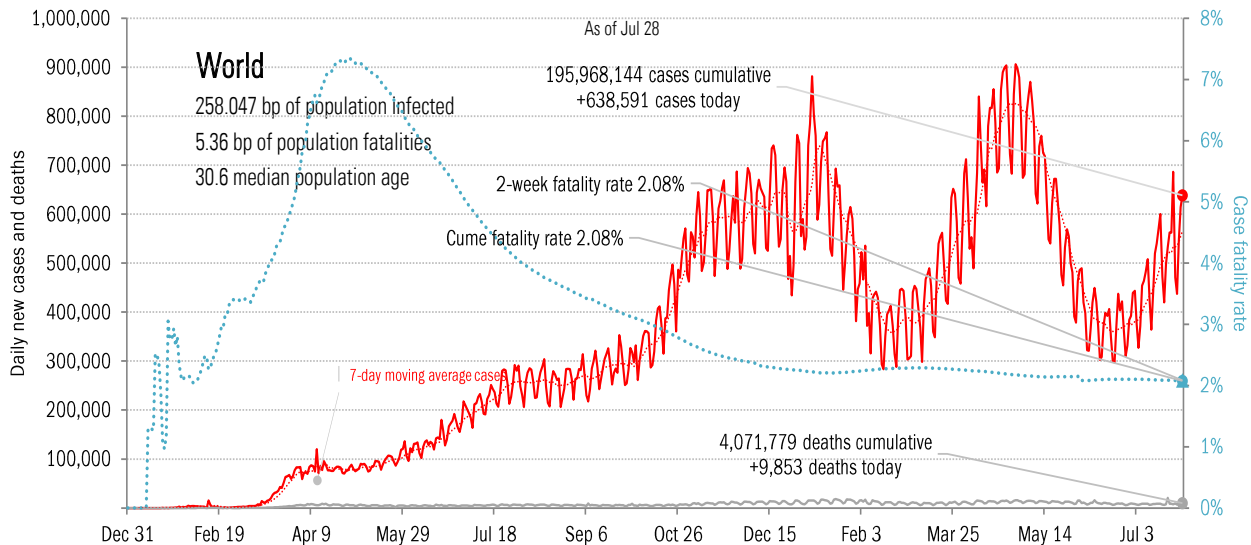
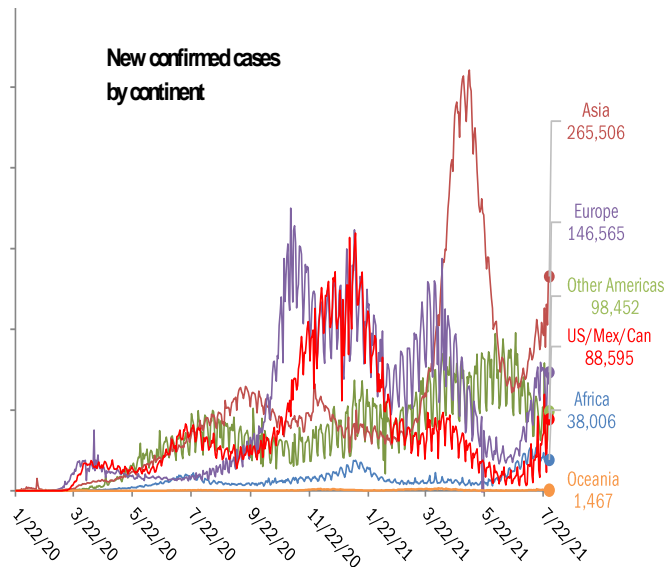


Data Insights: Covid-2019 Monitor

Thursday, July 29, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
United States	+68,771	Indonesia	+1,824
Brazil	+48,013	Brazil	+1,344
Indonesia	+47,791	Russia	+784
India	+43,509	India	+640
Iran	+33,817	Mexico	+537
France	+27,923	Argentina	+470
Spain	+27,149	United States	+387
United Kingdom	+25,713	Burma	+365
Turkey	+22,291	Colombia	+319
Russia	+21,870	Iran	+303
+366,847		+6,973	
World	+638,591	World	+9,853
Top ten	57%	Top ten	71%



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

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

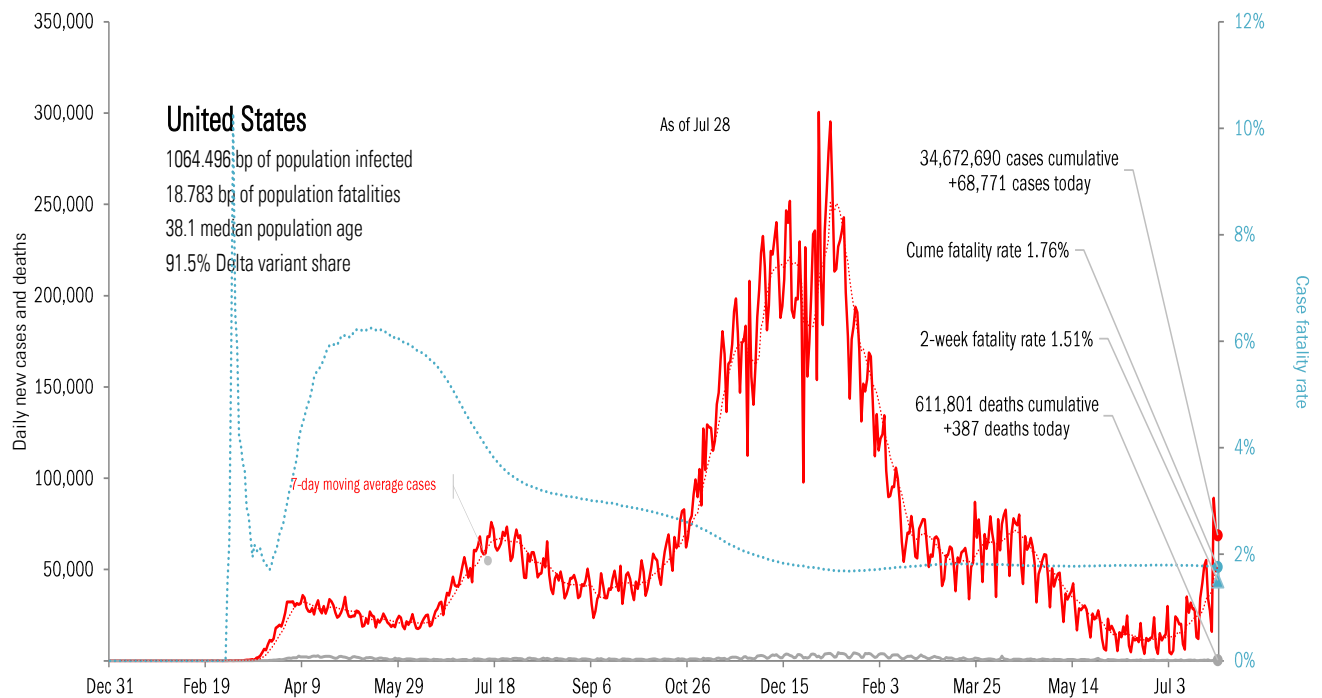
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+10,452		WI	+98		FL	+433		CA	3,935,590		CA	64,341		TX	264,374		RI	94%	MO	30%
TX	+9,288		TX	+71		KY	+247		TX	3,105,208		NY	53,623		CA	247,246		MA	85%	AR	27%
CA	+7,689		CA	+49		GA	+196		FL	2,513,058		TX	53,149		FL	203,472		MO	84%	NV	24%
LA	+4,699		FL	+41		TX	+182		NY	2,142,132		FL	38,692		NY	138,130		MD	84%	FL	23%
GA	+3,828		CK	+31		CA	+125		IL	1,415,572		PA	27,838		GA	112,999		FL	83%	UT	22%
MO	+2,835		MO	+24		AL	+86		PA	1,226,720		NJ	26,589		PA	92,705		GA	82%	MS	22%
AL	+2,726		NV	+20		LA	+80		GA	1,171,233		IL	25,853		CH	89,345		PA	81%	TX	18%
NC	+2,633		AL	+18		NC	+50		CH	1,125,420		GA	21,654		IL	84,235		NV	80%	OK	18%
TN	+2,226		NC	+16		AR	+40		NC	1,041,609		MI	21,165		KY	81,212		CT	80%	AK	17%
IA	+2,158		LA	+14		MO	+37		NJ	1,035,975		CH	20,490		MI	74,003		MN	79%	WY	15%
+48,534			+382			+1,476			18,712,517			353,394			1,387,721						
All states	+79,223		+428			+1769			All states	34,672,690		611,801			2,470,591			All states	70%	67%	
Top ten	61%		89%			83%			Top ten	54%		58%			56%			Median	73%	8%	

Some states not reporting

Five most improved US states

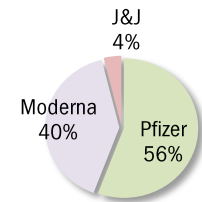
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-3,264	KS	-248	NV	-55	GA	+50 bp
CA	-2,602	MO	-38	AZ	-49	NJ	+30 bp
LA	-2,119	CH	-23	KS	-36	UT	+30 bp
MI	-2,069	MI	-19	UT	-28	MP	+20 bp
MN	-410	AZ	-10	TN	-23	NH	+20 bp



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

Rolling out the vaccines in the US and the world

Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	353,231,943		+0.762 million		US	48.9%	56.7%	
	One dose	% Pop	Immune	% pop	New immune today	UK	55.4%	68.8%
Total population	194,249,154	58%	167,860,405	50%	+0.278 million	France	45.3%	59.1%
Age 12 to 17	10,468,788	41%	8,113,666	32%	+0.045 million	Spain	56.5%	67.0%
Age 18 to 64	132,923,607	65%	114,407,651	56%	+0.199 million	Germany	50.6%	60.9%
Age 65 and over	50,633,396	93%	45,209,424	83%	+0.035 million	Italy	50.4%	62.6%



State
At least partial immunity as % population
Full immunity as % population



Every American >18 immune in **171 days** by Jan 15, 2022
 61.8% of population >18 immunized
 11.8% previously tested positive
73.6% vs 60% adult herd immunity*

Australia	13.9%	31.6%
Israel	61.8%	66.7%
Canada	57.4%	71.2%
Japan	27.1%	38.2%
Africa	1.6%	3.2%
India	7.1%	25.6%
Brazil	18.6%	48.1%

Global data differs from sources, timing

AK	51.2%
	45.4%

WI	55.3%
	51.6%

As of Jul 28

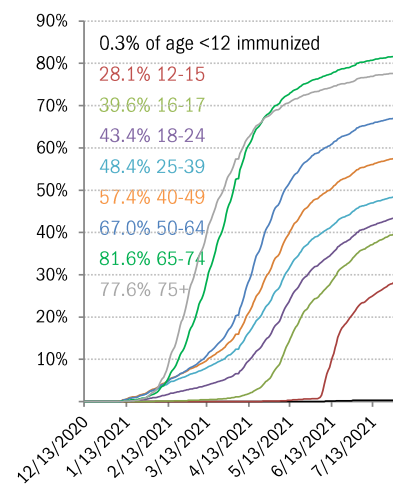
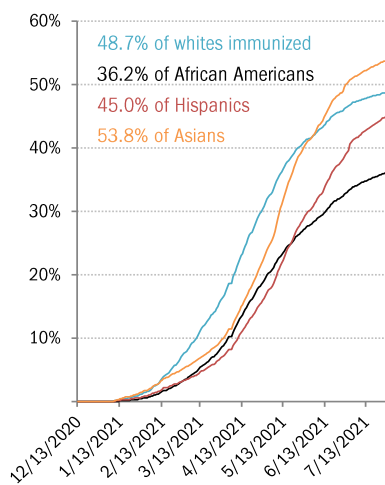
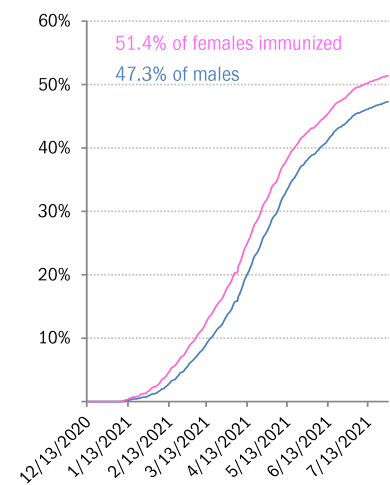
China NA

ME	68.1%
	63.3%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
63.6%	40.9%	49.1%	45.2%	58.5%	61.8%	52.9%	62.7%	75.3%	64.5%	
57.4%	37.2%	44.1%	40.0%	53.6%	48.2%	48.7%	56.8%	67.4%	58.2%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
60.4%	53.1%	41.4%	52.4%	53.0%	46.9%	49.6%	65.2%	65.6%	72.4%	
55.8%	44.1%	36.5%	46.8%	49.5%	44.0%	46.3%	52.0%	58.1%	63.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
64.3%	51.9%	59.9%	53.5%	48.2%	51.6%	45.9%	61.3%	64.4%	69.5%	66.8%
52.5%	44.7%	54.2%	49.3%	41.0%	45.3%	39.0%	54.3%	58.6%	63.0%	61.2%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	52.7%	65.0%	52.9%	46.0%	44.3%	50.8%	46.3%	63.6%	60.3%	
	45.1%	56.8%	45.0%	36.1%	38.9%	43.6%	40.4%	54.5%	52.5%	
			OK	LA	MS	AL	GA			
			47.4%	41.5%	39.3%	42.7%	45.9%			
			40.0%	36.7%	34.4%	34.2%	38.5%			
			TX							
			51.1%							
			43.6%							
								FL		PR
								57.0%		68.6%
								48.6%		59.6%

HI	71.2%
	53.4%

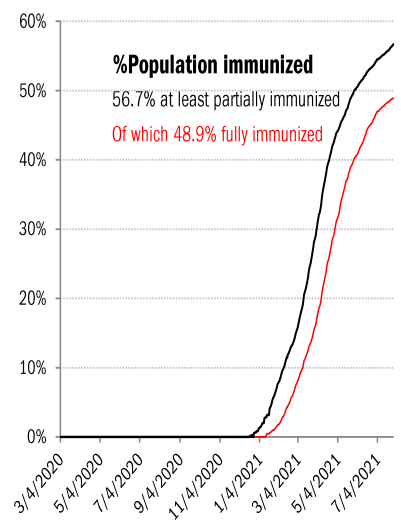
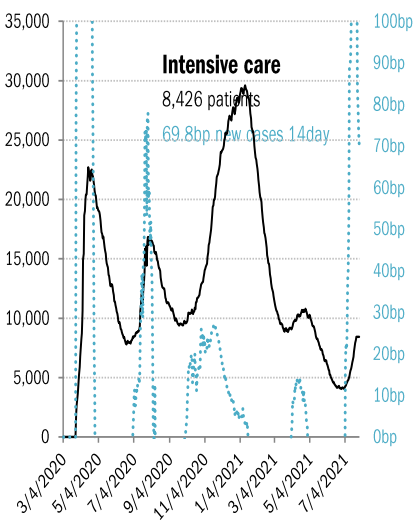
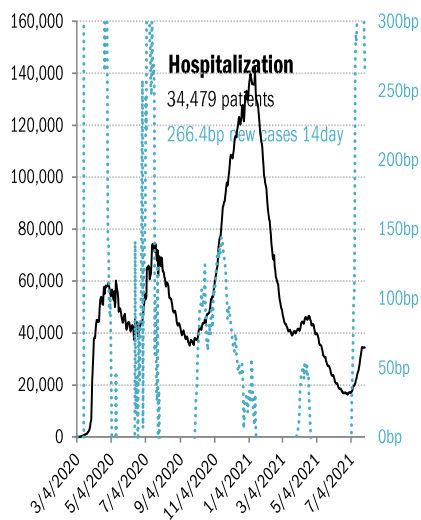
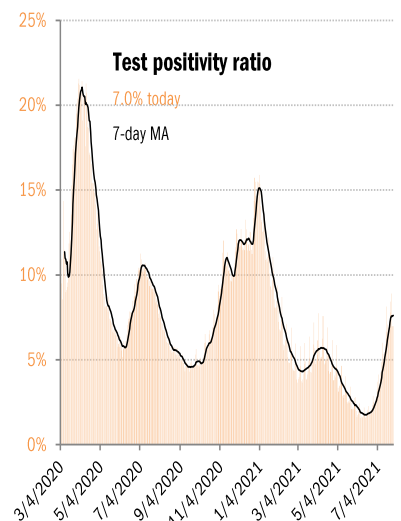
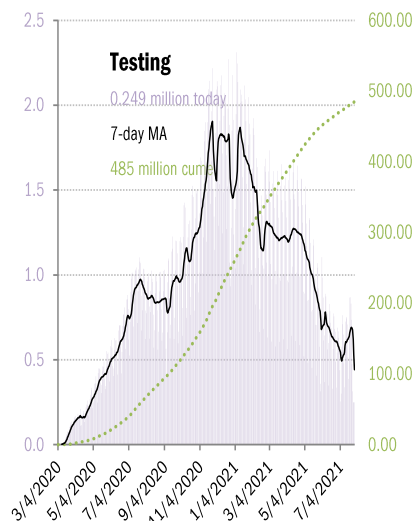
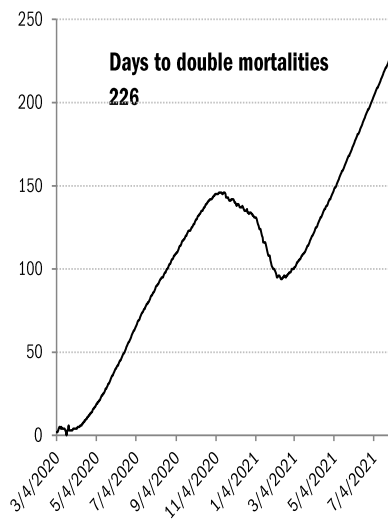
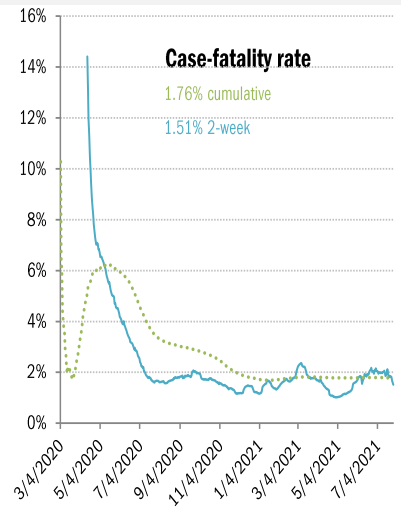
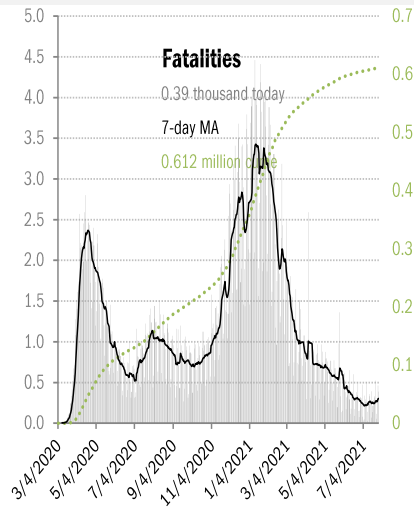
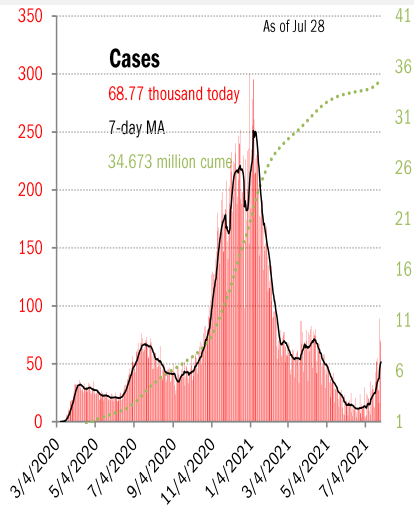
The demographics of US vaccination



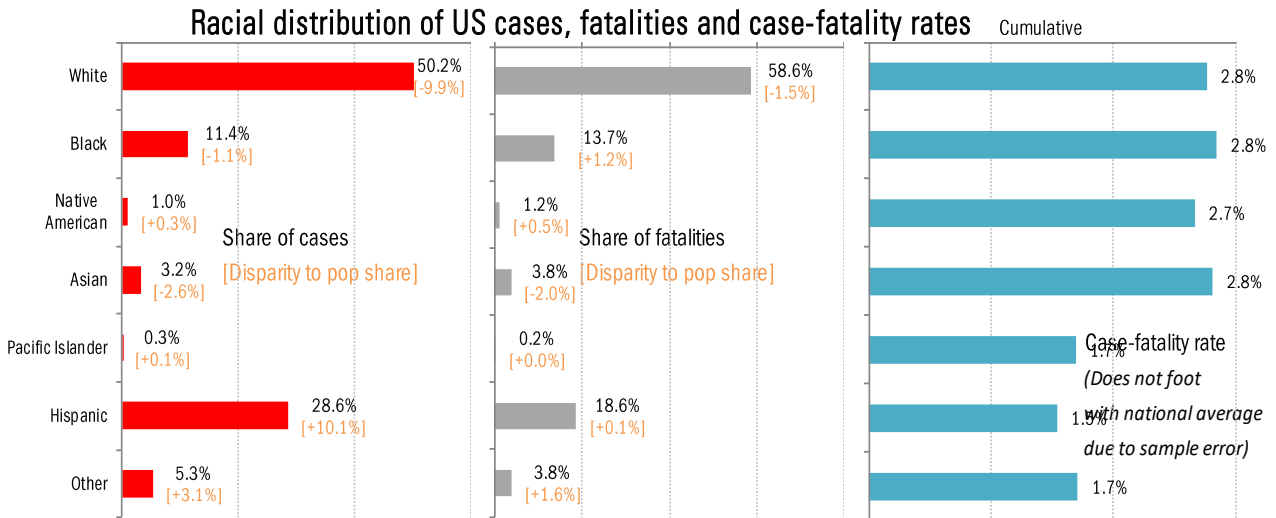
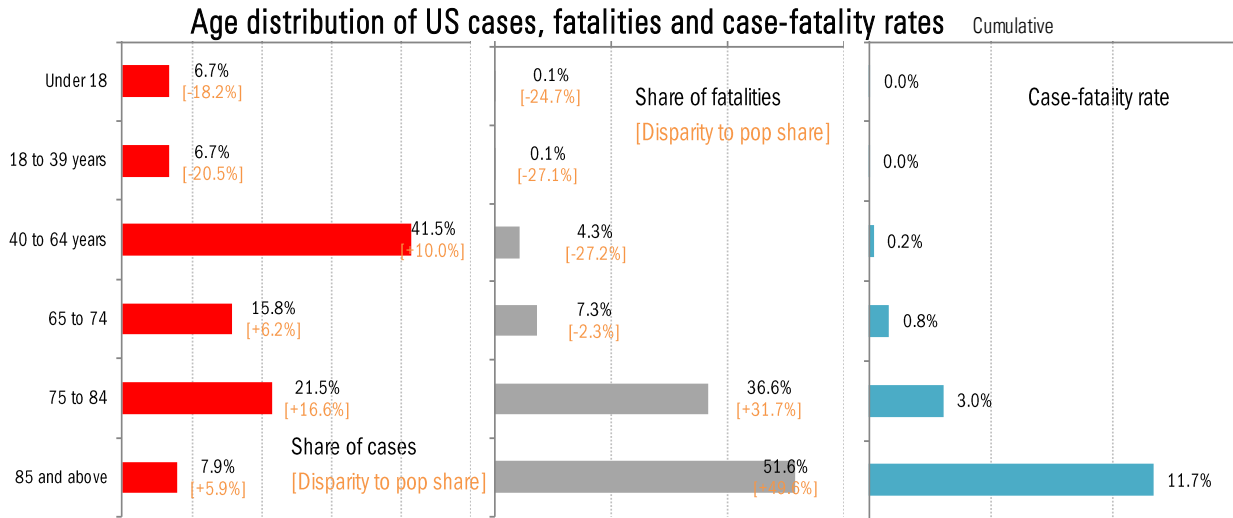
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

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

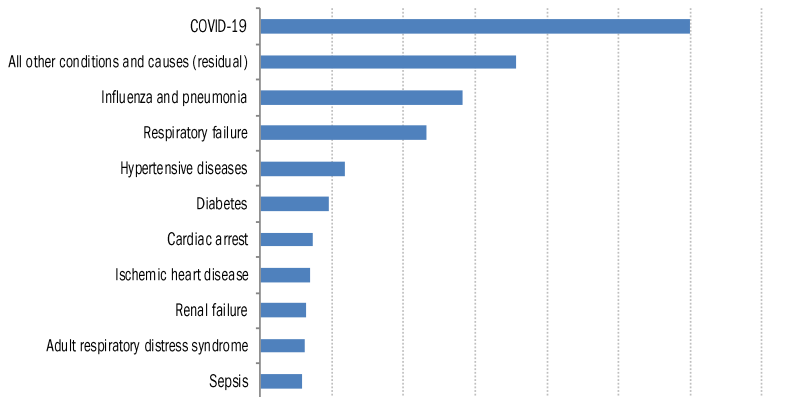


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jul 18

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

[COVID-19 and education: The lingering effects of unfinished learning](#)

ma Dorn, Bryan Hancock, Jimmy Sarakatsannis, and Ellen Viruleg

McKinsey & Company

July 27, 2021

[The Cost of the School Shutdowns](#)

Wall Street Journal

July 28, 2021

[Covid Will Increase Life Expectancy](#)

David Colander

Wall Street Journal

July 28, 2021

[Longitudinal analysis shows durable and broad immune memory after SARS-CoV-2 infection with persisting antibody responses and memory B and T cells](#)

Kristen W. Cohen et al.

Outbreak News Today

July 14, 2021

[Eight reasons why the UK's coronavirus cases appear to be falling](#)

Graham Lawton

NewScientist

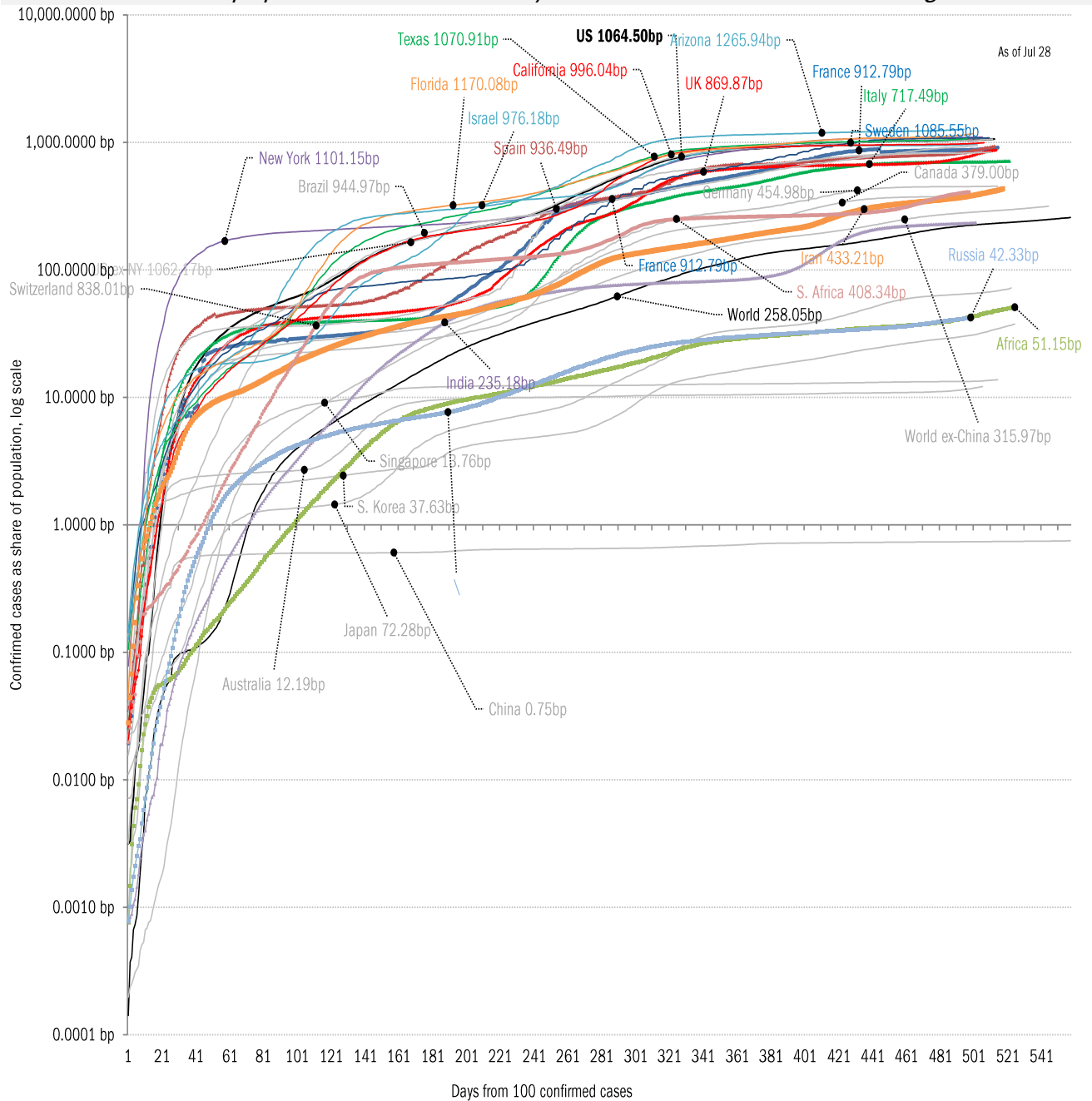
July 27, 2021

Meme of the day



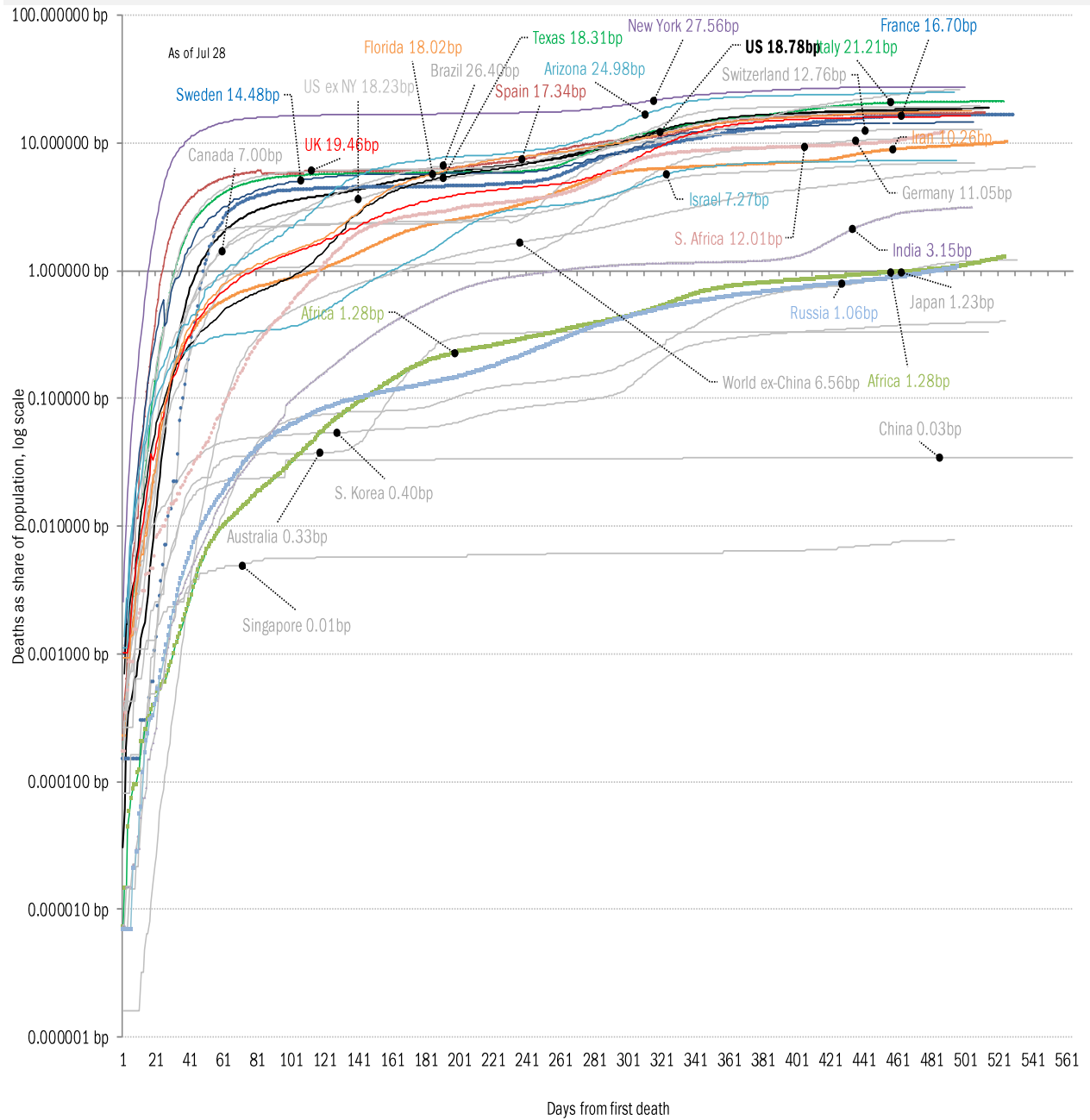
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

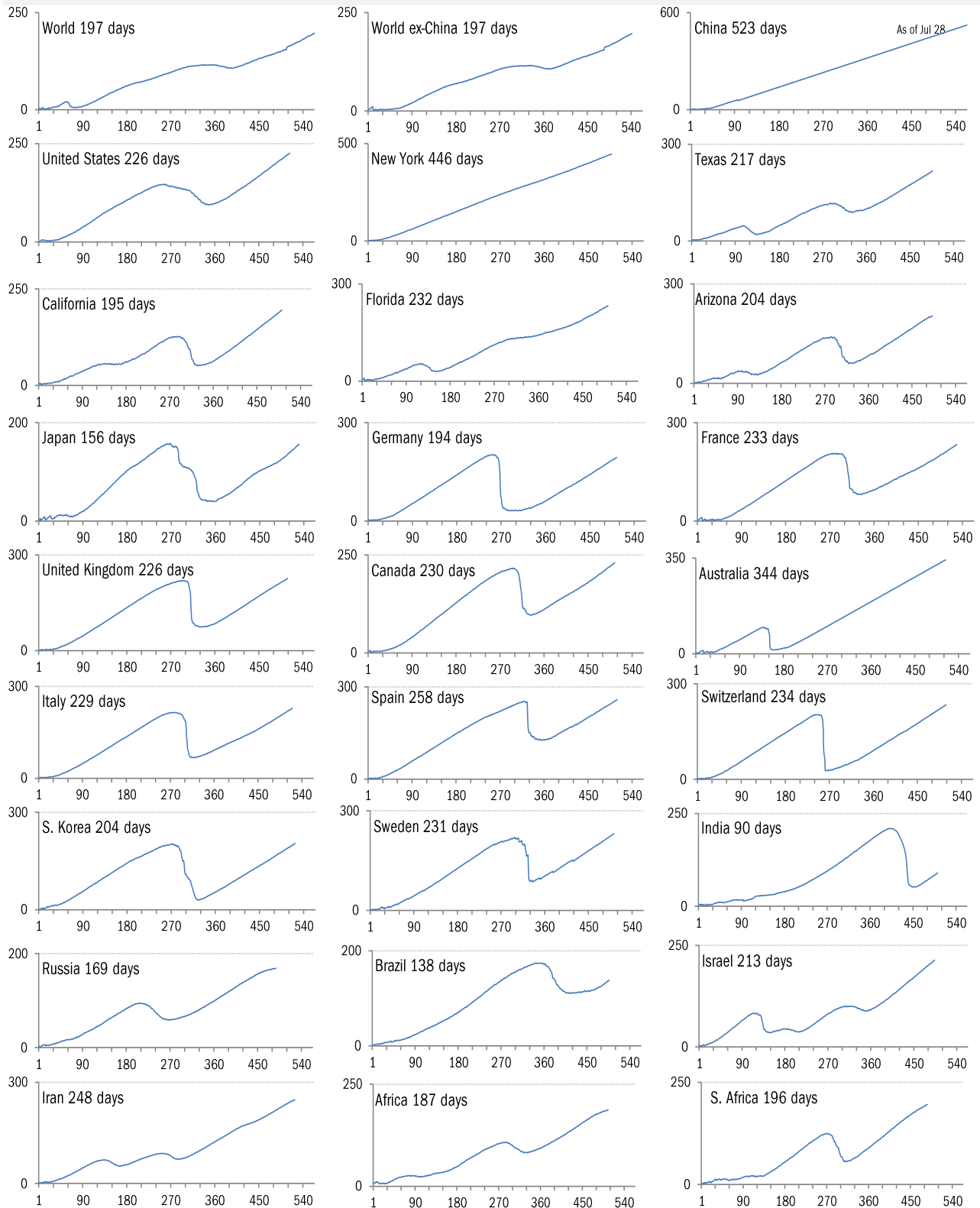


Source: [Johns Hopkins](#), TrendMacro calculations

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

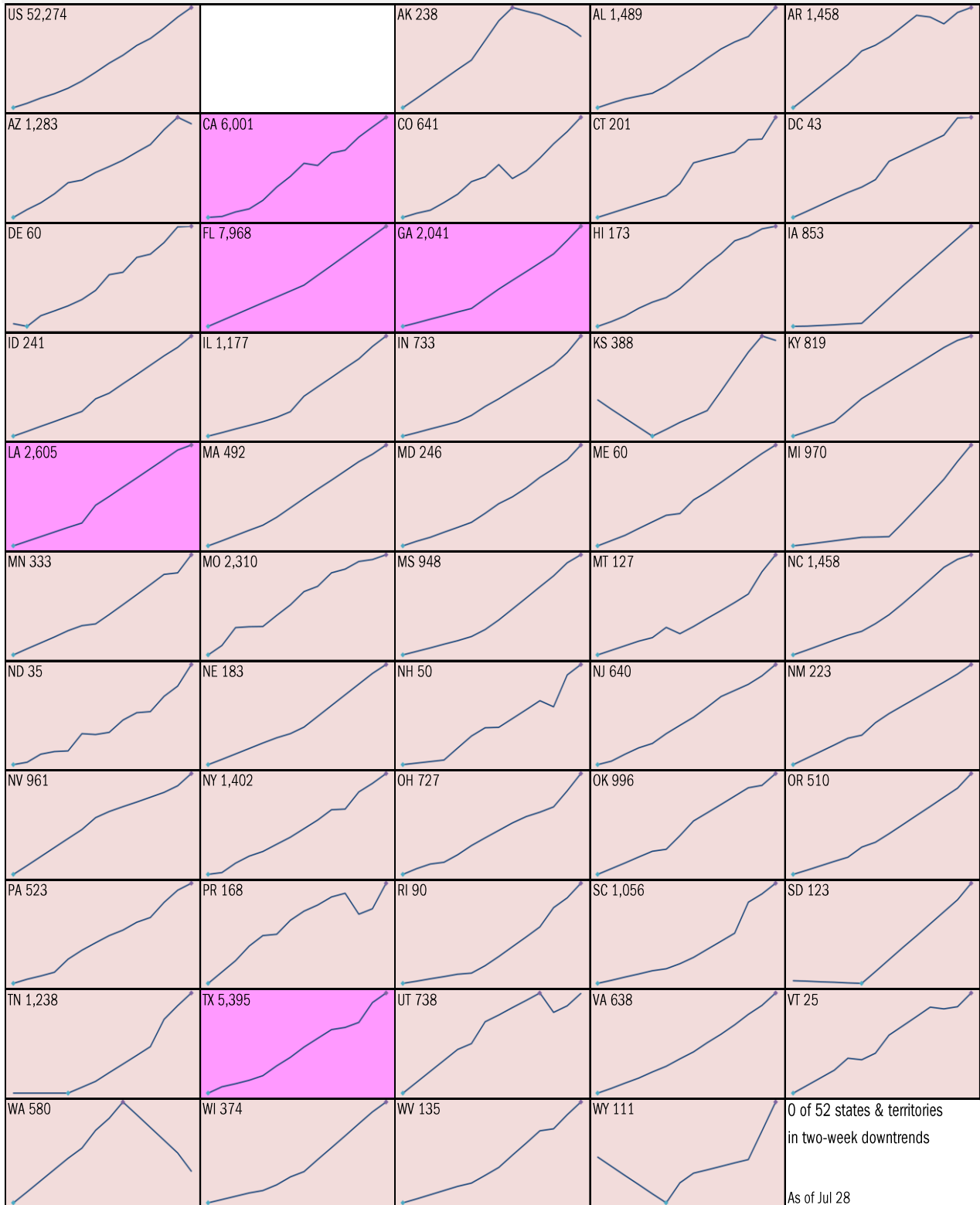


Source: [Johns Hopkins](#), TrendMacro calculations

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

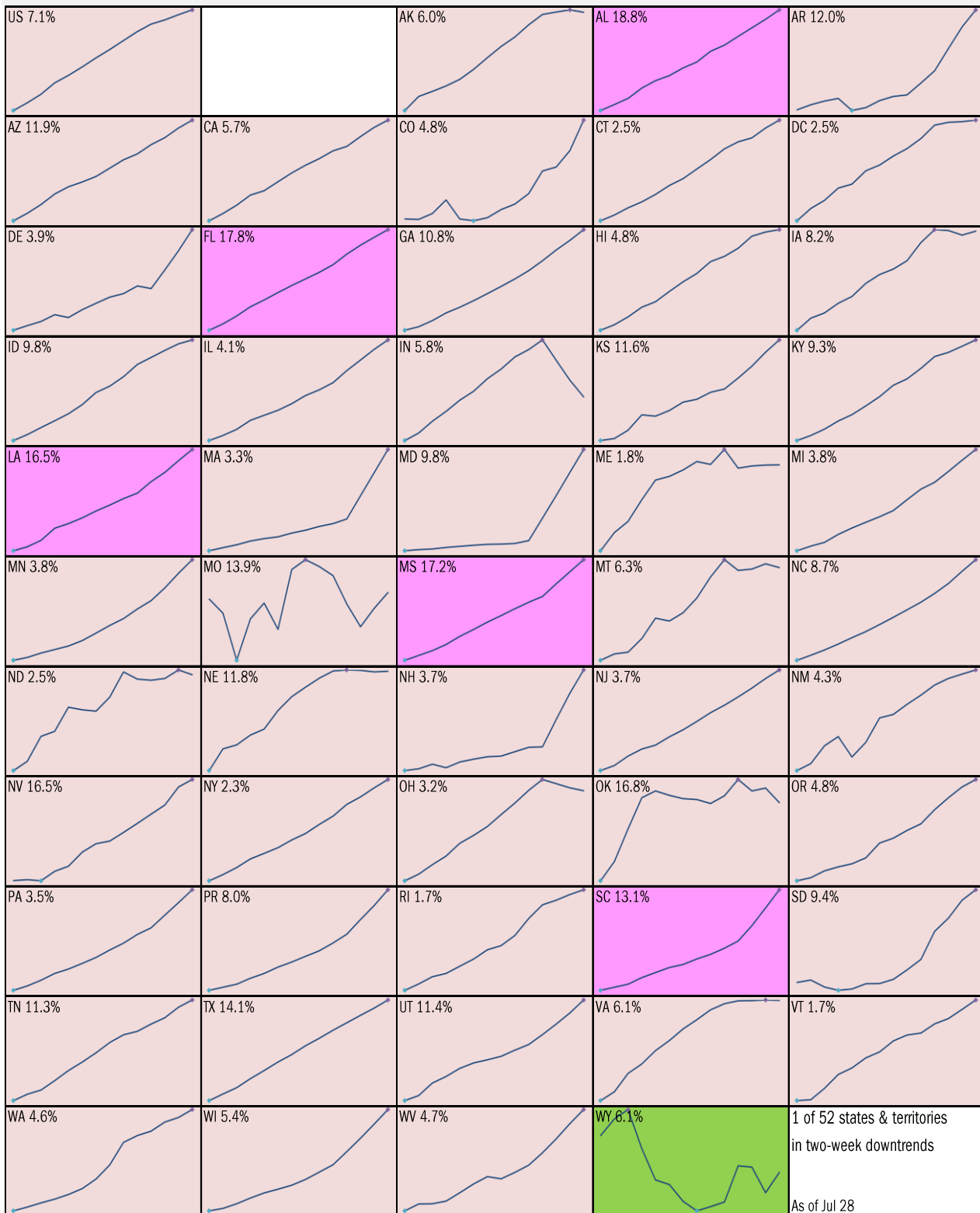


Source: [Johns Hopkins](#), TrendMacro calculations

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

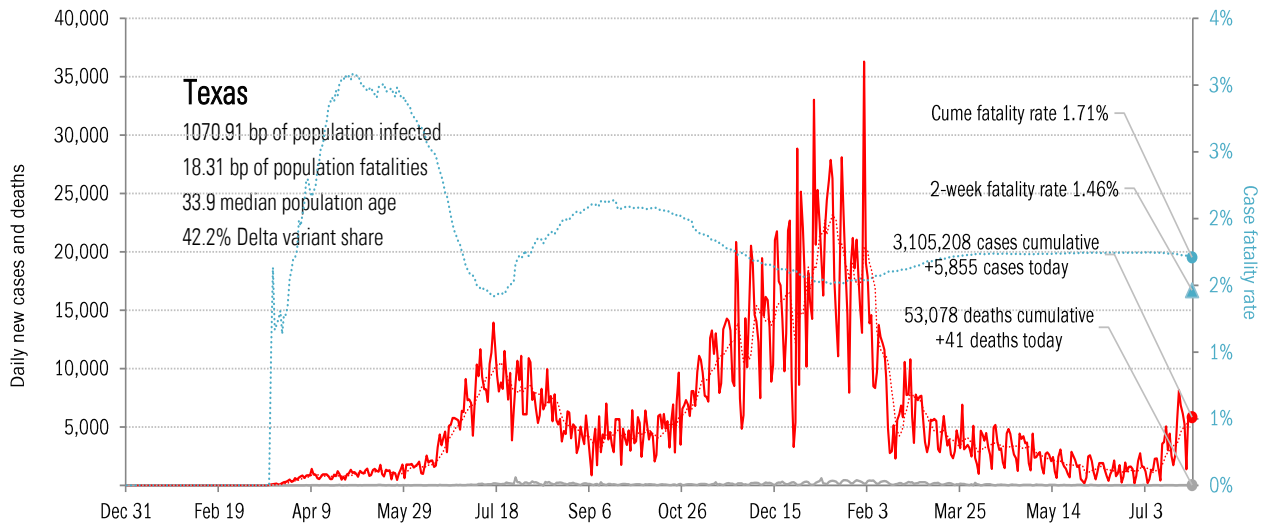
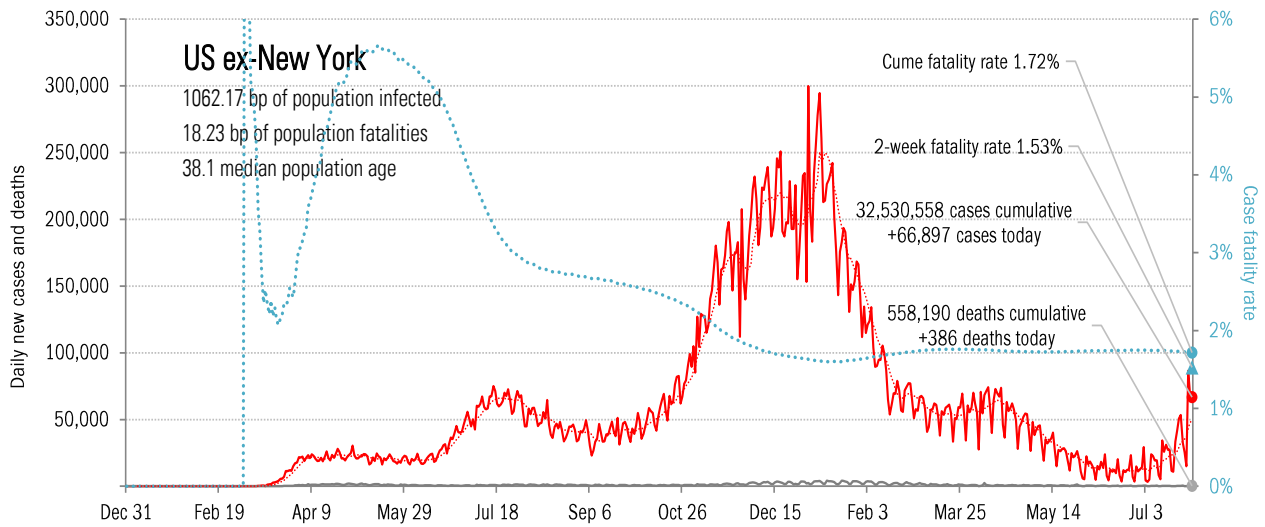
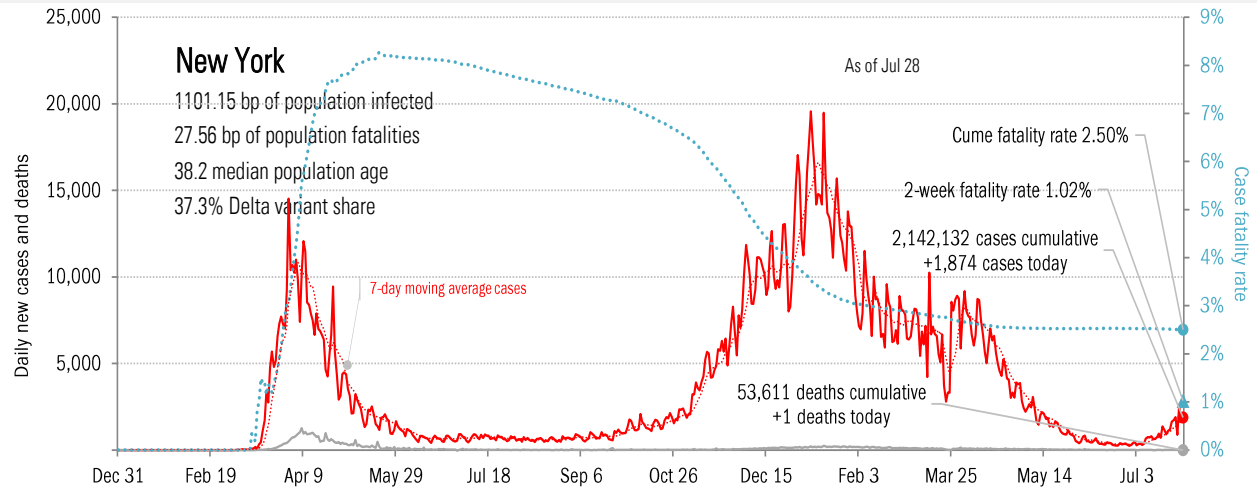
14-day moving average, last 14 days Most recent value displayed ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



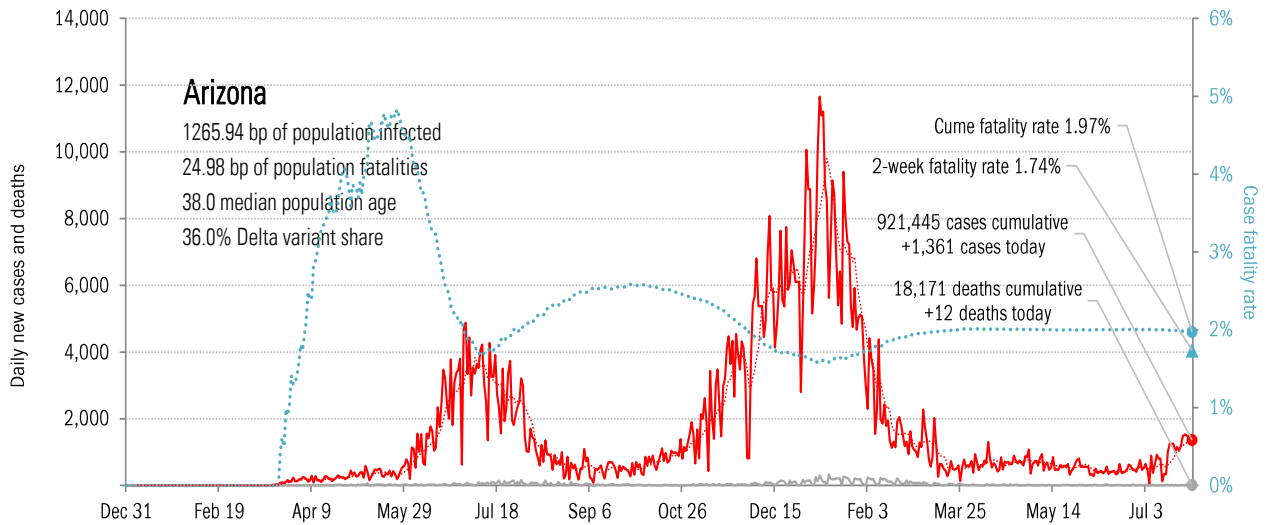
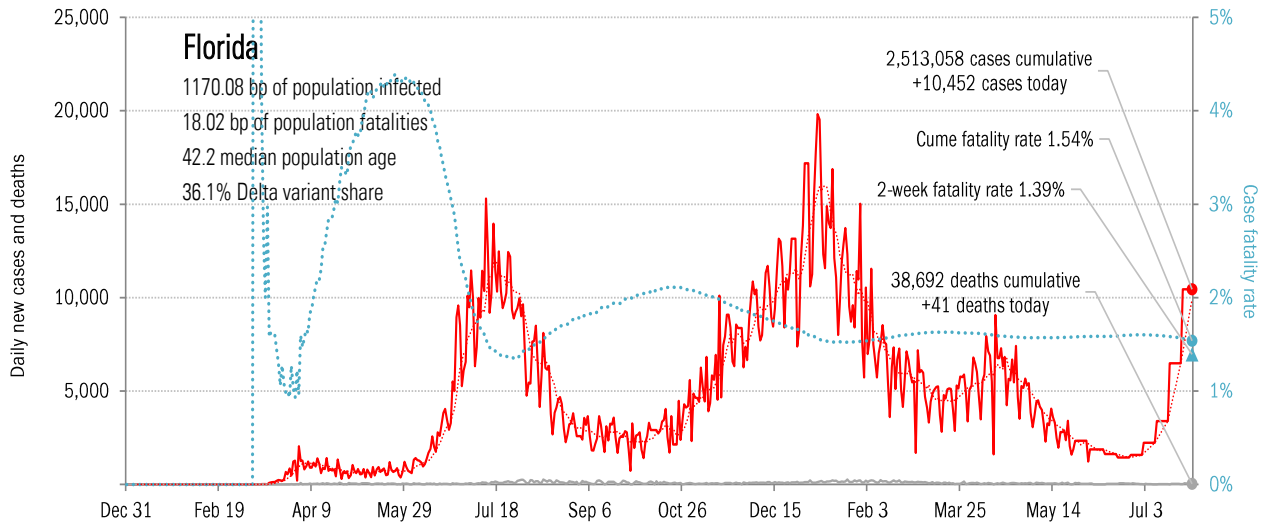
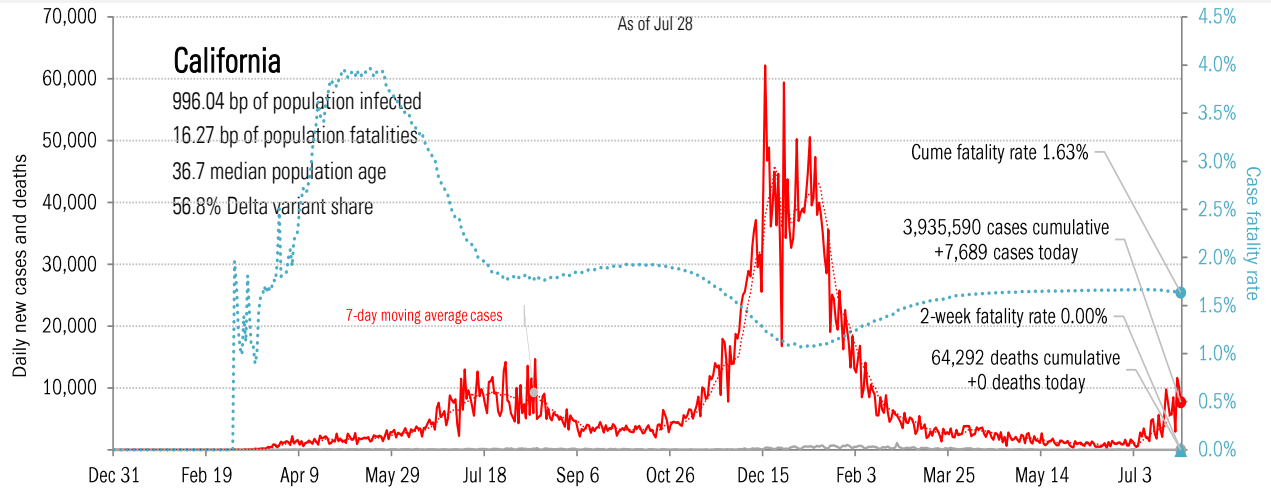
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



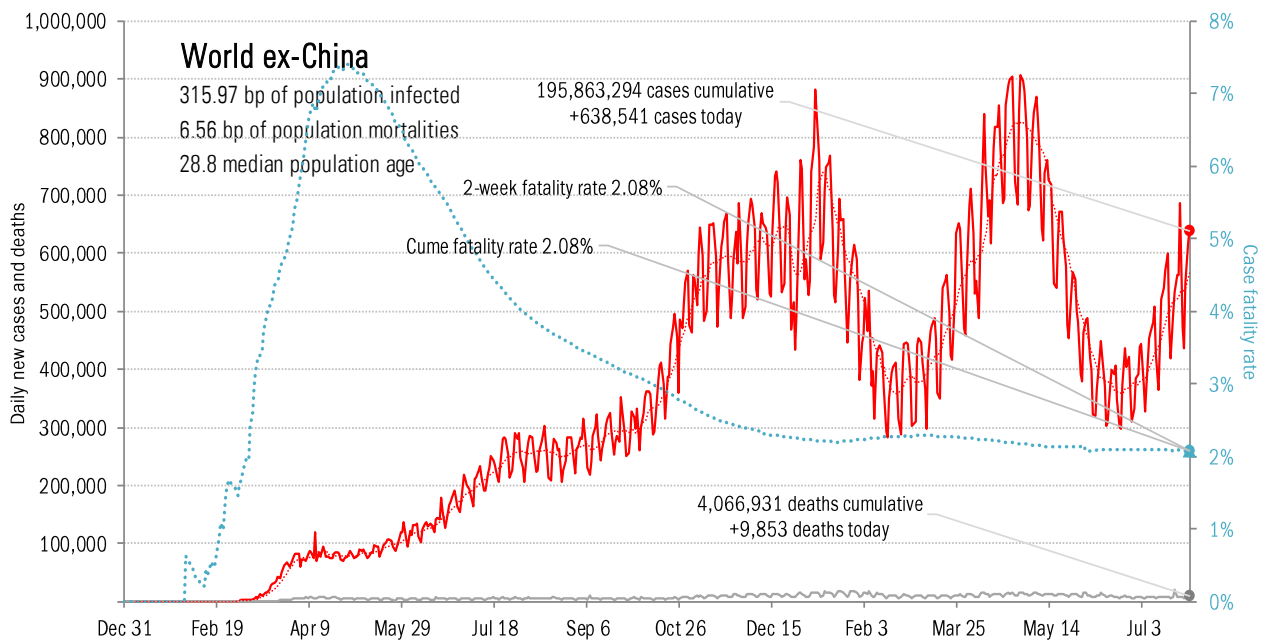
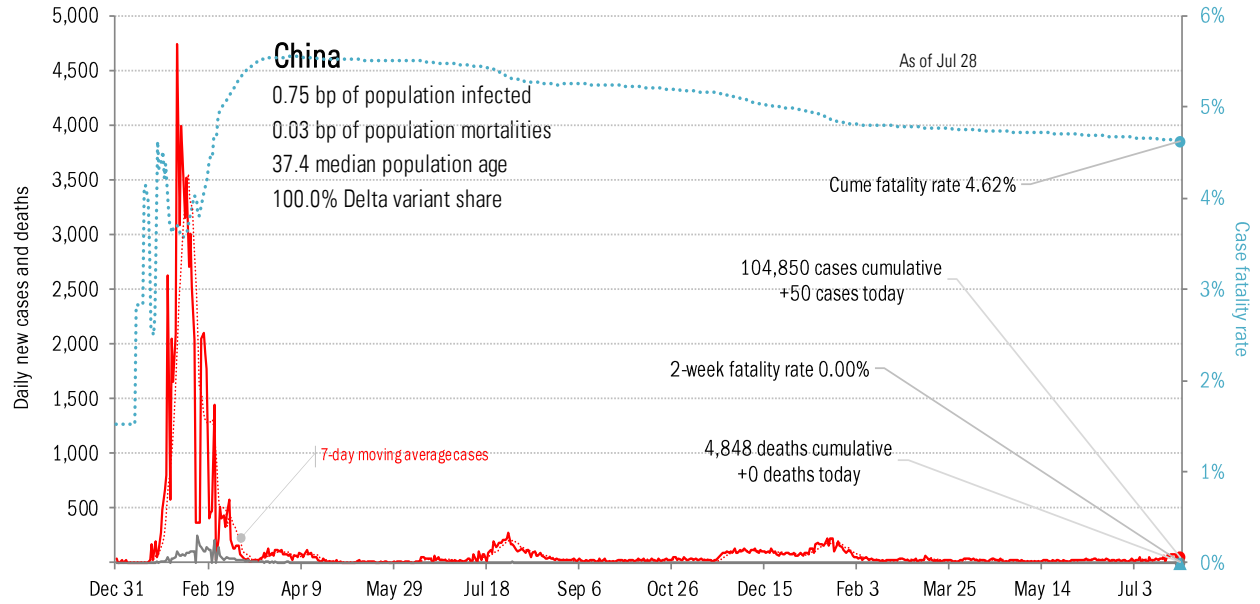
Source: [Johns Hopkins](#), TrendMacro calculations

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



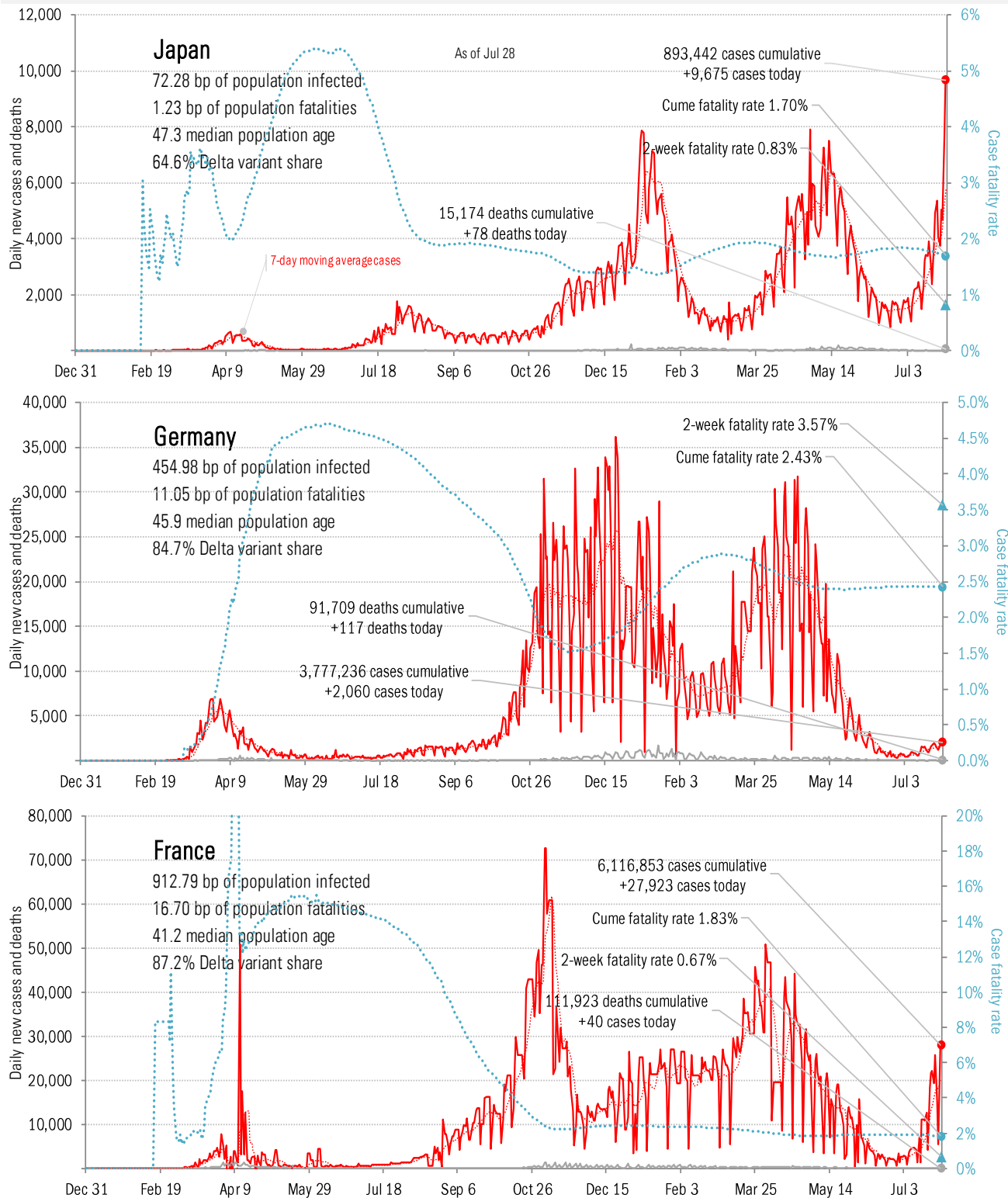
Source: [Johns Hopkins](https://www.jhu.edu/), TrendMacro calculations

Patient zero... and then everyone else



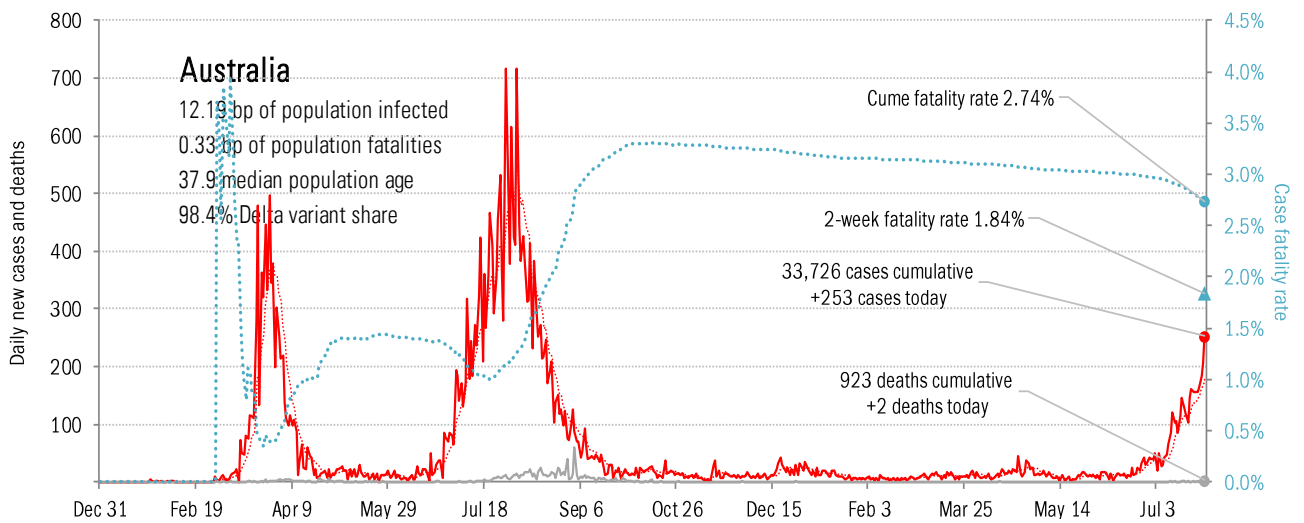
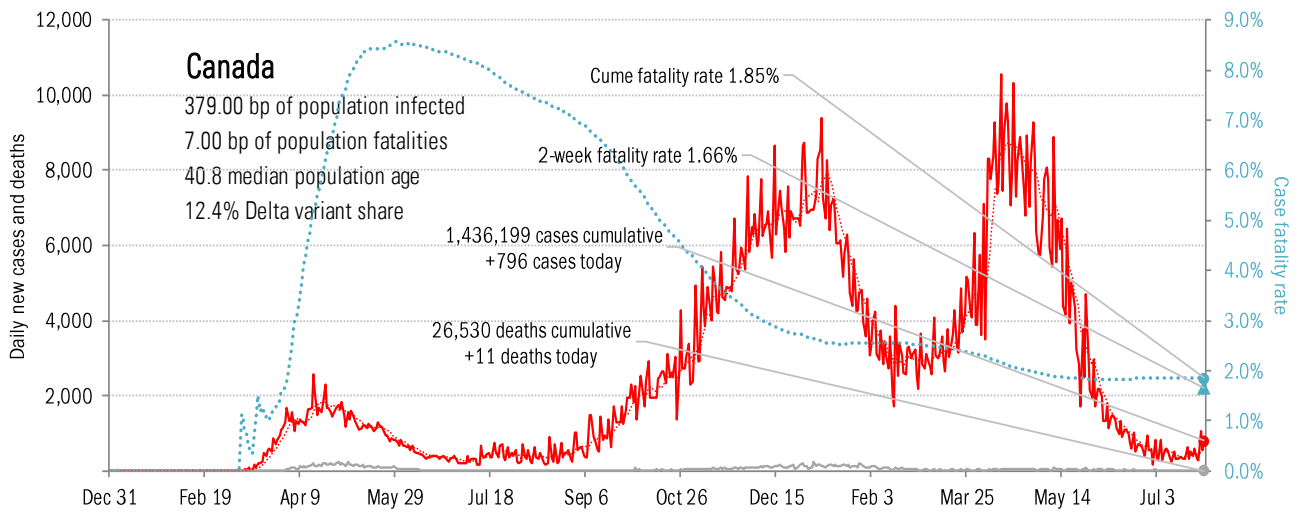
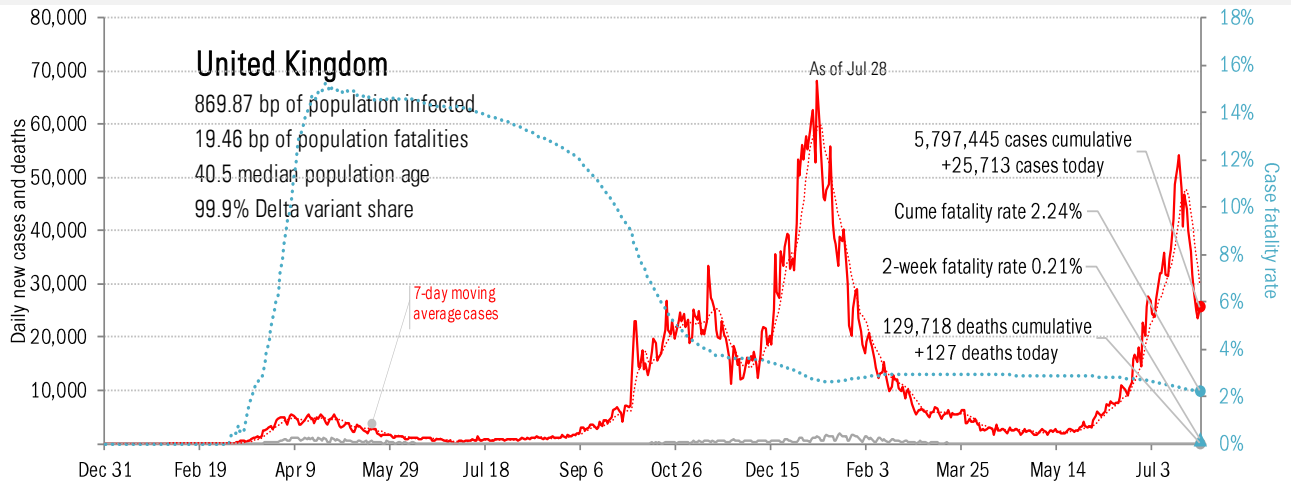
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



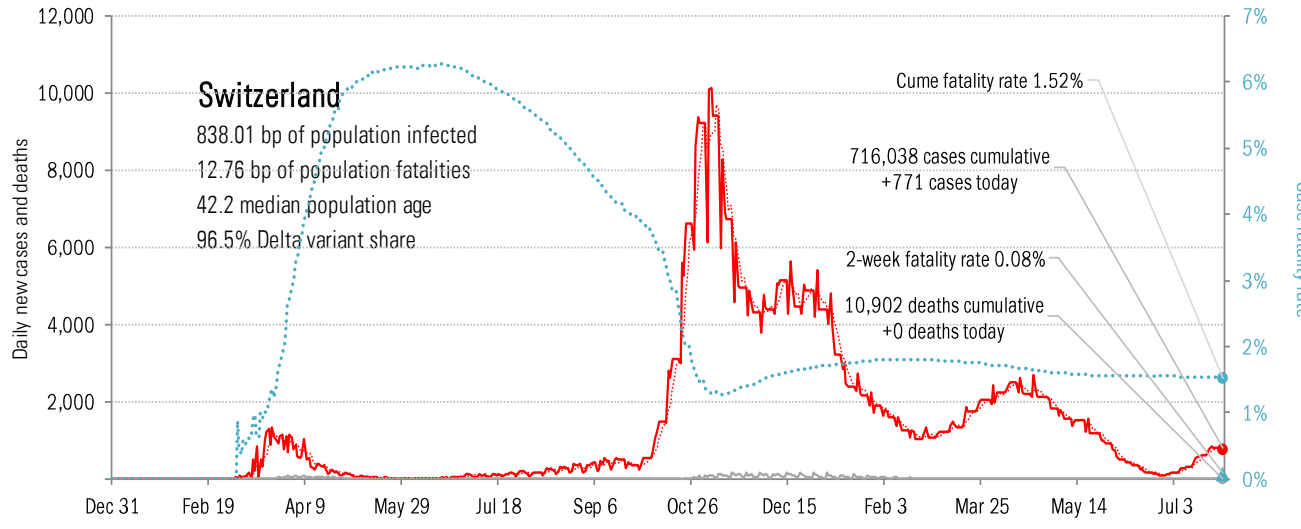
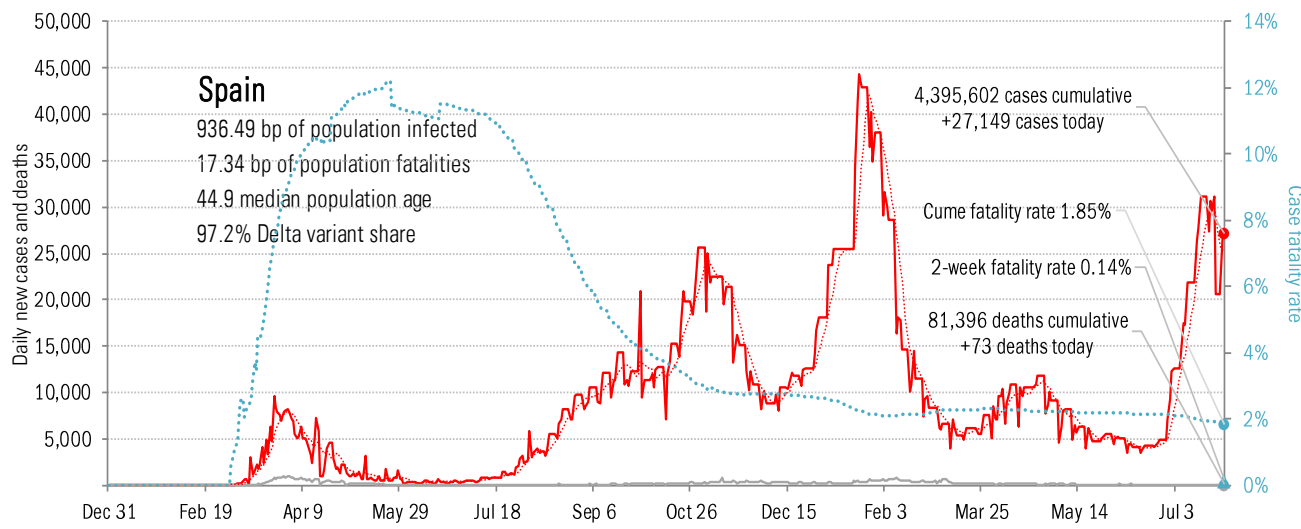
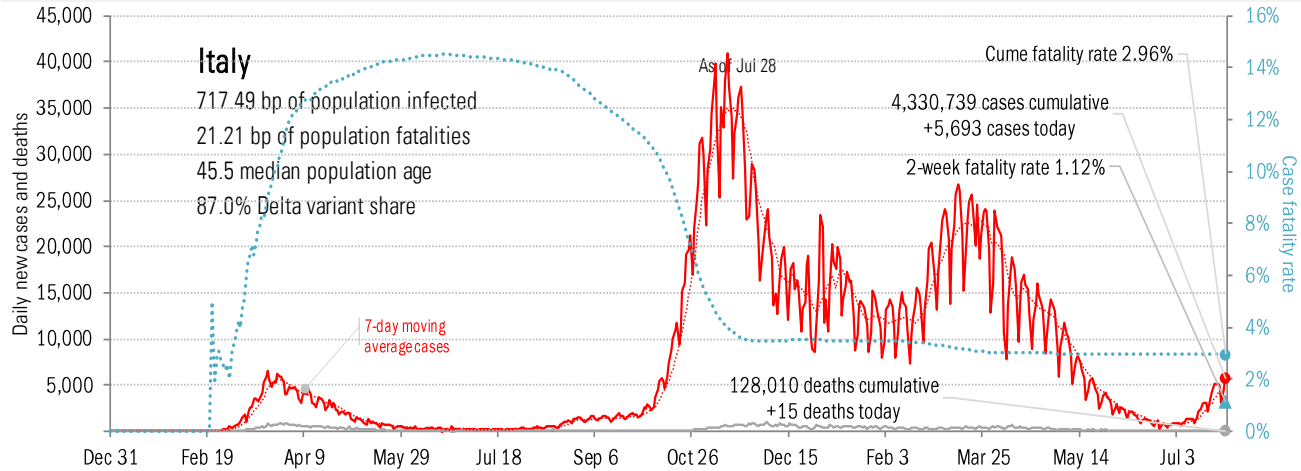
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



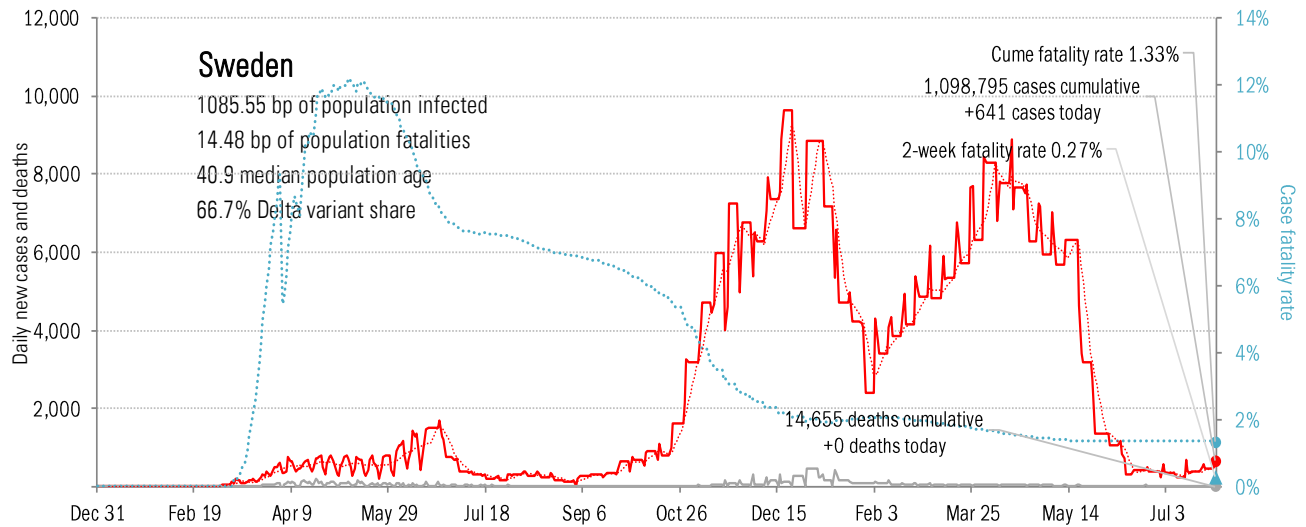
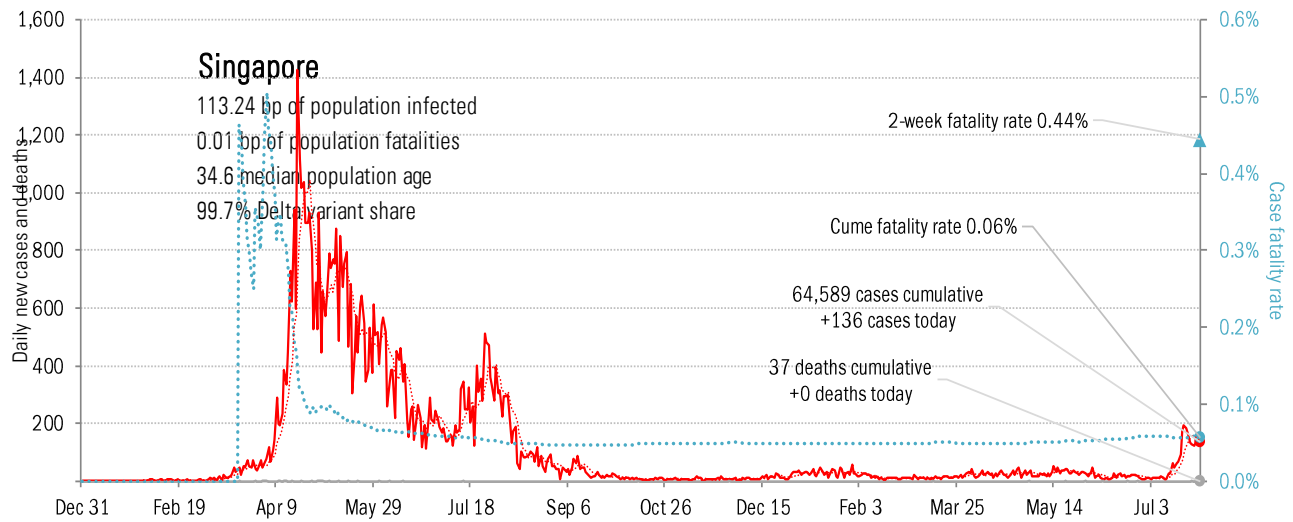
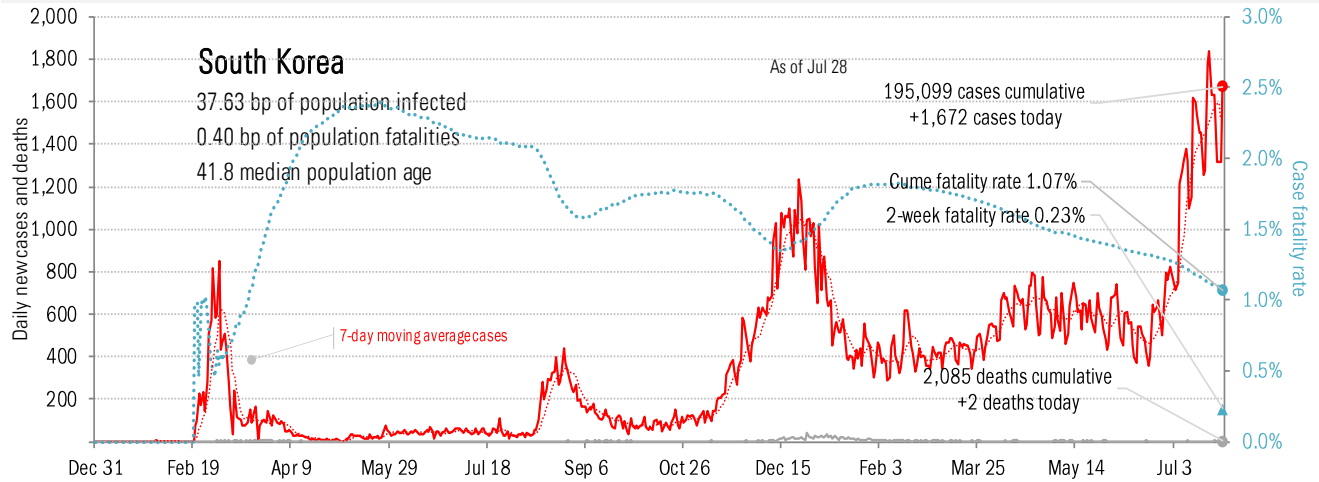
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



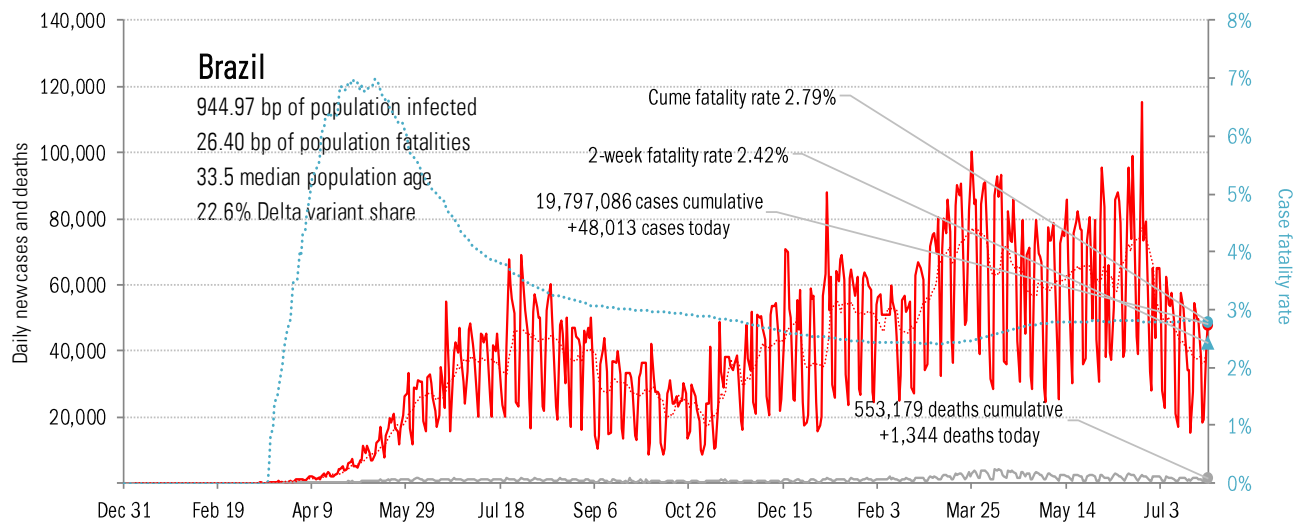
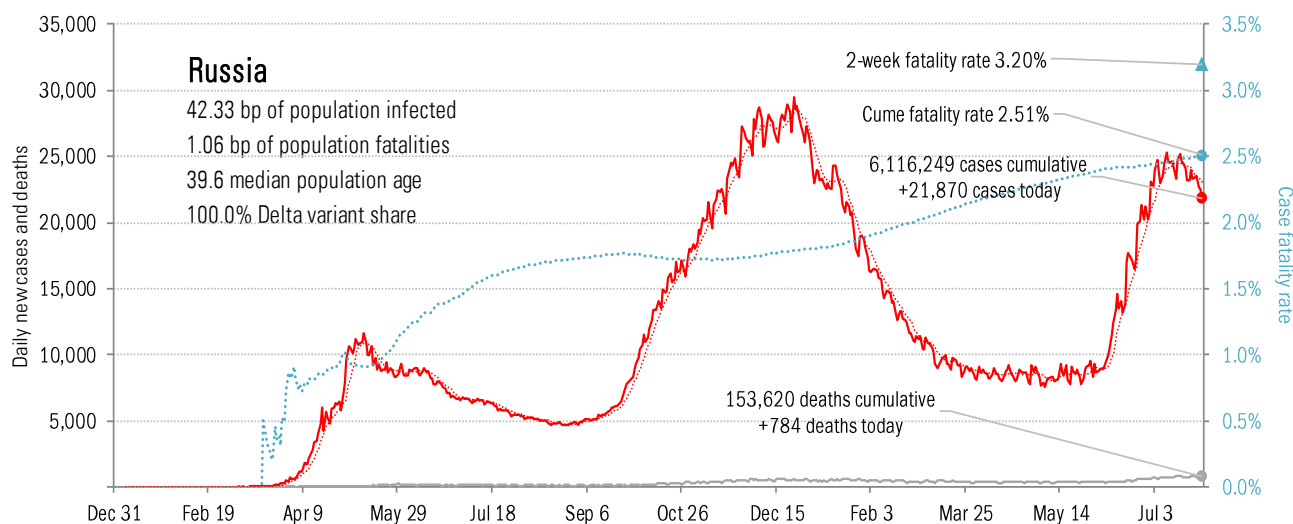
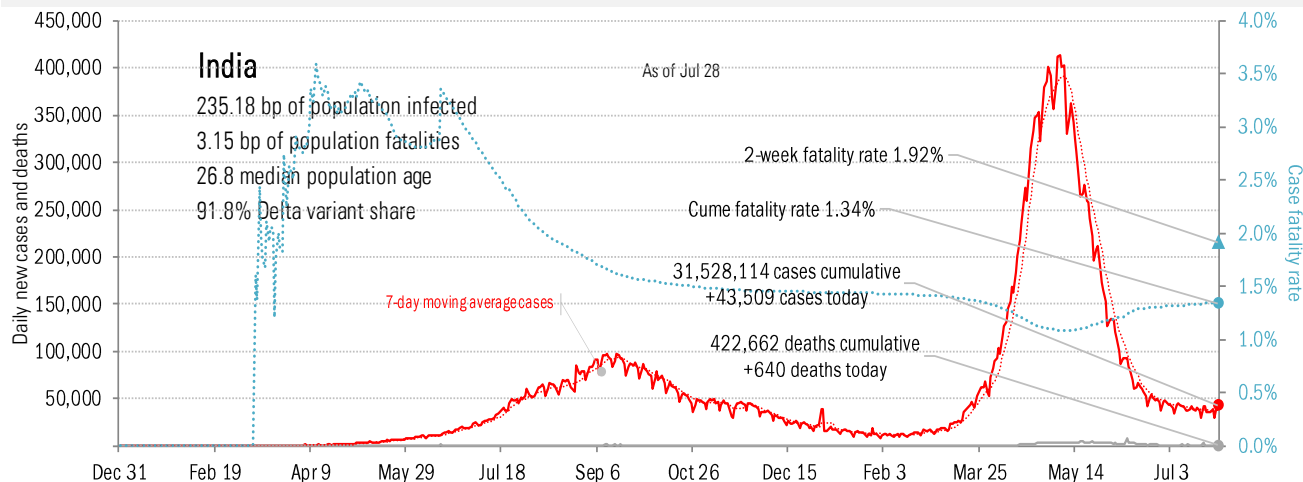
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



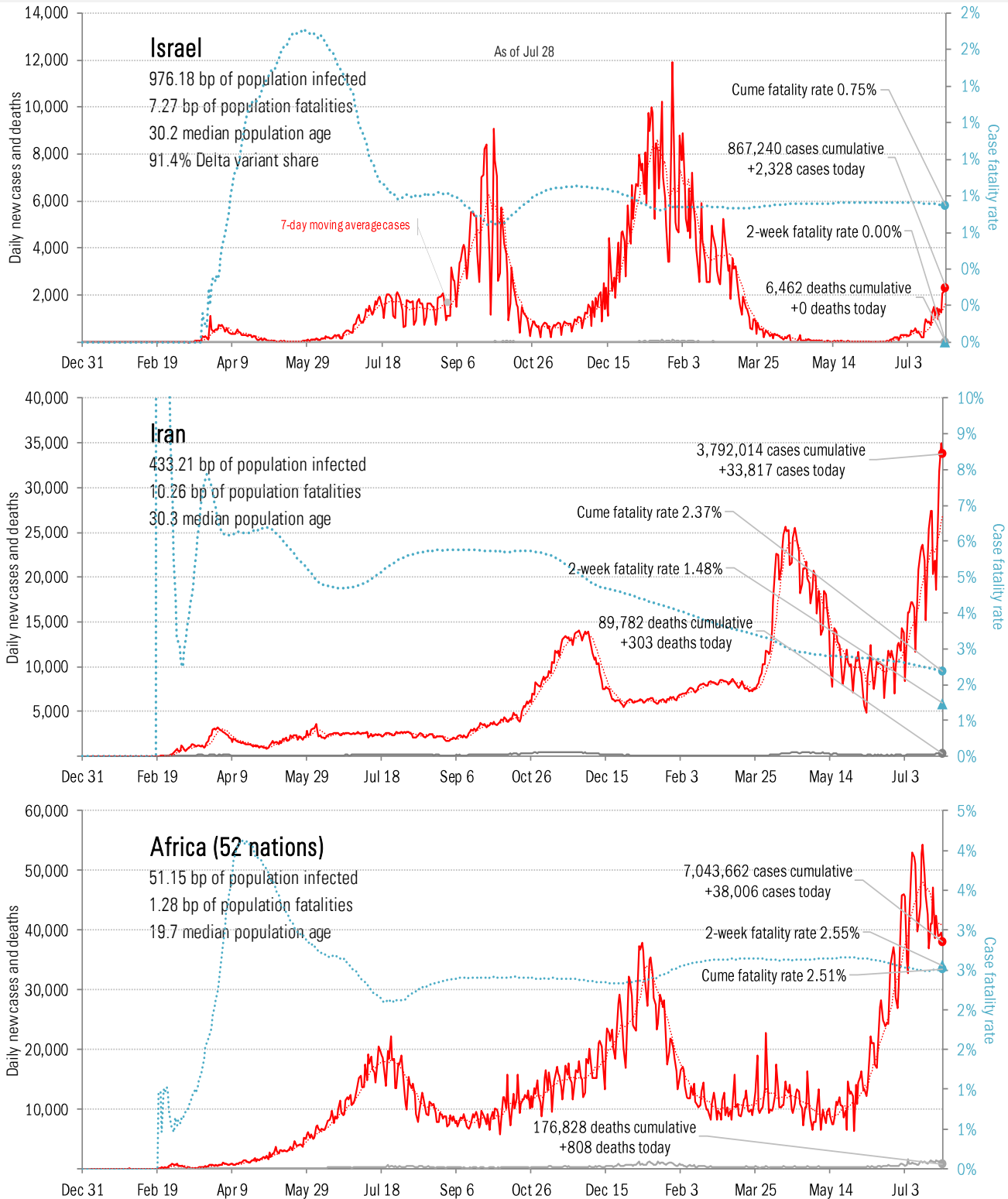
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



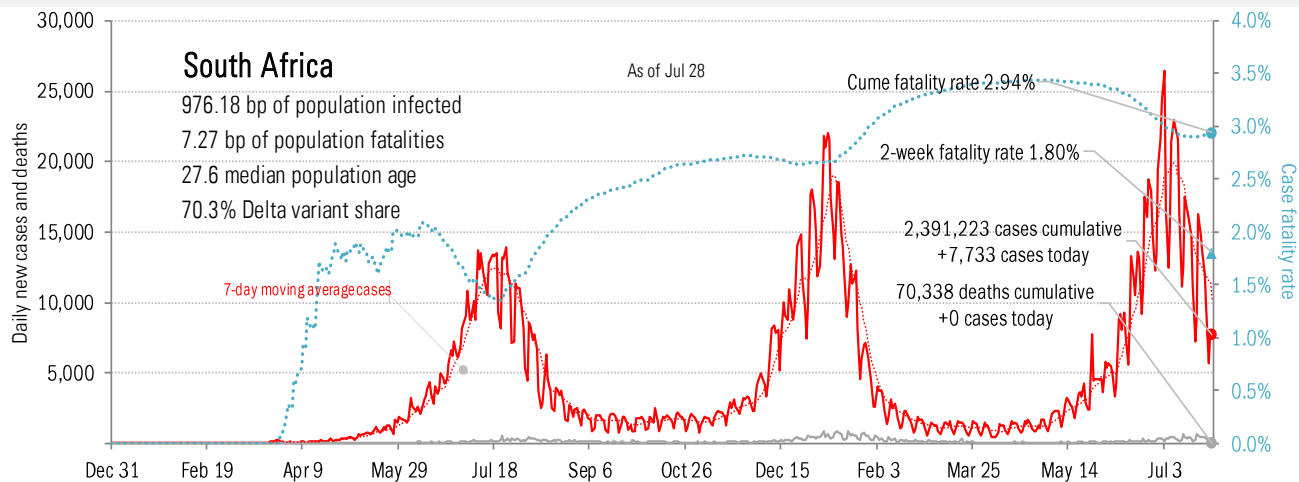
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



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

Impact in Africa, continued



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