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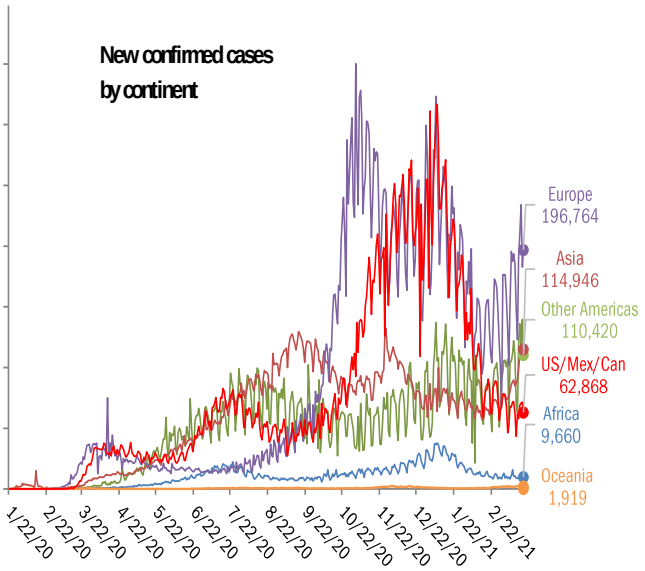
Data Insights: Covid-2019 Monitor

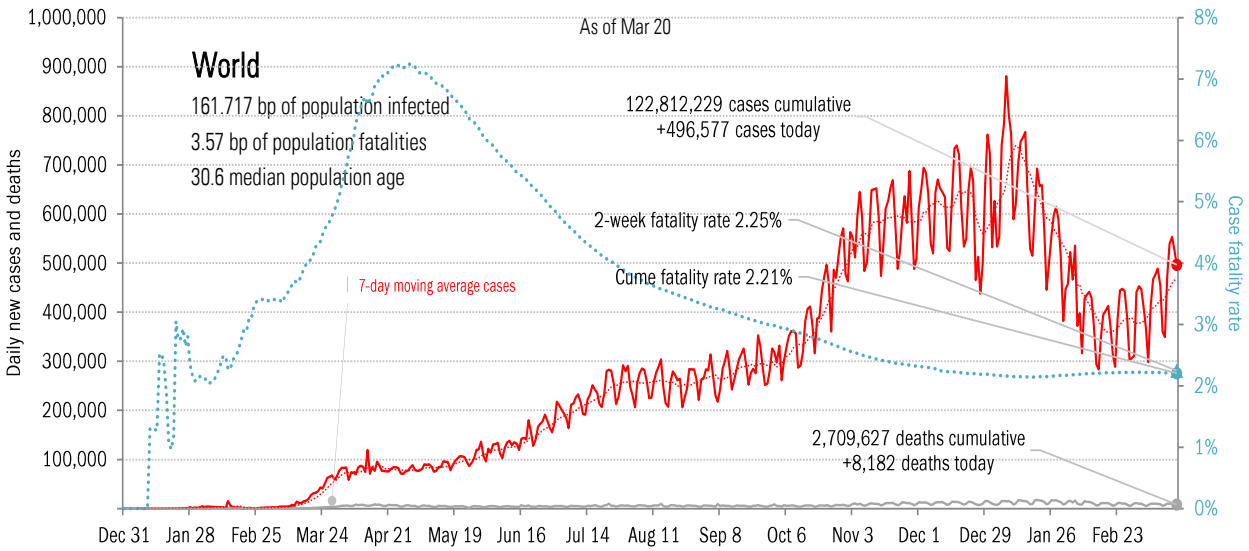
Sunday, March 21, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Brazil	+79,069	Brazil	+2,438
United States	+53,722	United States	+771
India	+43,846	Mexico	+608
France	+35,038	Italy	+401
Poland	+26,456	Russia	+386
Italy	+23,913	Poland	+352
Turkey	+21,061	France	+286
Ukraine	+15,376	Ukraine	+266
Germany	+14,499	Hungary	+227
Hungary	+11,132	Czechia	+199
	+324,112		+5,934
World	+496,577	World	+8,182
Top ten	65%	Top ten	73%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

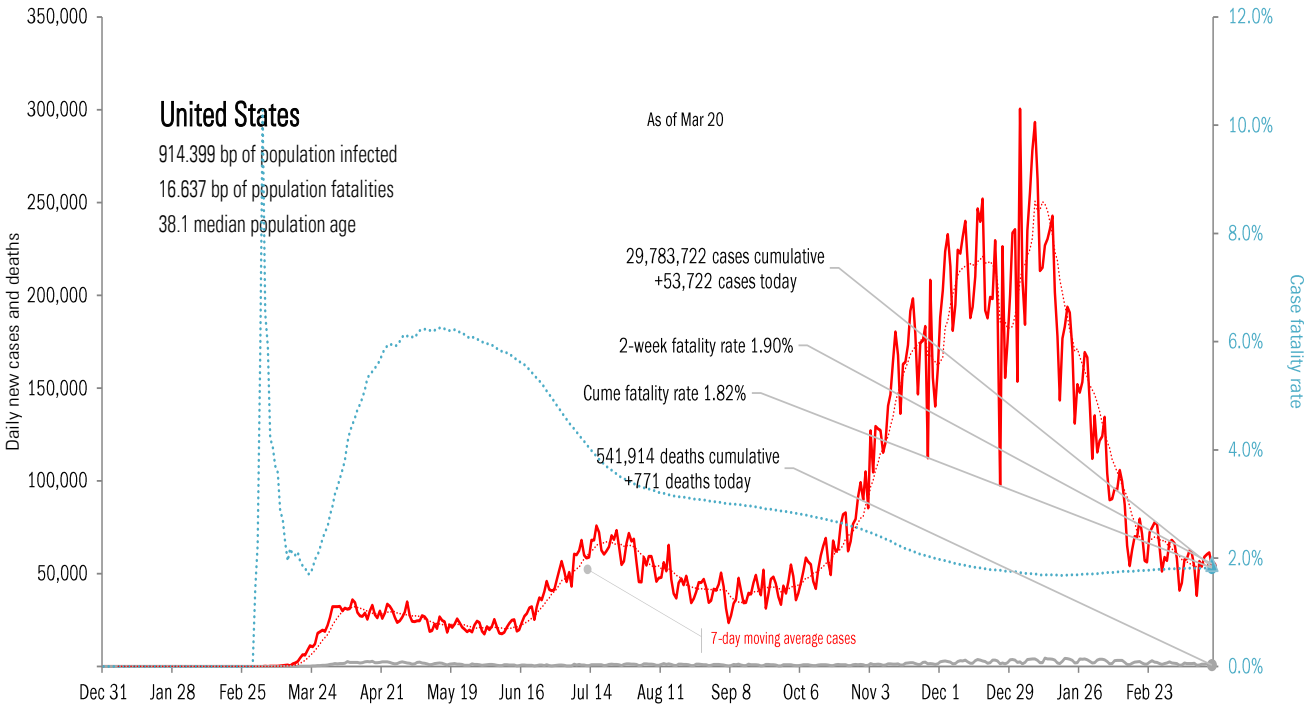
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	+6,667	TX	+100	MI	+97	CA	3,639,874	CA	57,435	TX	222,778	RI	94%	NY	19%
FL	+5,105	CA	+85	PA	+59	TX	2,752,279	NY	49,401	CA	219,763	ID	83%	MD	18%
NJ	+4,909	GA	+66	FL	+52	FL	2,004,362	TX	47,298	FL	147,730	MA	82%	DC	16%
PA	+3,603	NY	+66	GA	+51	NY	1,779,034	FL	32,713	NY	109,577	MD	80%	TX	15%
MI	+3,255	FL	+62	NY	+32	IL	1,220,326	PA	24,783	GA	92,807	PA	80%	GA	14%
TX	+2,655	MI	+49	OH	+26	GA	1,044,134	NJ	24,134	OH	73,979	CT	79%	MS	14%
MA	+2,376	AZ	+42	MN	+25	OH	998,819	IL	23,329	PA	71,396	MO	77%	NM	13%
CA	+2,148	NJ	+31	CO	+15	PA	986,712	GA	18,530	KY	66,982	MI	77%	MO	12%
NC	+2,034	MA	+29	NJ	+12	NC	895,263	OH	18,339	IL	66,782	FL	77%	NJ	12%
IL	+1,939	MD	+26	IL	+11	NJ	862,648	MI	16,906	AZ	57,653	DC	77%	ID	12%
	+34,691		+556		+380		16,183,451		312,868		1,129,447				
All states	+53,722		+771		+142	All states	29,783,722		541,914		2,007,777	All states	70%		67%
Top ten	65%		72%		268%	Top ten	54%		58%		56%	Median	71%		9%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TN	-1,997	OH	-348	TX	-64	CO	+96 bp
VA	-1,632	KY	-166	NC	-27	RI	+95 bp
TX	-1,275	TX	-73	WA	-24	NM	+79 bp
CT	-1,207	CA	-65	TN	-17	IA	+68 bp
MI	-1,162	WV	-30	NJ	-16	SD	+65 bp



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

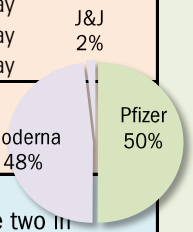
Rolling out the vaccines in the US and the world

US overall	Over last day
164.31 million doses distributed	+2.54 million/day
126.86 million doses administered	+3.23 million/day
82.45 million persons partially immunized	+2.19 million/day
44.98 million persons fully immunized	+1.14 million/day
7.65 million shots long-term care residents/staff	+0.02 million/day

77.2% of distributed doses administered

24.7% of US pop partial **13.5% full immunity**

100% of LTC partial **62.2% full immunity**



At today's dosing pace, every American will have two in

164 days

by Aug 31, 2021

US will achieve herd immunity in

64 days

by May 23, 2021

Share pop full immunization	
United States	12.9%
United Kingdom	3.1%
France	3.4%
Spain	4.0%
Germany	3.9%
Italy	4.0%
Australia	0.5%
Israel	52.3%
Canada	1.7%
Japan	0.0%
Africa	0.2%
India	0.5%
Brazil	1.6%

Global data differs due to sources

State	
Doses distributed as % population	Best
Partial immunity as % population	Middle
Full immunity as % population	Worst

AK	WI	VT	ME
71.2%	44.9%	55.0%	50.6%
30.2%	25.6%	27.6%	27.8%
19.6%	14.8%	14.5%	15.3%

WA	ID	MT	ND	MN	IL	MI		NY	MA	NH
47.1%	43.9%	51.6%	51.3%	45.2%	46.6%	45.5%		49.3%	48.2%	47.9%
24.4%	21.4%	25.8%	28.3%	26.1%	24.8%	23.4%		24.9%	28.0%	27.1%
14.0%	13.4%	15.4%	16.4%	14.8%	13.6%	13.3%		12.1%	14.8%	13.1%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
45.9%	43.8%	54.3%	58.9%	47.0%	44.0%	47.4%	48.9%	46.7%	53.3%	48.5%
23.2%	23.1%	23.2%	29.6%	25.8%	21.4%	23.3%	24.4%	27.4%	29.0%	28.3%
13.4%	12.9%	14.7%	17.9%	15.4%	13.9%	13.5%	12.5%	14.2%	16.1%	14.0%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
47.8%	41.2%	46.6%	48.7%	46.4%	46.4%	52.4%	44.8%	47.4%	49.9%
24.2%	20.3%	23.9%	24.9%	21.8%	26.1%	26.1%	24.9%	24.5%	24.5%
12.1%	9.0%	14.6%	14.8%	11.7%	13.5%	15.9%	13.8%	13.5%	13.3%

	AZ	NM	KS	AR	TN	NC	SC	DC
	47.6%	56.5%	49.8%	48.6%	46.1%	47.0%	43.4%	63.1%
	24.2%	32.3%	24.5%	21.7%	20.4%	24.2%	22.0%	20.3%
	13.8%	19.4%	12.8%	11.1%	10.7%	13.4%	12.2%	10.2%

		OK	LA	MS	AL	GA		
		56.6%	46.6%	47.7%	44.4%	42.9%		
		26.5%	22.3%	21.4%	19.6%	18.1%		
		14.2%	13.0%	11.9%	11.4%	10.7%		

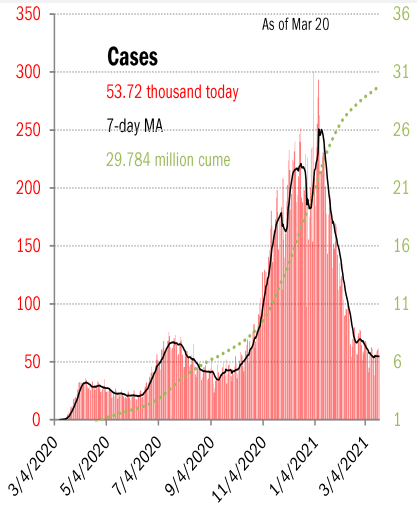
HI		TX					FL		PR
54.2%		43.5%					49.8%		51.7%
26.7%		21.4%					23.1%		17.3%
16.1%		10.6%					13.0%		10.0%

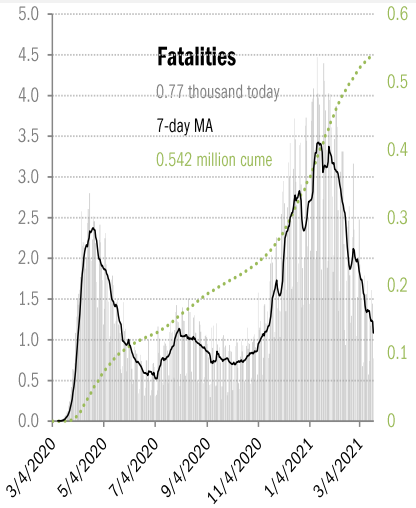
As of Mar 20

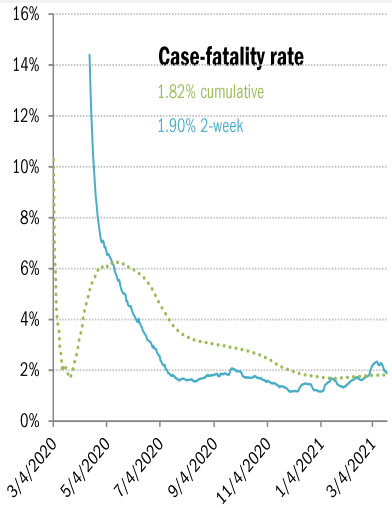
Source: CDC, CDC, Our World in Data, TrendMacro calculations

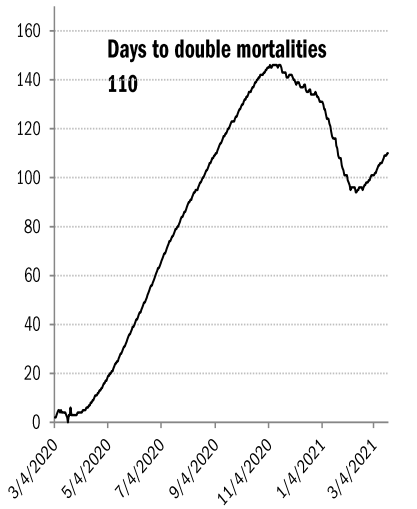
US deep-dive

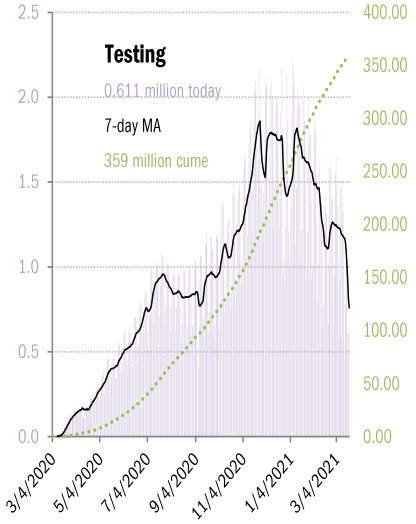
National and state-by-state data do not line up because of different sources

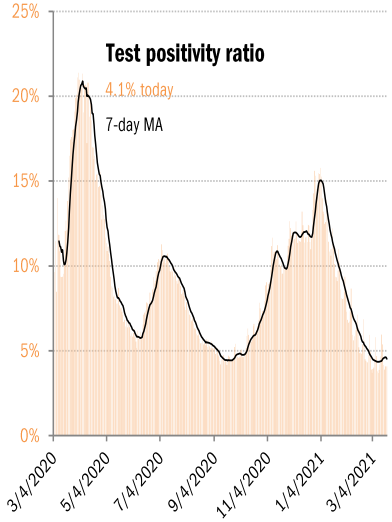


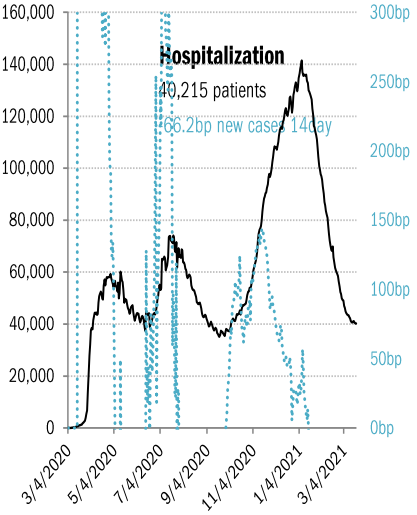


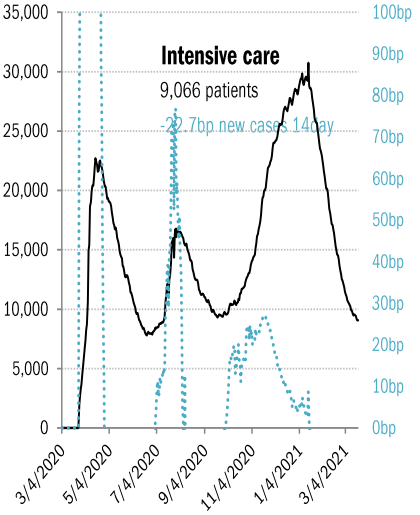


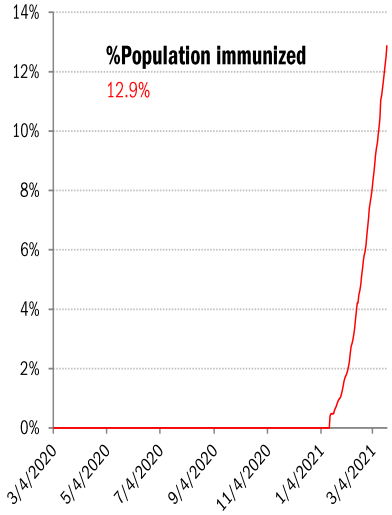






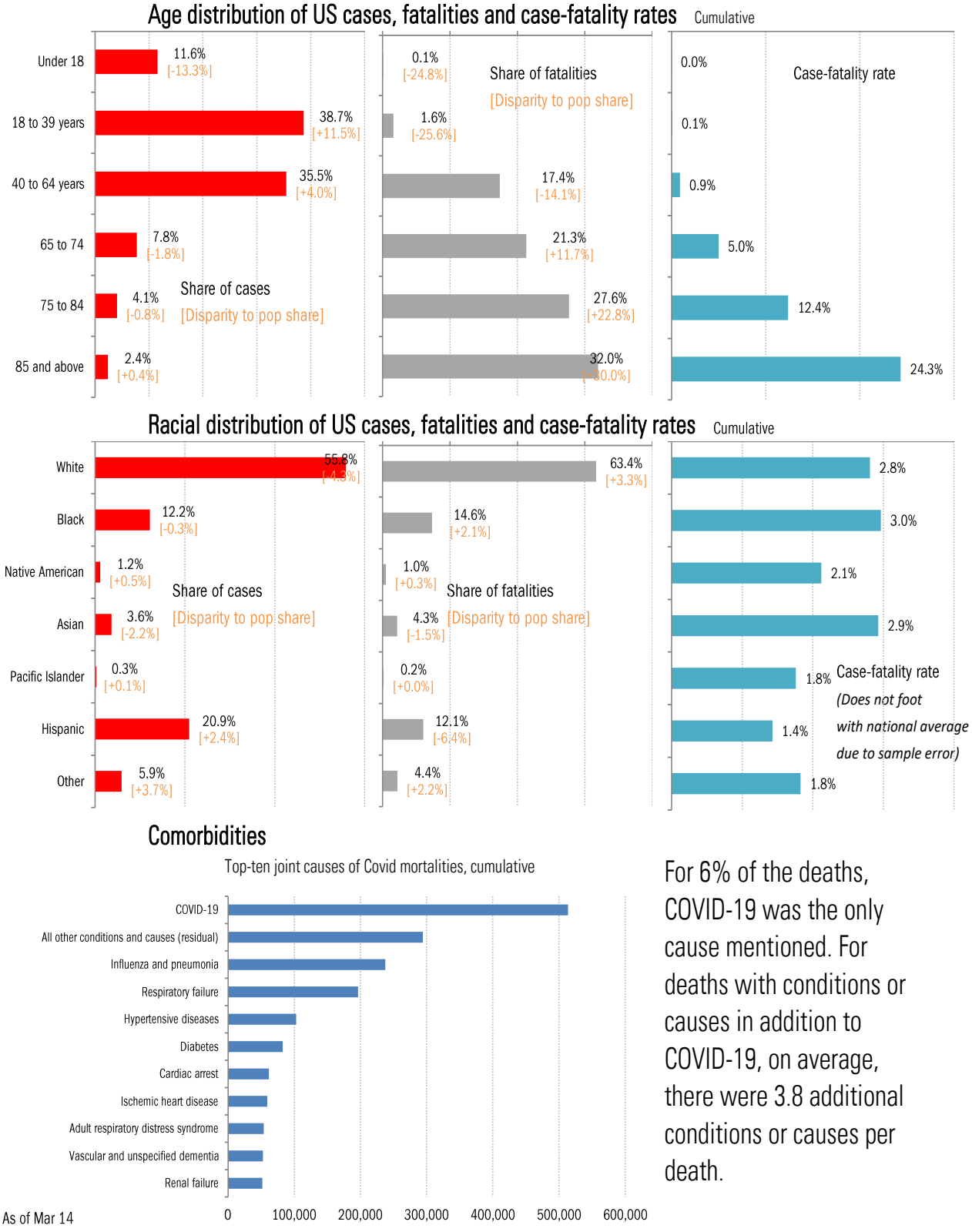






Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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



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 3.8 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[Push to make Covid vaccines causes US drug shortages]
Hannah Kuchler
Financial Times
March 20, 2021

[L.A. Theaters Open, but New Films Are Still Just Trickling Out]
Kelly Gilblom
Bloomberg
March 20, 2021

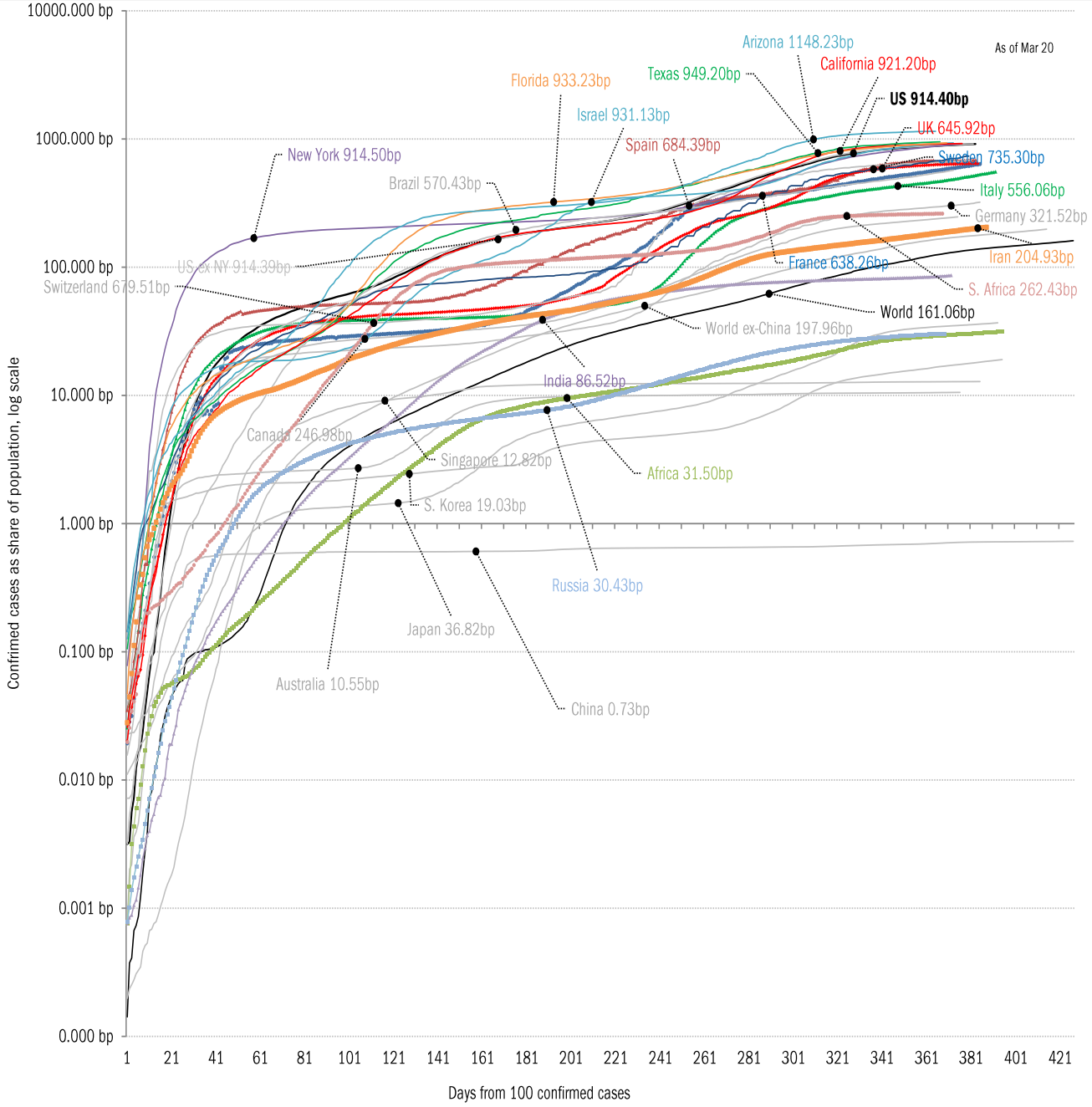
['Everyone's scrambling and hoarding': Europe's vaccine blunders]
Financial Times
March 20, 2021

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

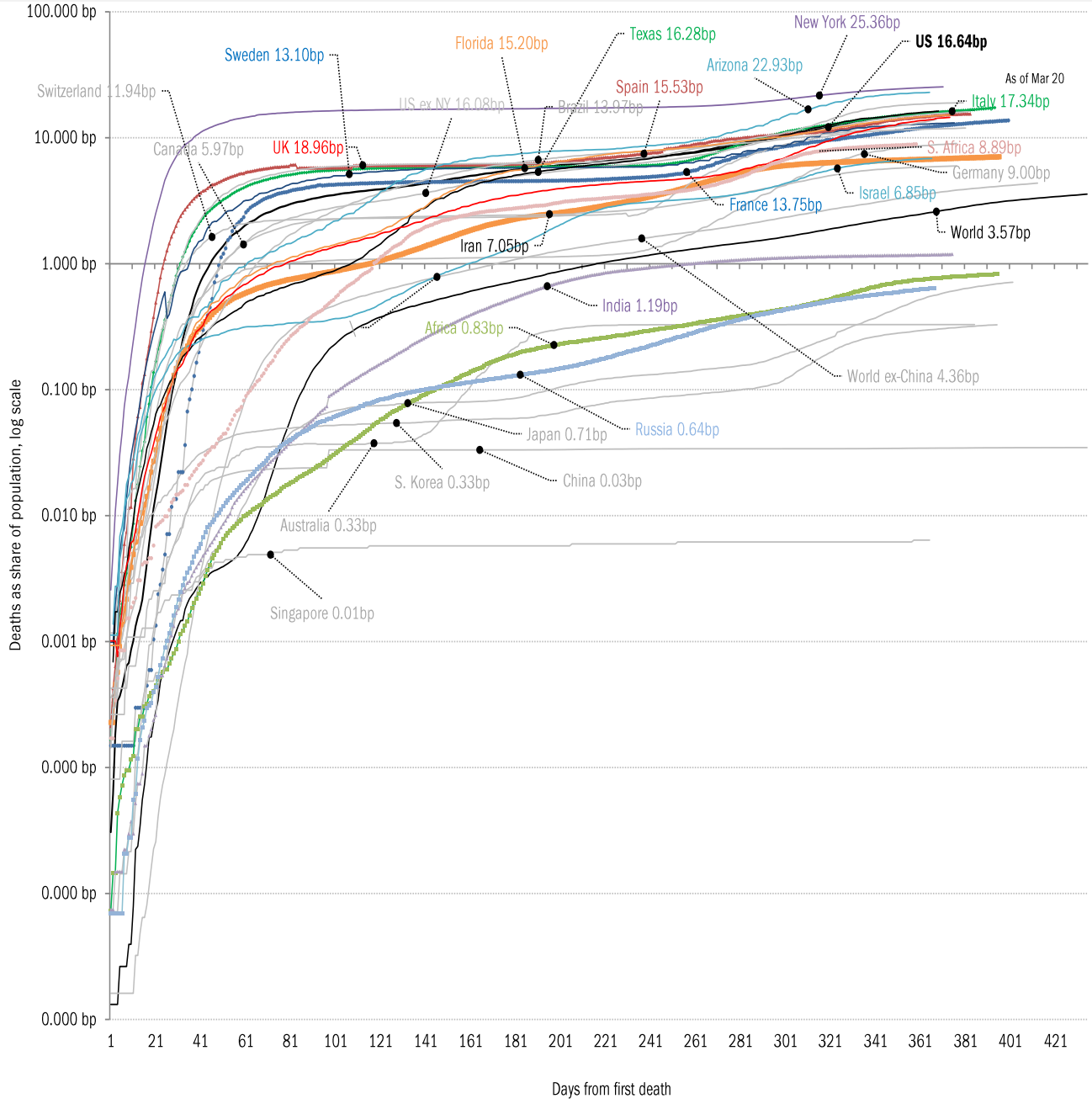
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

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

Share of deceased population from day of first fatality

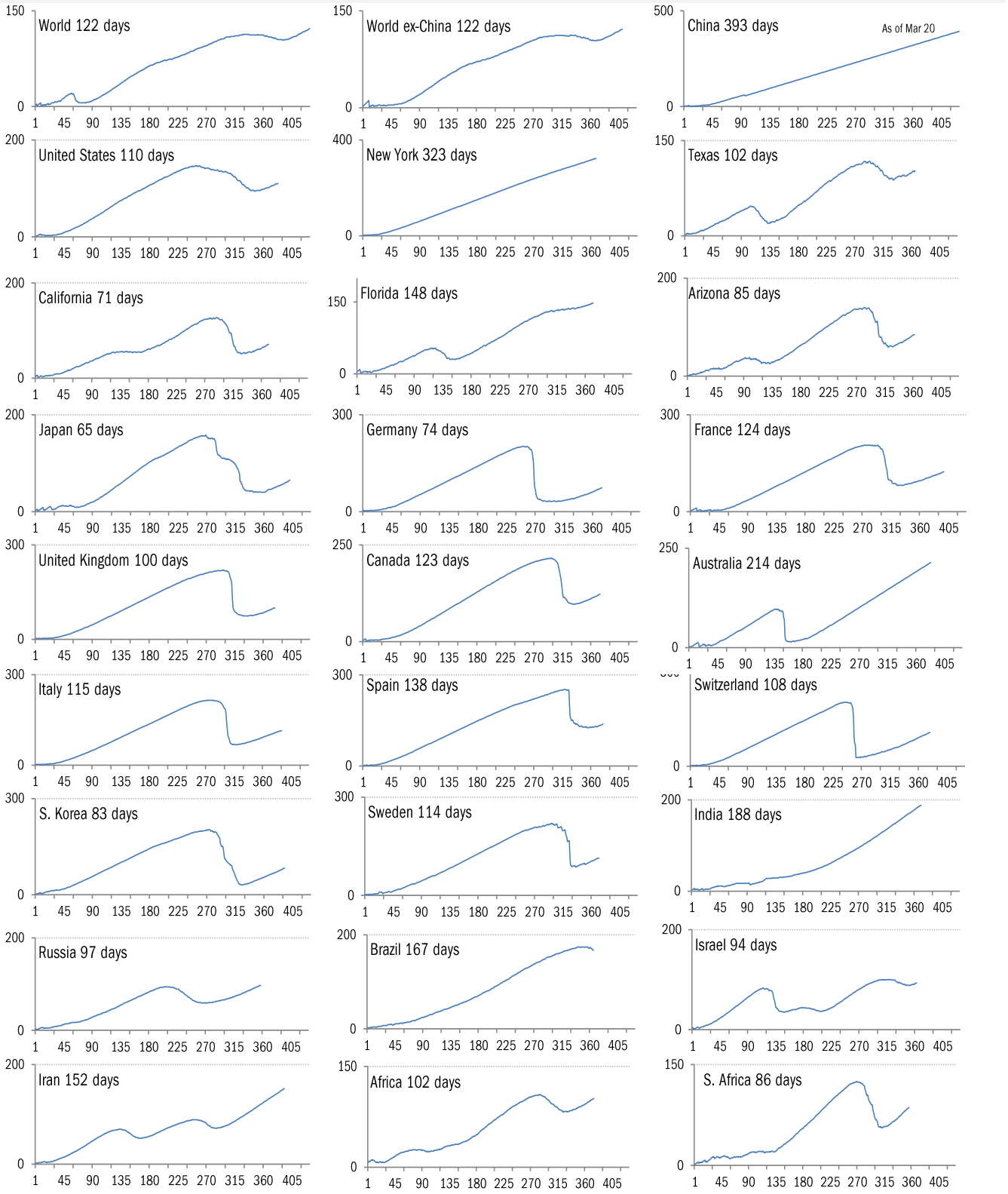


Source: Johns Hopkins, TrendMacro calculations

"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

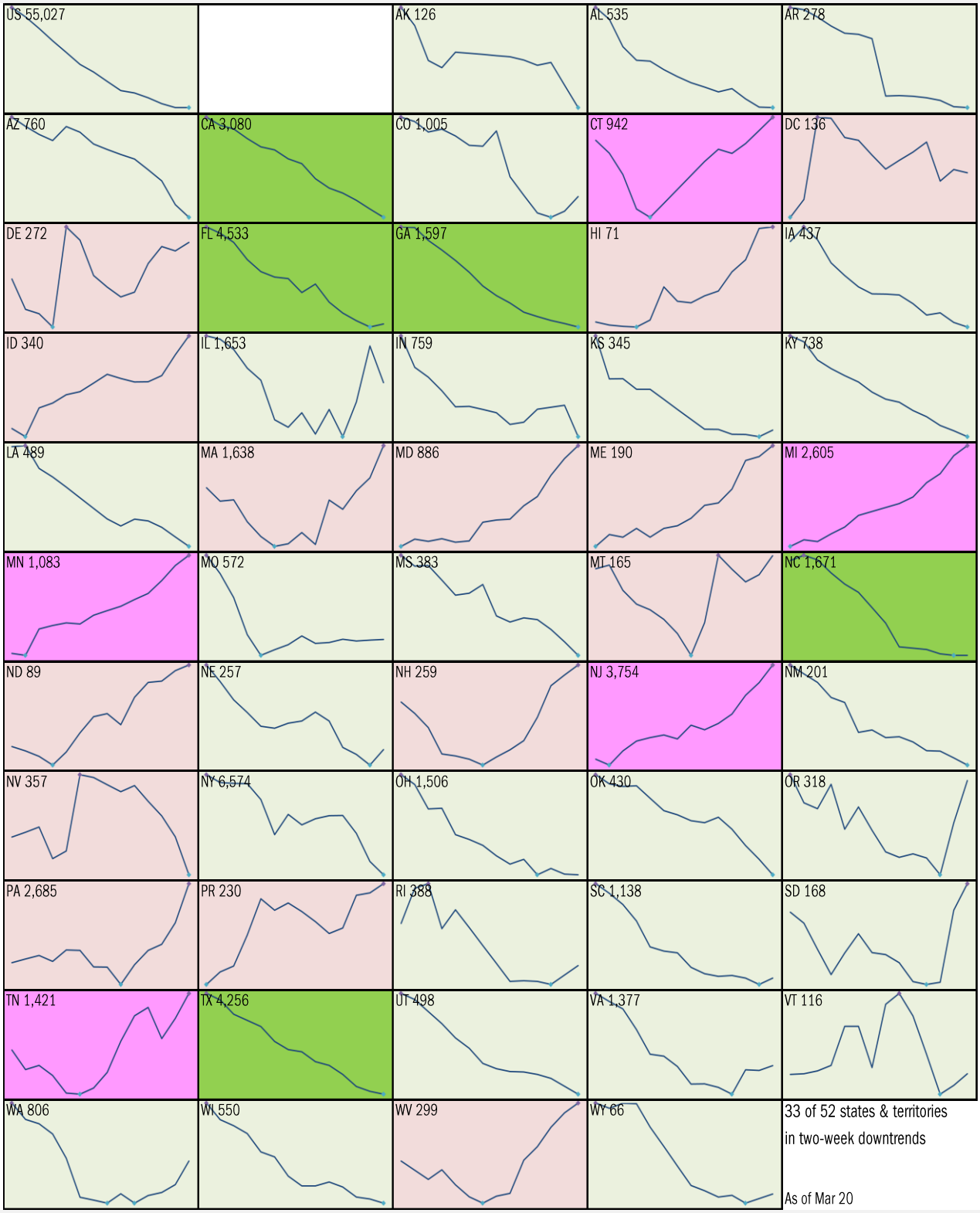


Source: Johns Hopkins, TrendMacro calculations

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

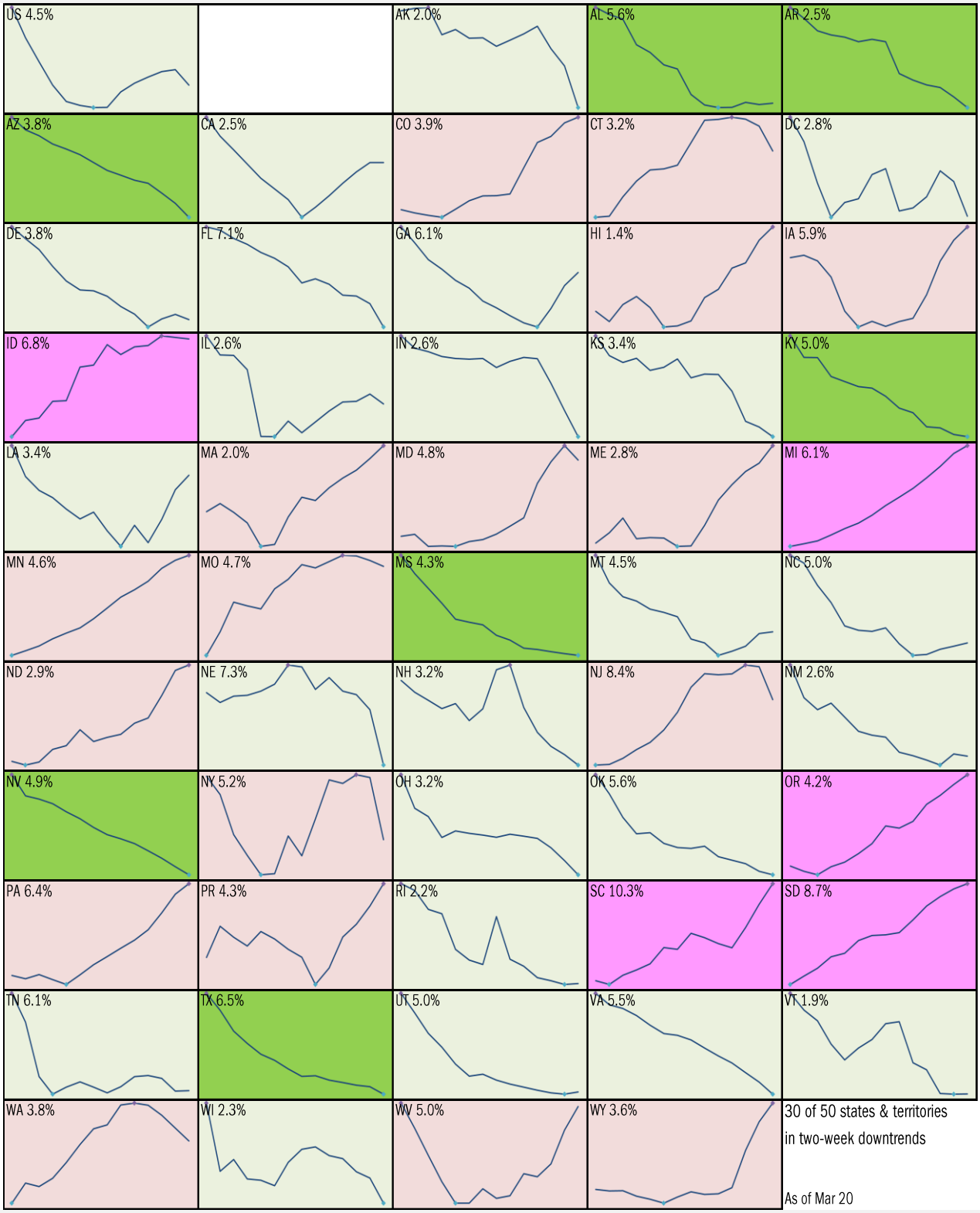


Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

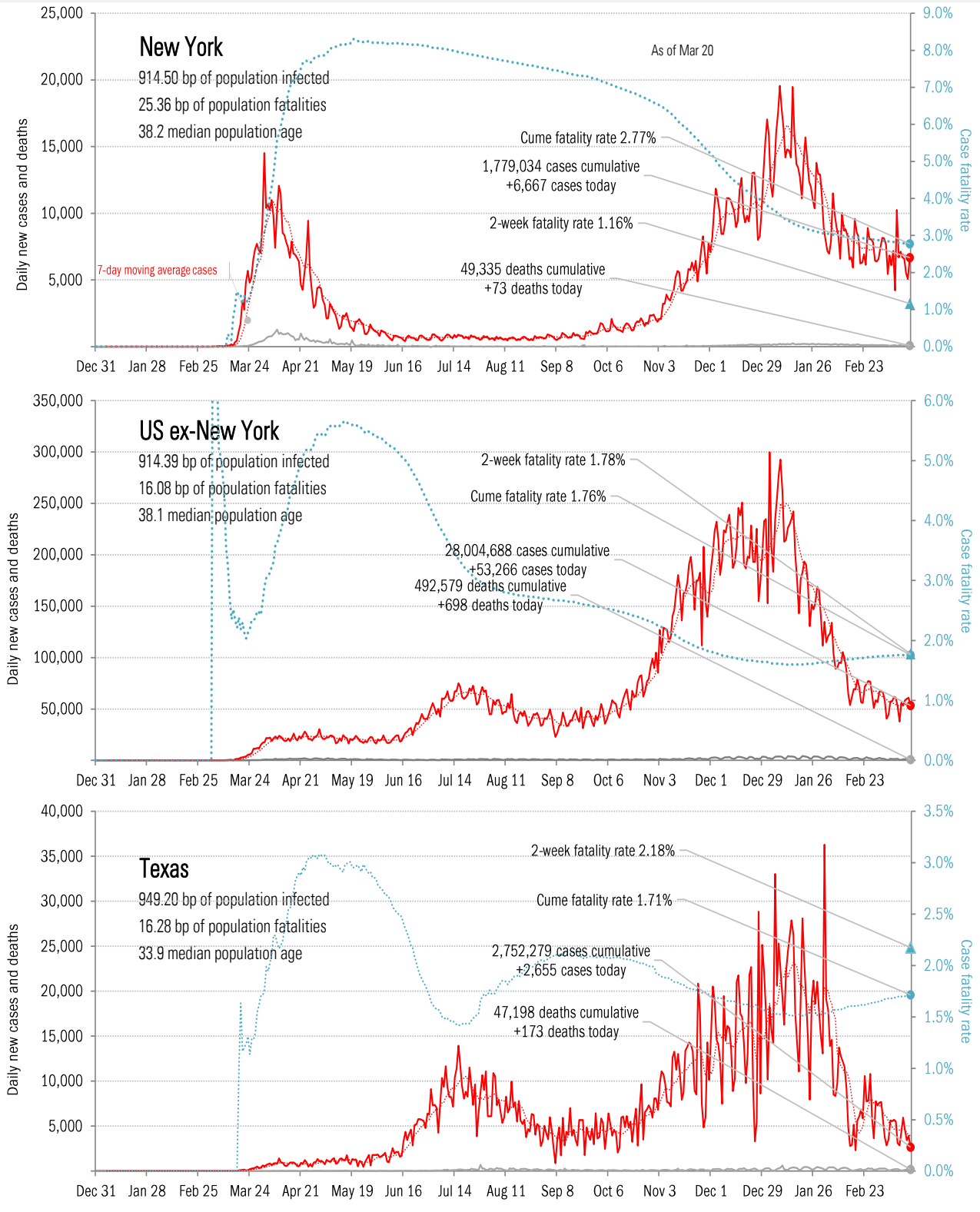
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst



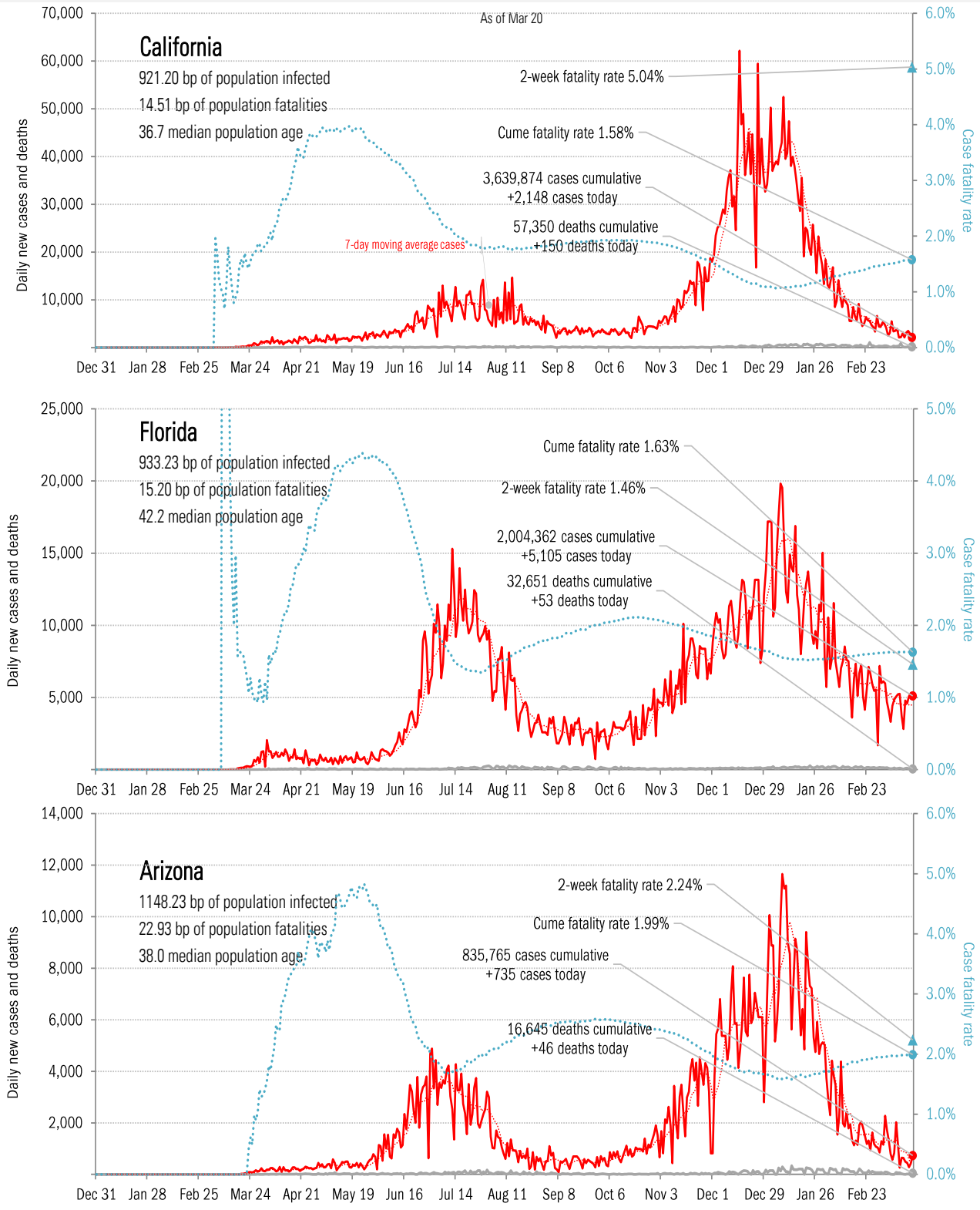
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



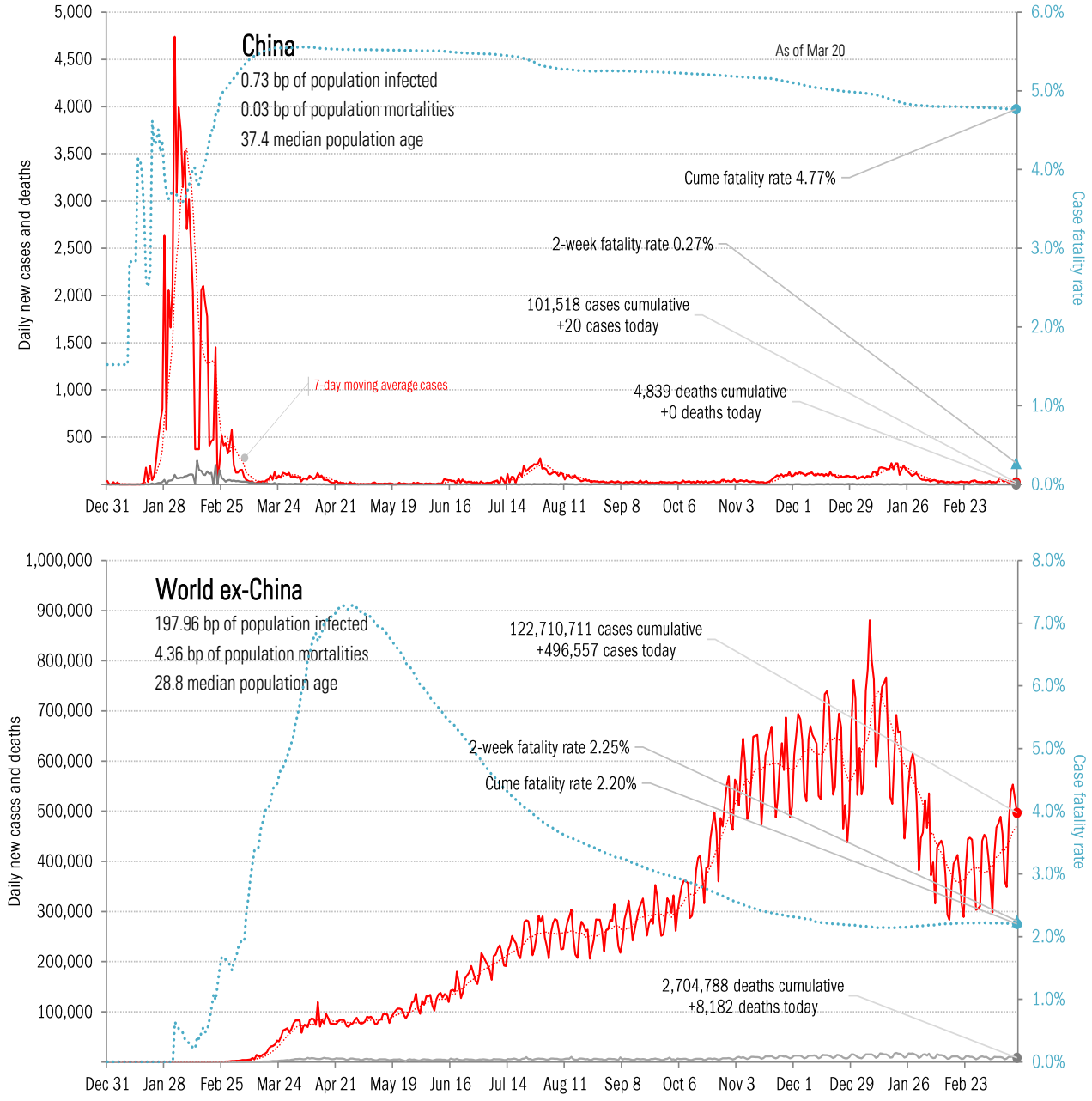
Source: Johns Hopkins, TrendMacro calculations

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



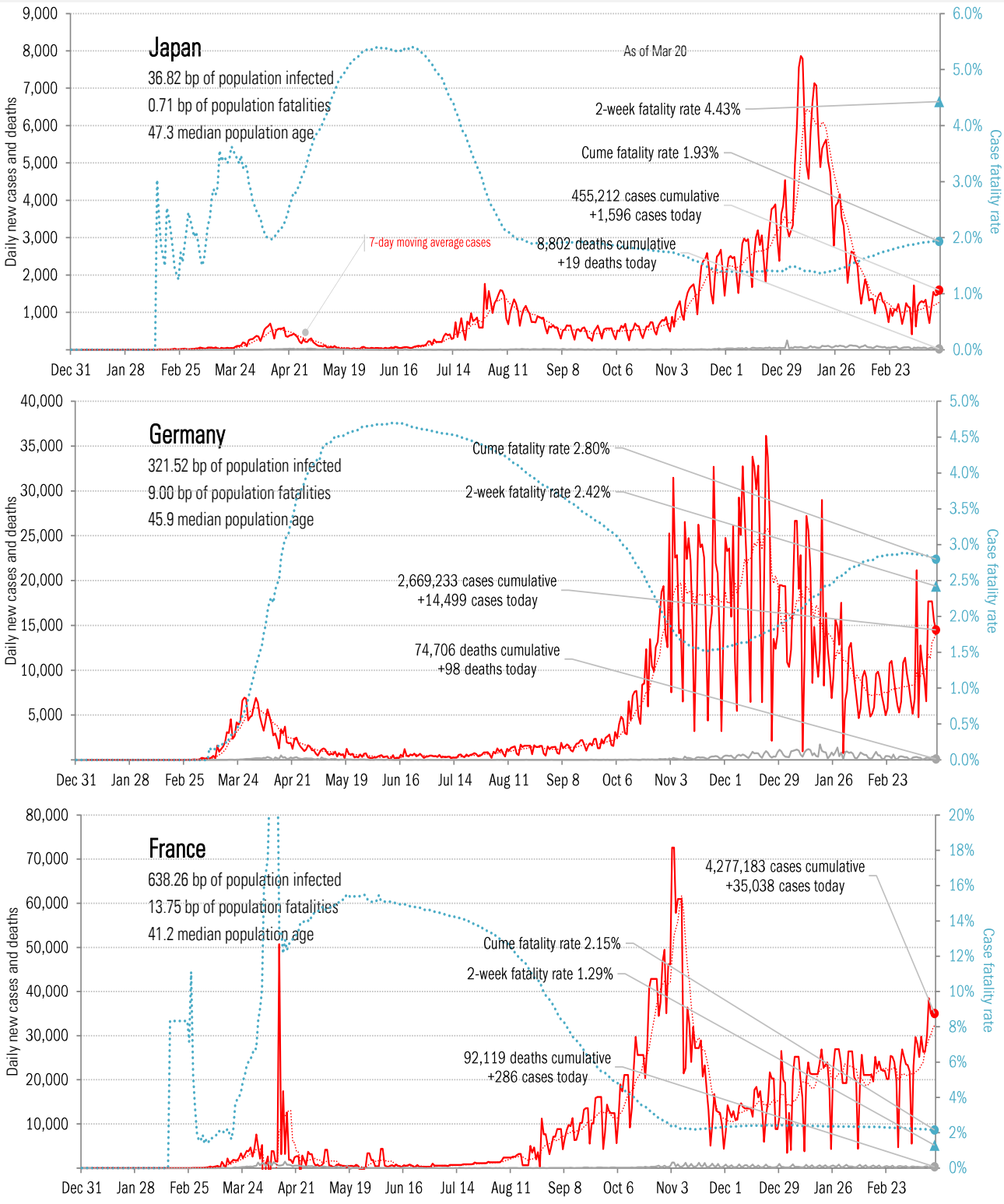
Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else



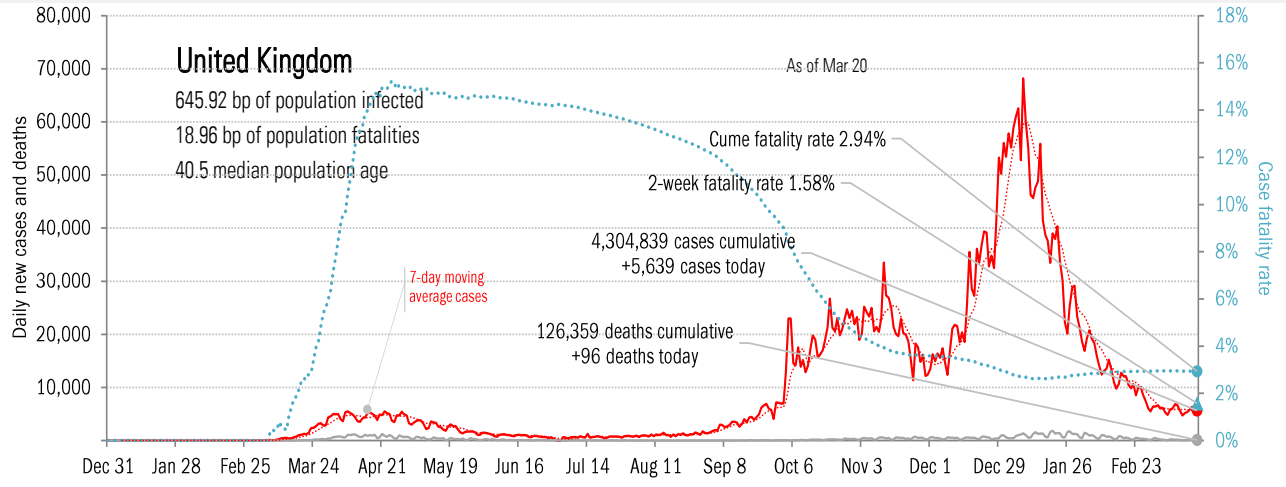
Source: Johns Hopkins, TrendMacro calculations

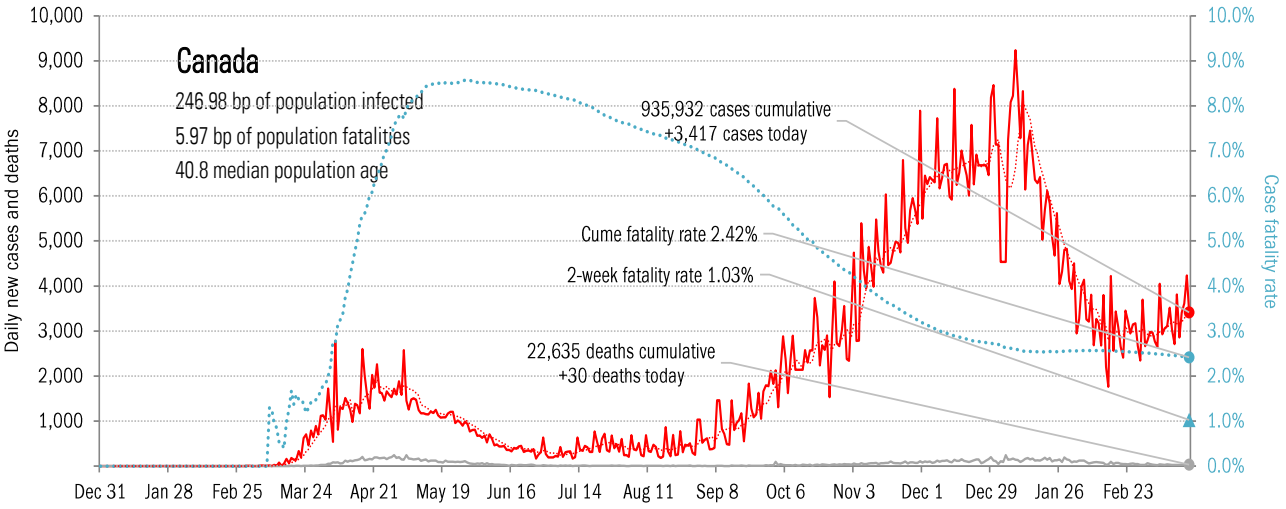
Impact in the largest economies

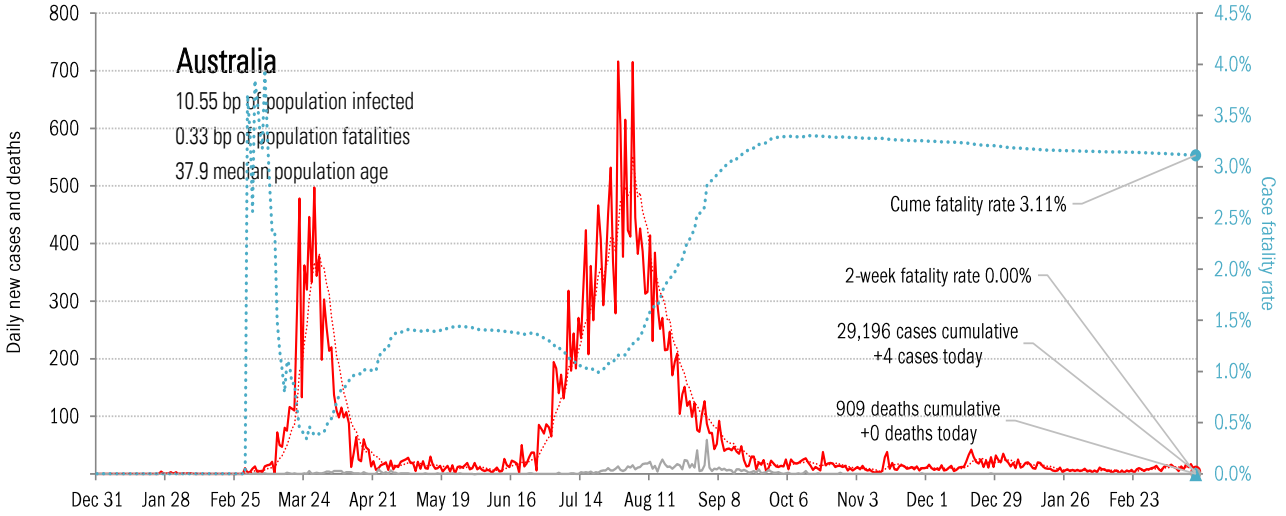


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

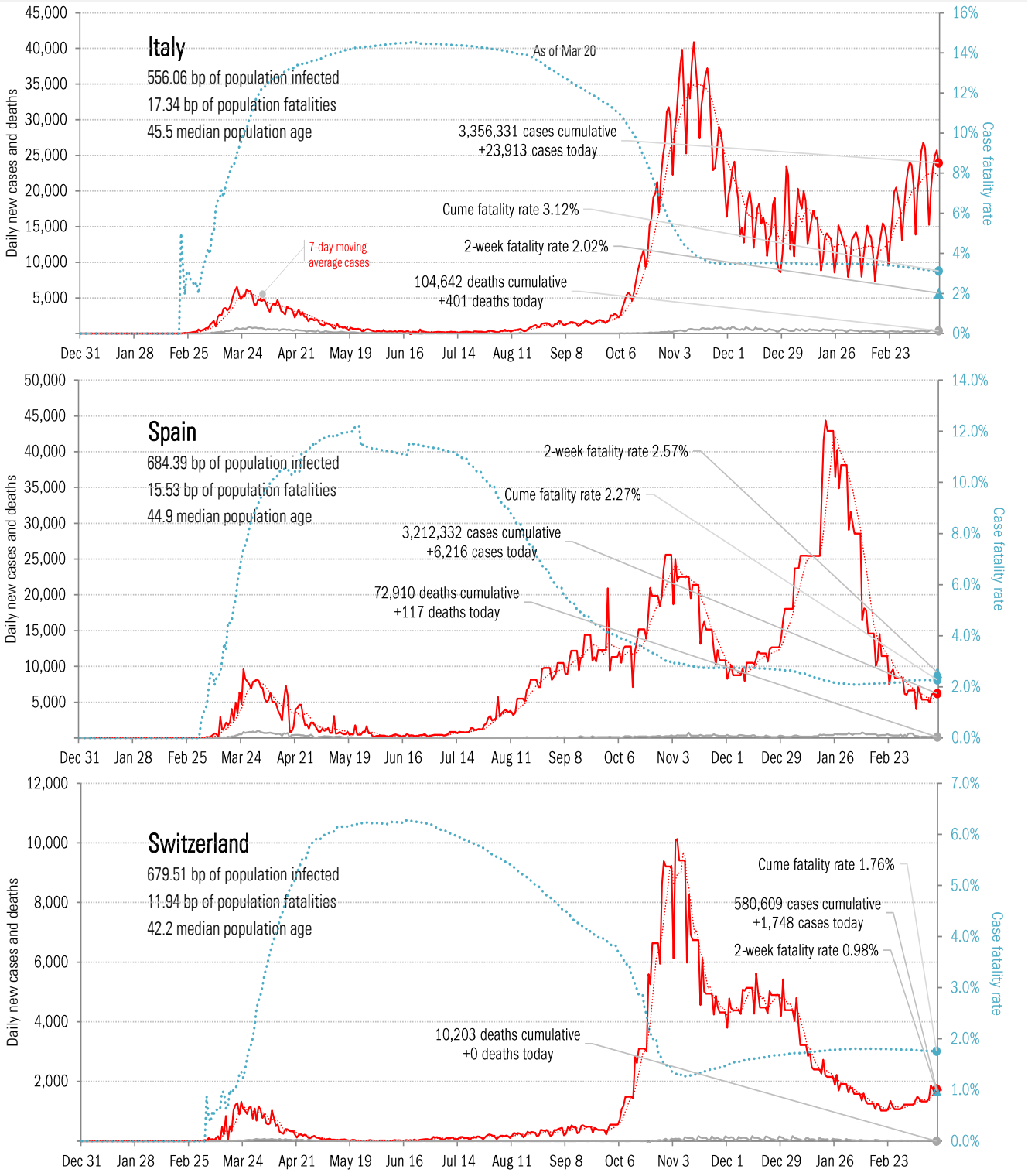






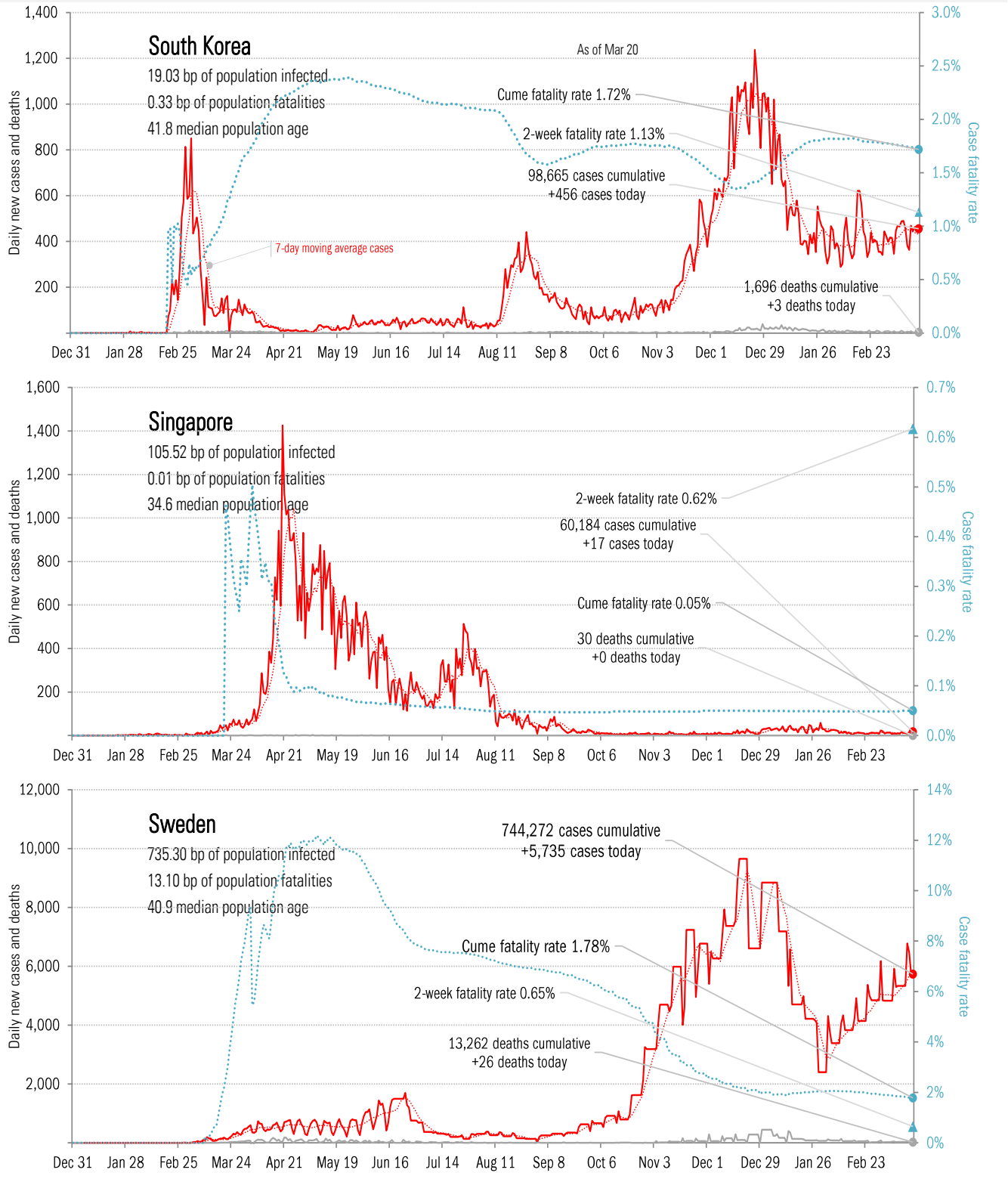
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



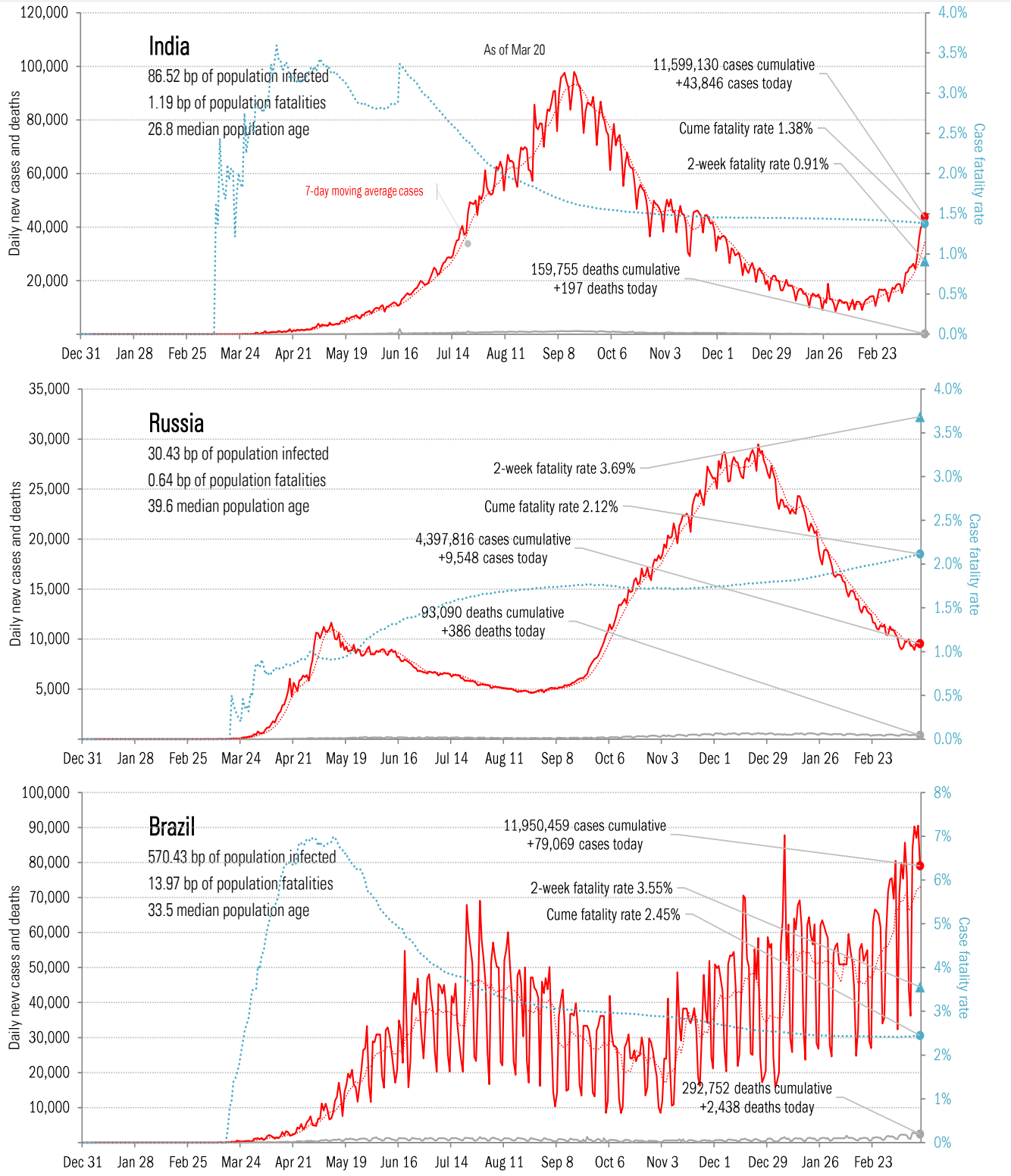
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



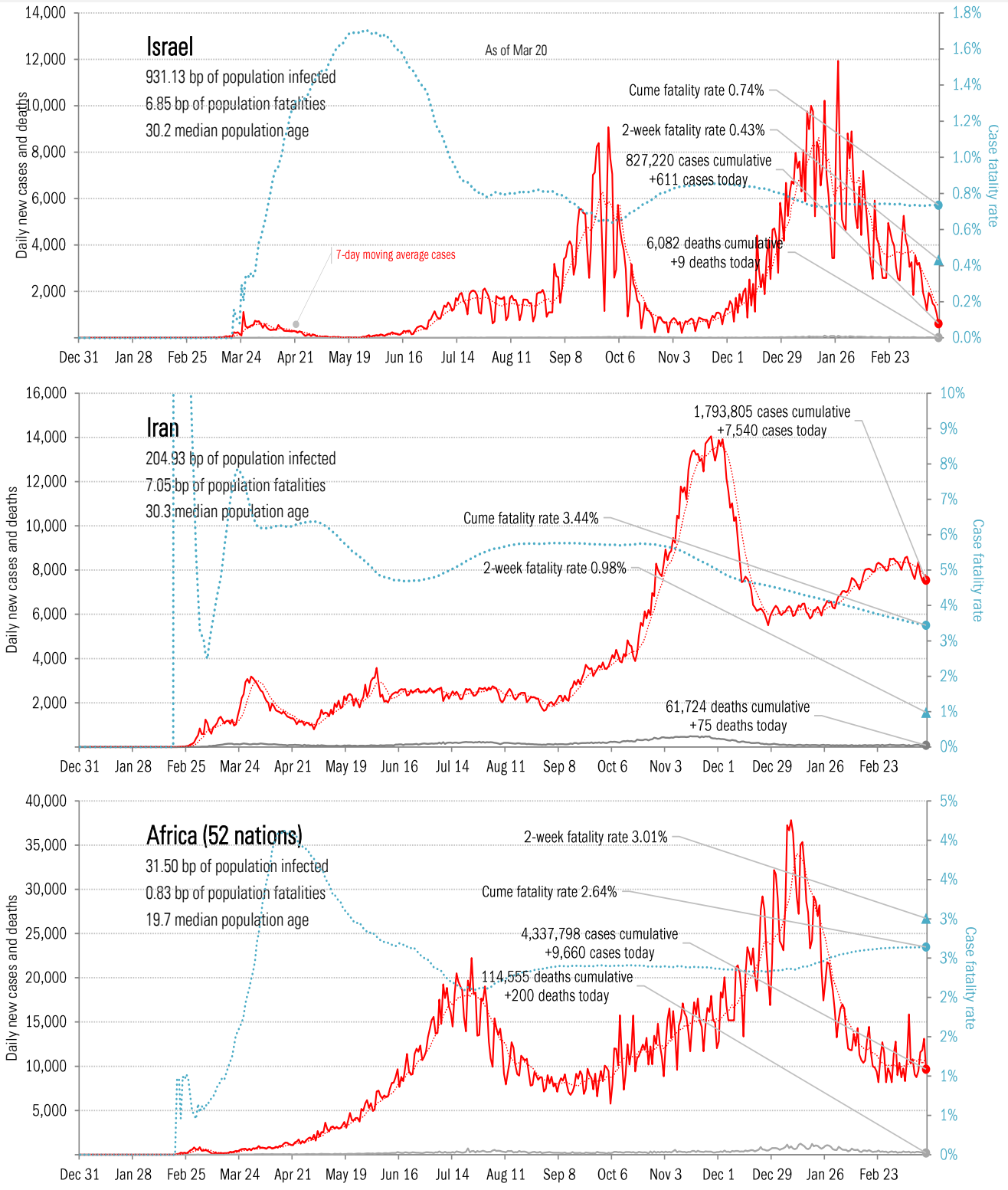
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



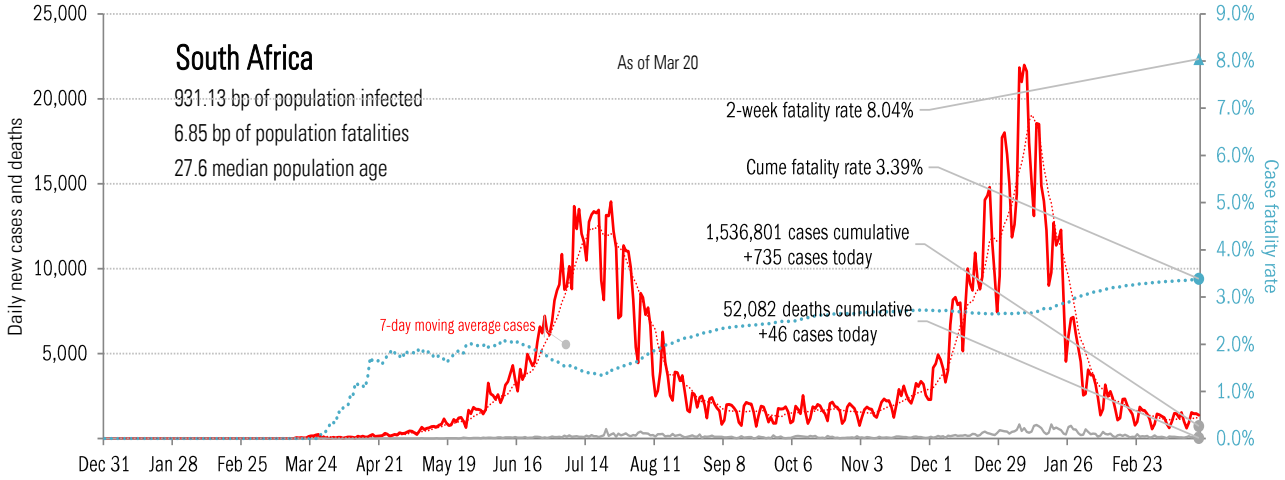
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations