

Data Insights: Covid-2019 Monitor

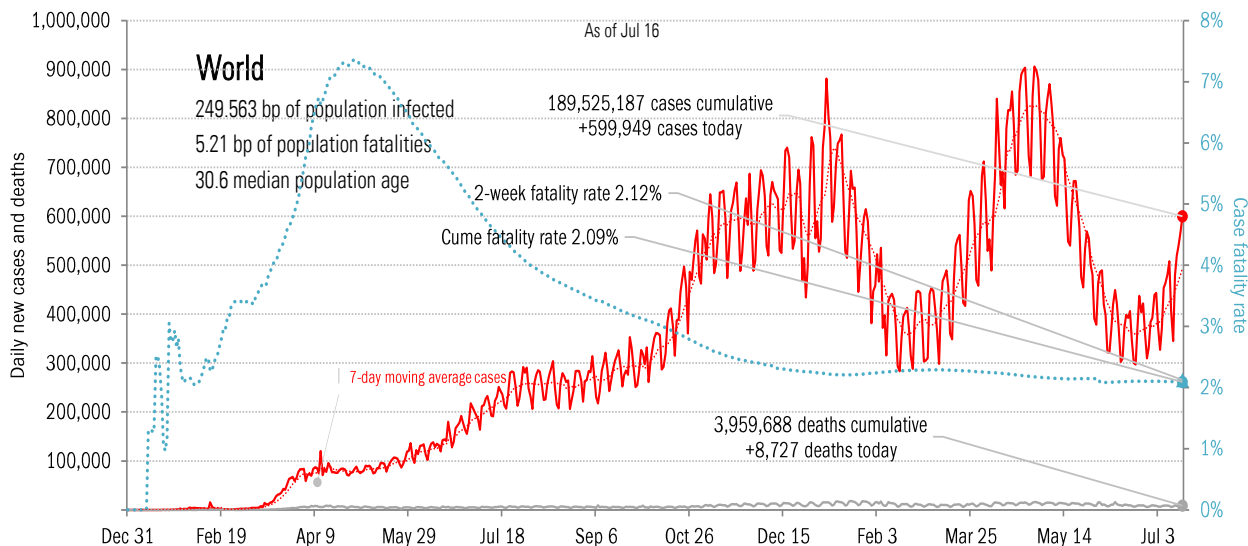
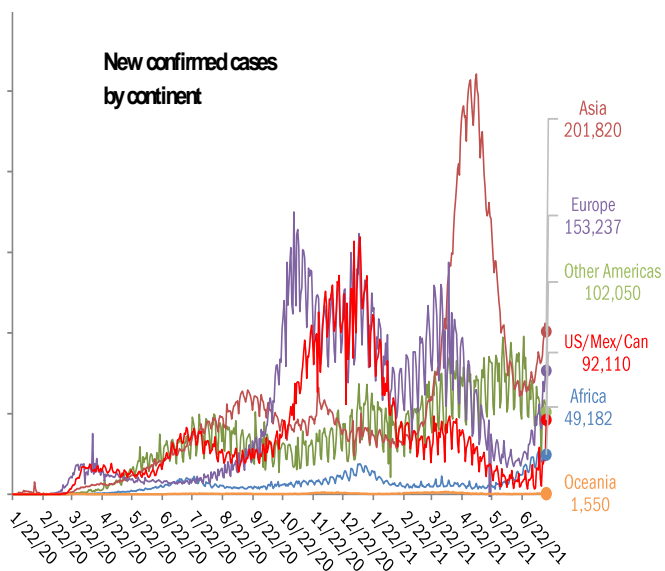
Saturday, July 17, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
Indonesia	+54,000	Brazil	+1,456
United Kingdom	+51,949	Indonesia	+1,205
Brazil	+45,591	Russia	+789
India	+38,079	India	+560
Spain	+31,060	Colombia	+500
United States	+28,412	Argentina	+463
Russia	+25,188	United States	+417
Iran	+21,885	South Africa	+413
Colombia	+17,893	Mexico	+275
Argentina	+17,261	Tunisia	+205
+331,318		+6,283	
World	+599,949	World	+8,727
Top ten	55%	Top ten	72%

New confirmed cases by continent



Source: [Johns Hopkins](#), TrendMacro calculations

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The US scorecard

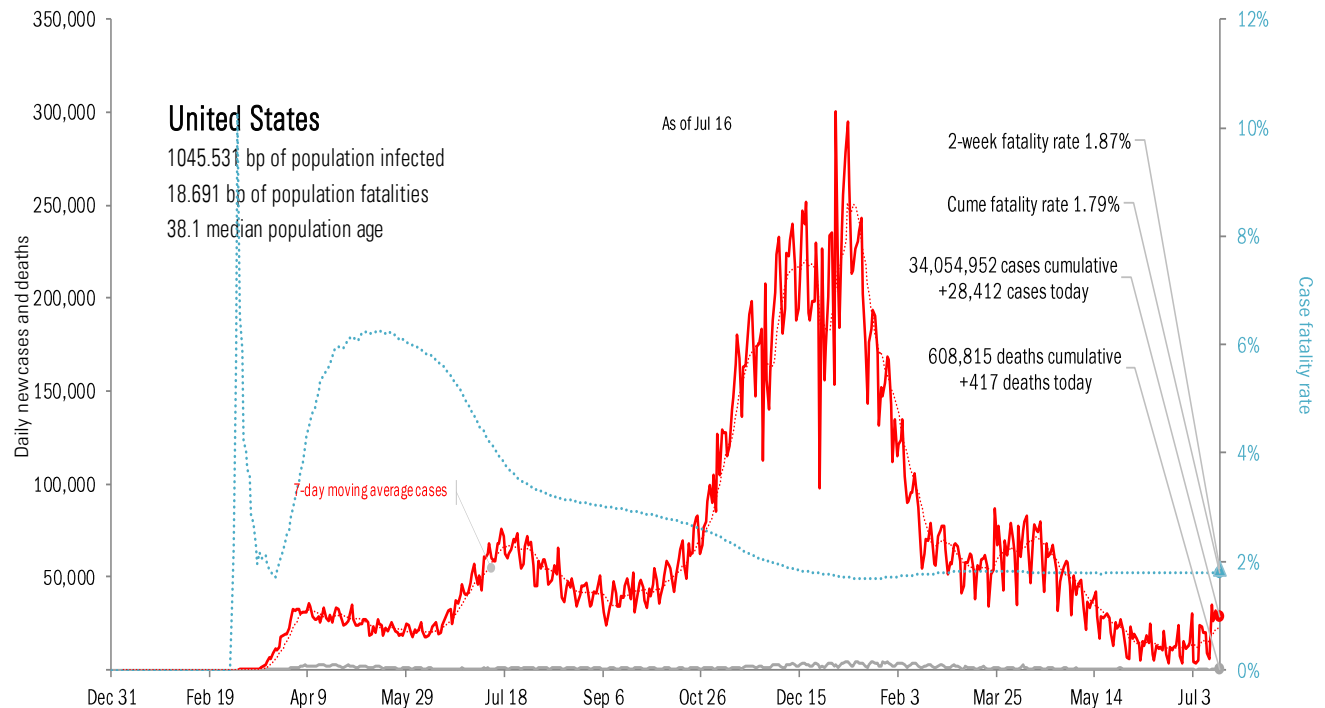
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
FL	+6,493		CA	+43		FL	+186		CA	3,855,167		CA	64,086		TX	257,212		RI	86%	MO	23%
CA	+5,627		TX	+29		TX	+69		TX	3,037,130		NY	53,760		CA	242,568		MA	85%	AR	17%
TX	+4,431		CH	+26		GA	+58		FL	2,419,142		TX	52,792		FL	191,728		MD	83%	UT	16%
MO	+2,334		AZ	+17		CA	+51		NY	2,124,168		FL	38,197		NY	137,112		MO	83%	NV	15%
LA	+1,605		MI	+17		AR	+37		IL	1,399,946		PA	27,786		GA	110,516		PA	82%	TX	10%
AR	+1,342		FL	+14		MS	+26		PA	1,220,060		NJ	26,531		PA	92,146		DC	80%	WY	10%
AZ	+1,251		GA	+12		IL	+25		GA	1,145,976		IL	25,790		CH	88,387		GA	80%	FL	10%
GA	+1,086		AR	+11		LA	+23		CH	1,116,322		GA	21,558		IL	83,152		MN	79%	OK	9%
KS	+1,065		WI	+11		NV	+19		NJ	1,027,954		MI	21,109		KY	78,941		NV	79%	ID	9%
NC	+1,023		IL	+7		CH	+17		NC	1,022,876		CH	20,437		MI	73,531		FL	78%	MS	9%
+26,257			+187			+511			18,368,741			352,046			1,355,293						
All states	+40,354		+200			+650			All states	34,054,952		608,815			2,415,106			All states	70%	67%	
Top ten	65%		93%			79%			Top ten	54%		58%			56%			Median	73%	5%	

Some states not reporting

Five most improved US states

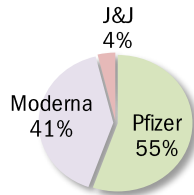
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-1,262	TN	-98	NY	-24	DE	+20 bp
TN	-561	FL	-13	MO	-23	NE	+20 bp
MO	-480	ME	-9	AZ	-17	FR	+20 bp
GA	-276	NV	-9	CR	-13	UT	+20 bp
NY	-234	AL	-8	WY	-12	VA	+20 bp



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Total				Today	Immunity	Full	Partial
Doses distributed	401,260,975				+0.617 million	US	48.1%	55.4%
Doses administered	346,471,997				+0.572 million	UK	52.4%	68.0%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	40.1%	54.4%
Total population	190,174,672	57%	164,936,146	49%	+0.289 million	Spain	50.0%	62.1%
Age 12 to 17	9,647,660	38%	7,559,546	30%	+0.057 million	Germany	45.6%	59.2%
Age 18 to 64	130,025,078	64%	112,328,226	55%	+0.199 million	Italy	42.2%	60.1%
Age 65 and over	50,277,519	92%	44,919,357	82%	+0.032 million	Australia	10.5%	28.0%
						Israel	60.4%	66.3%
						Canada	48.5%	70.1%
						Japan	20.4%	32.4%
						Africa	1.4%	3.0%
						India	5.9%	23.1%
						Brazil	15.8%	43.4%



AK
61.7%
50.7%
44.8%

State
Immunities distributed as % population**
At least partial immunity as % population
Full immunity as % population



At today's dosing pace, every American >18 immune in **236 days** by Mar 9, 2022

60.9% of population >18 immunized
11.6% previously tested positive
72.5% vs 60% adult herd immunity*

Global data differs from sources, timing

China NA	ME
	73.8%
	67.4%
	62.7%
VT	NH
79.2%	73.1%
74.7%	63.7%
66.7%	57.6%

WA 66.0% 62.7% 56.4%	ID 50.9% 40.3% 36.8%	MT 55.8% 48.5% 43.7%	ND 50.1% 44.6% 39.5%	MN 61.7% 57.8% 53.0%	IL 62.2% 60.8% 47.5%	MI 62.2% 52.2% 48.1%	NY 66.0% 61.5% 55.8%	MA 74.7% 71.5% 63.0%		
OR 71.3% 59.7% 55.0%	NV 54.4% 51.5% 43.2%	WY 48.0% 40.6% 36.0%	SD 58.4% 51.4% 46.2%	IA 58.7% 52.2% 48.9%	IN 53.8% 46.0% 43.4%	OH 56.6% 48.9% 45.7%	PA 66.4% 64.1% 51.1%	NJ 69.7% 64.3% 56.8%	CT 70.8% 68.3% 62.1%	RI 75.3% 65.8% 60.3%
CA 66.4% 63.0% 51.5%	UT 54.0% 50.7% 43.8%	CO 64.8% 59.1% 53.3%	NE 57.6% 52.6% 48.7%	MO 53.5% 46.4% 40.0%	KY 54.0% 50.5% 44.7%	WV 56.8% 45.7% 38.8%	VA 65.0% 60.3% 53.4%	MD 75.0% 63.2% 57.6%	DE 70.4% 59.4% 51.6%	
	AZ 60.0% 51.6% 44.3%	NM 60.6% 64.1% 56.0%	KS 56.9% 50.2% 42.9%	AR 50.9% 43.5% 35.2%	TN 50.1% 43.2% 38.3%	NC 59.7% 49.7% 42.9%	SC 55.4% 45.3% 39.7%	DC 80.1% 62.6% 53.8%		
			OK 54.2% 46.0% 39.4%	LA 47.1% 39.6% 36.1%	MS 48.3% 37.5% 33.6%	AL 52.9% 41.1% 33.6%	GA 56.4% 44.4% 37.5%			
HI 72.1% 70.6% 52.9%			TX 59.1% 49.5% 42.6%				FL 62.9% 55.2% 47.3%		PR 69.3% 67.3% 58.3%	

As of Jul 17

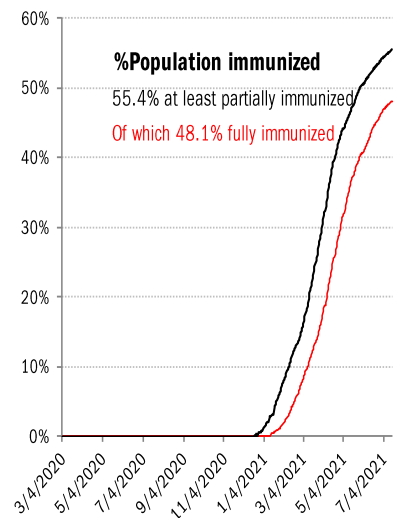
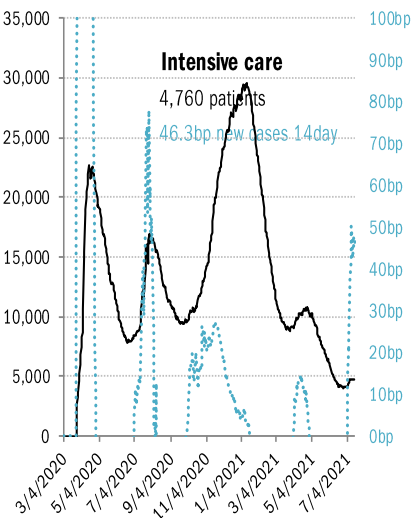
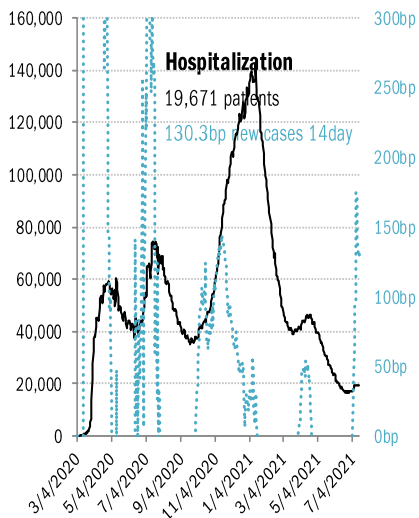
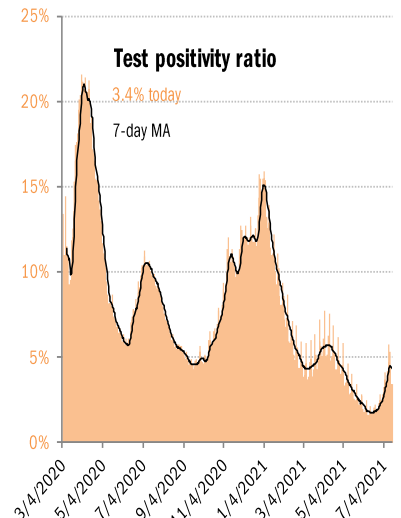
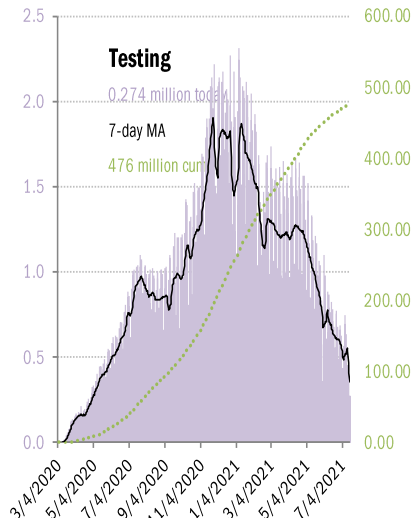
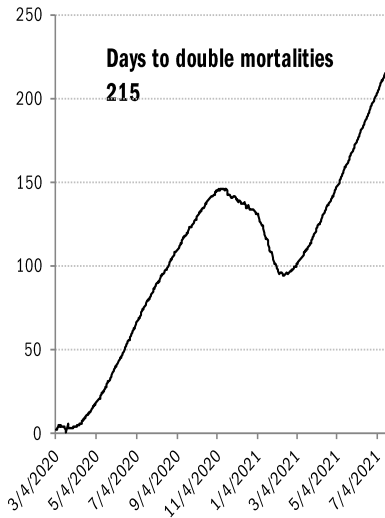
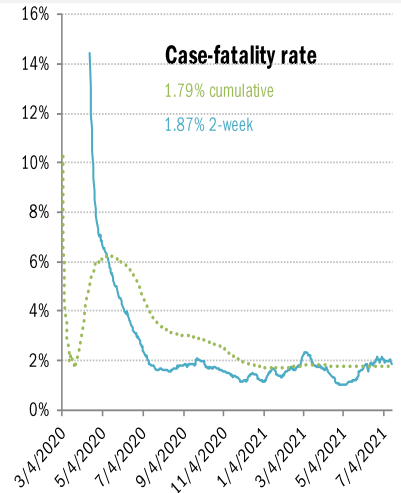
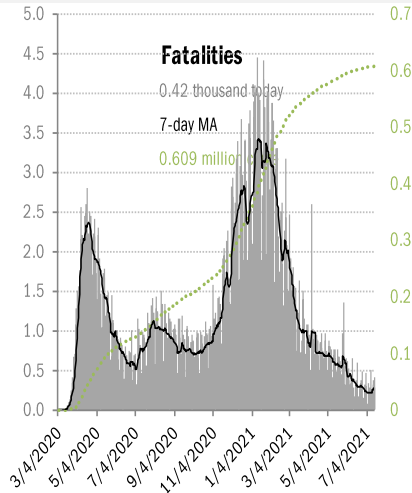
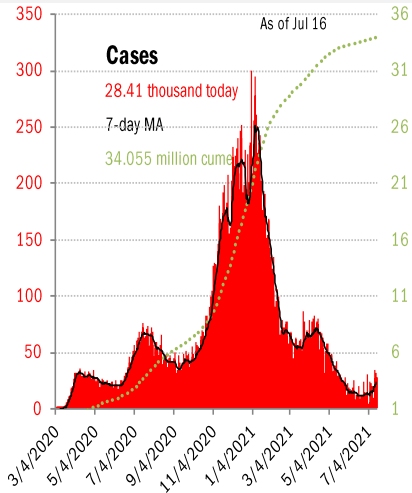
* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

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

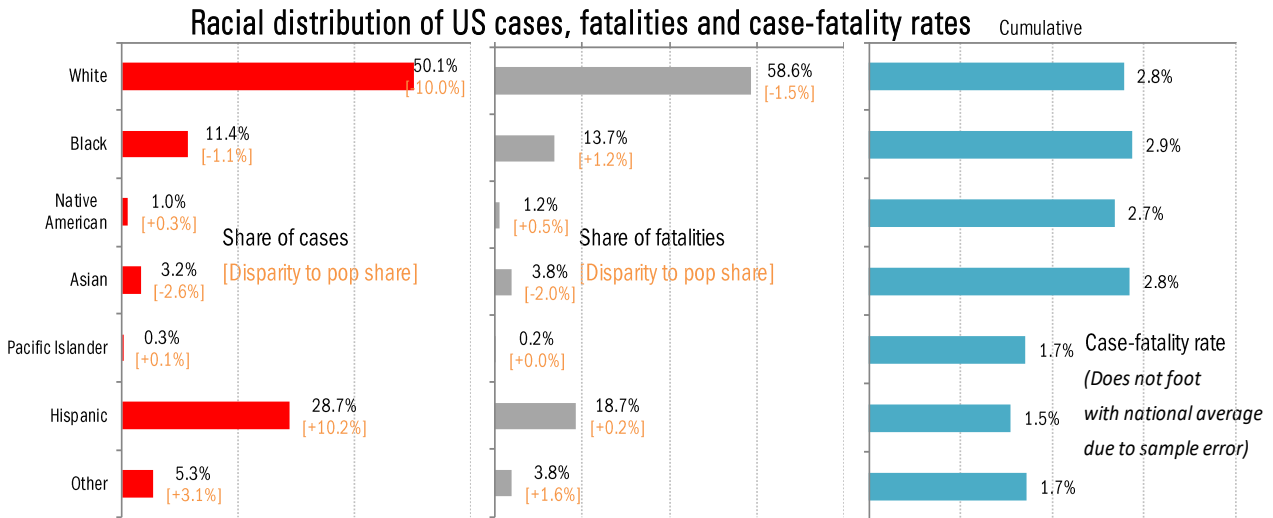
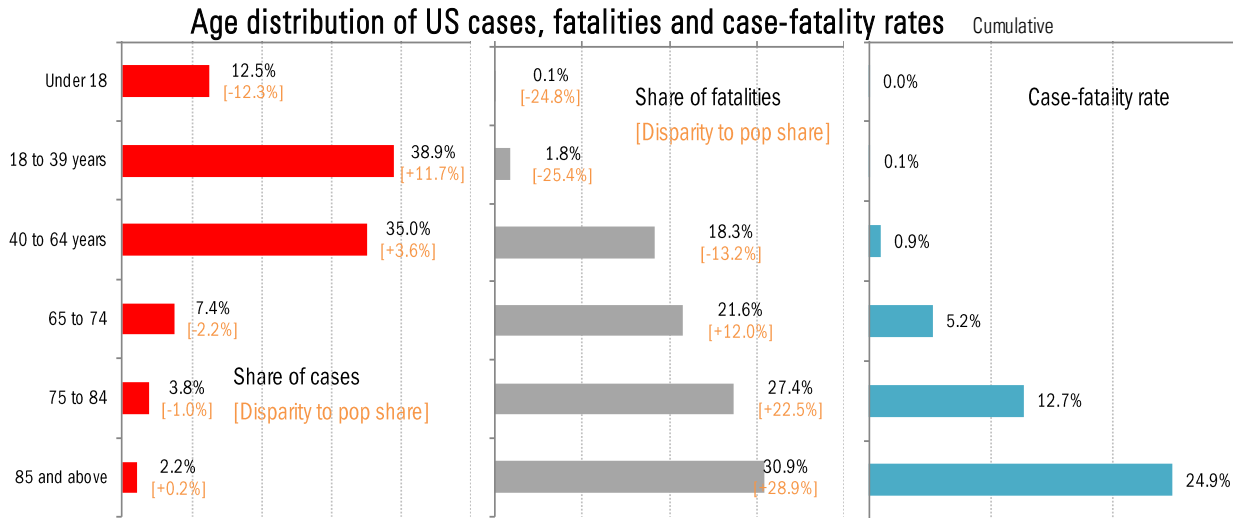
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

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

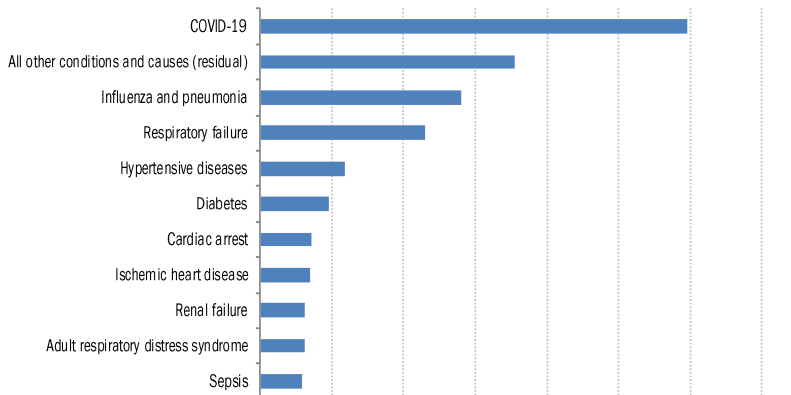


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 4

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.

Recommended reading

[WHO clarifies details of early covid patients in Wuhan after errors in virus report](#)

Eva Dou and Emily Rauhala
Washington Post
July 15, 2021

[Lifting England's Covid rules while cases surge is 'threat to the world'](#)

George Parker and Clive Cookson
Financial Times
July 16, 2021

[Sajid Javid self-isolating after testing positive for Covid](#)

Jim Pickard
Financial Times
July 17, 2021

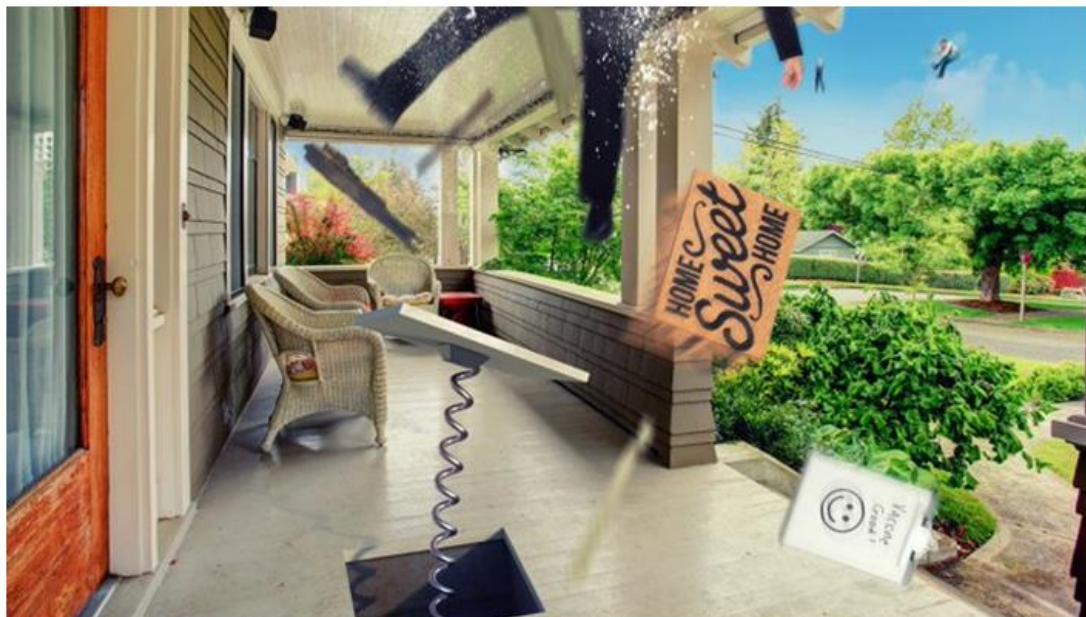
[Covid-19 vaccines for children: hypothetical benefits to adults do not outweigh risks to children](#)

Elia Abi-Jaoude et al.
British Medical Journal
July 13, 2021

[Covid: Spain's top court rules lockdown unconstitutional](#)

BBC
July 15, 2021

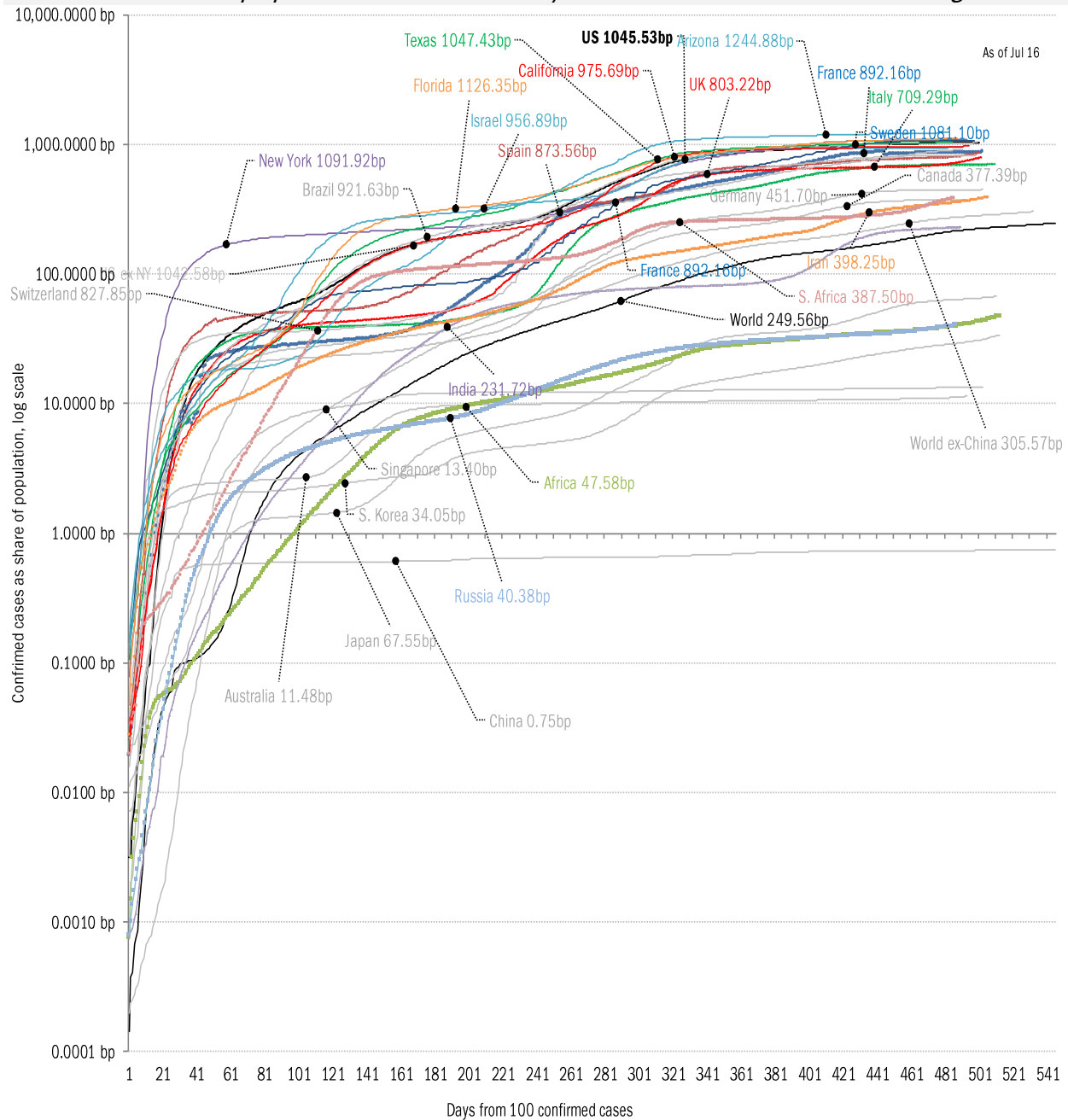
Meme of the day



Popular New Ejection Porch Automatically
Launches Vaccine Evangelists Into The
Stratosphere

Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

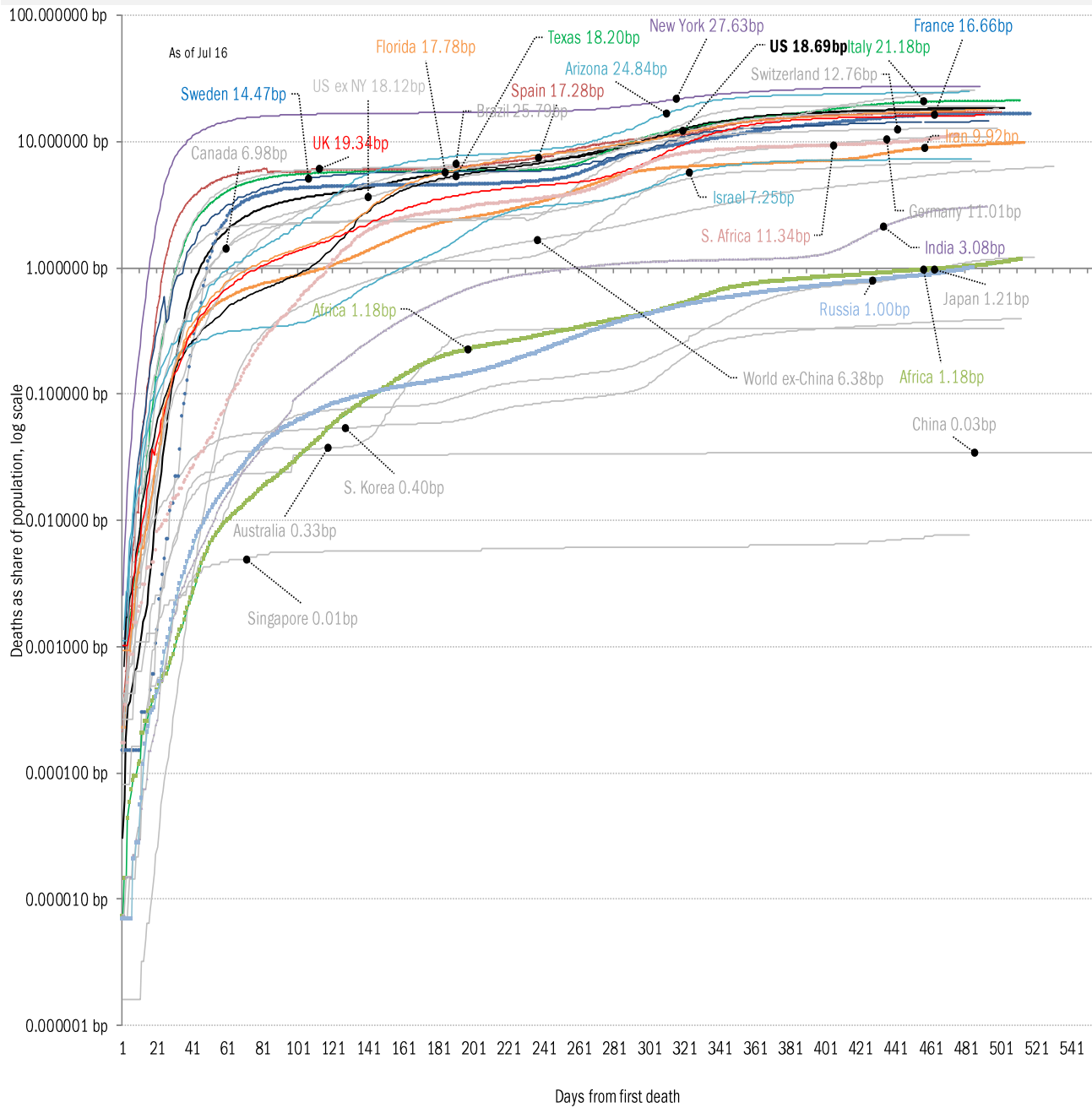
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [Johns Hopkins](#), TrendMacro calculations

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

Share of deceased population from day of first fatality, log scale

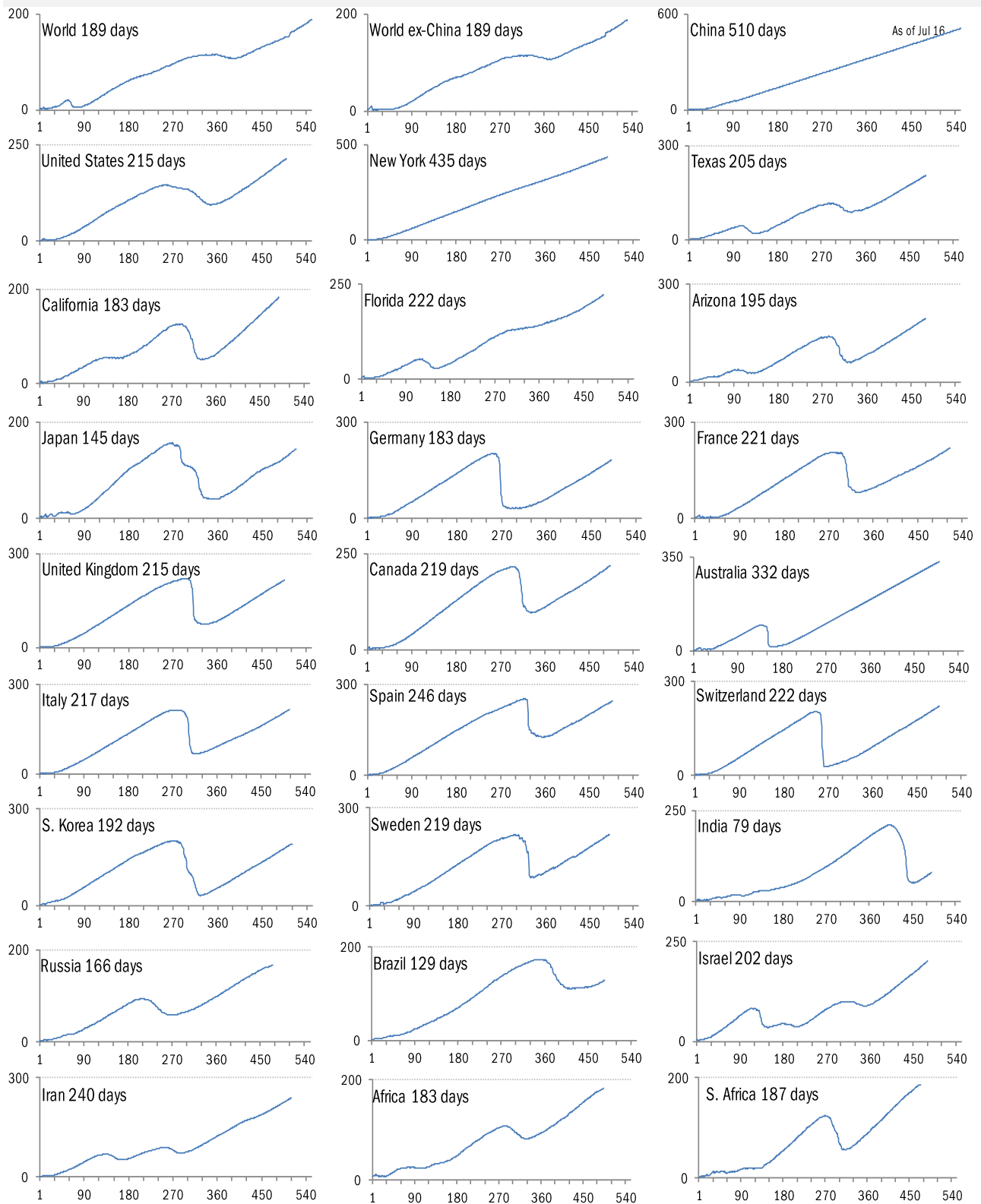


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

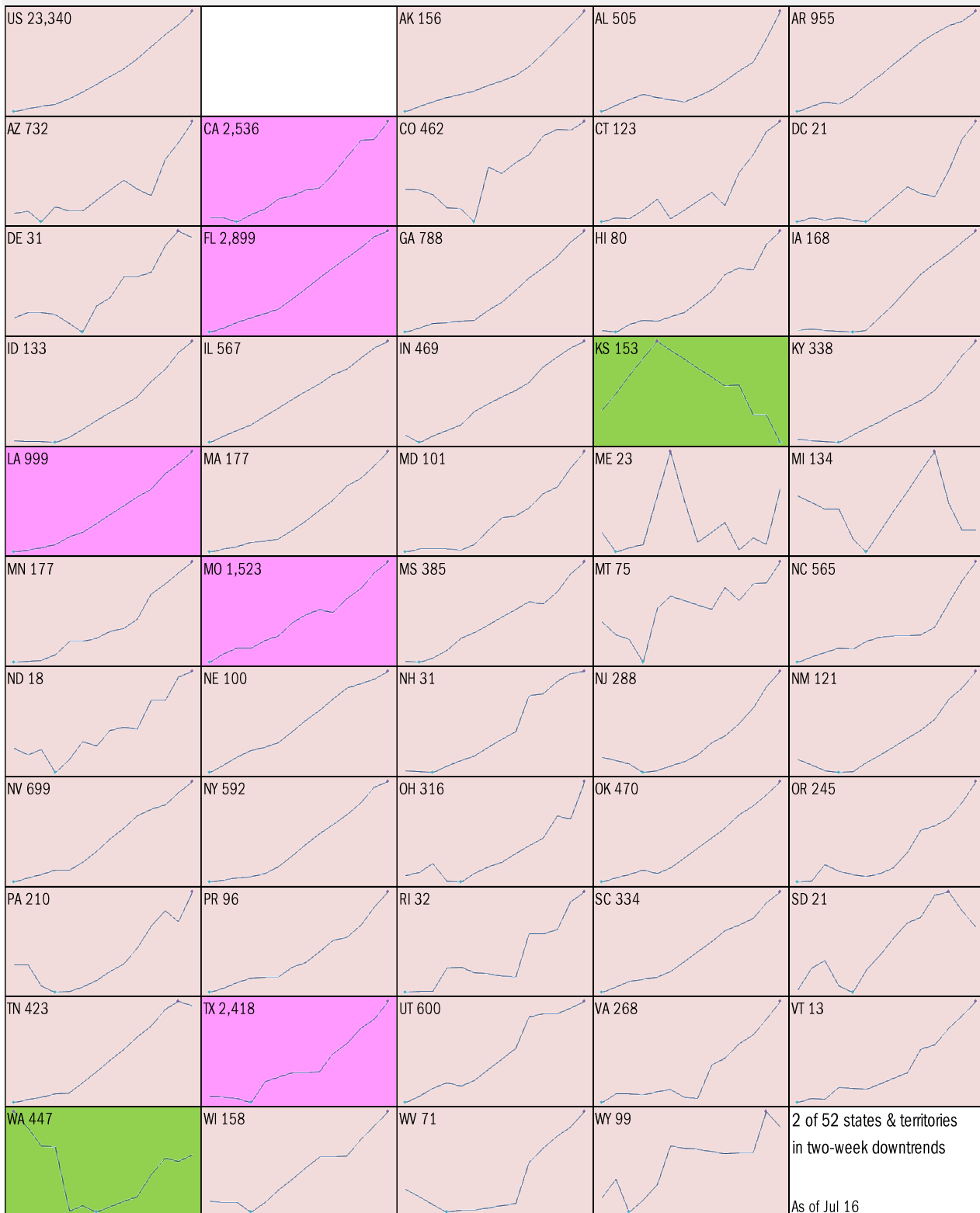


Source: [Johns Hopkins](#), TrendMacro calculations

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

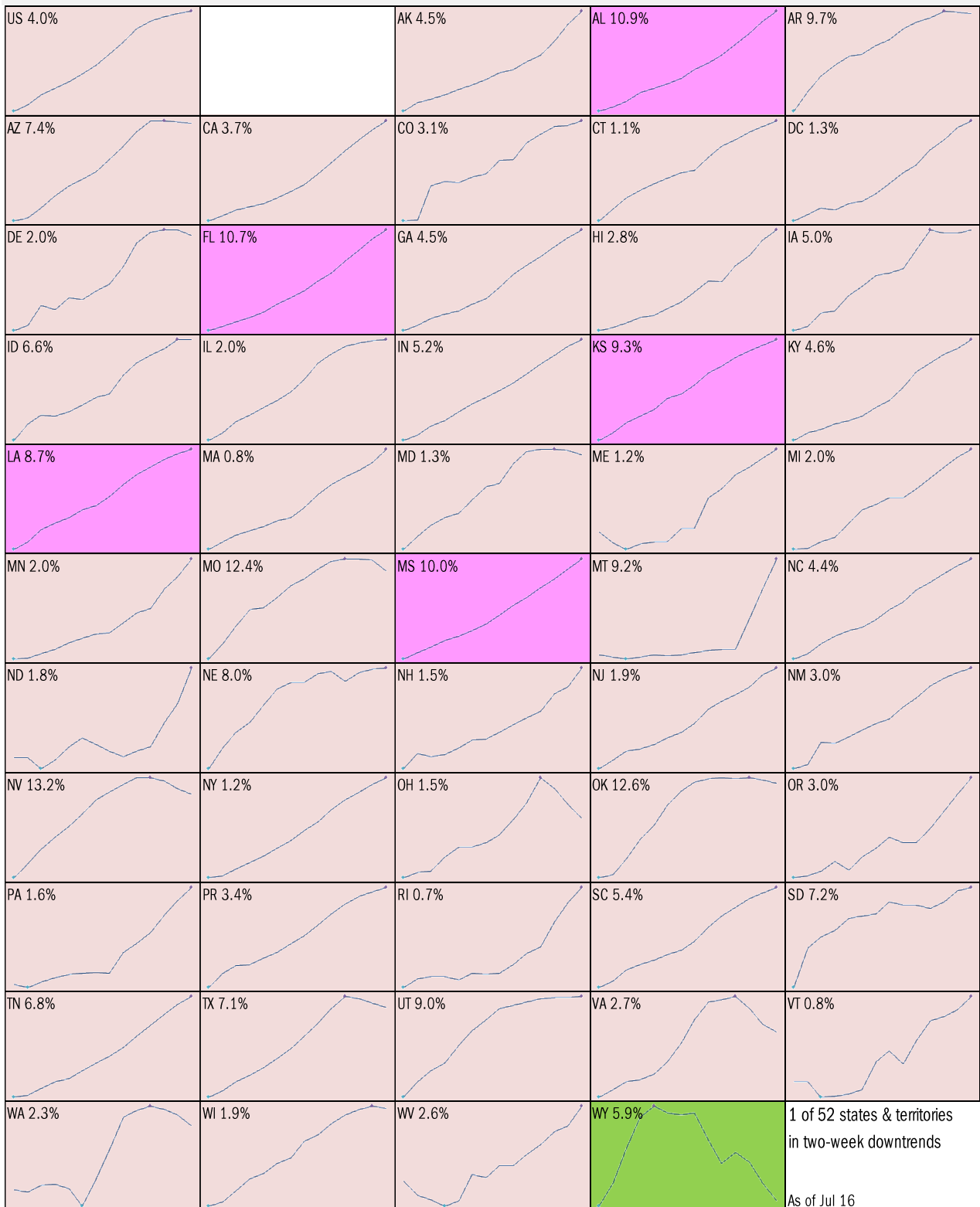


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day "downward trajectory" in pos tests

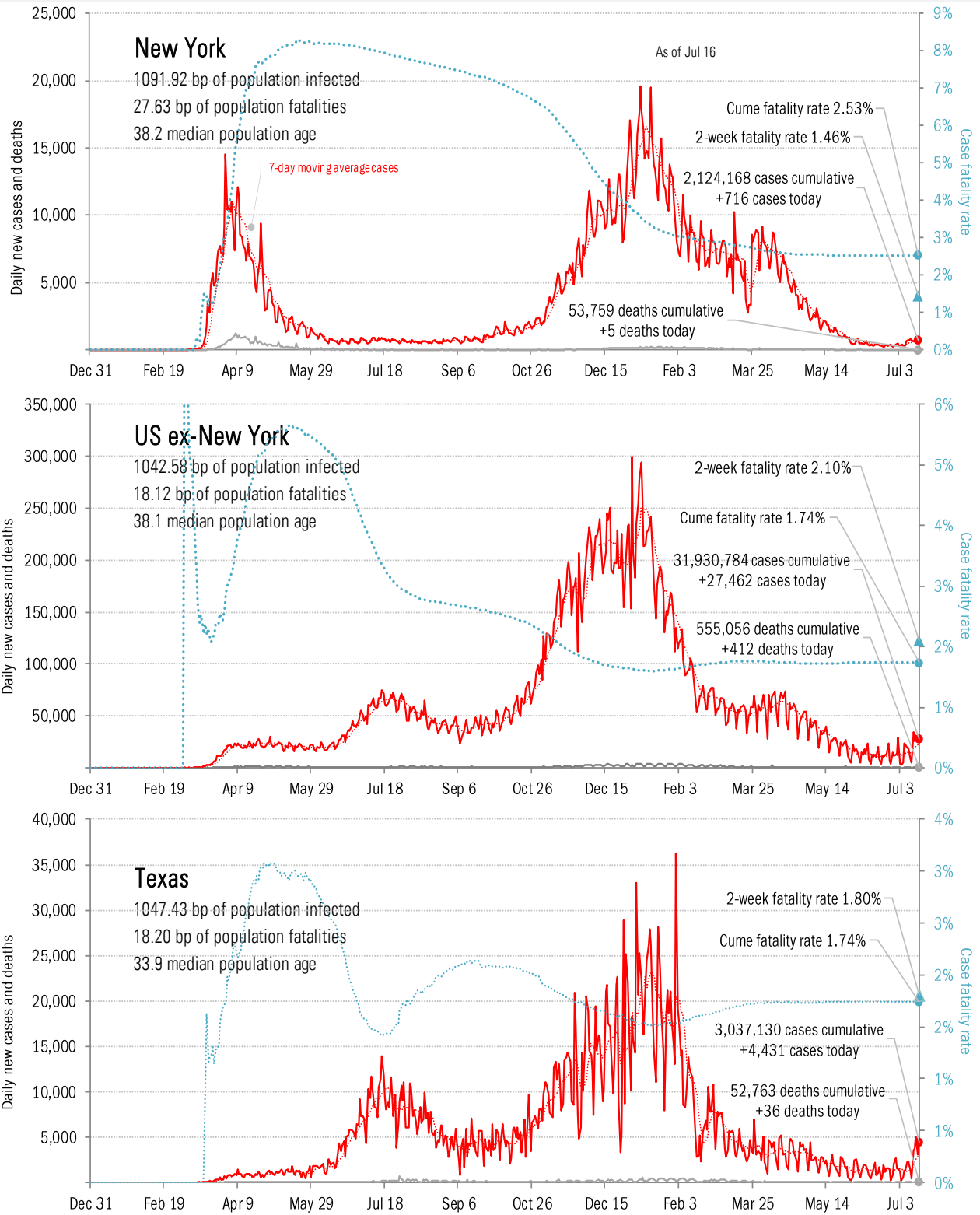
14-day moving average, last 14 days *Most recent value displayed* ● High ● Low

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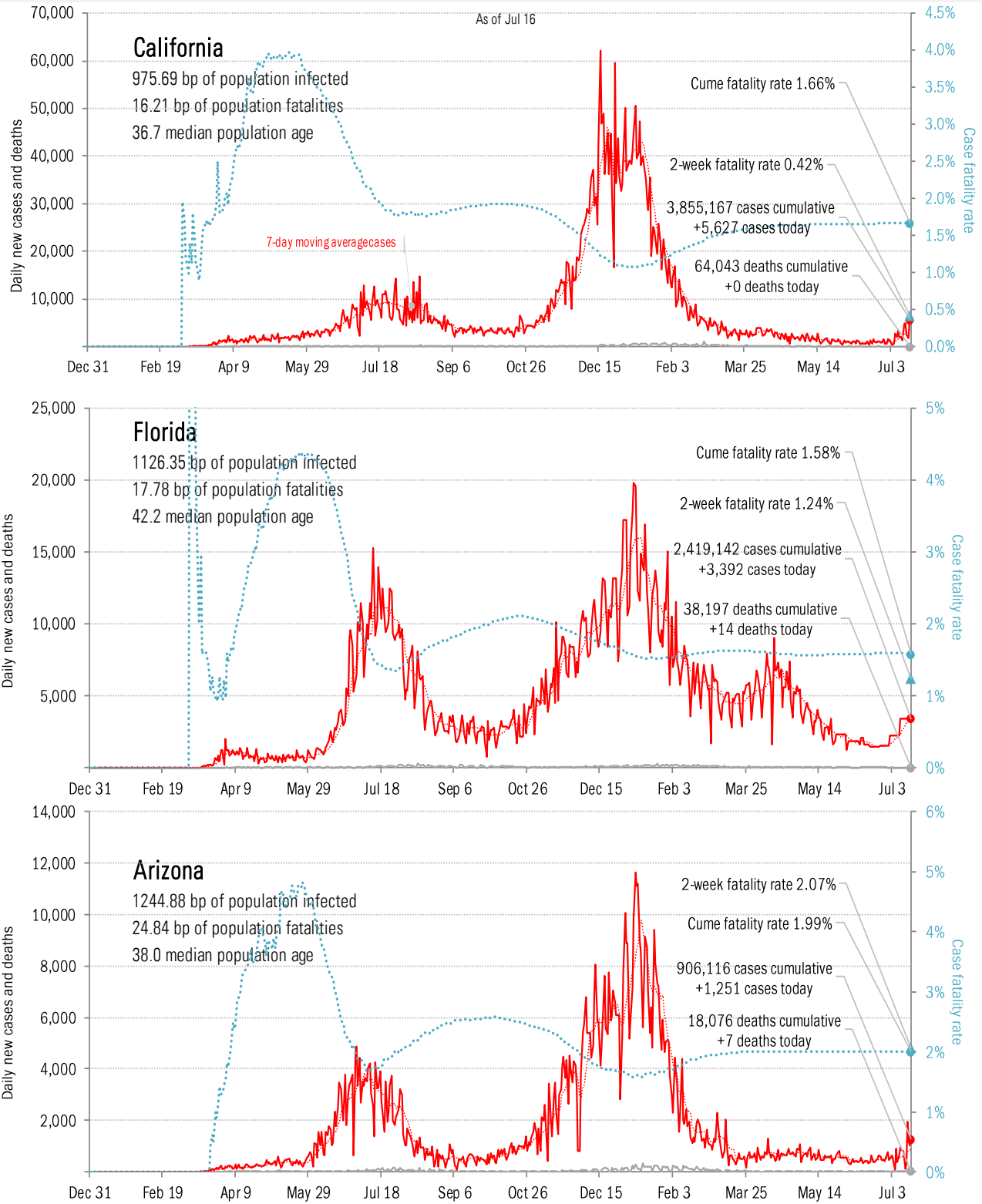
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



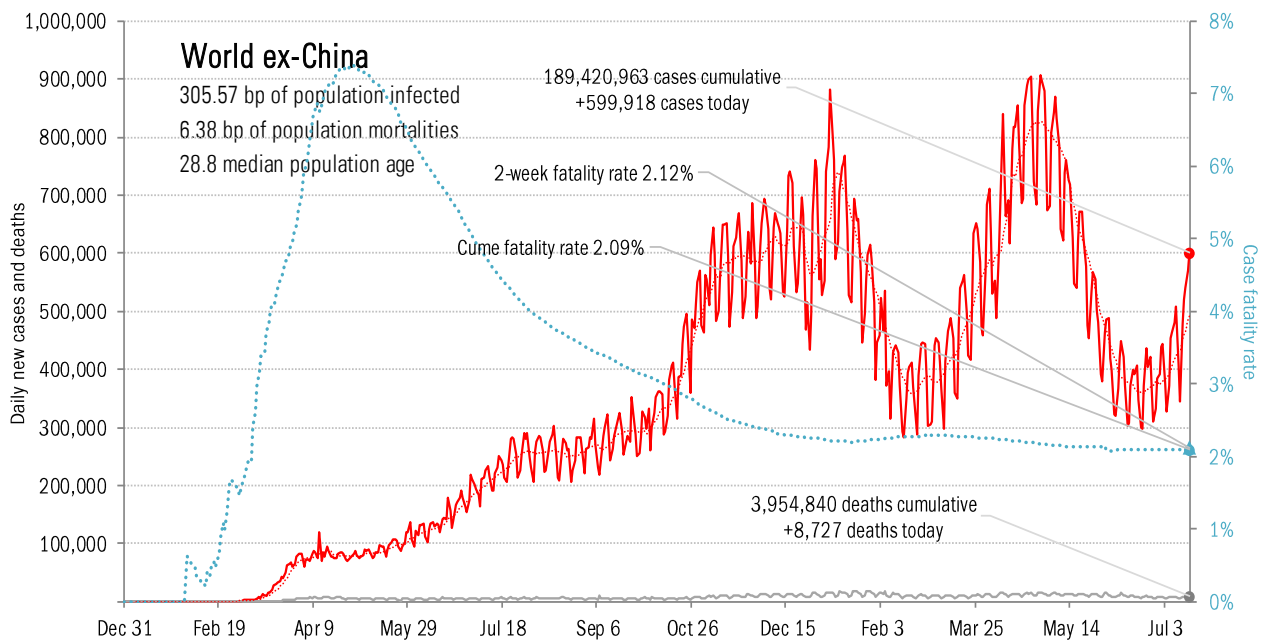
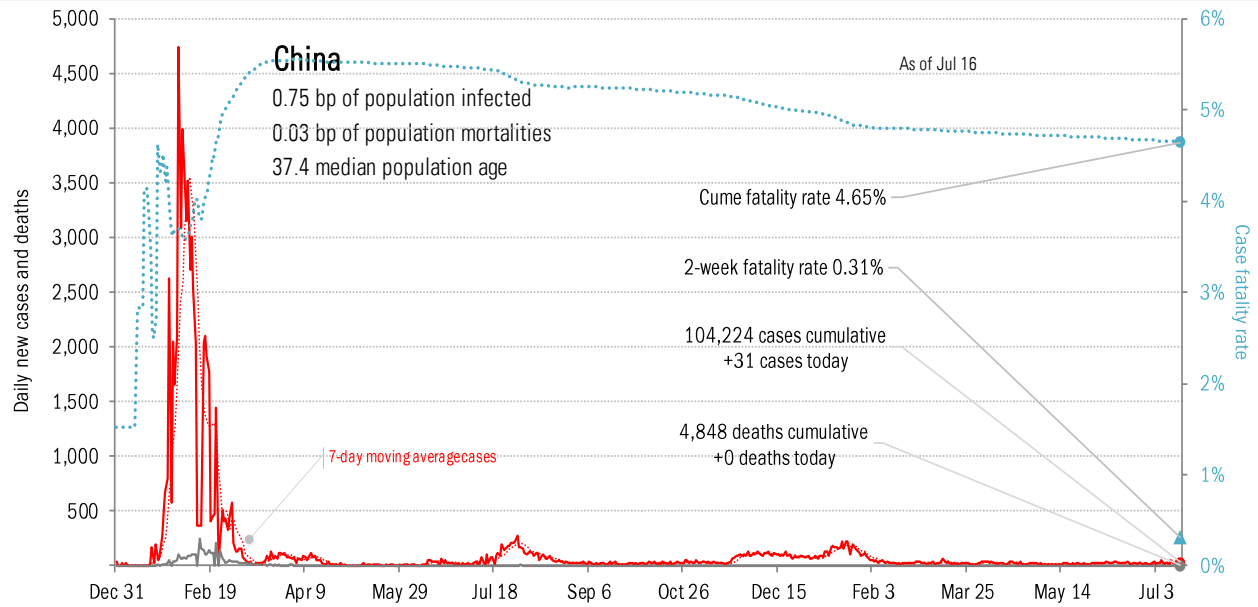
Source: [Johns Hopkins](#), TrendMacro calculations

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



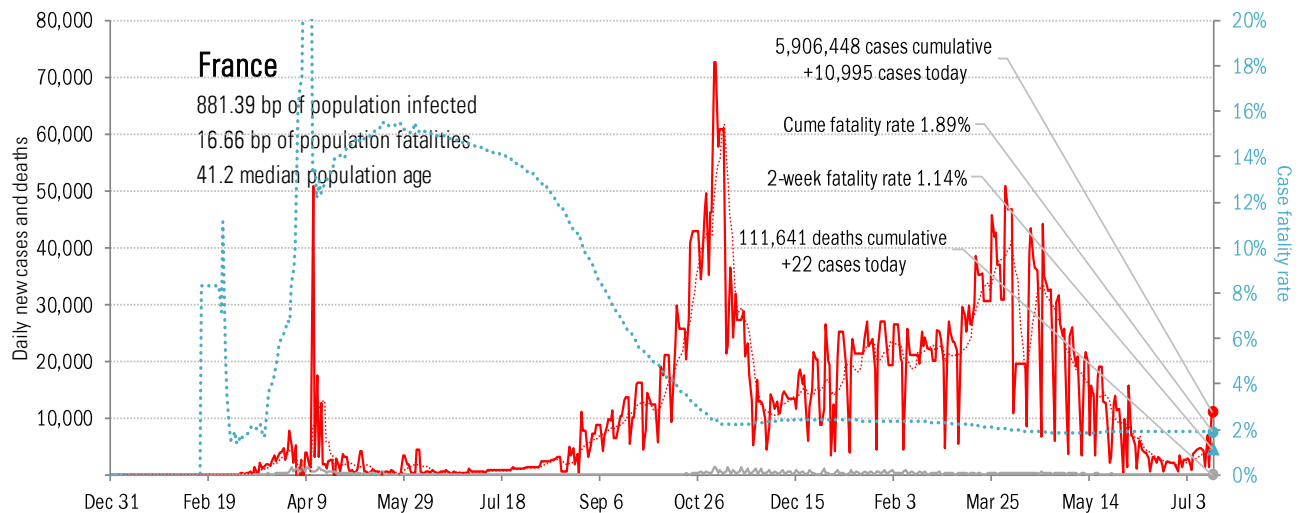
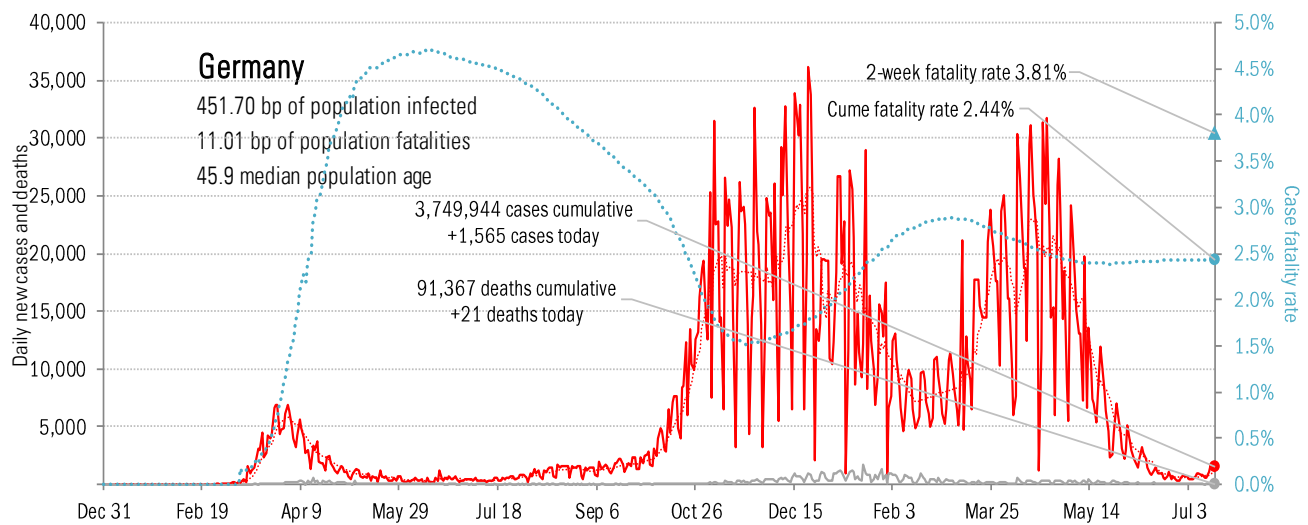
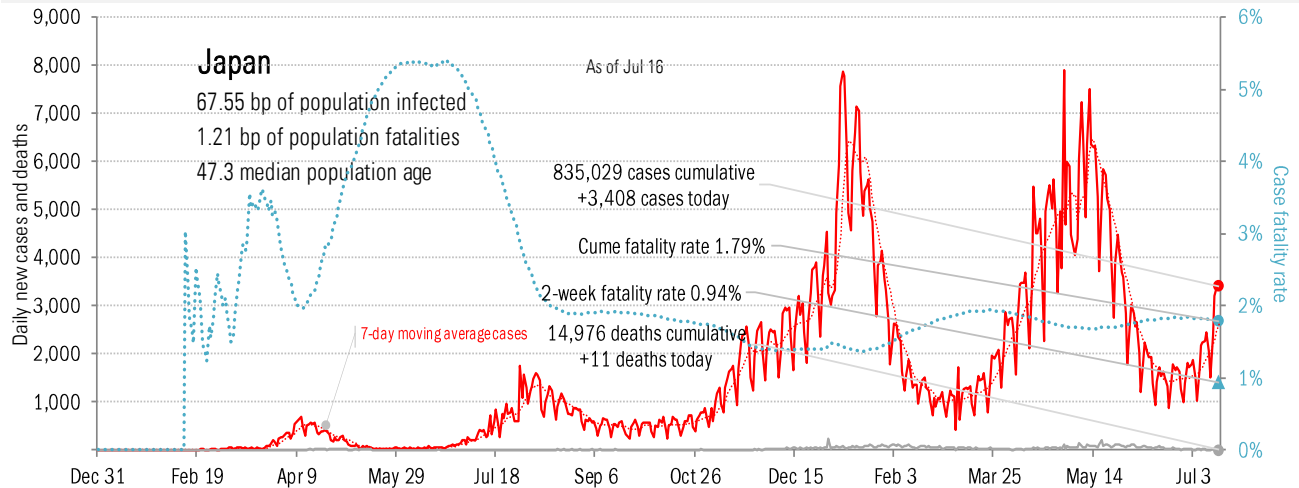
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



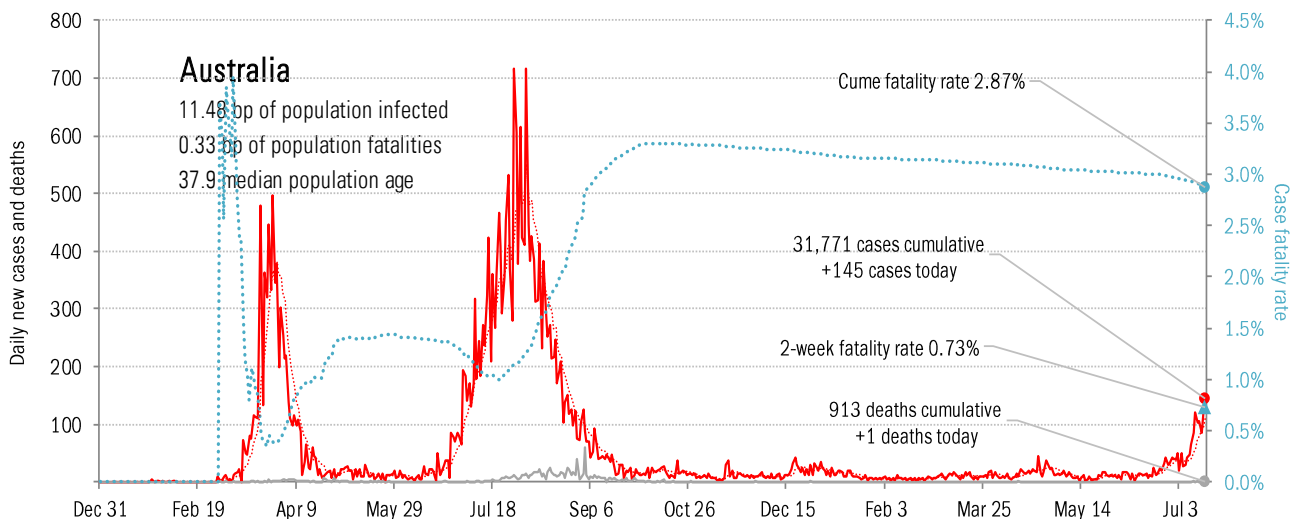
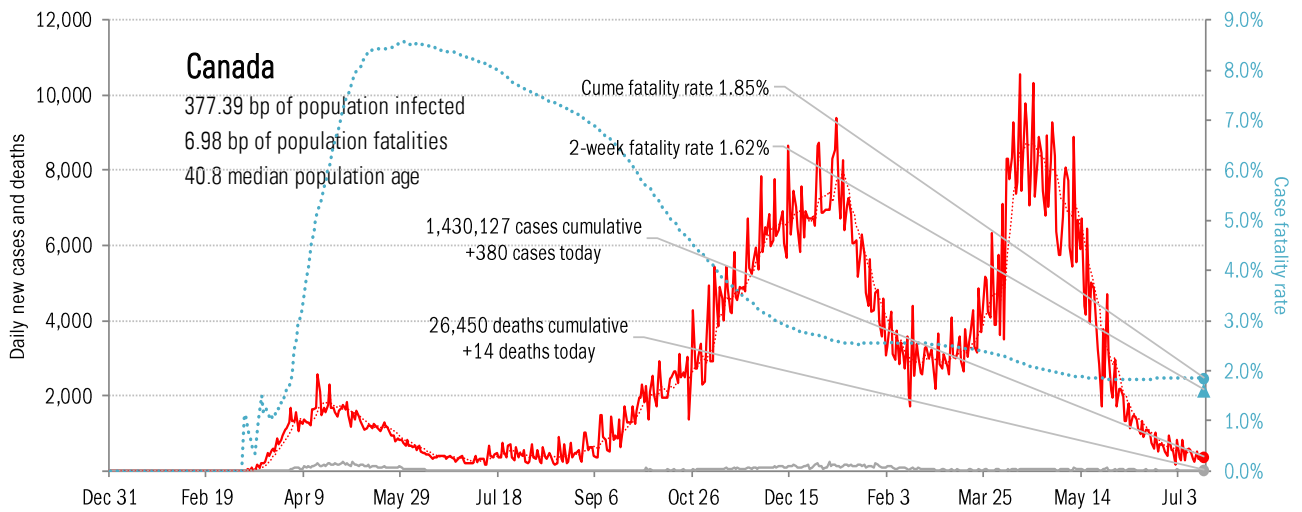
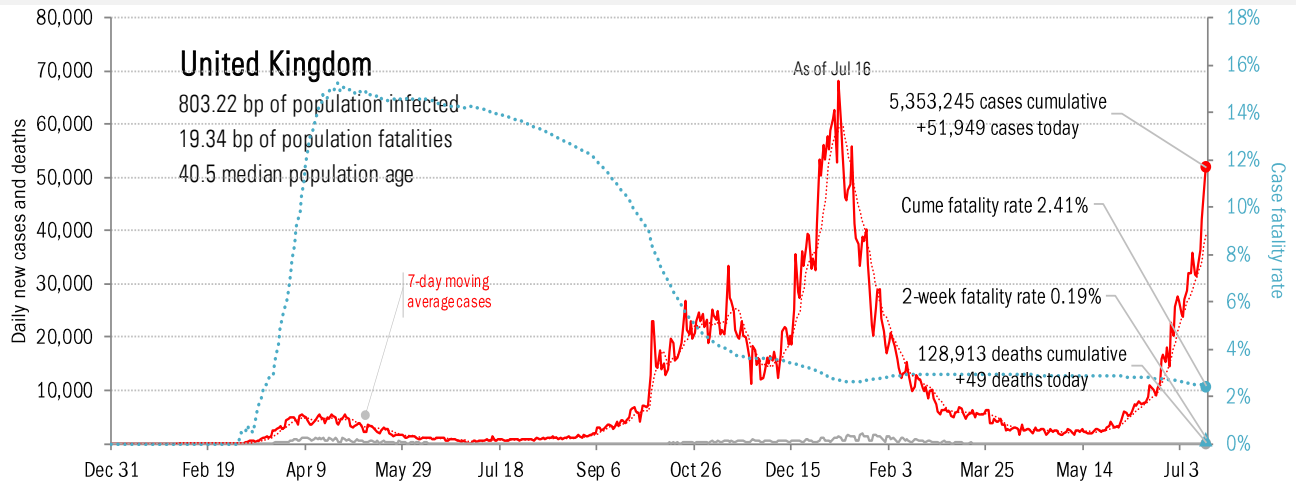
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



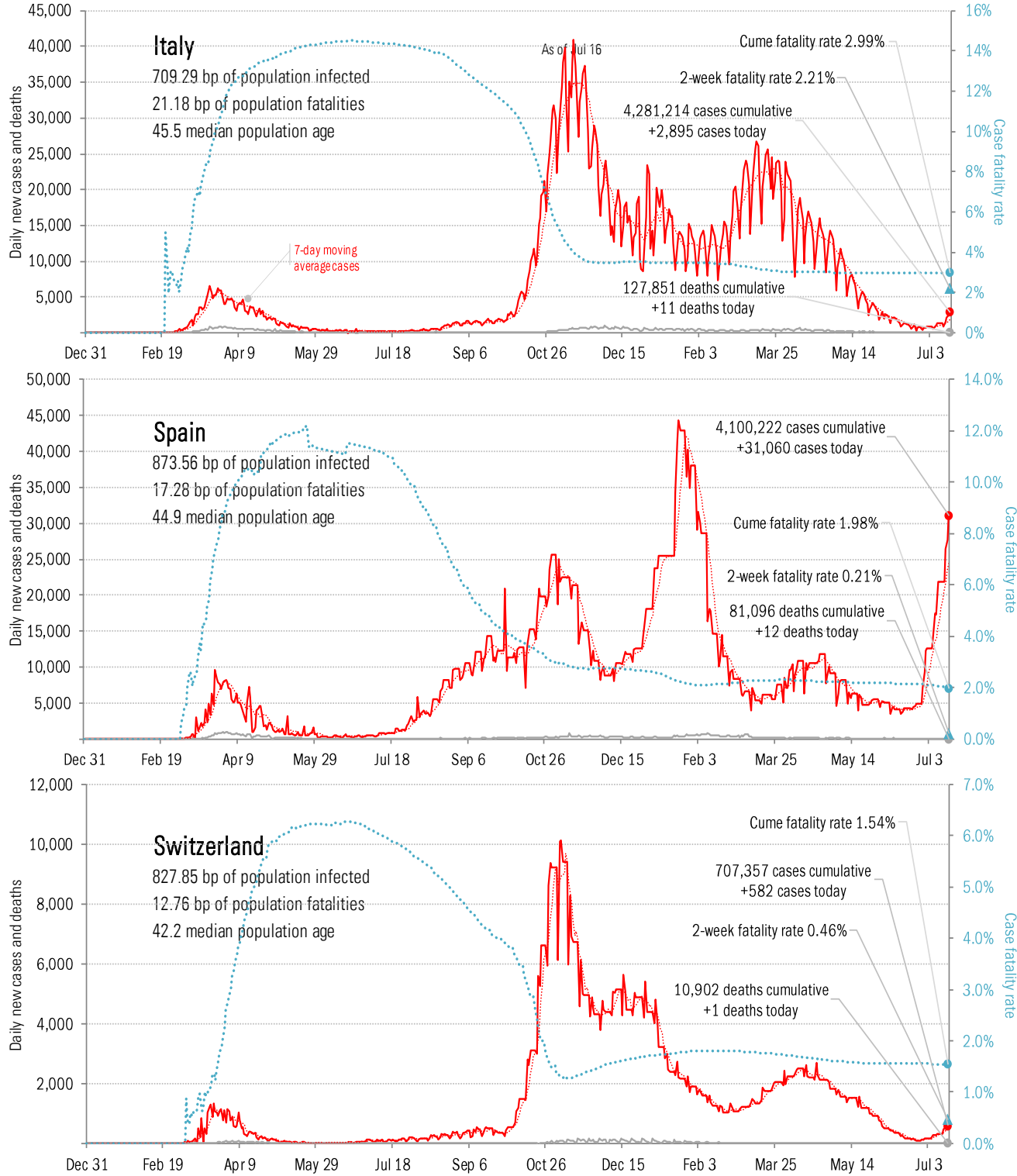
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



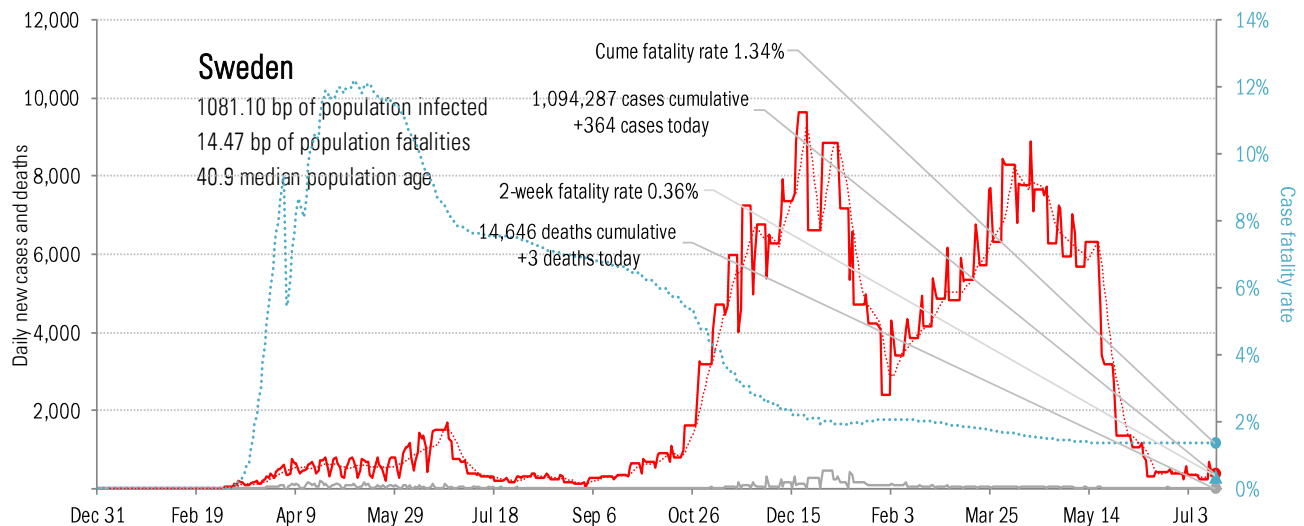
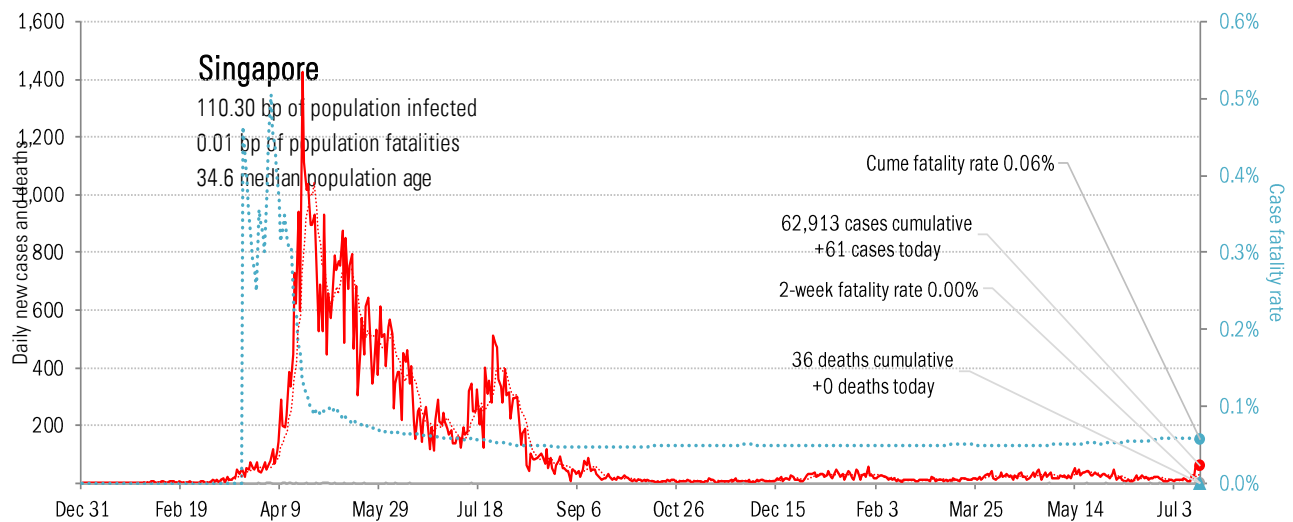
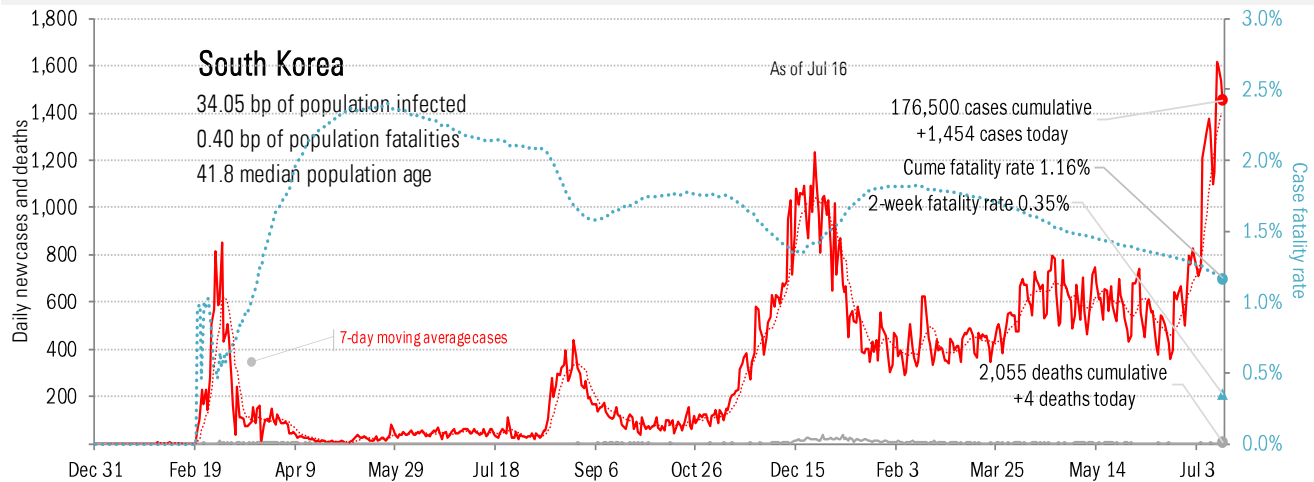
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



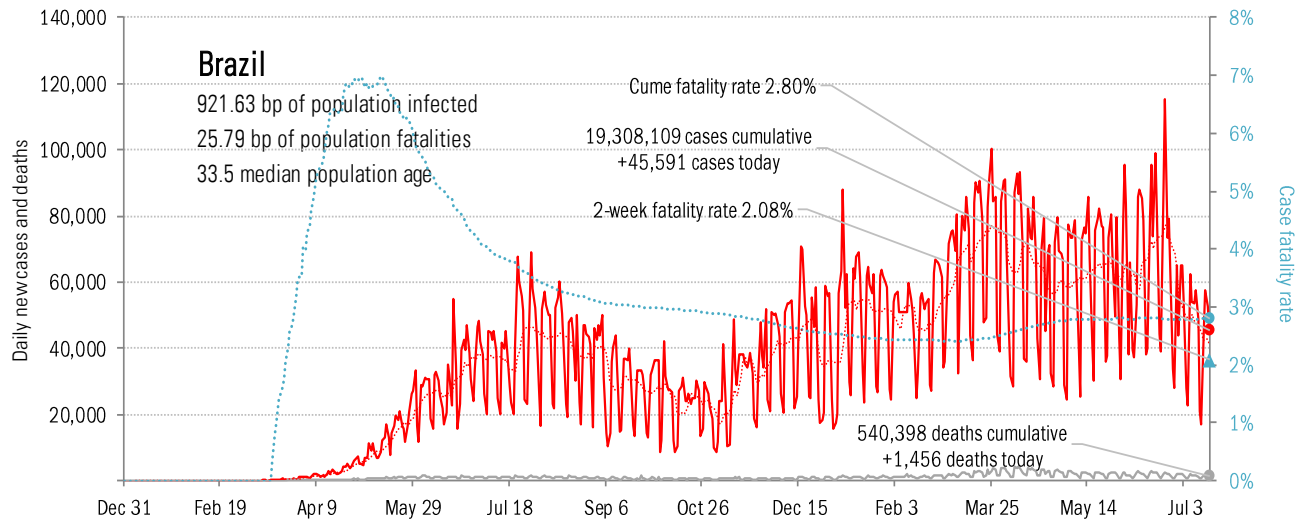
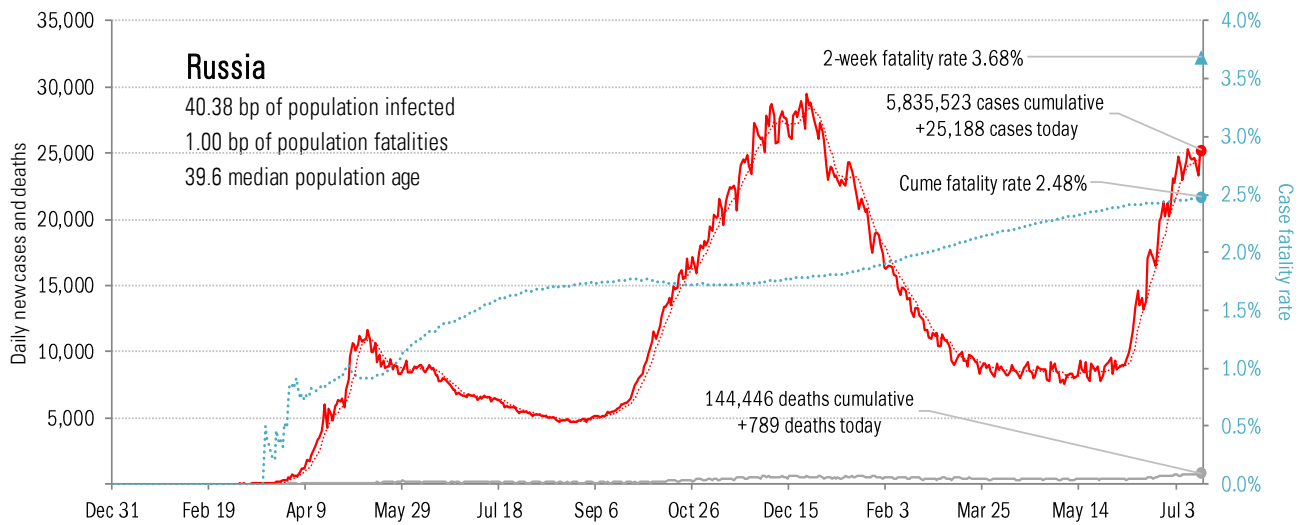
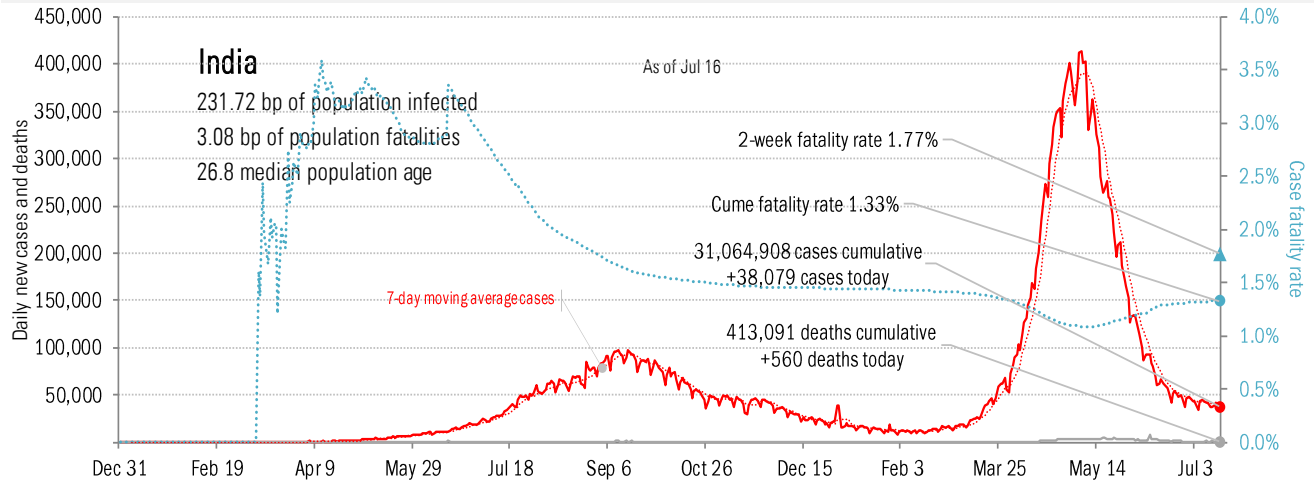
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



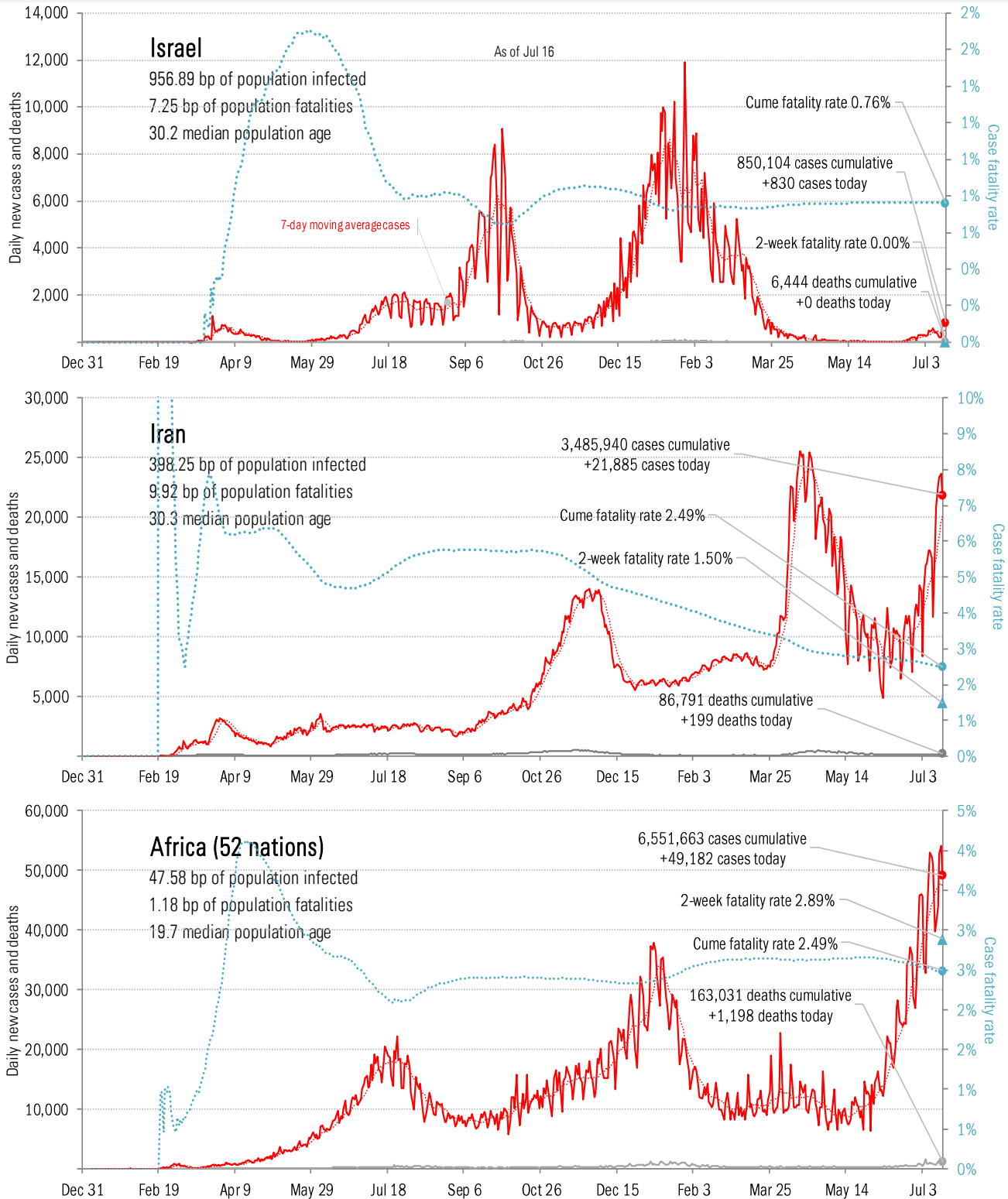
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



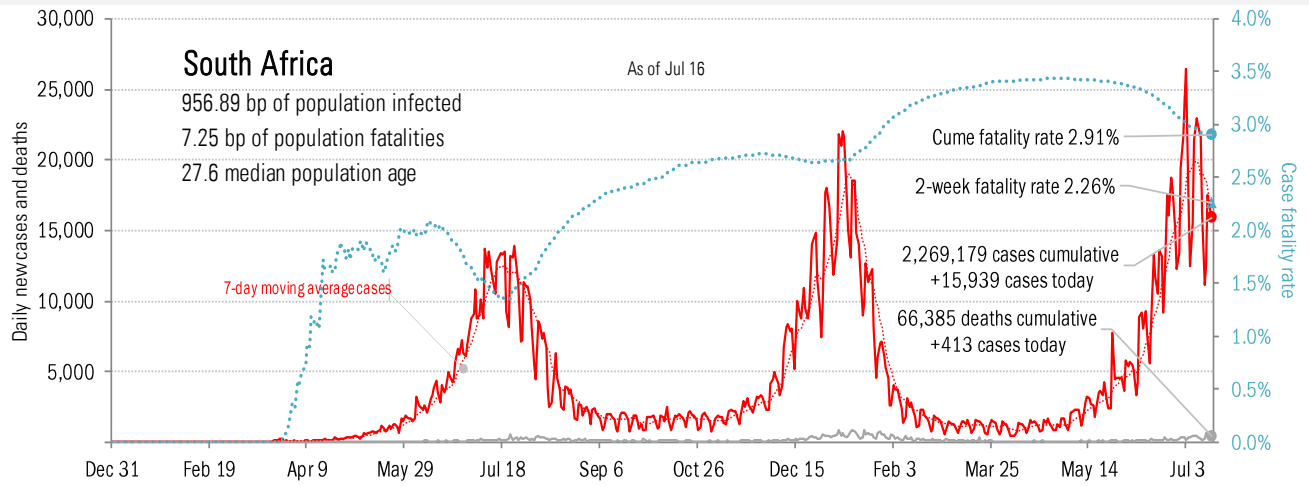
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in Africa, continued



Source: [Johns Hopkins](#), TrendMacro calculations