Trend Macrolytics, LLC
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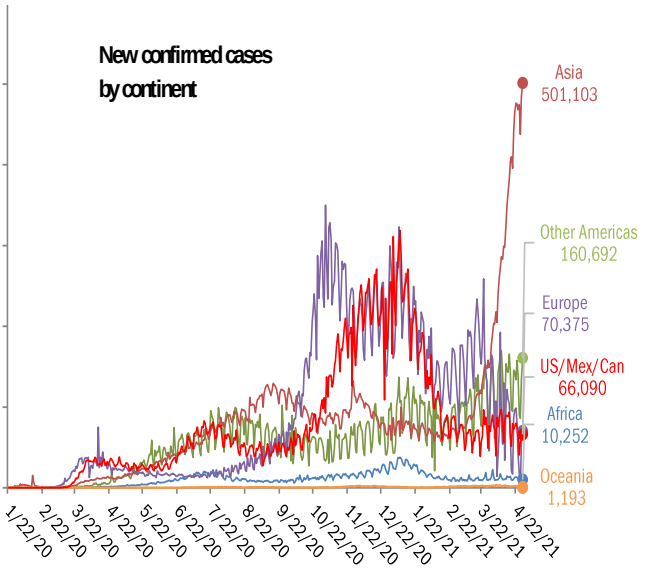
Data Insights: Covid-2019 Monitor

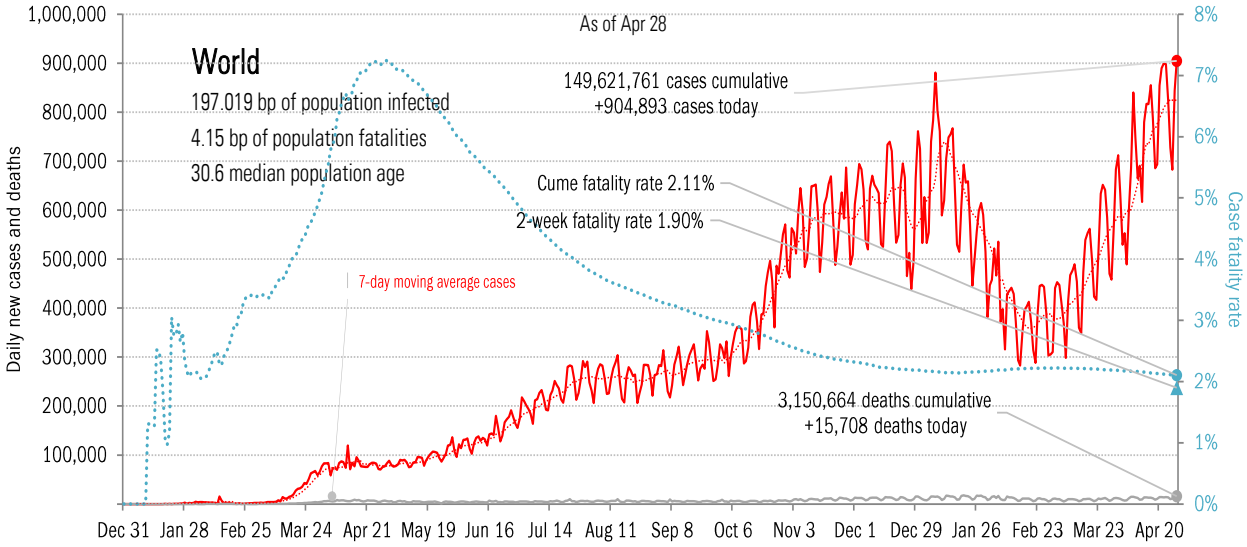
Thursday, April 29, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+379,308	India	+3,645
Brazil	+79,726	Brazil	+3,163
United States	+54,026	United States	+948
Turkey	+40,444	Peru	+729
France	+31,582	Poland	+636
Germany	+28,263	Colombia	+490
Argentina	+23,718	Ukraine	+448
Iran	+21,713	Iran	+434
Colombia	+19,745	Russia	+380
Peru	+15,153	Mexico	+371
	+693,678		+11,244
World	+904,893	World	+15,708
Top ten	77%	Top ten	72%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

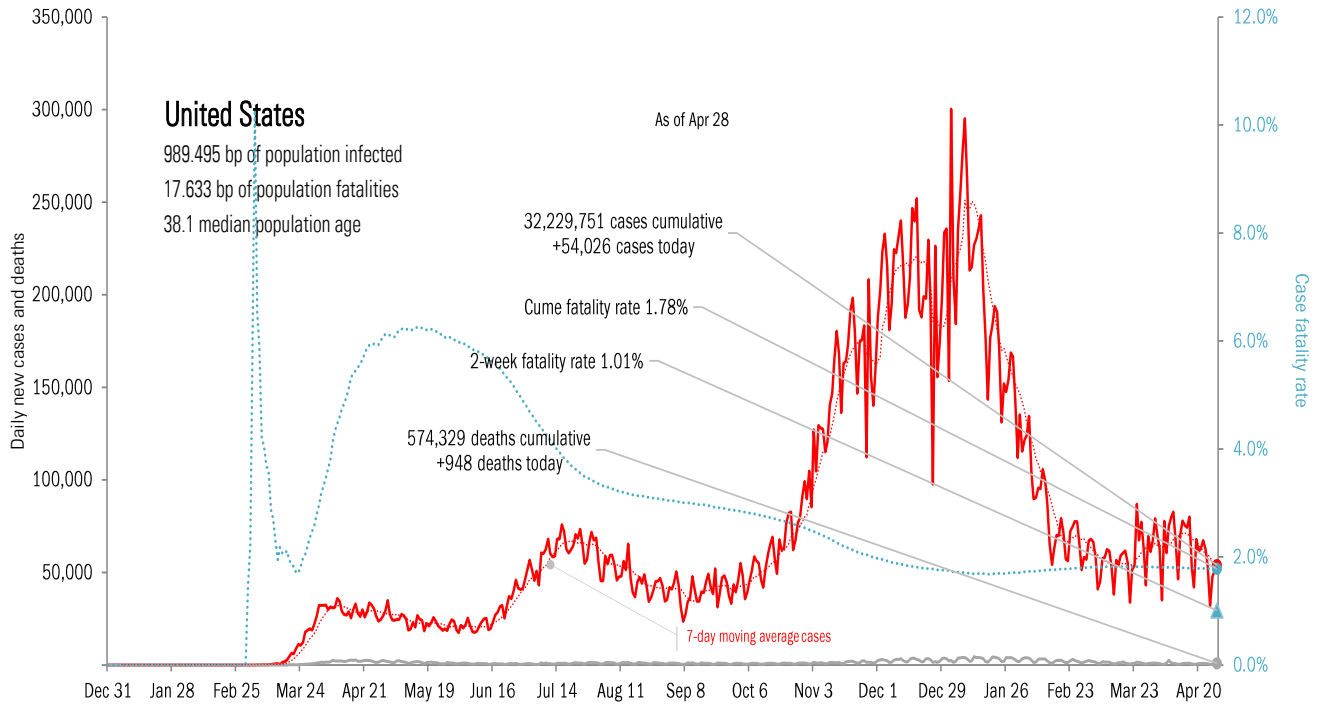
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	+5,178	FL	+72	AZ	+41	CA	3,738,327	CA	61,587	TX	235,417	RI	93%	MI	34%
MI	+4,943	OK	+72	CO	+29	TX	2,886,638	NY	52,140	CA	228,879	MA	84%	MD	24%
TX	+4,215	GA	+71	GA	+29	FL	2,222,546	TX	50,098	FL	164,290	CT	84%	MN	24%
PA	+3,537	TX	+71	PR	+19	NY	2,040,448	FL	35,030	NY	126,406	MD	83%	RI	19%
NY	+3,034	PA	+64	WA	+15	IL	1,328,349	PA	26,112	GA	99,474	PA	82%	PA	18%
IL	+2,719	CA	+61	AL	+11	PA	1,144,777	NJ	25,509	PA	82,330	MI	82%	ME	18%
NJ	+2,113	NJ	+49	CA	+11	GA	1,097,279	IL	24,211	OH	80,384	MO	80%	DE	18%
NC	+1,765	WI	+40	ME	+11	OH	1,068,985	GA	20,098	IL	74,355	GA	80%	CO	17%
OH	+1,723	IL	+37	DE	+8	NJ	993,123	OH	19,188	KY	71,177	FL	79%	NY	16%
WA	+1,640	MI	+37	ID	+8	NC	965,536	MI	18,600	MI	62,840	DC	79%	WV	14%
	+30,867		+574		+182		17,486,008		332,573		1,225,552				
All states	+54,026		+948		-594	All states	32,229,751		574,329		2,185,562	All states	70%		67%
Top ten	57%		61%		-31%	Top ten	54%		58%		56%	Median	72%		11%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
VA	-1,056	MI	-80	MI	-175	DE	+69 bp
CO	-877	NY	-52	NY	-140	NE	+66 bp
CA	-601	MO	-26	PA	-132	MA	+64 bp
NY	-278	VA	-14	TX	-110	CT	+58 bp
NH	-180	NJ	-12	IL	-97	MI	+57 bp

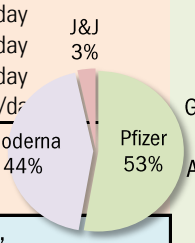


Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day
313.62 million doses distributed	+4.46 million/day
242.74 million doses administered	+2.28 million/day
146.84 million persons partially immunized	+0.95 million/day
101.38 million persons fully immunized	+1.33 million/day
7.79 million shots long-term care residents/staff	+0.001 million/da

77.4% of distributed doses administered
44.0% of US pop partial **30.3% full immunity**
100% of LTC partial **64.1% full immunity**



Immunity	Full	Partial
US	42.4%	42.7%
Fra		4%
S		1%
Germ		5%
		1%
Aust		%
Is		4%
Car		2%
Japan		%
Africa	0.4%	0.9%
India	1.8%	8.9%
Brazil	5.8%	13.2%

Global data differs from sources, timing
China NA

Global data did not update correctly today at the source.

At today's dosing pace, every American >18 immune in
109 days
by Aug 15, 2021

48.2% of population >18 immunized
13.6% previously tested positive
61.8% vs 60% adult herd immunity

State
Immunities distributed as % population**
Partial immunity as % population
Full immunity as % population

Best
Middle
Worst

AK											ME
56.0%											52.7%
41.3%											53.5%
34.3%											38.0%
						WI				VT	NH
						47.0%				56.2%	49.6%
						45.1%				53.8%	59.8%
						34.0%				36.3%	29.6%
WA	ID	MT	ND	MN	IL	MI		NY	MA		
48.9%	41.6%	48.5%	43.5%	45.9%	49.0%	49.1%		49.2%	53.9%		
45.3%	33.6%	40.2%	38.9%	46.1%	45.7%	41.9%		46.6%	54.7%		
31.1%	26.3%	31.0%	32.1%	33.1%	29.4%	30.8%		33.1%	35.1%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
47.8%	42.9%	44.0%	52.9%	46.1%	42.8%	46.5%	51.2%	49.2%	56.4%	54.2%	
43.3%	39.0%	33.6%	44.4%	43.5%	35.5%	39.9%	48.5%	50.8%	53.9%	51.8%	
29.5%	26.9%	26.9%	35.4%	32.5%	25.8%	31.2%	30.9%	34.9%	37.2%	35.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE		
50.9%	40.8%	48.0%	47.8%	44.4%	45.8%	48.4%	48.9%	50.1%	51.1%		
47.9%	38.8%	45.8%	42.9%	37.2%	40.6%	35.5%	46.2%	47.5%	45.9%		
29.4%	23.0%	31.1%	31.9%	26.6%	31.0%	29.3%	31.5%	32.9%	31.2%		
	AZ	NM	KS	AR	TN	NC	SC	DC			
	47.4%	51.6%	48.4%	46.1%	42.3%	47.7%	45.7%	60.8%			
	40.2%	50.4%	42.2%	35.1%	33.9%	38.7%	36.1%	46.9%			
	28.2%	36.0%	30.5%	24.6%	23.7%	27.9%	26.6%	28.7%			
			OK	LA	MS	AL	GA				
			49.4%	41.5%	42.7%	43.6%	45.3%				
			38.2%	32.1%	30.7%	32.0%	34.5%				
			29.1%	26.3%	23.2%	22.4%	23.3%				
HI			TX					FL		PR	
53.2%			45.8%					50.2%		51.3%	
51.5%			37.6%					41.1%		36.0%	
34.6%			25.9%					28.1%		23.3%	

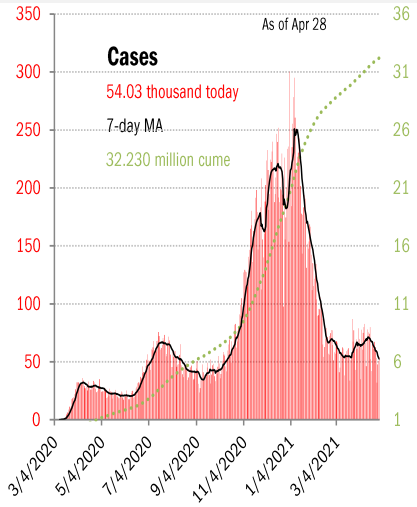
As of Apr 28

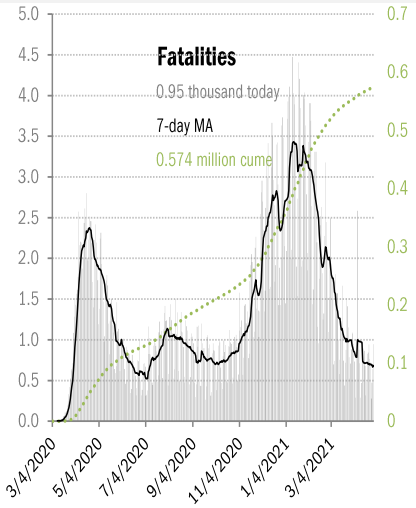
** One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

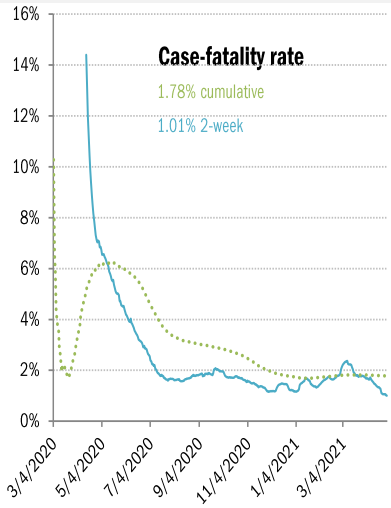
Source: CDC, CDC, Our World in Data, TrendMacro calculations

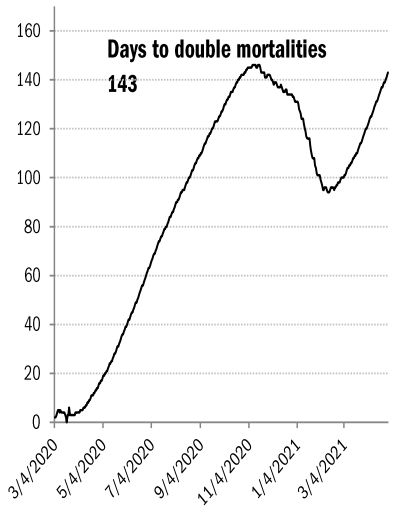
US deep-dive

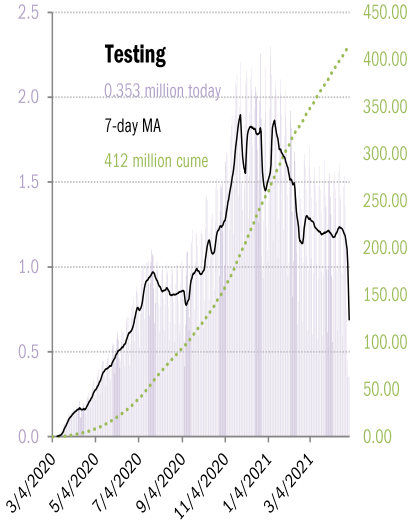
National and state-by-state data do not line up because of different sources

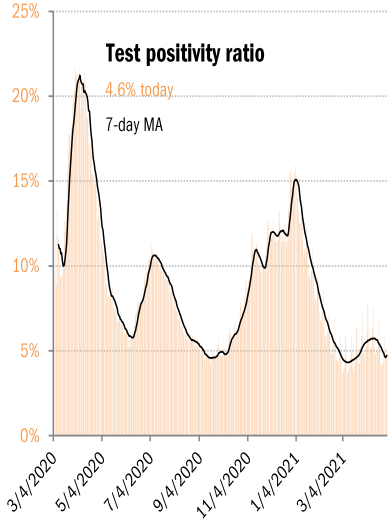


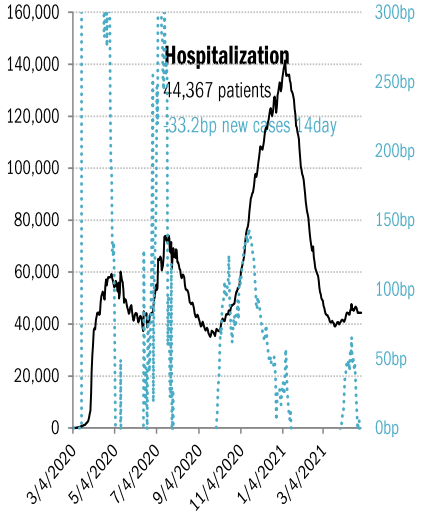


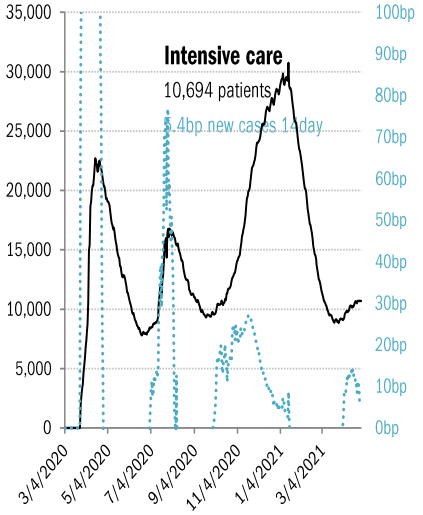


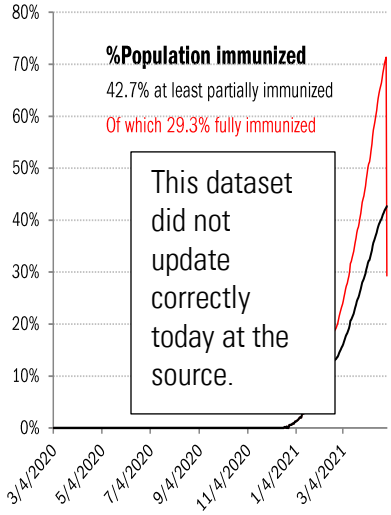






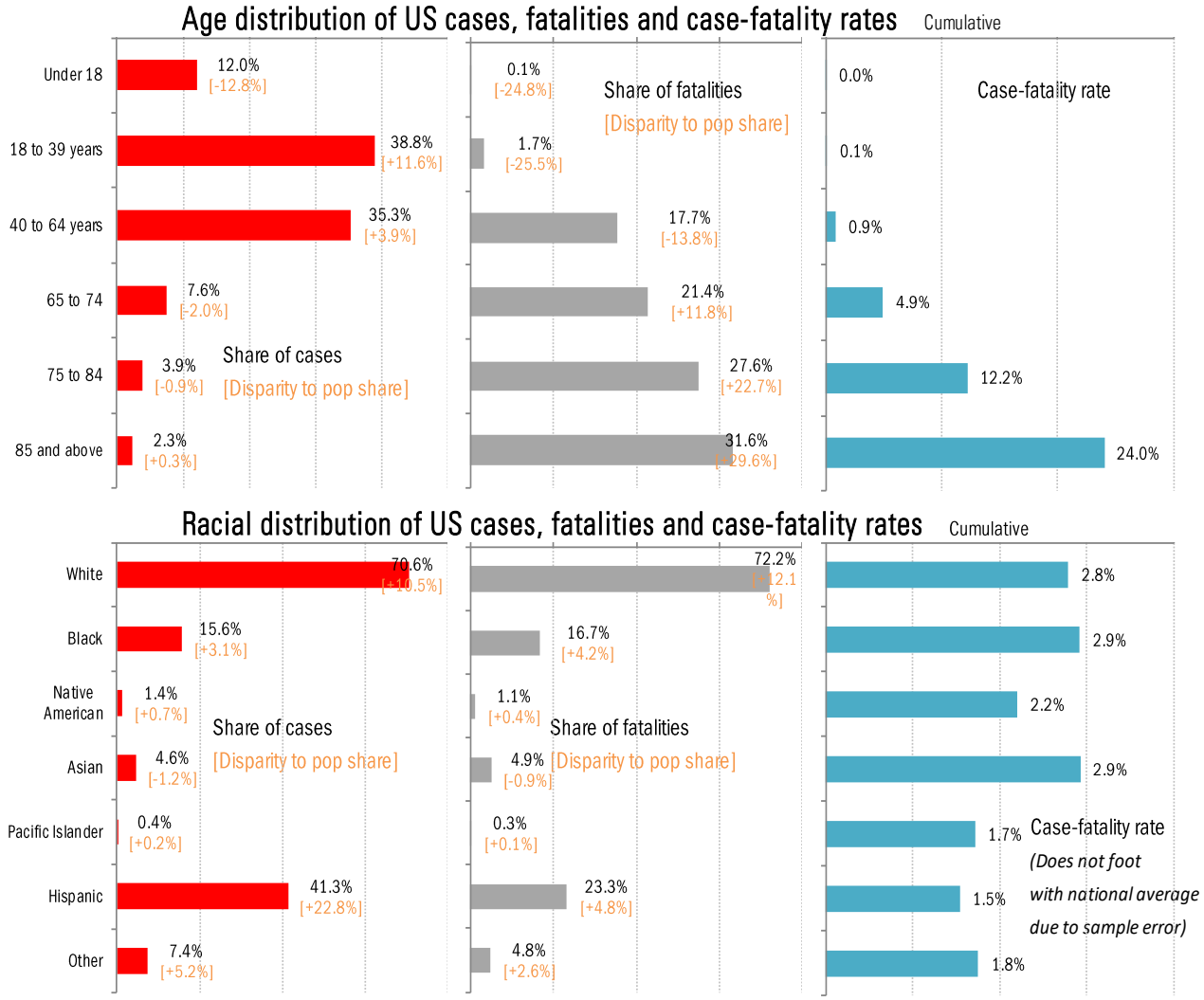




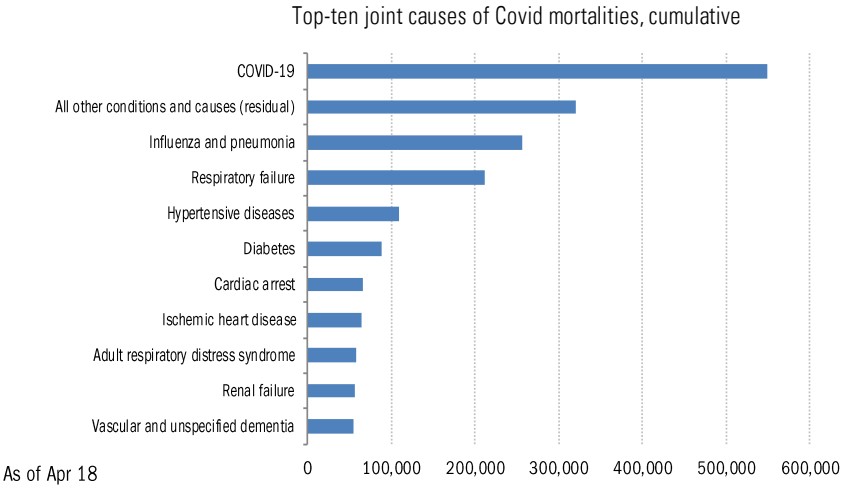


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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



Comorbidities



For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

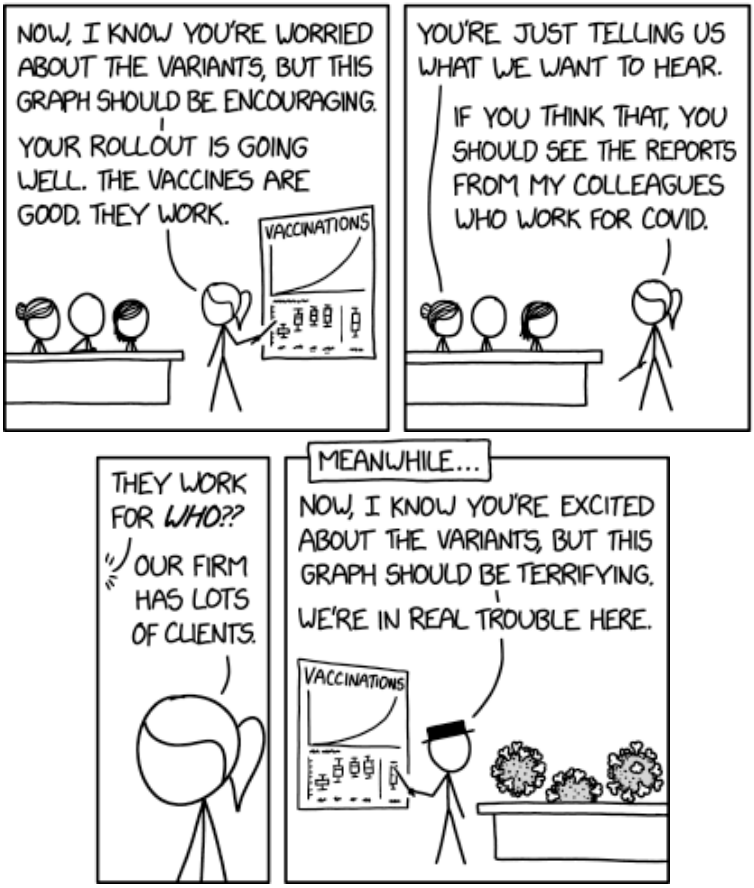
Worrying new clues about the origins of Covid: How scientists at Wuhan lab helped Chinese army in secret project to find animal viruses
Ian Birrell
Daily Mail
April 24, 2021

New York's Spring of Optimism: Finally, the Second Virus Wave Is Ebbing
Sharon Otterman and Joseph Goldstein
New York Times
April 28, 2021

Take Off Your Mask and Go Outside
Daniel Halperin and Monica Gandhi
Wall Street Journal
April 28, 2021

India Blames a Virus Variant as Its Covid-19 Crisis Deepens
Jeffrey Gettleman, Shalini Venugopal and Apoorva Mandavilli
New York Times

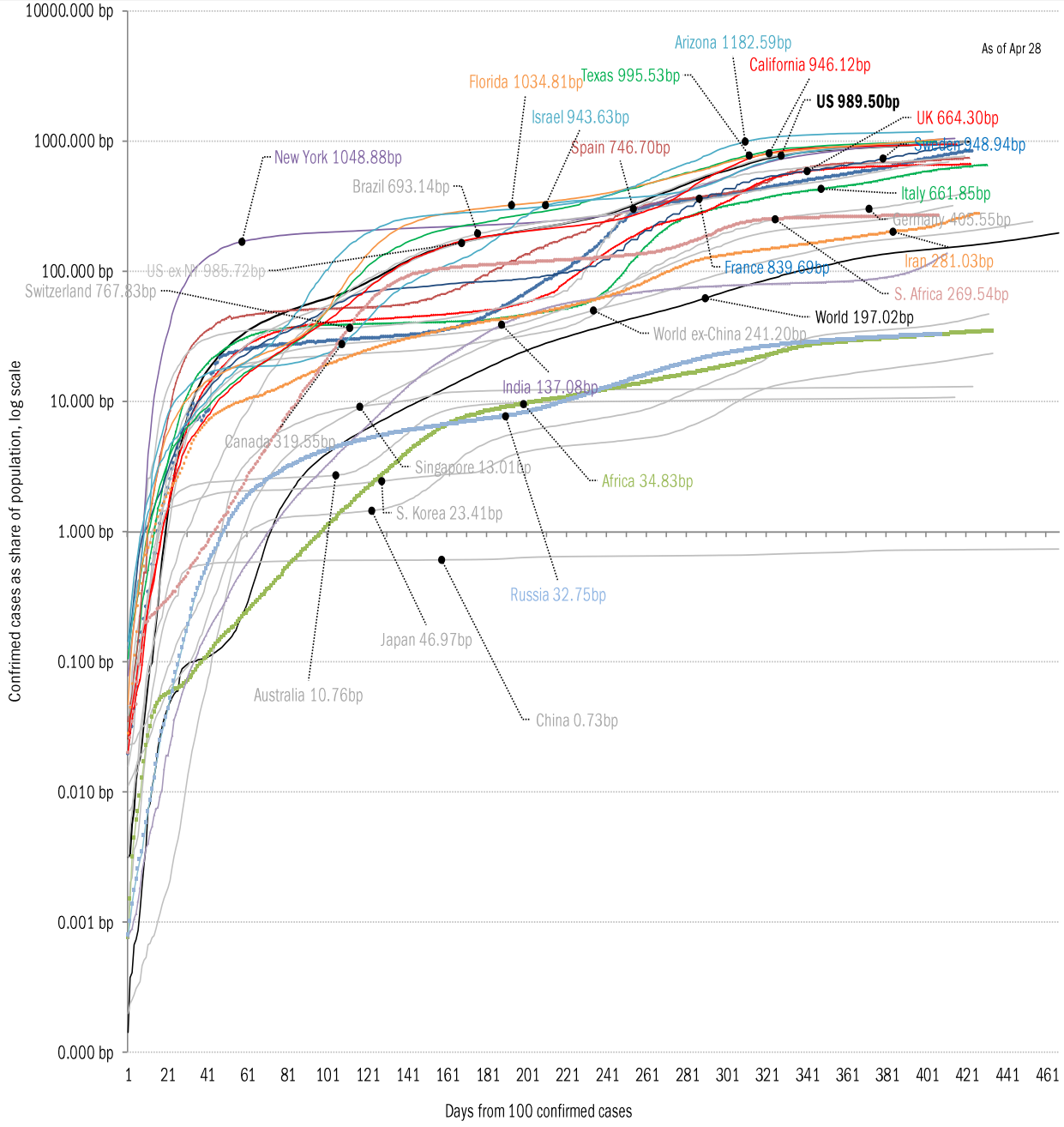
Meme of the day



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

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

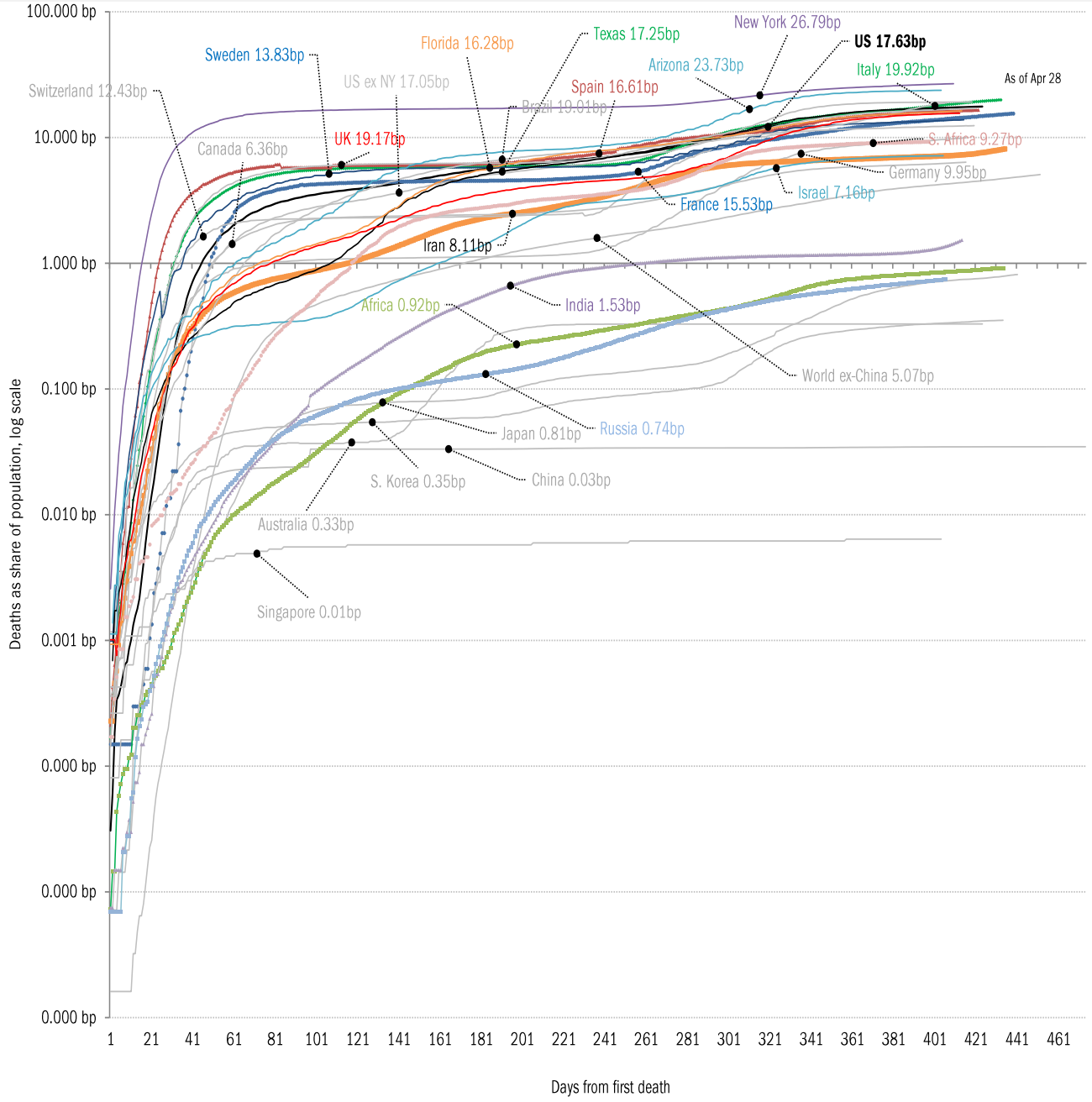
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

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

Share of deceased population from day of first fatality

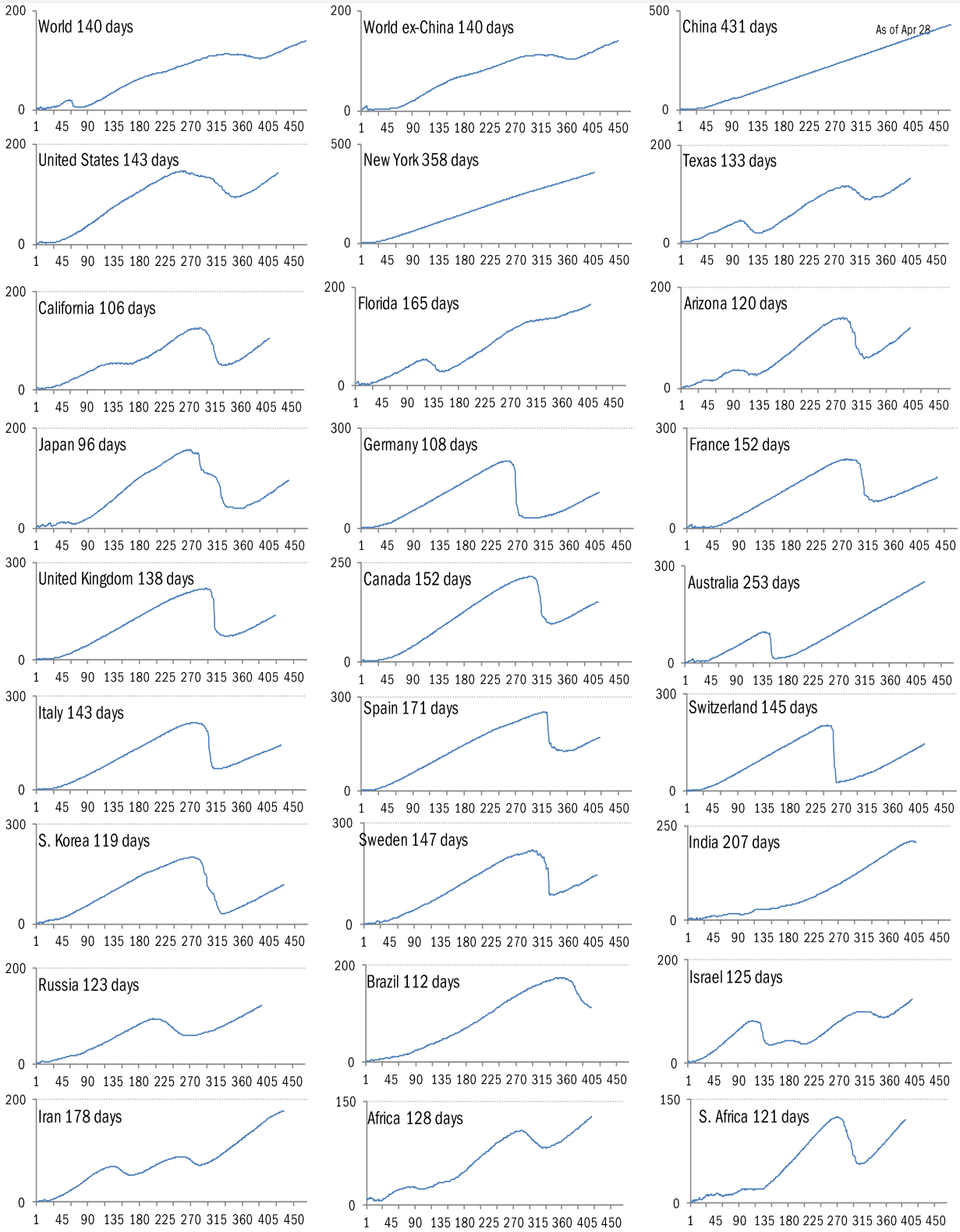


Source: Johns Hopkins, TrendMacro calculations

"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

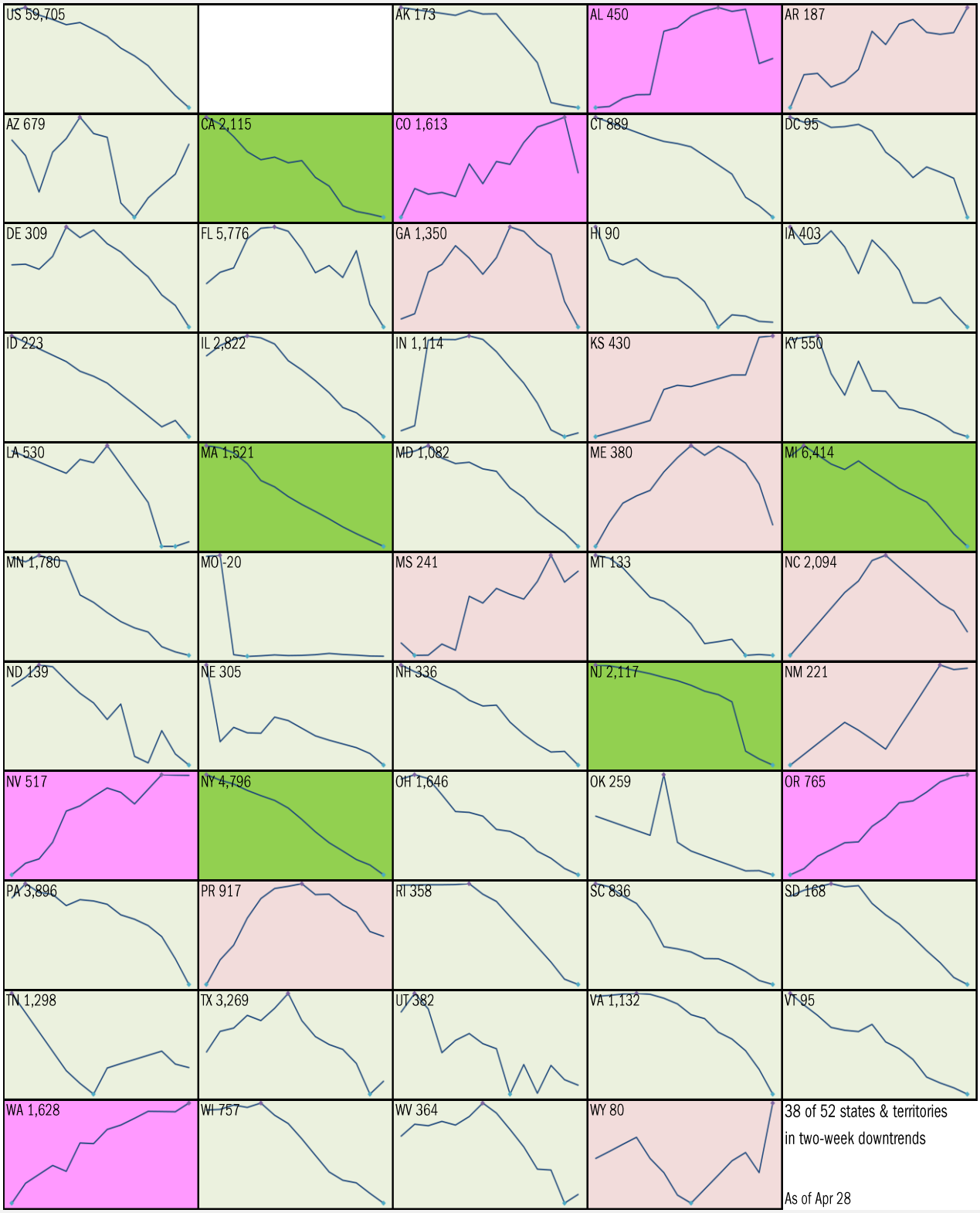


Source: Johns Hopkins, TrendMacro calculations

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

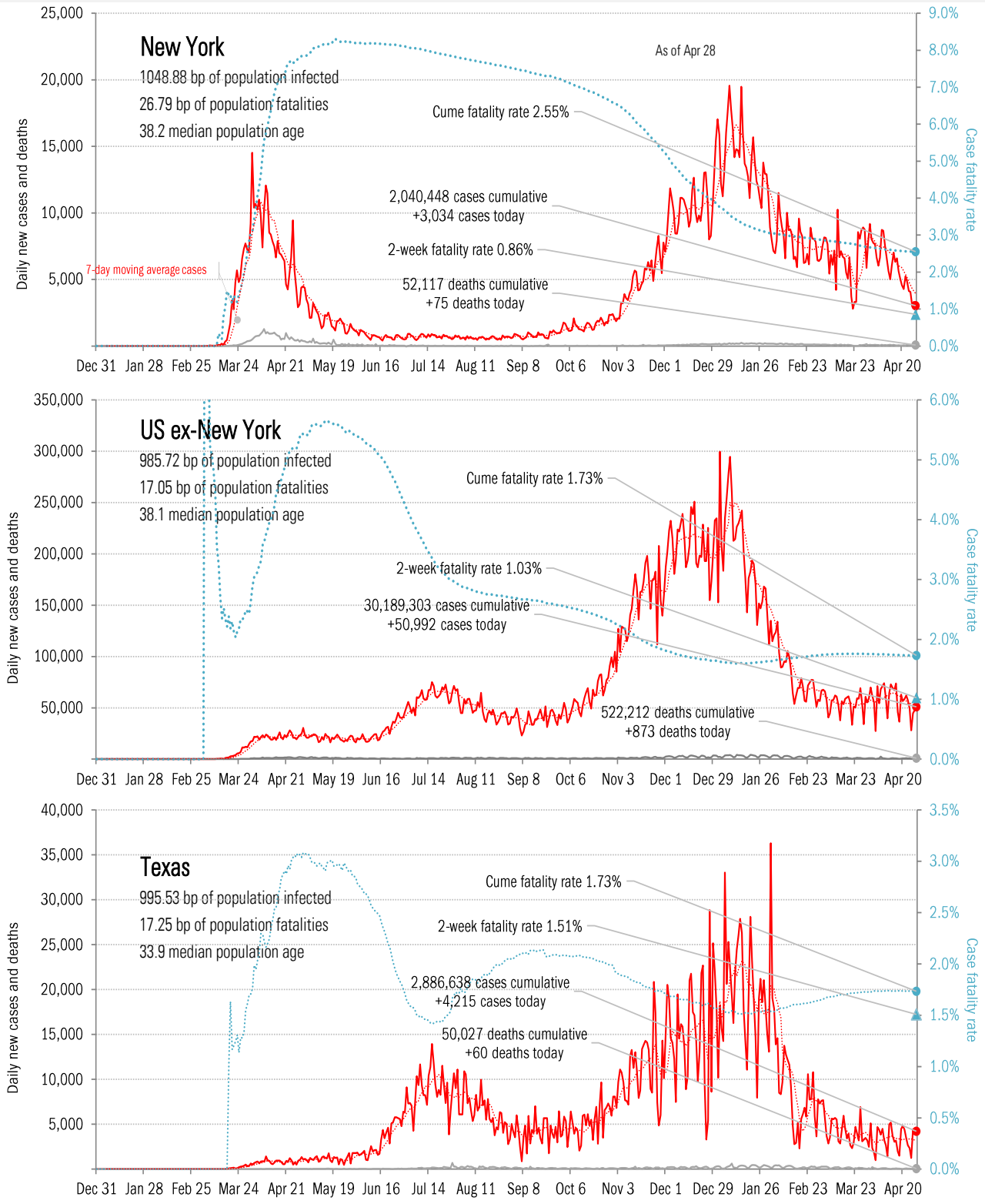
Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

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

Downward trajectory Five best Upward trajectory Five worst

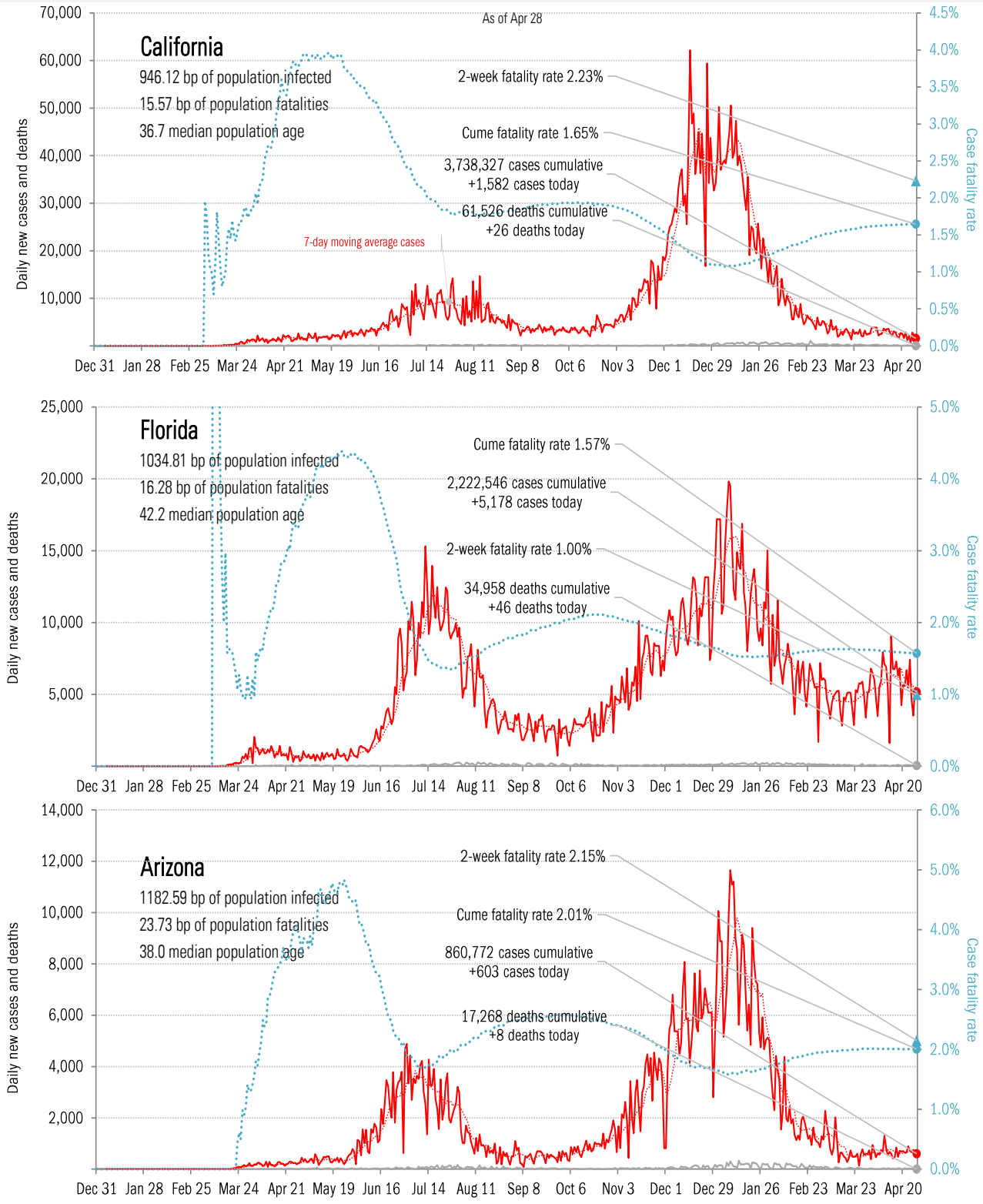
Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande



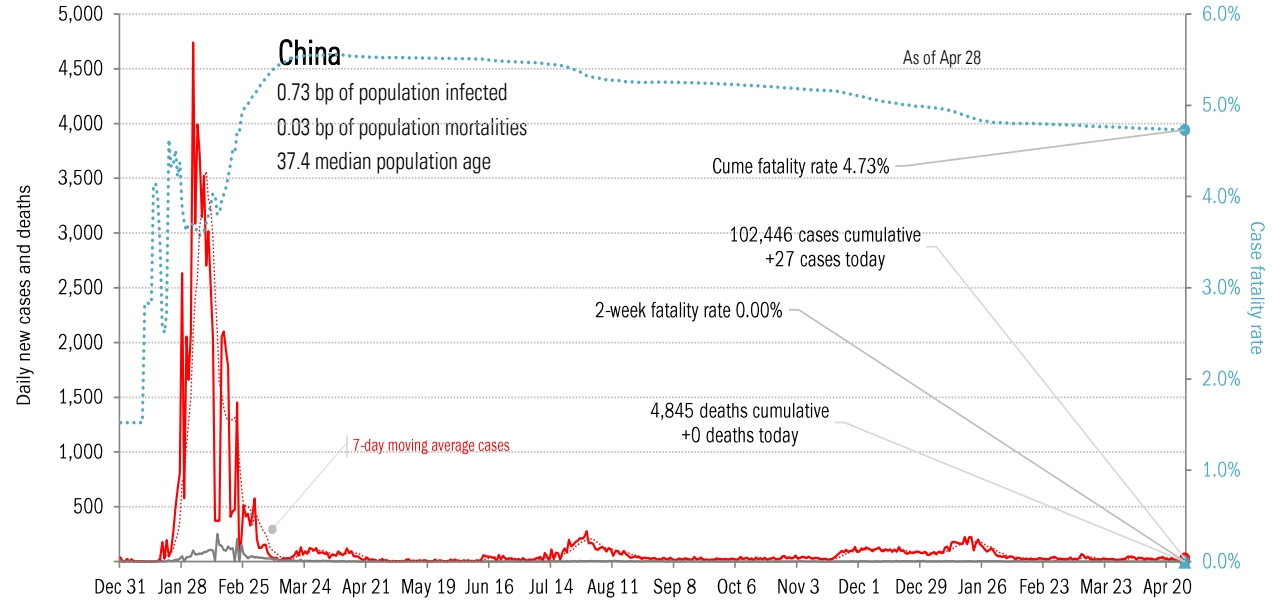
Source: Johns Hopkins, TrendMacro calculations

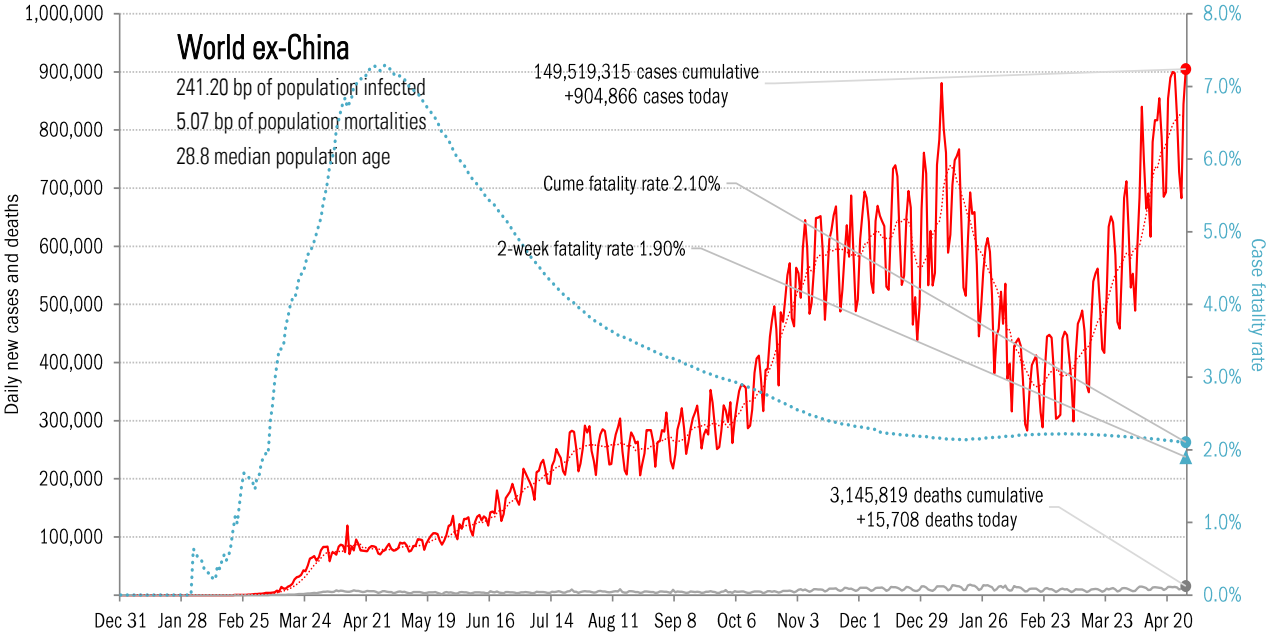
The sun-belt hot-spot states (other than Texas)



Source: Johns Hopkins, TrendMacro calculations

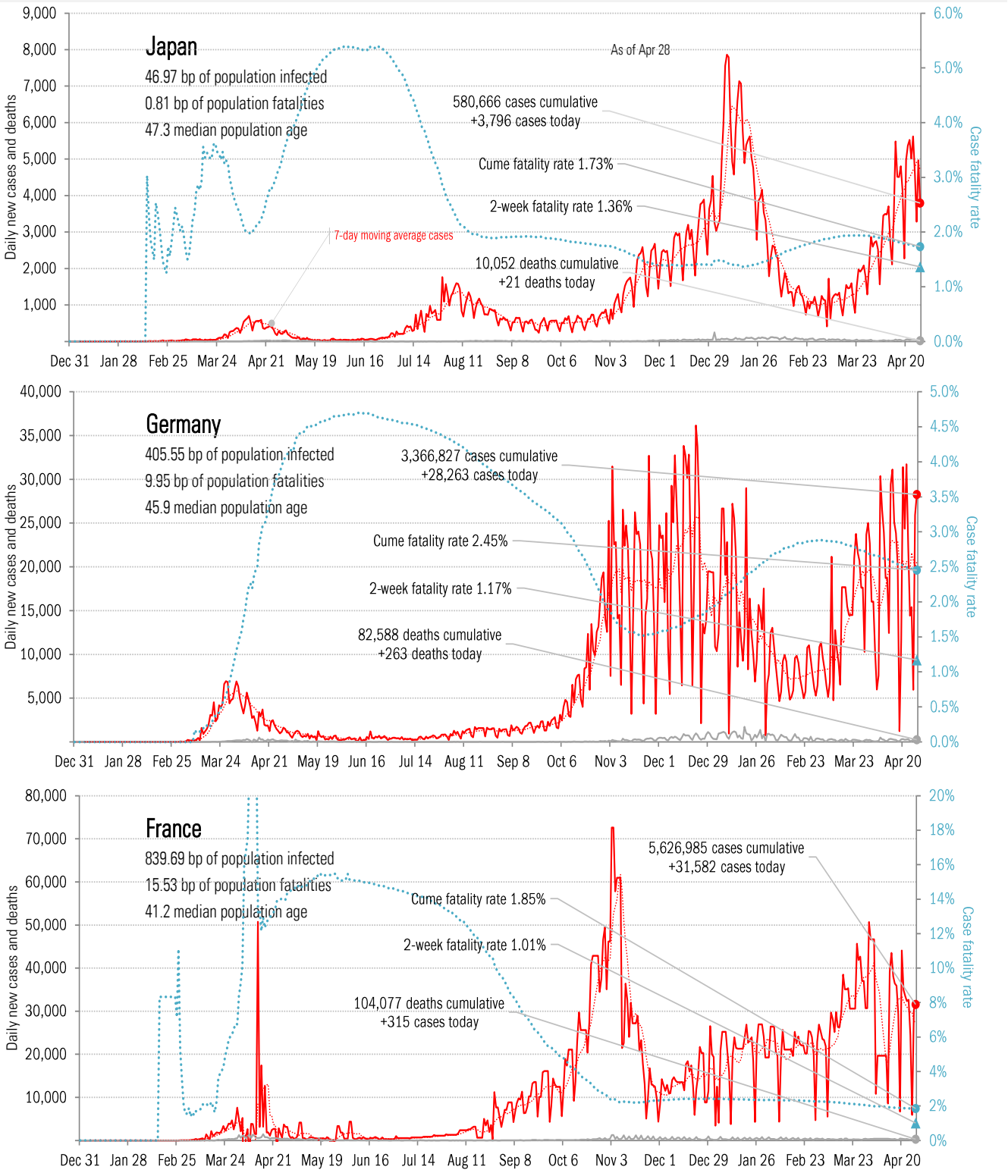
Patient zero… and then everyone else





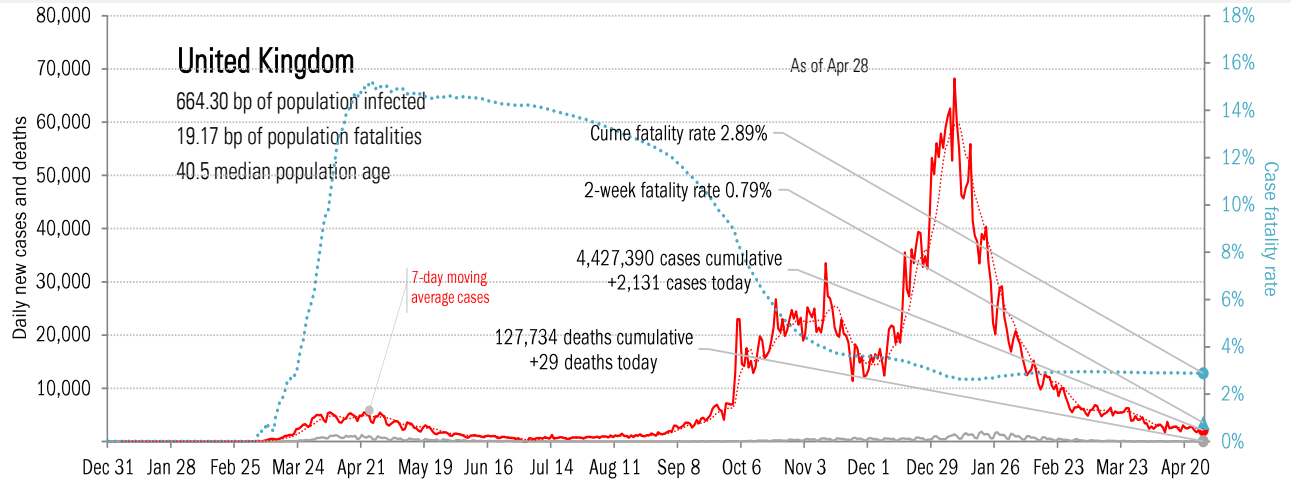
Source: Johns Hopkins, TrendMacro calculations

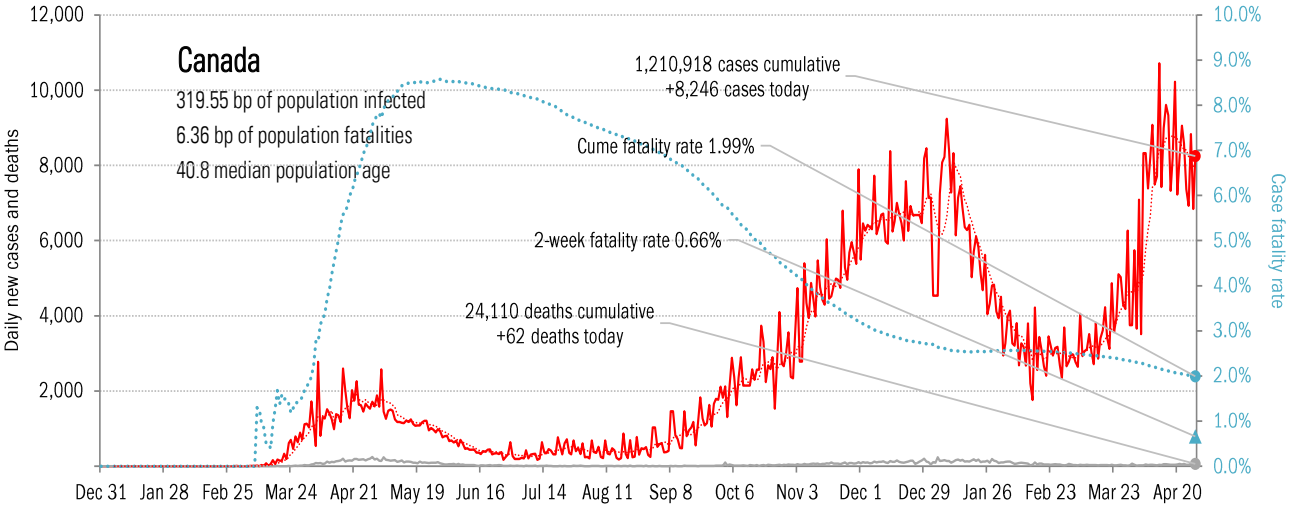
Impact in the largest economies

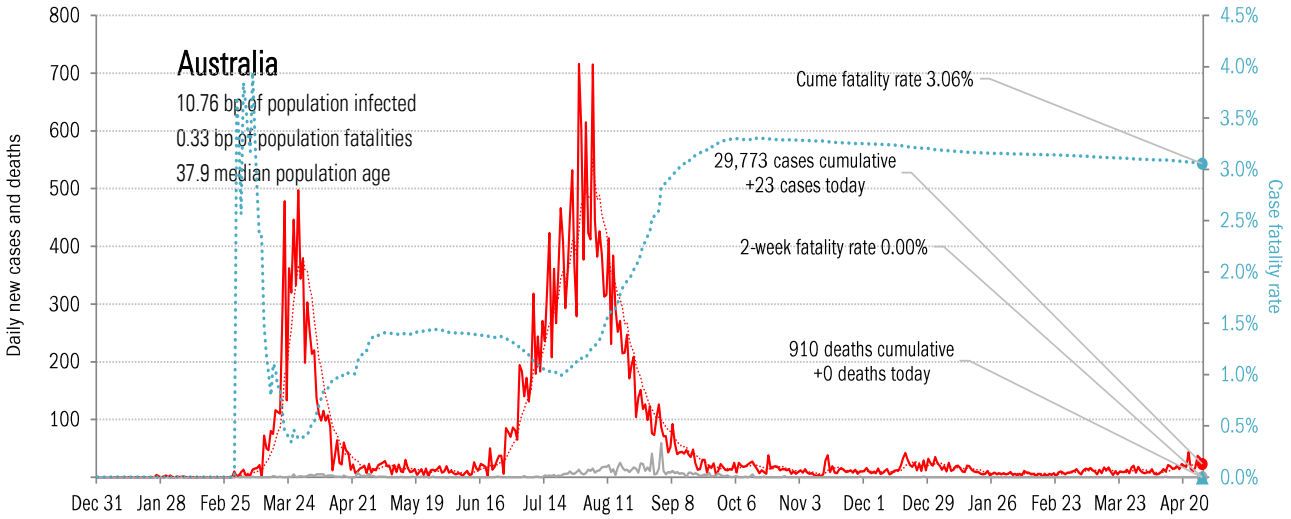


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

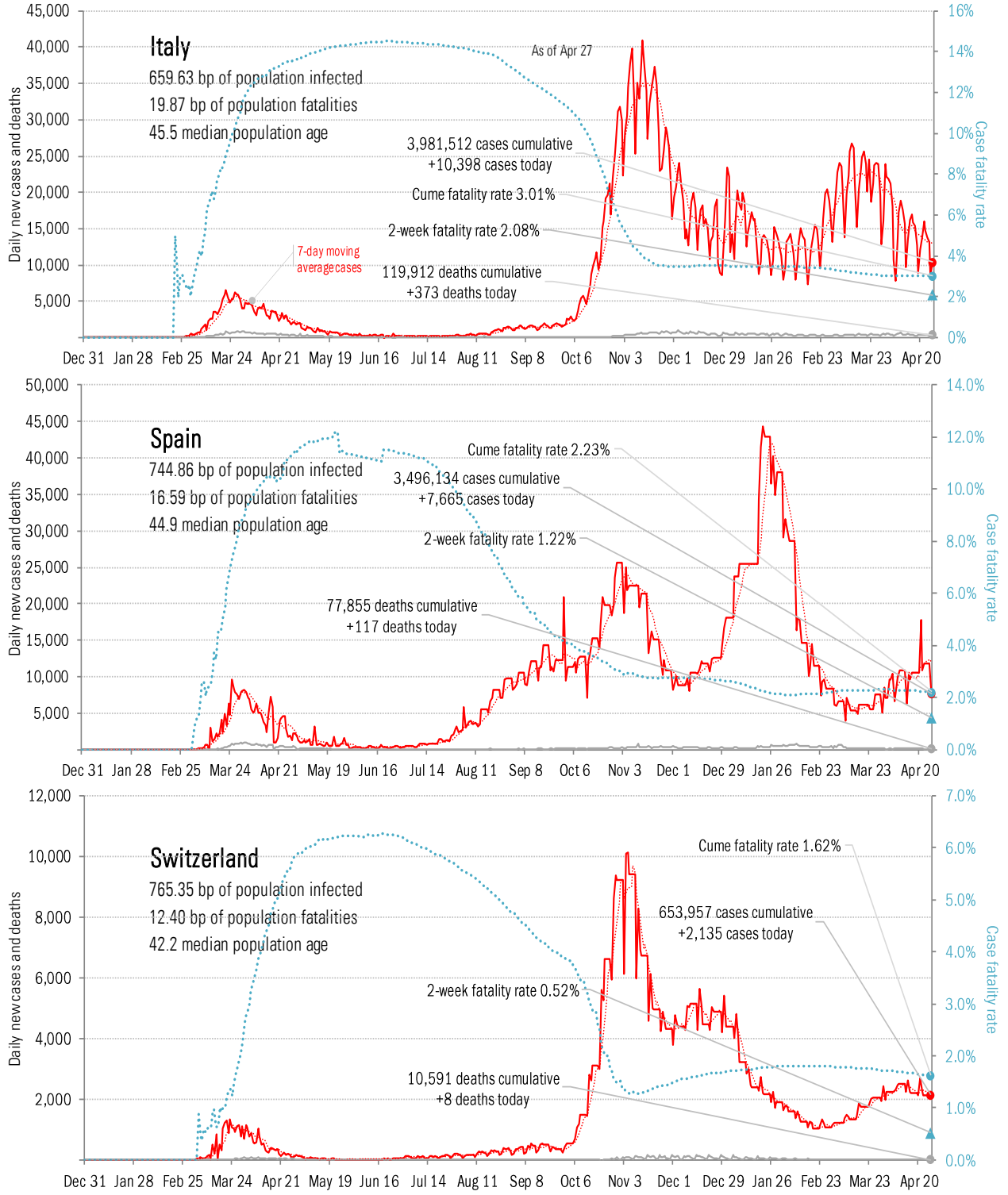






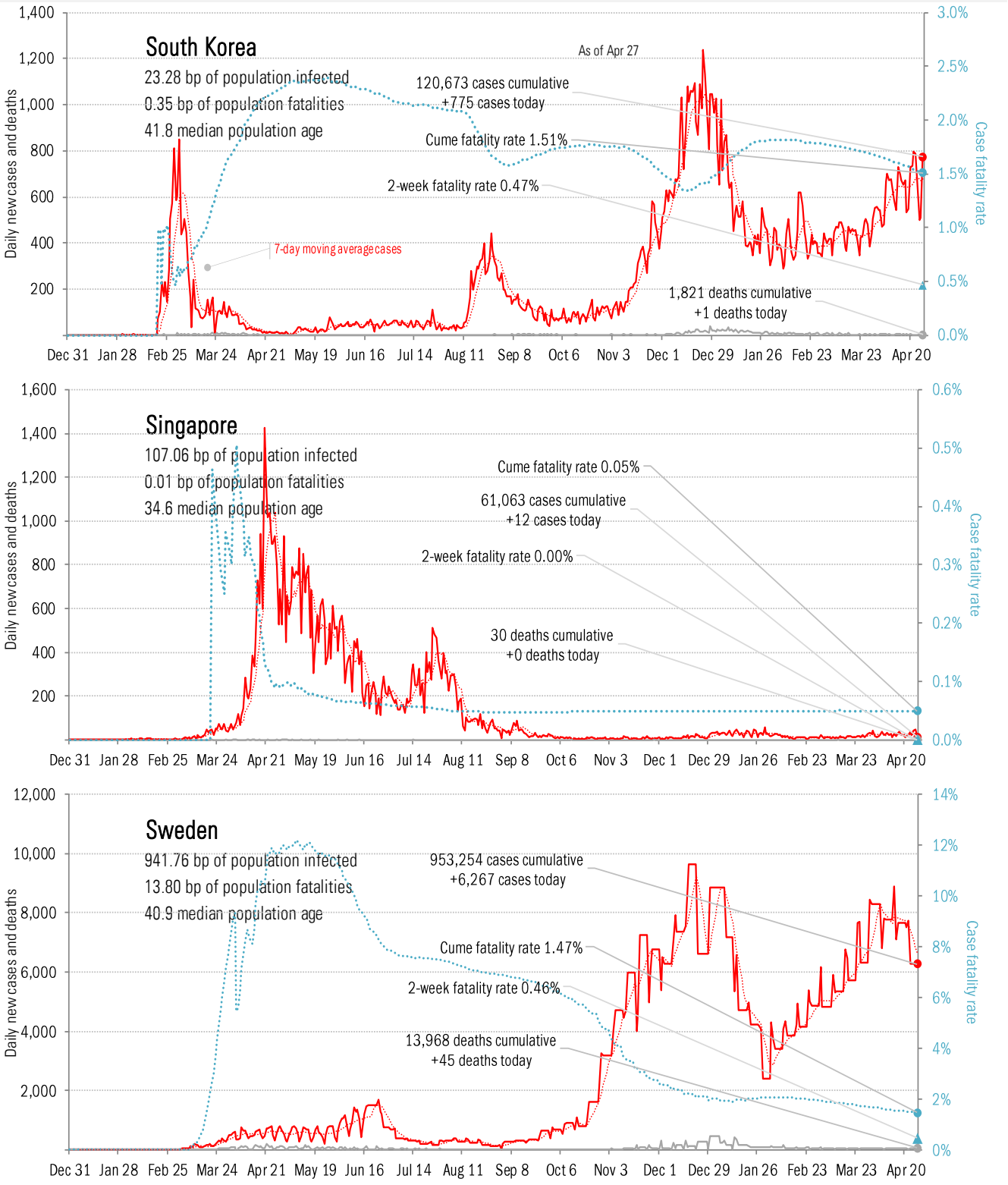
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



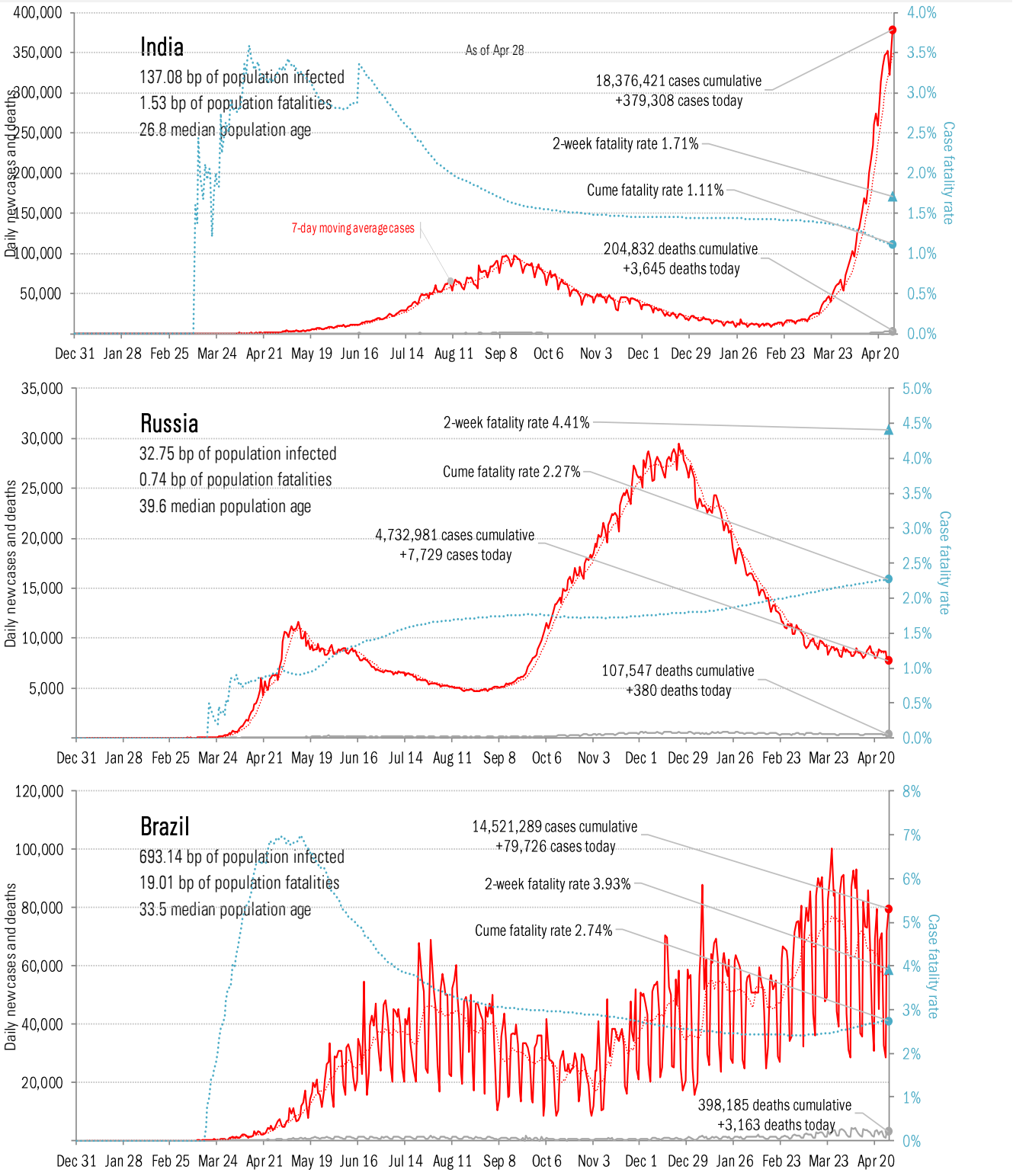
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



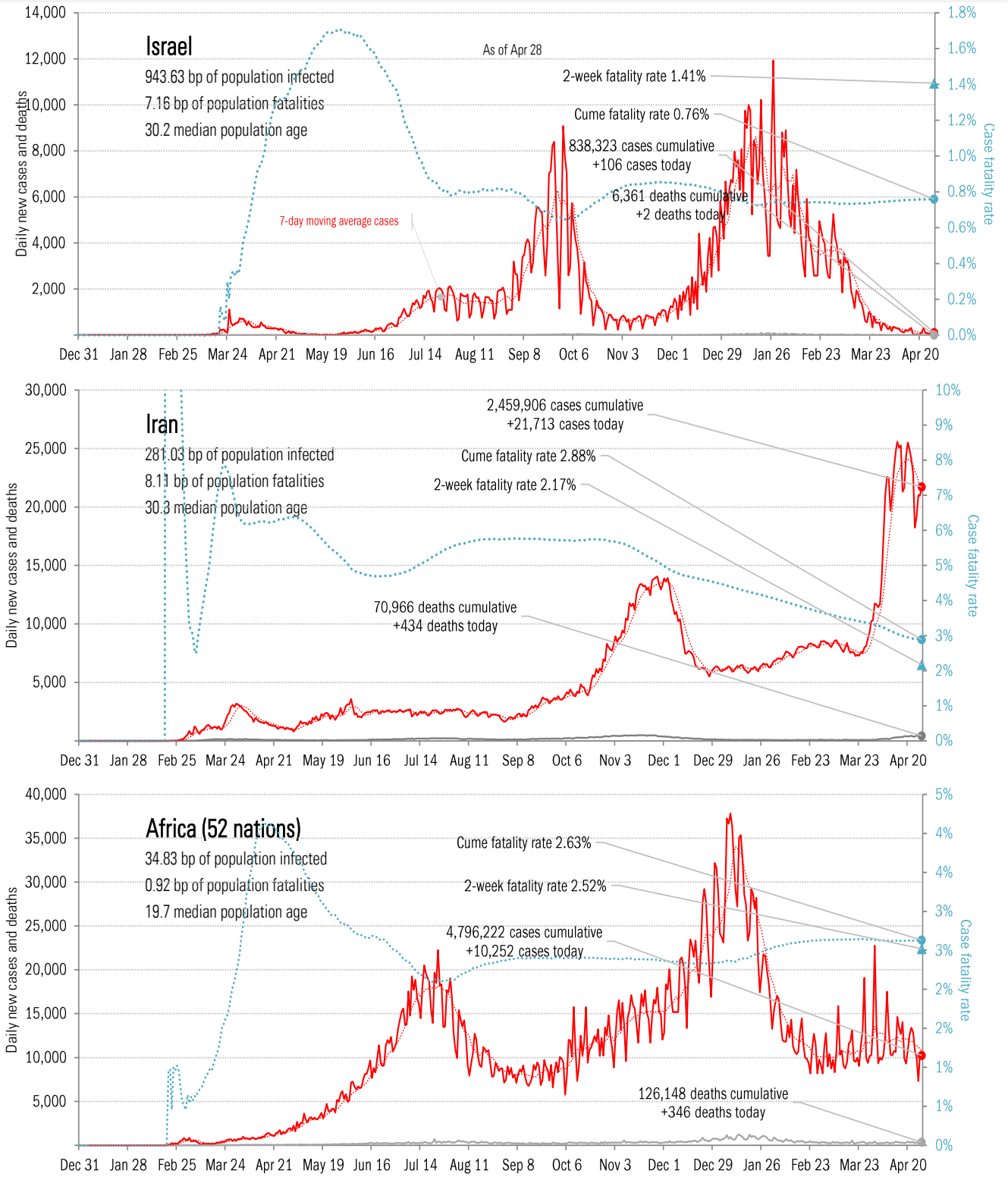
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



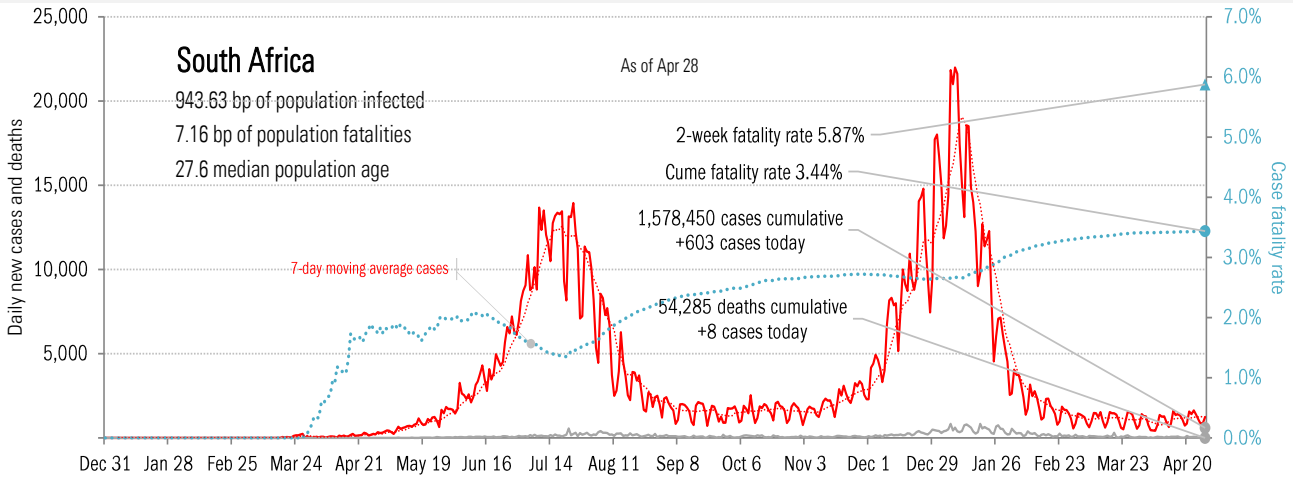
Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations