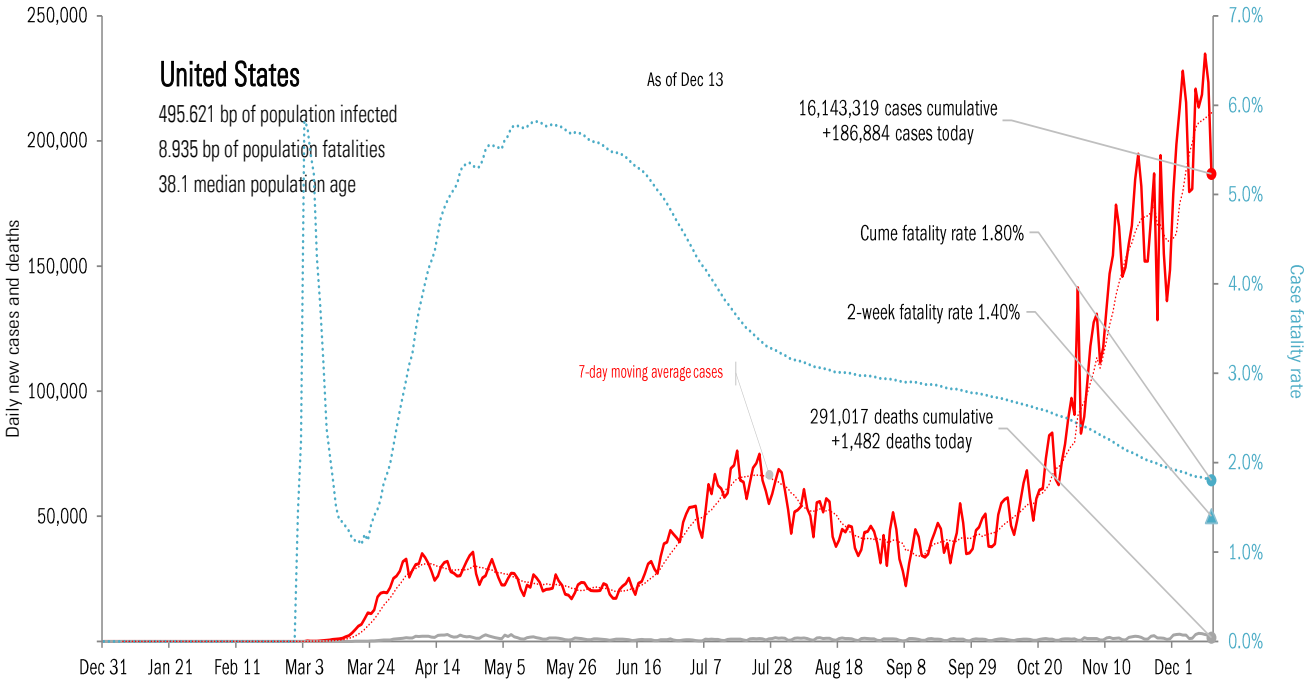
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+30,334	PA	+129	CA	+550	CA	1,551,766	NY	27,785	NY	89,995
TN	+11,352	CA	+122	FL	+178	TX	1,472,711	TX	23,911	FL	58,891
PA	+10,684	TX	+111	AZ	+88	FL	1,107,103	CA	20,969	NJ	43,834
NY	+10,194	NY	+110	AL	+87	IL	848,904	FL	20,133	GA	37,637
OH	+9,266	IL	+107	OH	+76	NY	775,160	NJ	17,751	OH	31,973
FL	+8,762	CO	+87	GA	+67	OH	562,727	IL	15,339	AZ	30,949
TX	+8,349	MN	+85	NY	+51	PA	491,802	PA	12,565	IN	30,796
IL	+7,216	FL	+84	NJ	+48	GA	476,044	MA	11,349	AL	28,146
NC	+6,819	TN	+62	TX	+38	WI	468,956	MI	11,195	MD	23,393
IN	+5,898	SC	+54	MA	+37	MI	465,159	GA	10,076	MN	19,536
	+108,874		+951		+1,220		8,220,332		171,073		395,150
All states	+186,884	All states	+1,482	All states	+844	All states	16,143,319	All states	291,017	All states	614,761
Top ten	58%	Top ten	64%	Top ten	145%	Top ten	51%	Top ten	59%	Top ten	64%

Some states not reporting

Five most improved US states

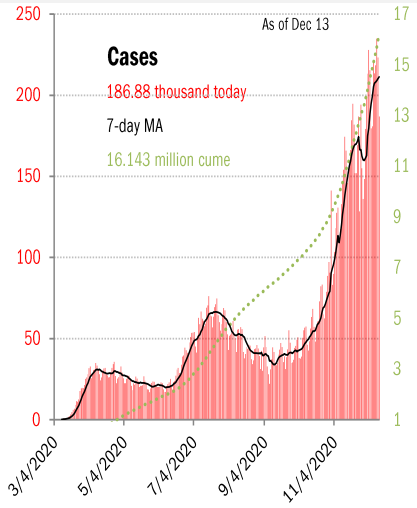
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-8,011	MI	-230	PA	-242	TX	+8,402
CA	-5,395	TX	-138	NC	-120	MN	+6,272
MI	-4,813	CA	-103	IA	-58	OH	+6,171
AZ	-2,224	PA	-72	LA	-56	WI	+5,022
NJ	-2,086	IL	-58	TX	-45	TN	+3,496

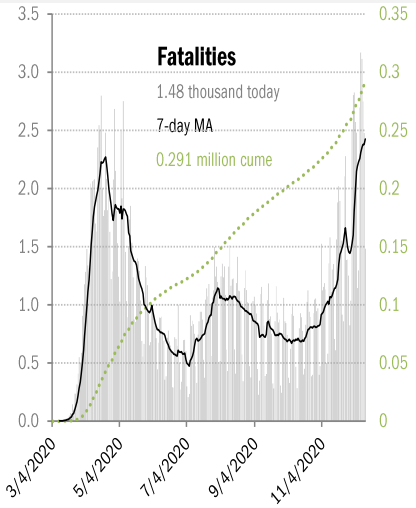


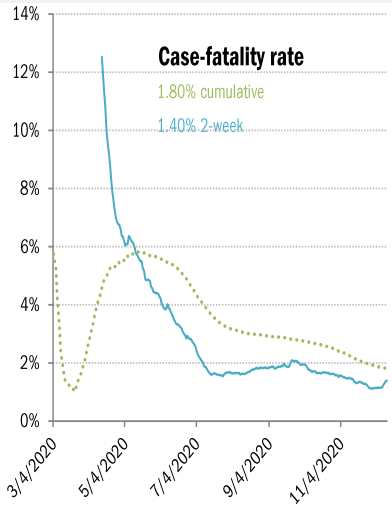
Source: Covid Tracking Project, TrendMacro calculations

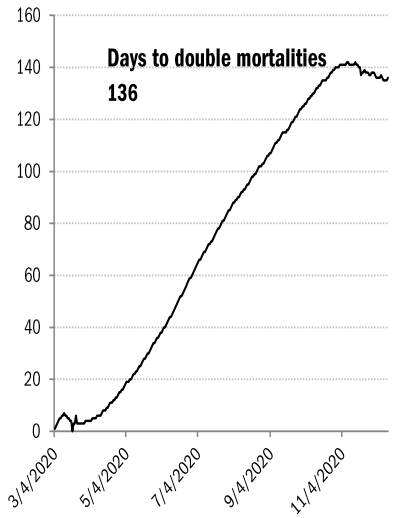
US deep-dive

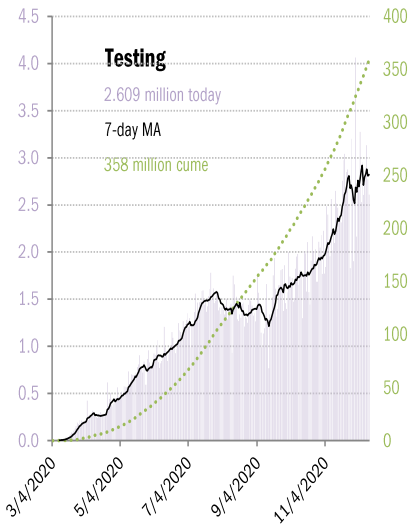
National and state-by-state data do not line up because of different sources

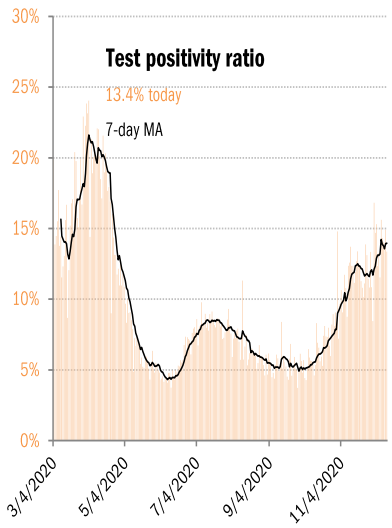


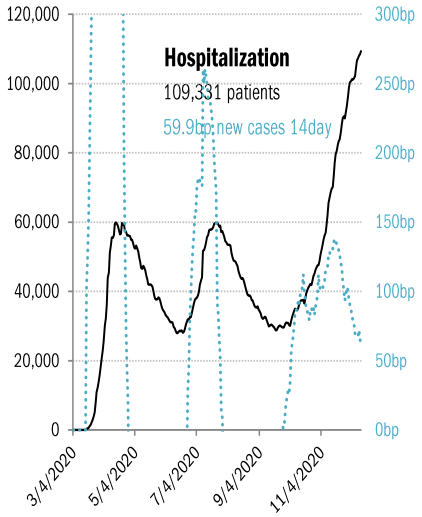


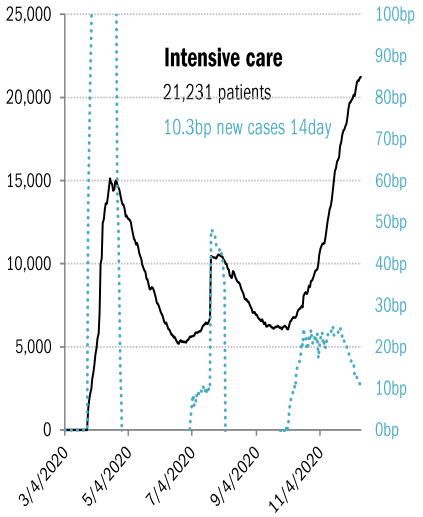


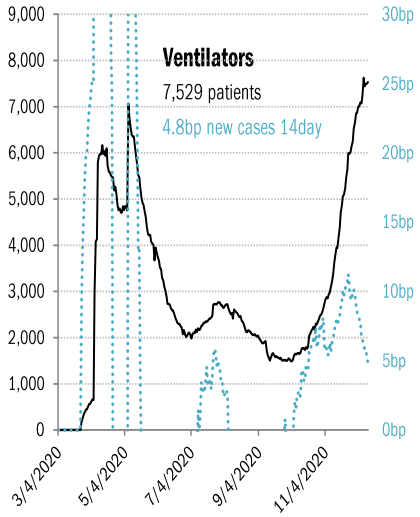






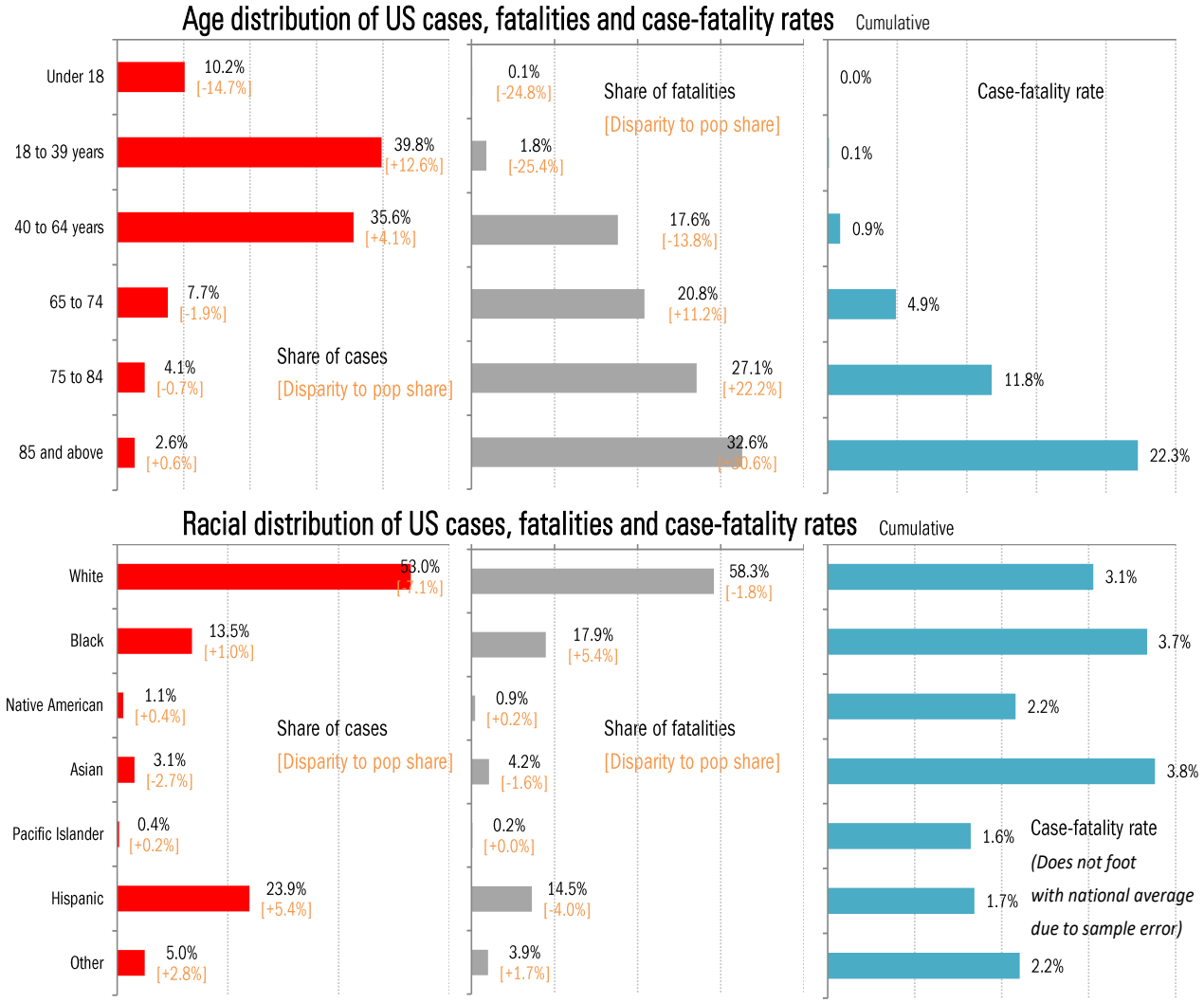




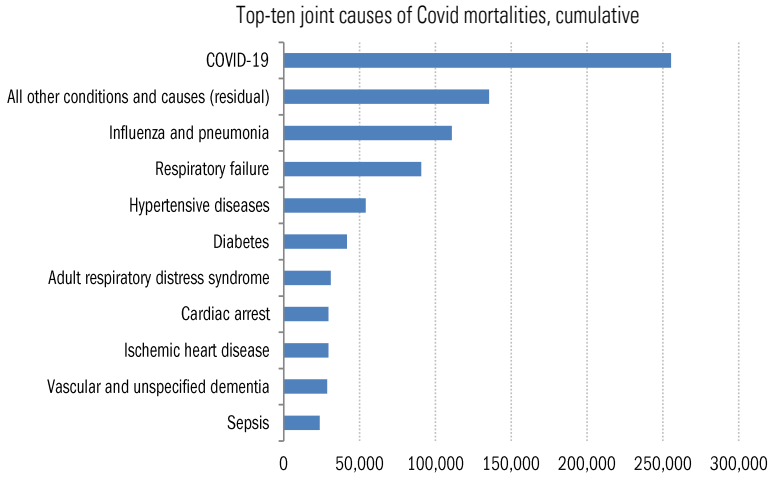


Source: Covid Tracking Project, TrendMacro calculations

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 2.9 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

The Biden Team Strikes Back
Paul Gigot
Wall Street Journal
December 13, 2020

Antibodies as Covid Insurance
Scott Gottlieb
Wall Street Journal
December 13, 2020

Germany set for hard lockdown as coronavirus surges
Guy Chazan
Financial Times
December 13, 2020

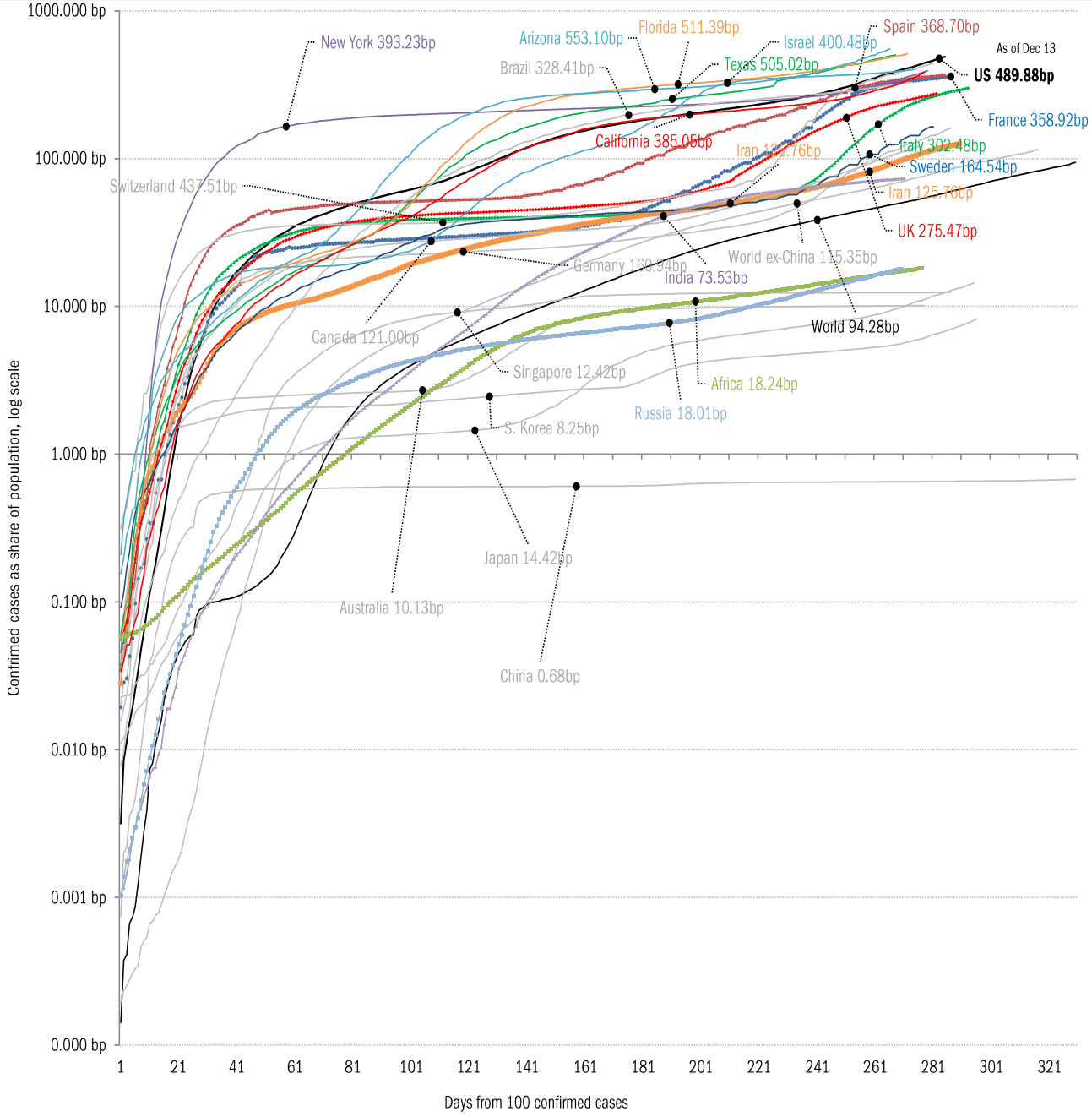
Why Are Pandas Covering Themselves With Horse Manure?
Katherine J. Wu
New York Times
December 7, 2020

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

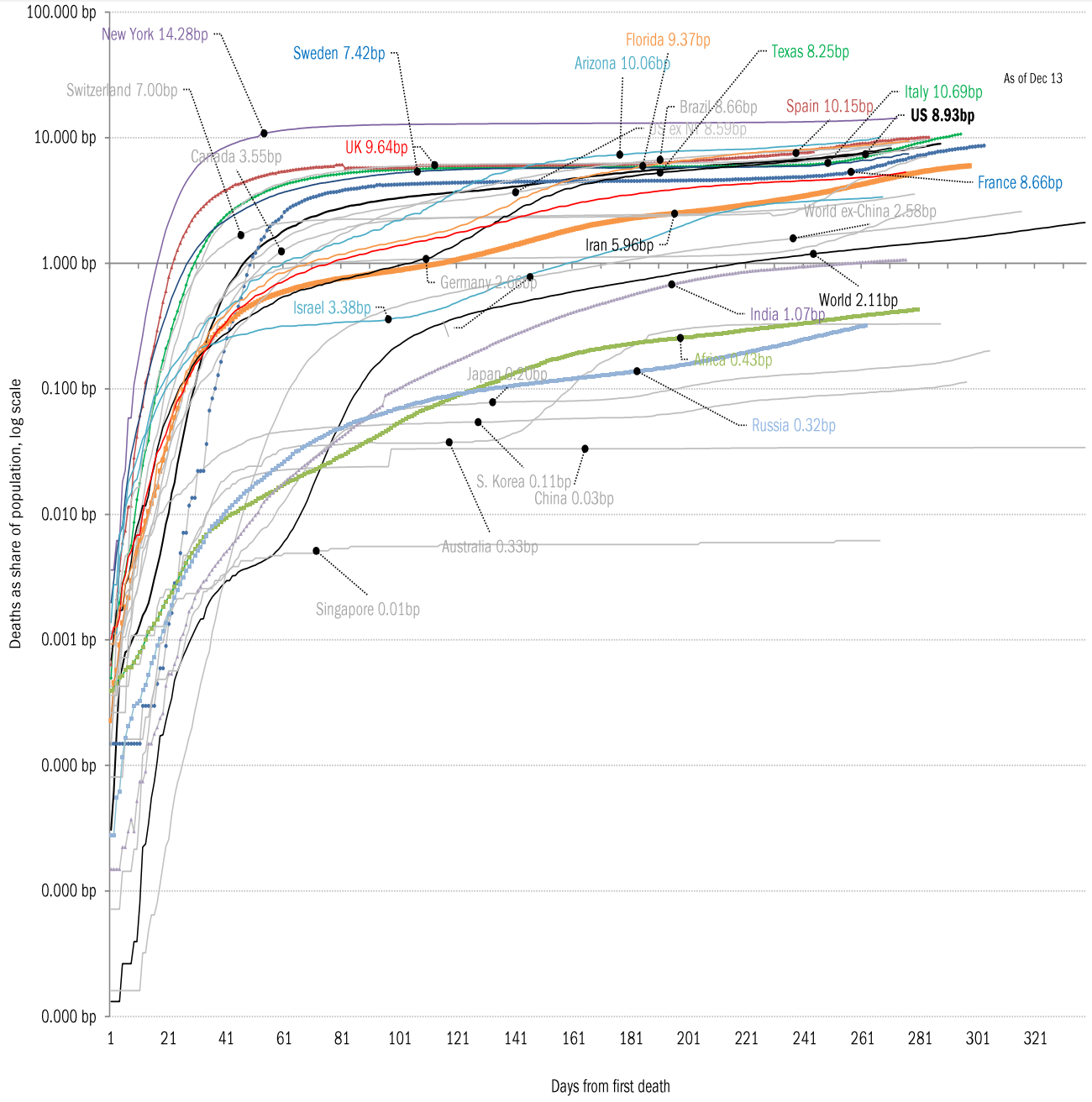
Share of infected population from first day with 100 confirmed cases, log scale



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

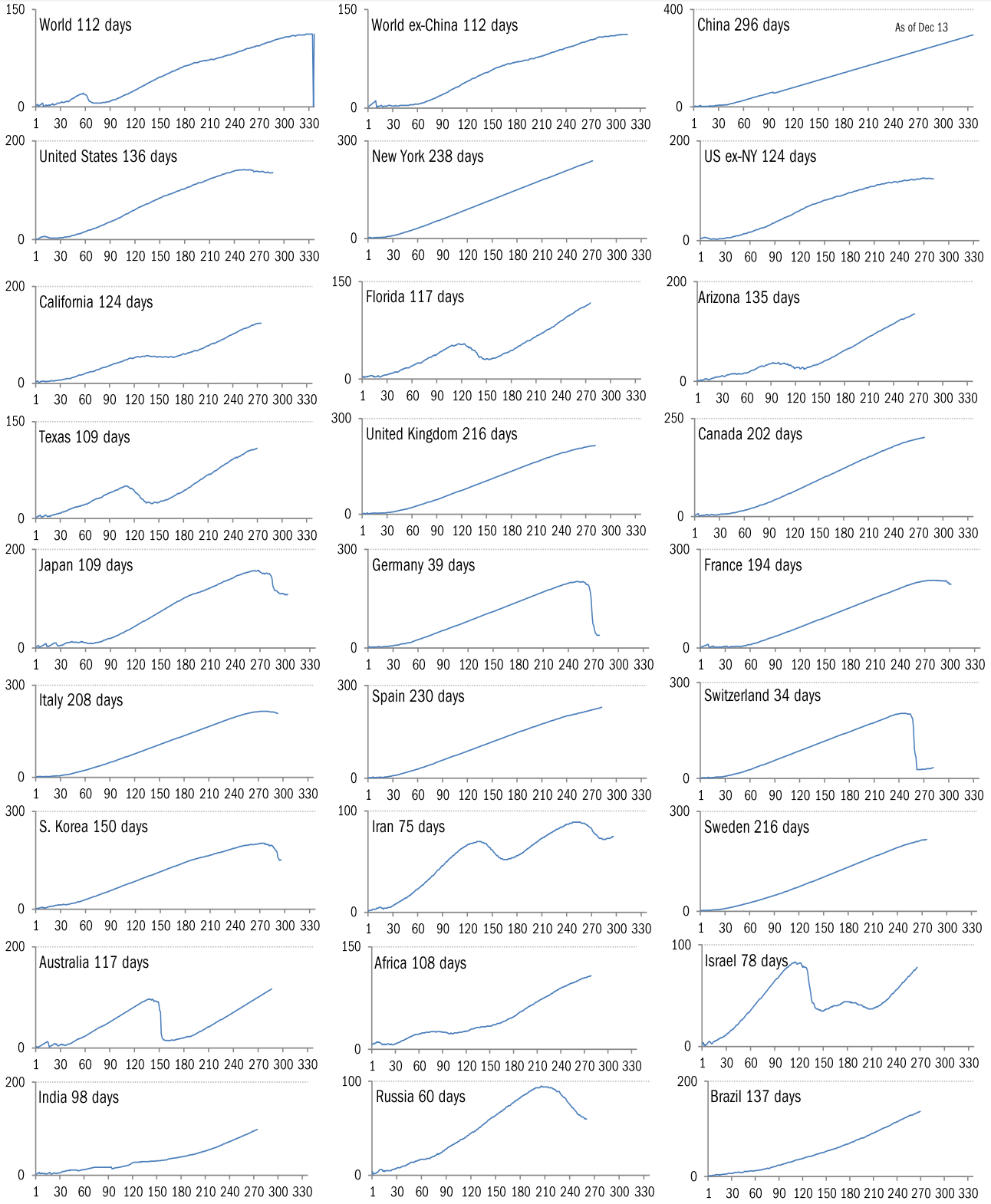


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

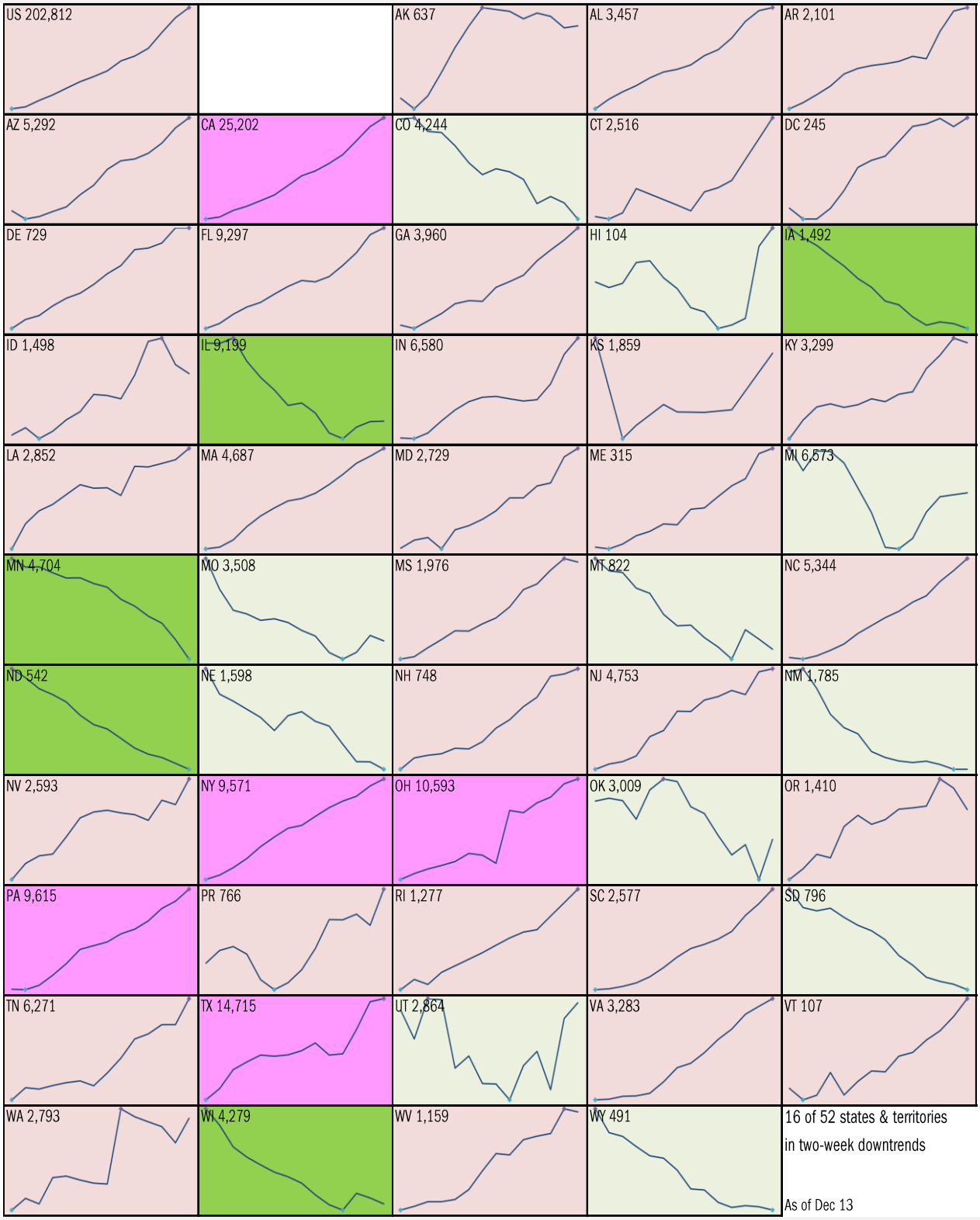


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

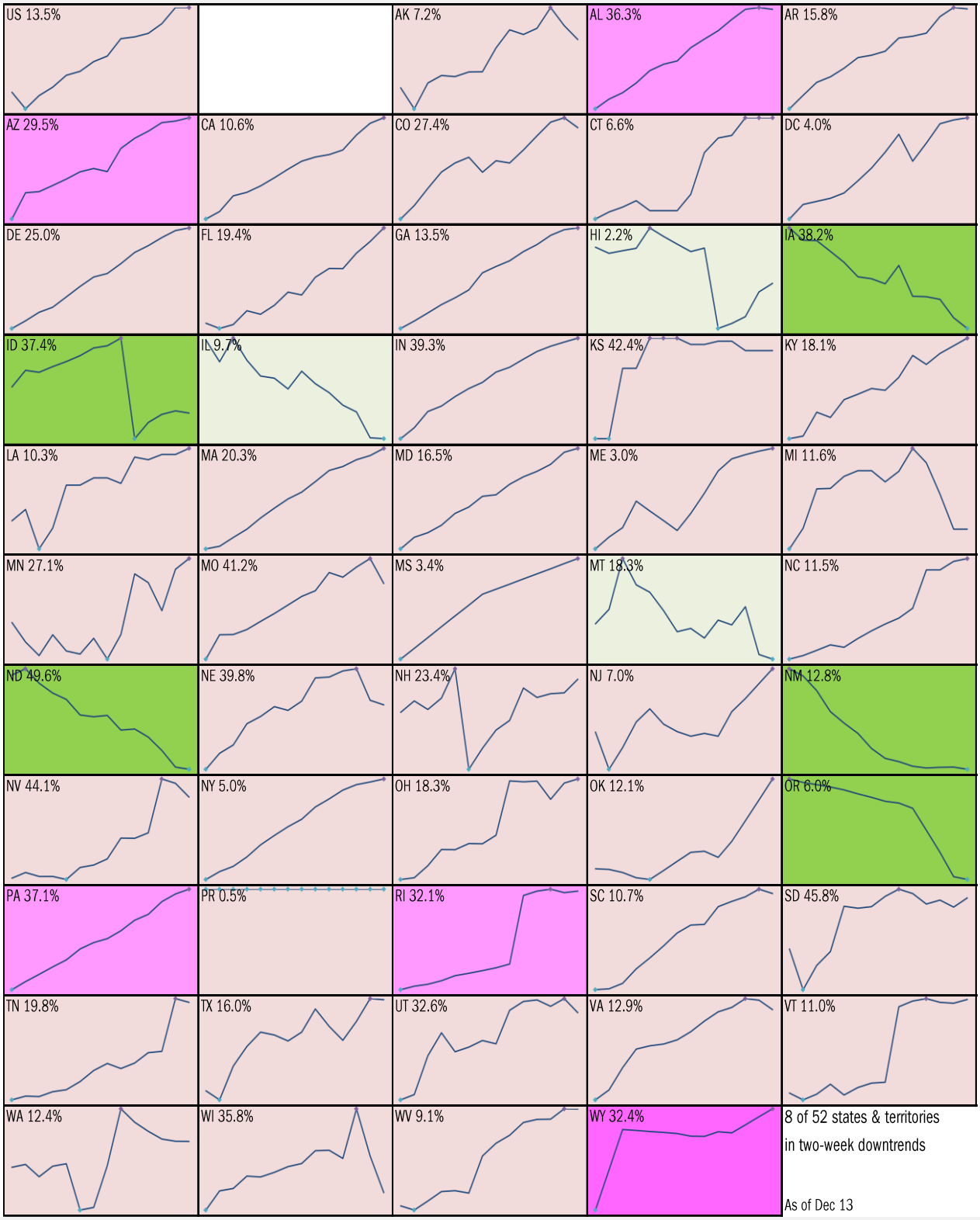


Source: Covid Tracking Project, TrendMacro calculations

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

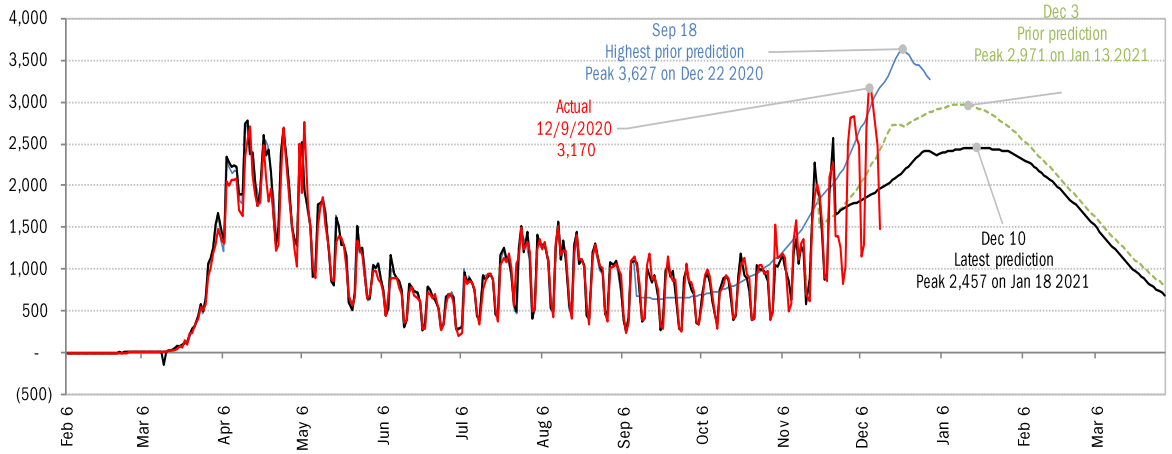


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

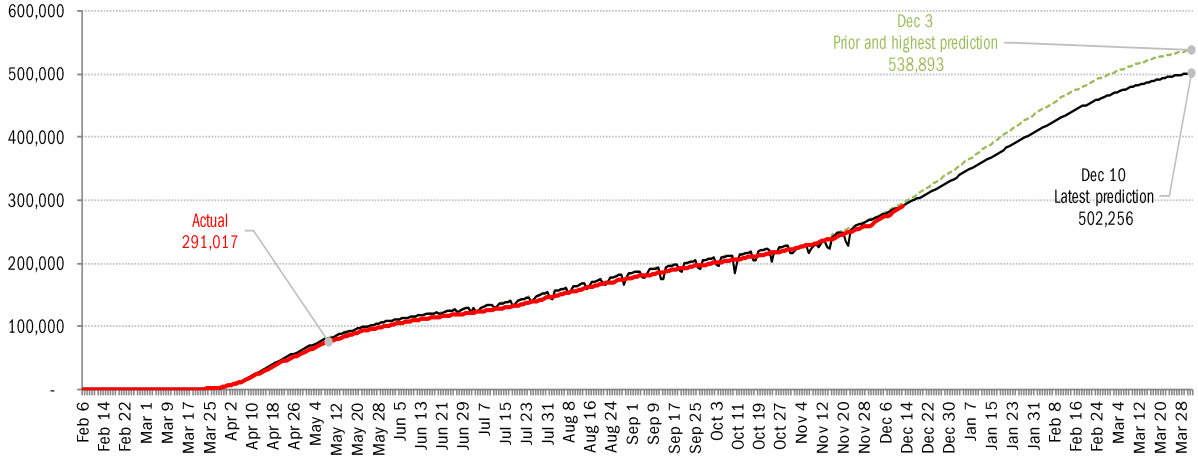
New daily fatalities As of Dec 13

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

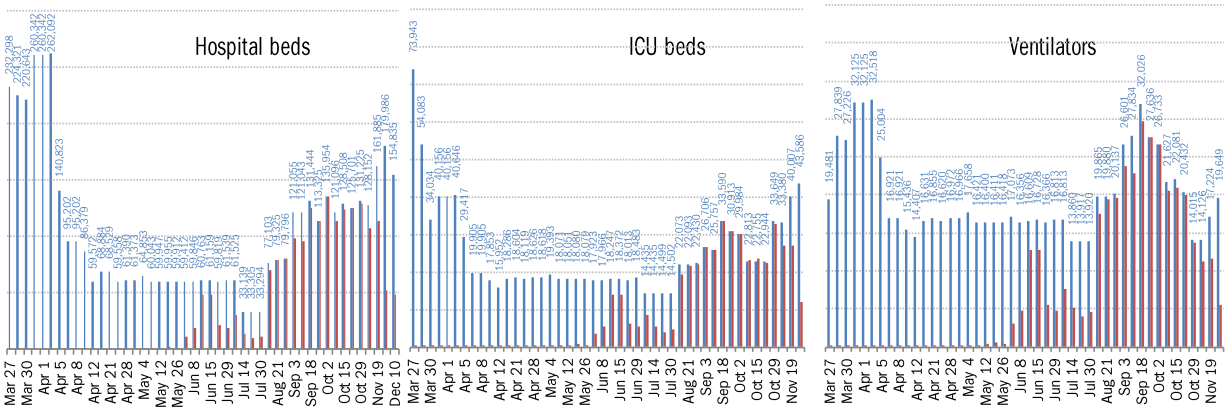


Cumulative fatalities

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

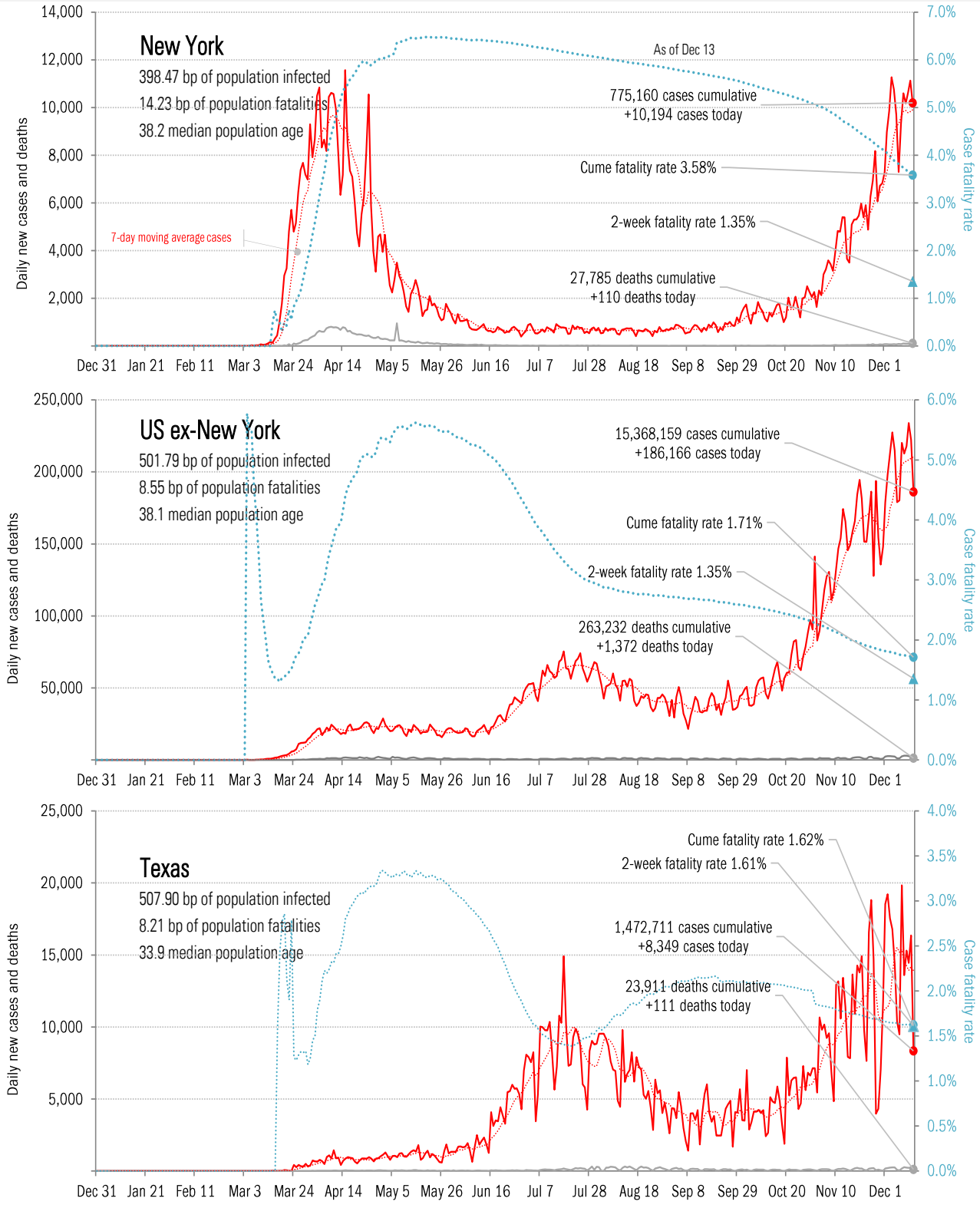


Healthcare system stress, peak and ultimate estimated at each model revision



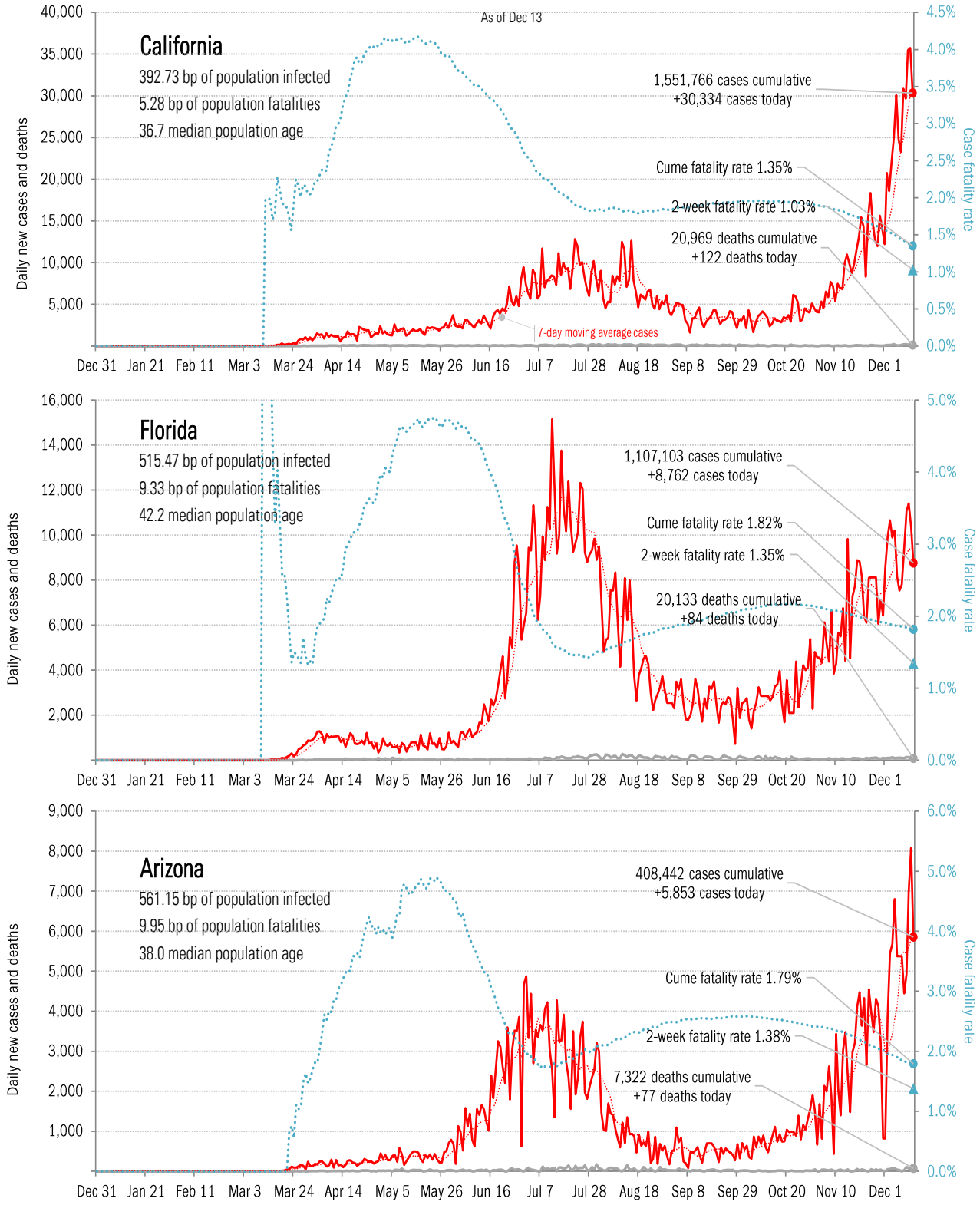
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



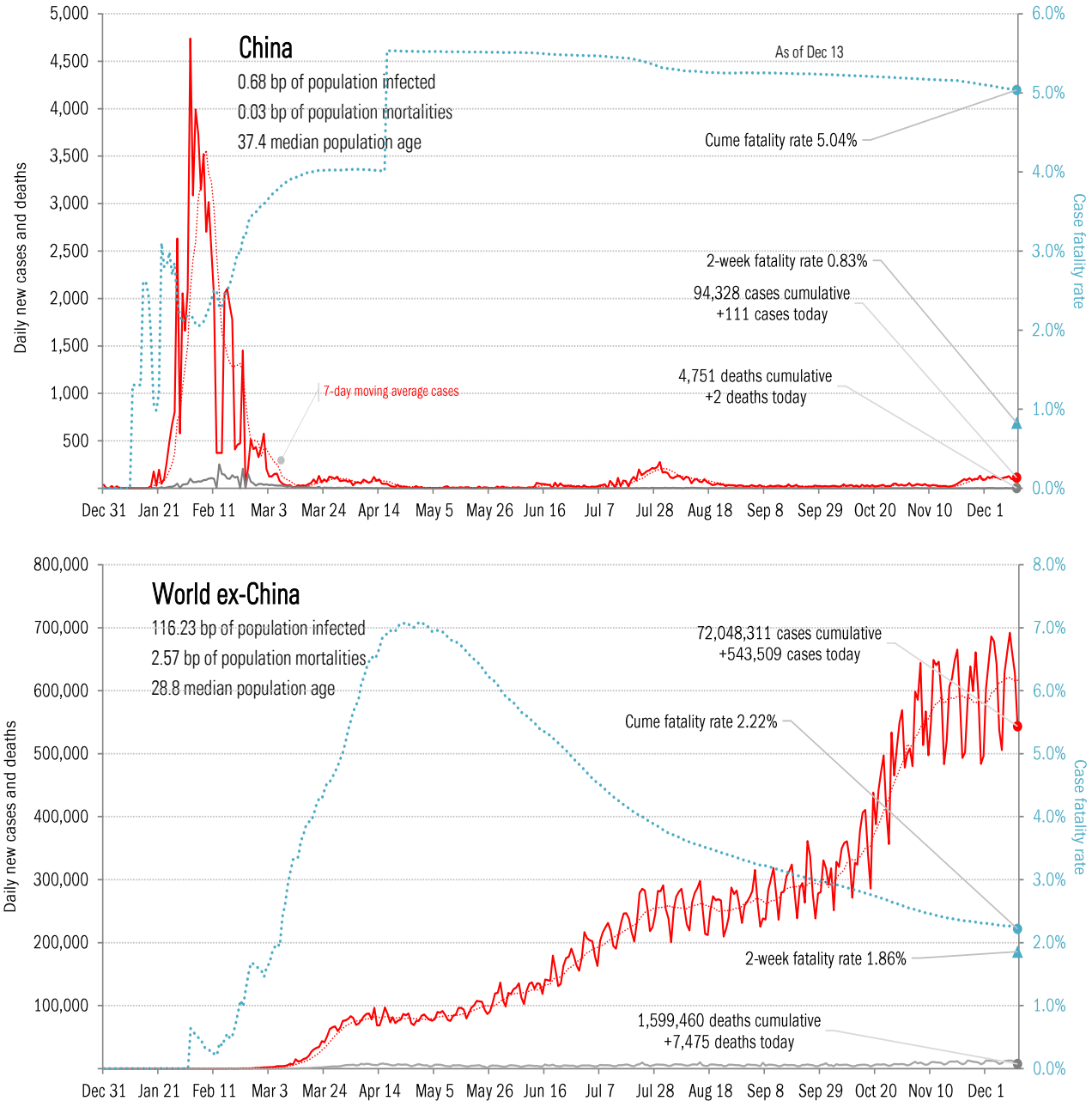
Source: Covid Tracking Project,, TrendMacro calculations

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



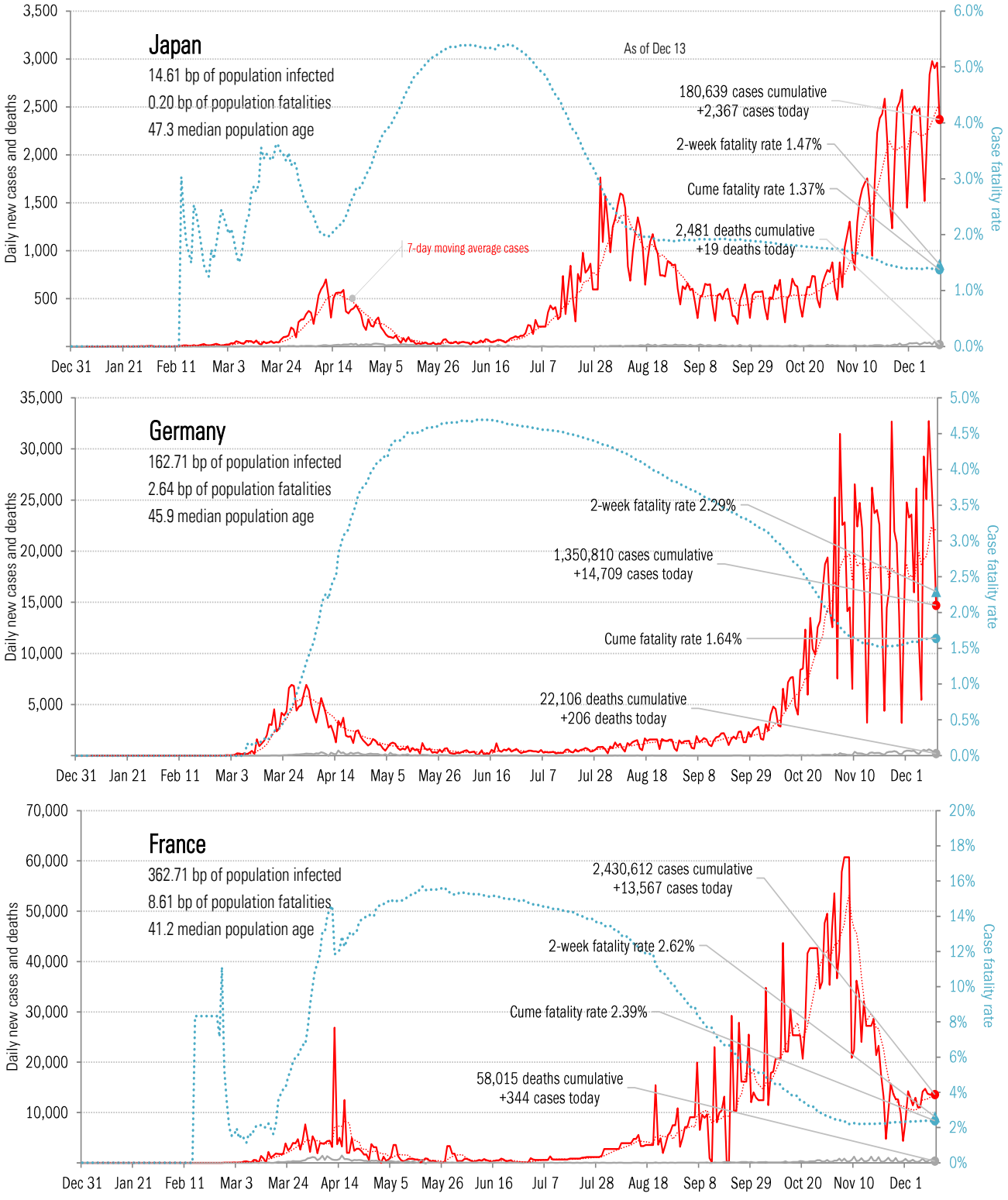
Source: Covid Tracking Project, TrendMacro calculations

Patient zero… and then everyone else



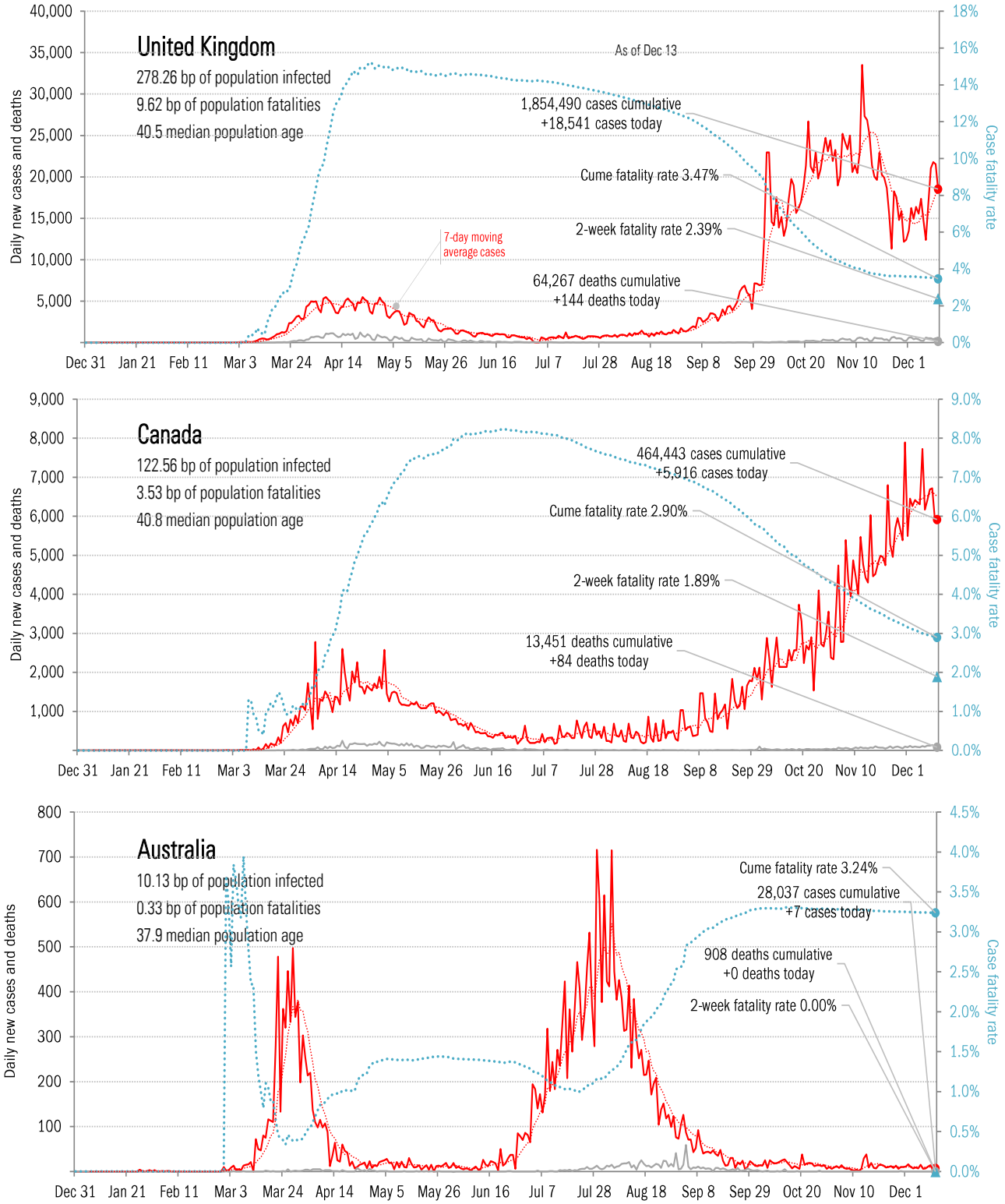
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

Impact in the largest economies



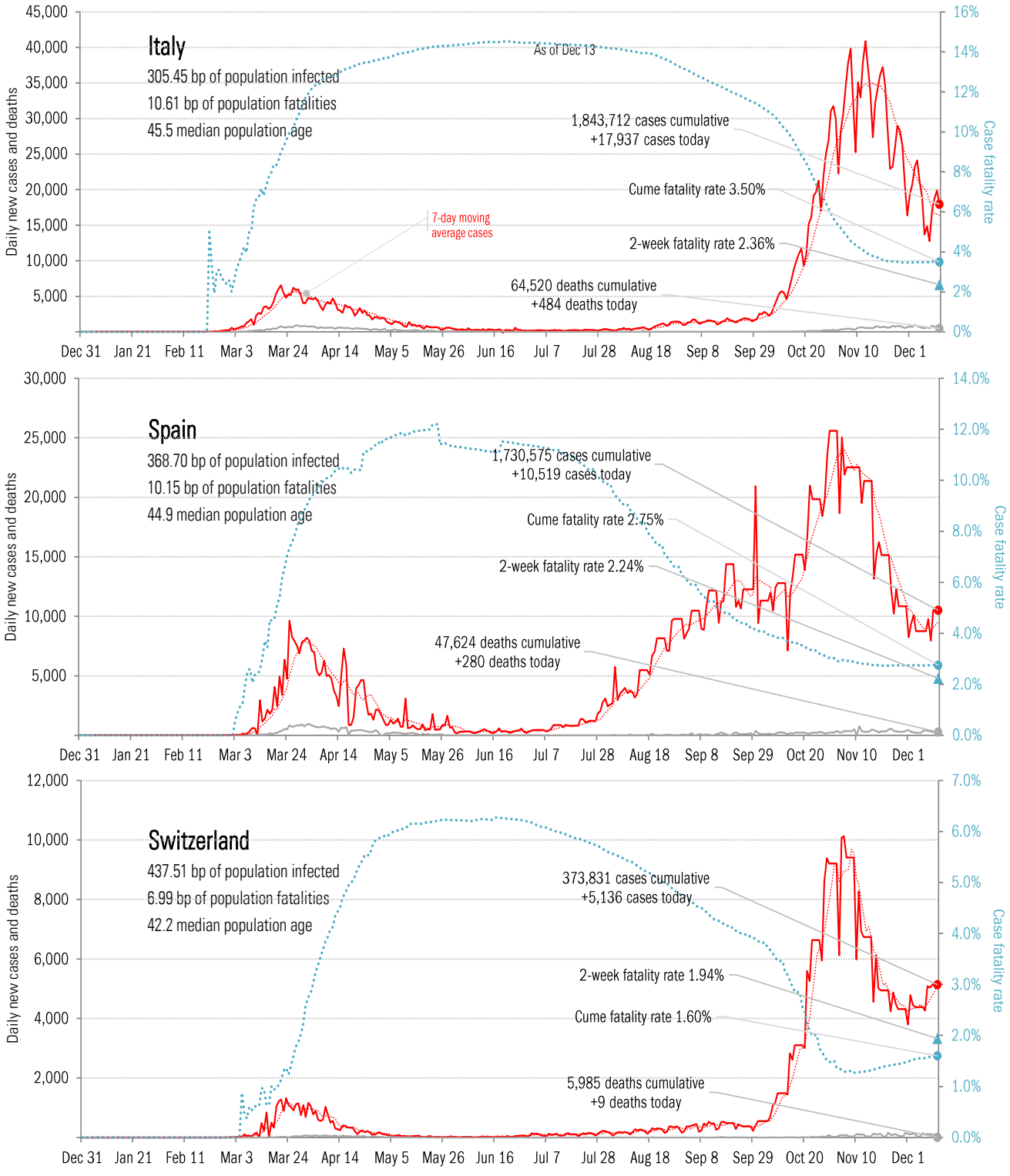
Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere



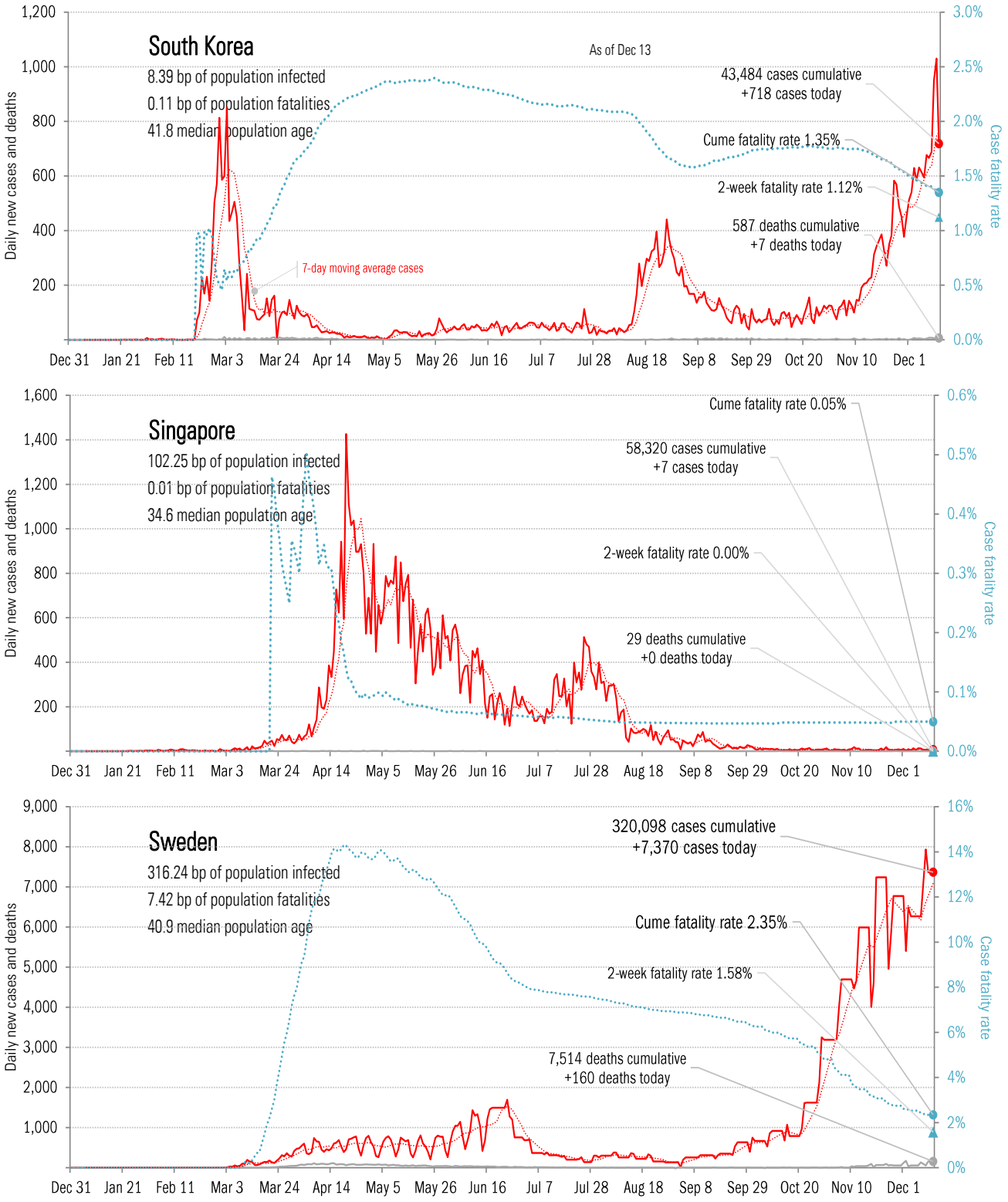
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



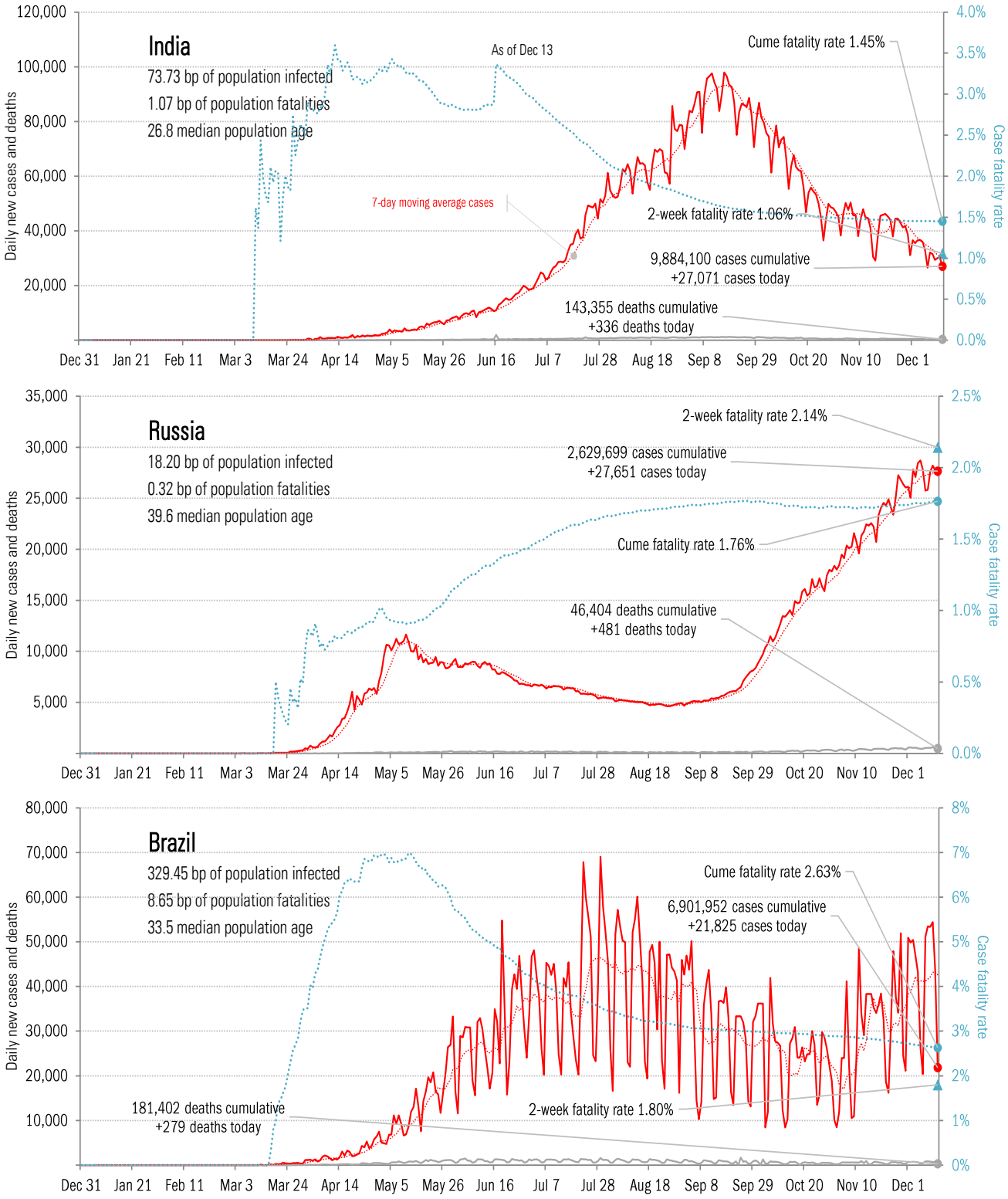
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



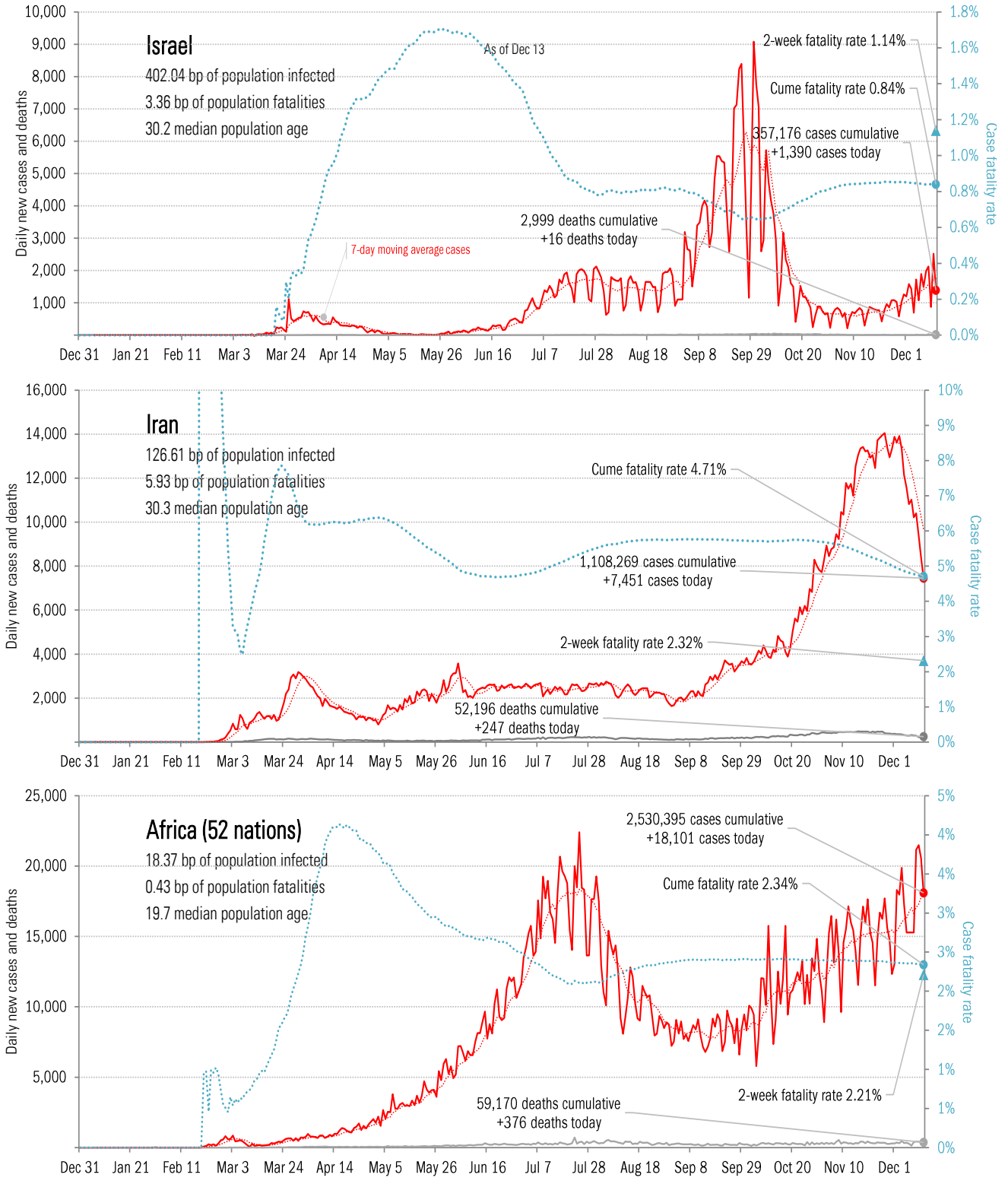
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations