

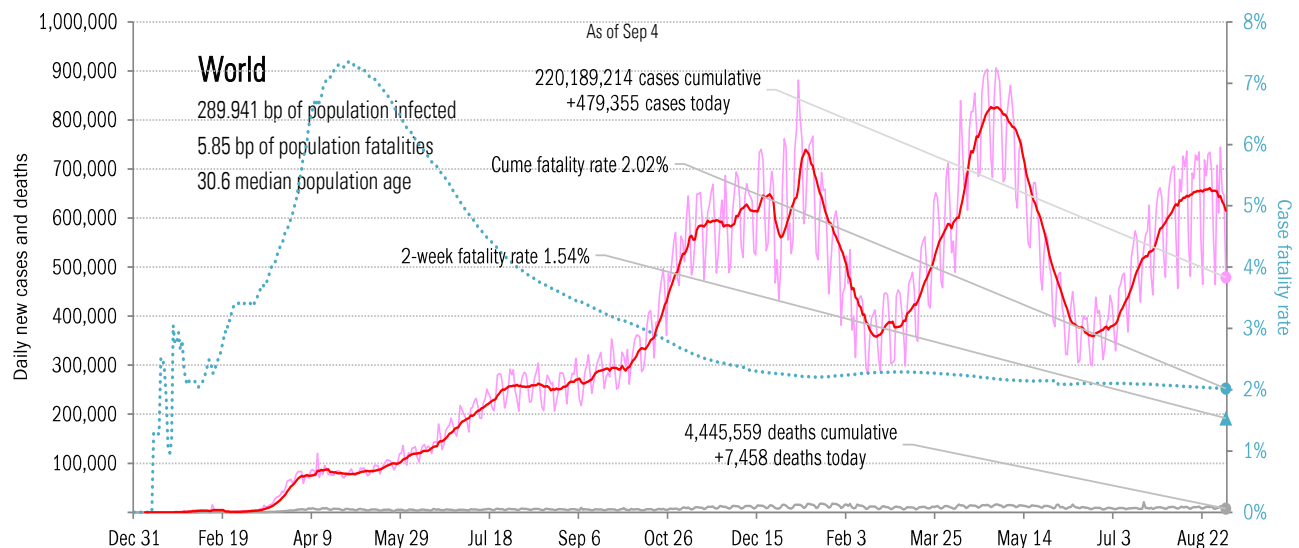
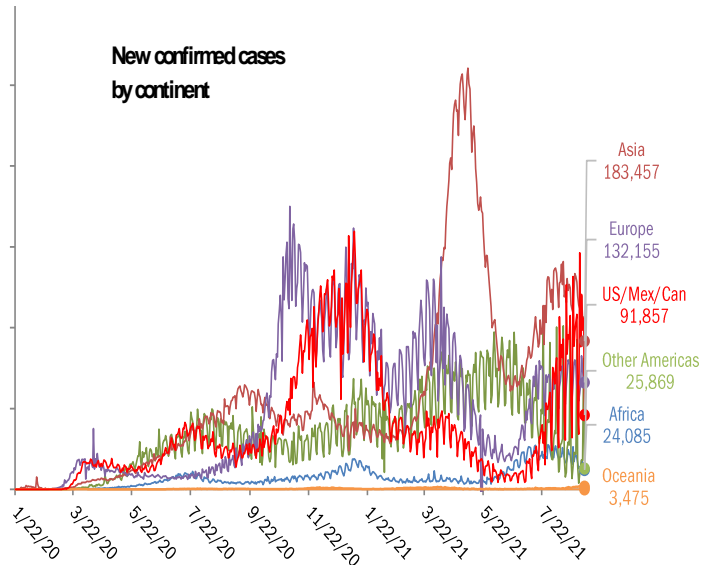
Data Insights: Covid-2019 Monitor

Sunday, September 5, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
	New cases		New Deaths
	United States +74,627	Russia	+776
	India +42,766	Brazil	+692
	United Kingdom +36,725	Mexico	+647
	Brazil +21,804	Indonesia	+539
	Philippines +20,516	United States	+527
	Iran +20,404	Iran	+515
	Malaysia +19,057	Malaysia	+362
	Russia +18,400	Vietnam	+347
	Germany +18,170	India	+308
	Japan +15,999	Thailand	+257
	+288,468		+4,970
	World +479,355	World	+7,458
	Top ten 60%	Top ten	67%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

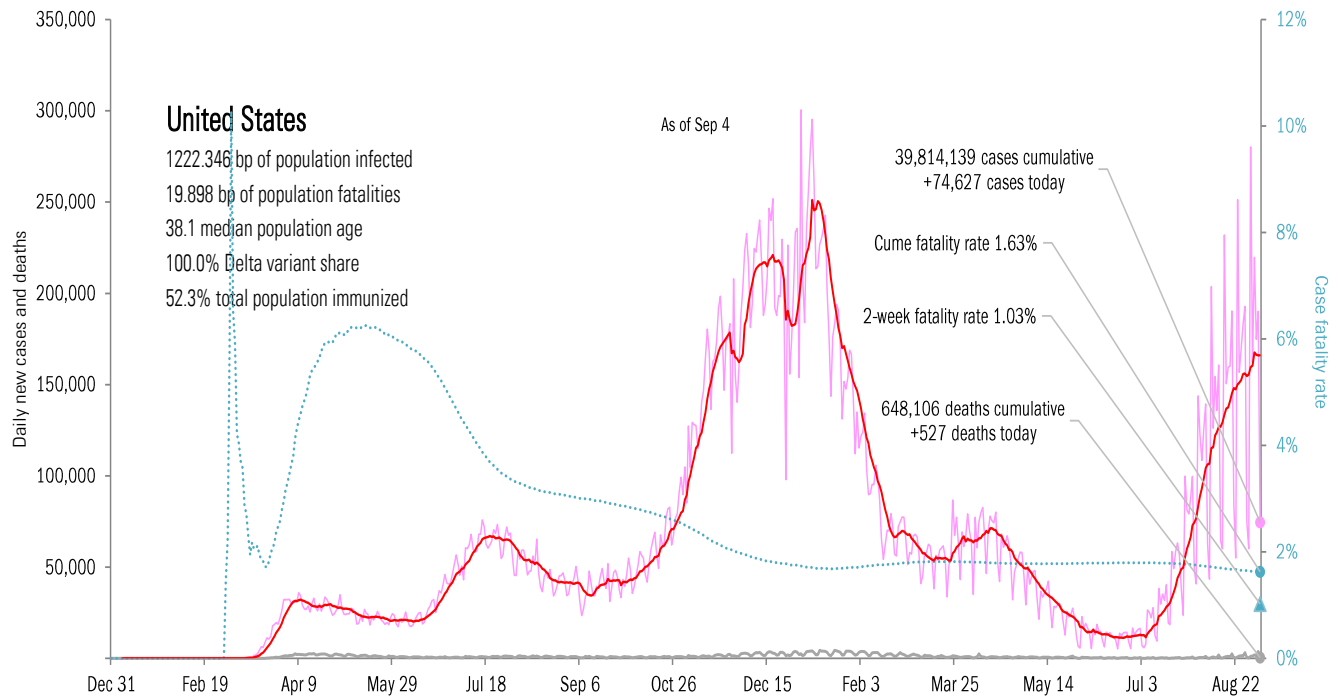
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+18,457		FL	+464		KY	+134		CA	4,411,570		CA	66,383		TX	326,638		GA	89%	AL	105%
TX	+14,522		TX	+277		GA	+100		TX	3,701,024		TX	58,272		FL	283,566		FL	88%	GA	95%
CH	+6,369		CA	+82		CH	+85		FL	3,260,164		NY	54,378		CA	282,176		R	86%	TX	94%
CA	+6,246		AZ	+38		VI	+39		NY	2,297,642		FL	45,071		NY	148,177		MA	86%	MS	91%
AL	+4,420		PA	+26		PA	+38		IL	1,538,324		PA	28,378		GA	138,673		NV	85%	FL	91%
PA	+4,026		AL	+20		NY	+27		GA	1,433,714		NJ	26,942		CH	99,215		MD	85%	AR	91%
NY	+3,676		NY	+17		TX	+22		PA	1,315,748		IL	26,500		PA	99,148		SC	83%	KY	91%
AZ	+3,424		AR	+16		MD	+21		CH	1,247,637		GA	23,120		KY	95,779		MO	83%	NV	90%
MO	+2,530		NJ	+13		AL	+20		NC	1,237,393		MI	21,672		IL	93,761		PA	82%	OK	90%
AR	+2,360		MD	+10		VA	+15		NJ	1,100,774		CH	20,947		MI	78,535		CT	81%	H	90%
+66,030			+963			+501			21,543,990			371,663			1,645,668						
All states	+74,627		+991			-161			All states	39,814,139		648,106			2,911,812			All states	70%	67%	
Top ten	88%		97%			-311%			Top ten	54%		57%			57%			Median	77%	79%	

Some states not reporting

Five most improved US states

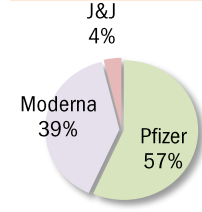
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
GA	-12,018	FL	-163	TN	-119	AL	+30 bp
TX	-10,739	GA	-114	WA	-73	AR	+30 bp
NC	-8,590	NC	-83	NV	-57	DC	+30 bp
TN	-6,698	CH	-81	NC	-54	LA	+30 bp
SC	-6,221	TN	-75	IL	-53	MO	+30 bp



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	384,978,680		+1.013 million		US	52.3%	61.5%	
	One dose	% Pop	Immune	% pop	New immune today	UK	63.4%	70.7%
Total population	211,905,338	63%	180,441,966	54%	+0.441 million	France	60.6%	72.2%
Age 12 to 17	12,746,743	54%	9,816,333	41%	+0.074 million	Spain	72.6%	78.5%
Age 18 to 64	145,962,936	72%	123,345,755	61%	+0.317 million	Germany	60.5%	65.0%
Age 65 and over	52,167,655	95%	46,441,345	85%	+0.048 million	Italy	61.9%	71.4%
						Australia	30.0%	50.0%
						Israel	62.7%	68.4%
						Canada	67.4%	73.8%
						Japan	47.3%	58.3%
						Africa	2.9%	5.2%
						India	11.3%	37.4%
						Brazil	30.7%	64.5%
						China	61.6%	74.3%



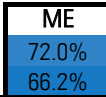
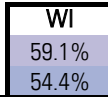
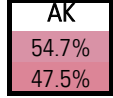
State
At least partial immunity as % population
Full immunity as % population



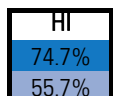
Every American >18 immune in **102 days** by Dec 15, 2021
 65.7% of population >18 immunized
 13.6% previously tested positive
79.3% vs 60% adult herd immunity

As of Sep 4

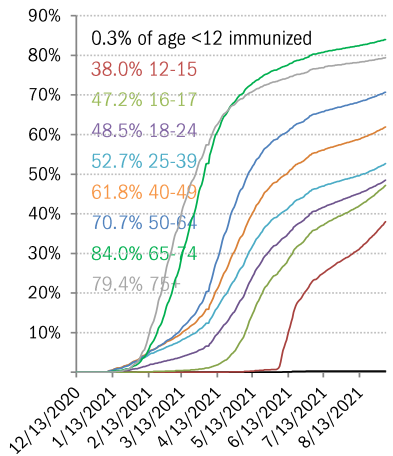
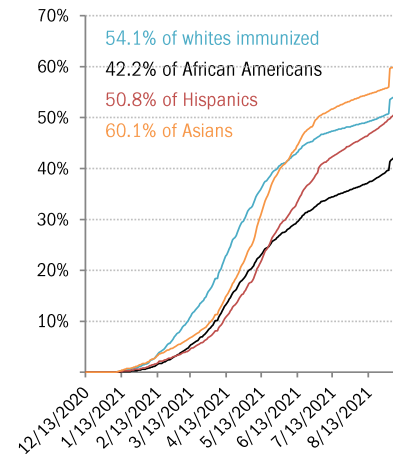
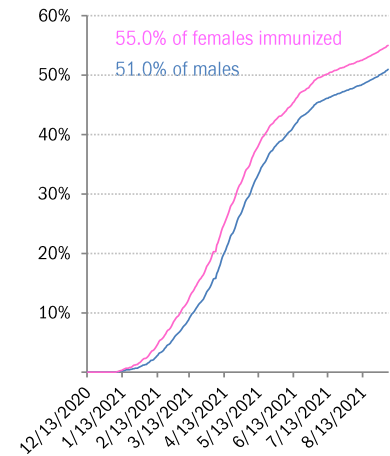
Global data differs from sources, timing



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.4%	44.7%	52.6%	48.8%	62.2%	66.4%	55.5%	68.0%	76.4%	67.7%	
60.6%	39.5%	46.3%	42.1%	56.3%	51.6%	50.8%	60.7%	68.1%	60.1%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
64.5%	58.5%	45.9%	56.9%	56.6%	50.6%	52.8%	69.9%	70.4%	75.7%	
58.5%	48.3%	39.3%	49.6%	52.1%	46.6%	48.7%	55.6%	62.0%	66.3%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
69.4%	56.9%	63.8%	57.8%	53.2%	57.8%	47.3%	65.8%	68.6%	74.1%	72.2%
56.3%	48.1%	57.3%	52.4%	45.7%	49.1%	39.8%	57.7%	61.9%	66.4%	65.3%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
57.3%	70.6%	57.8%	53.8%	50.2%	56.4%	52.3%	68.1%	64.5%		
49.0%	60.6%	48.8%	42.5%	42.4%	46.9%	43.9%	57.8%	55.8%		
OK	LA	MS	AL	GA						
54.0%	50.0%	47.7%	50.5%	52.0%						
44.5%	42.3%	39.6%	39.1%	42.1%						
TX										
57.6%										
48.1%										
							FL		PR	
							64.4%		75.2%	
							53.8%		63.9%	



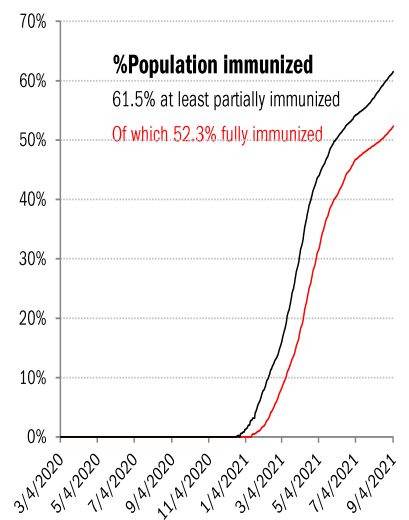
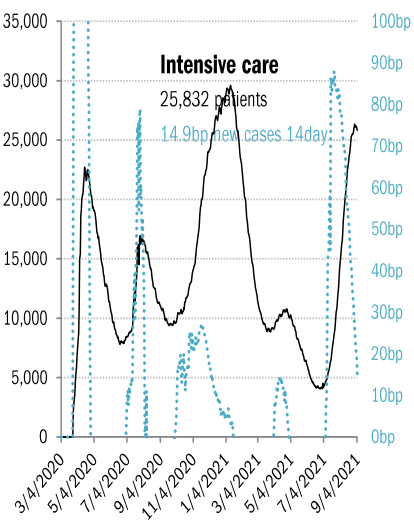
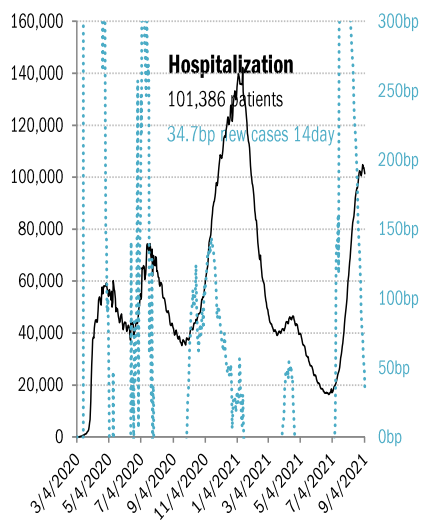
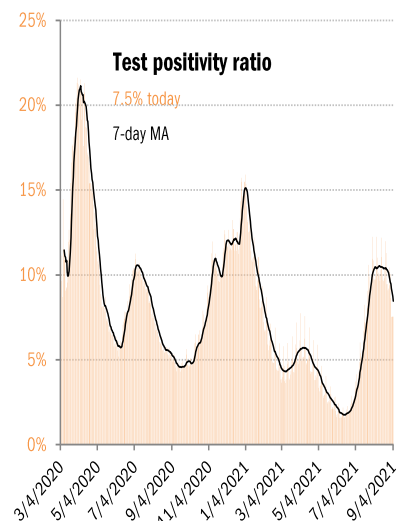
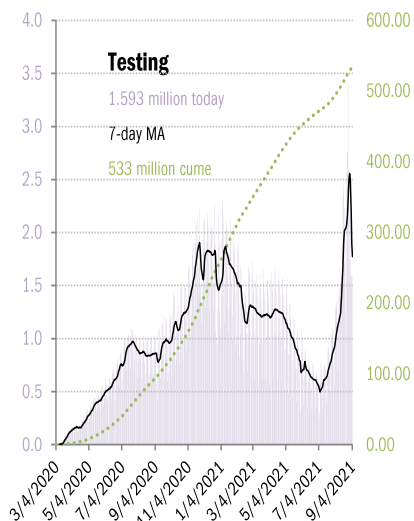
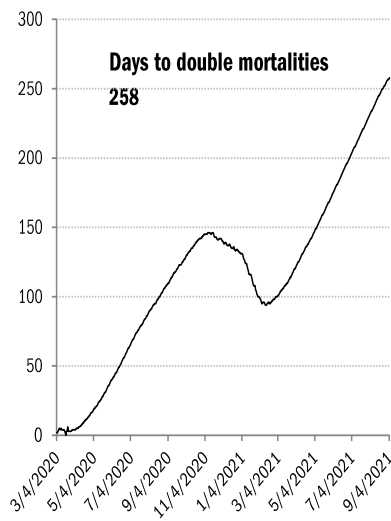
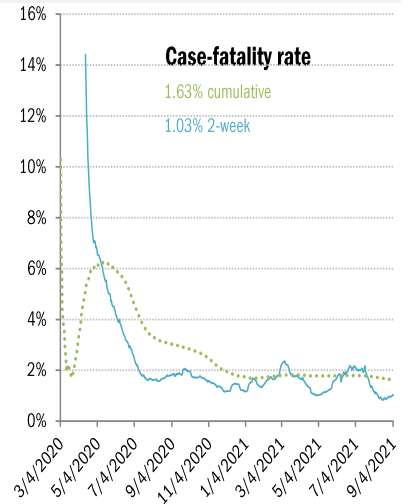
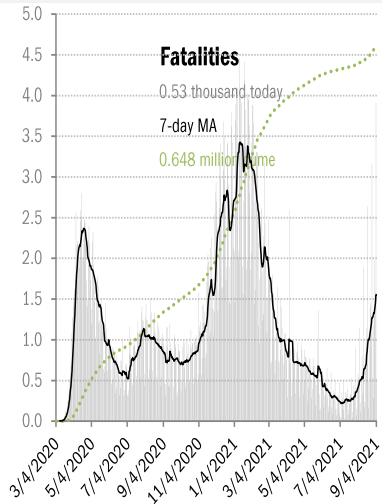
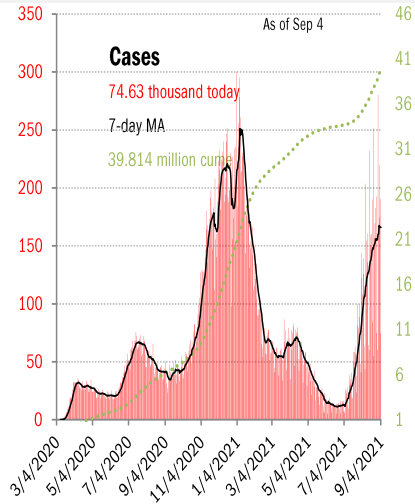
The demographics of US vaccination



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

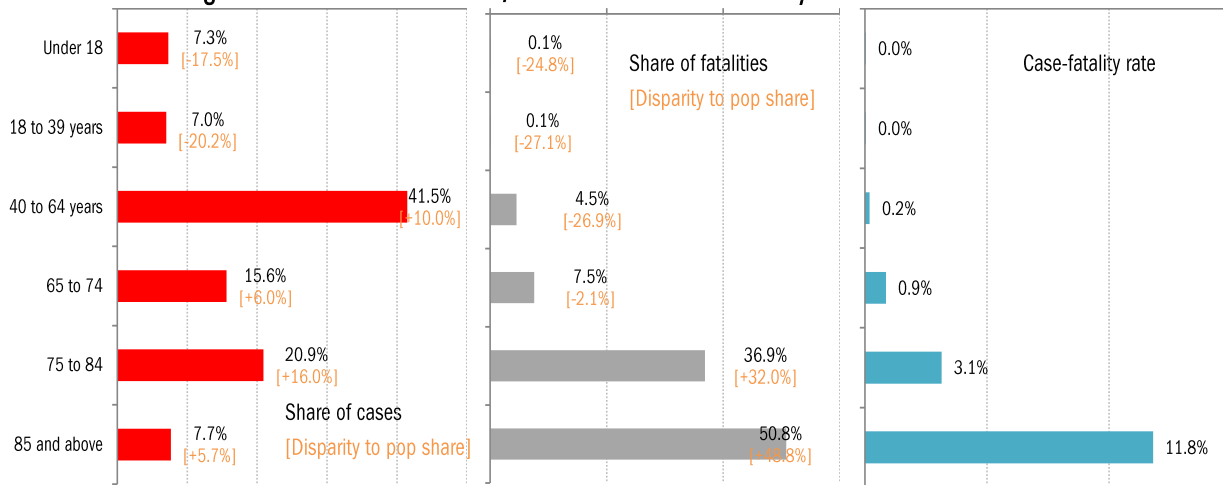
US deep-dive

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

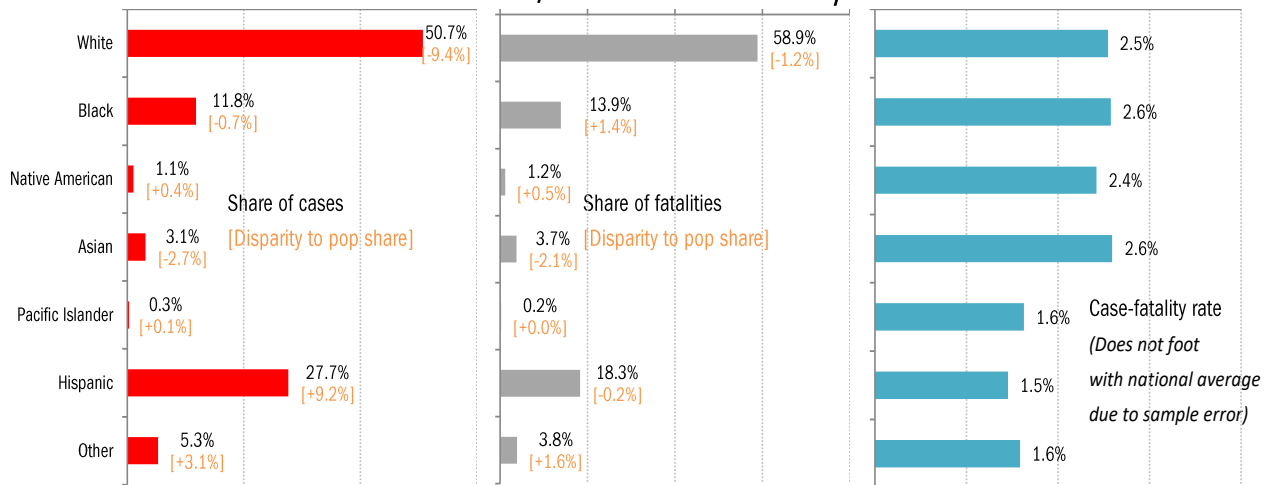


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

Age distribution of US cases, fatalities and case-fatality rates Cumulative

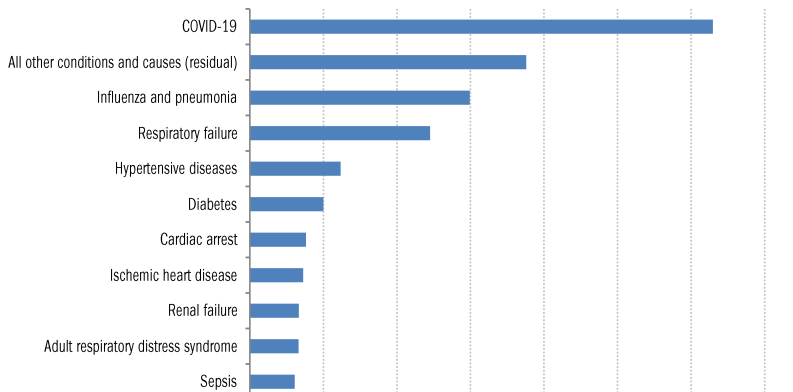


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Aug 29

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

[American Pandemic Preparedness: Transforming Our Capabilities](#)

The White House
September 3, 2021

[FACT SHEET: Biden Administration to Transform Capabilities for Pandemic Preparedness](#)

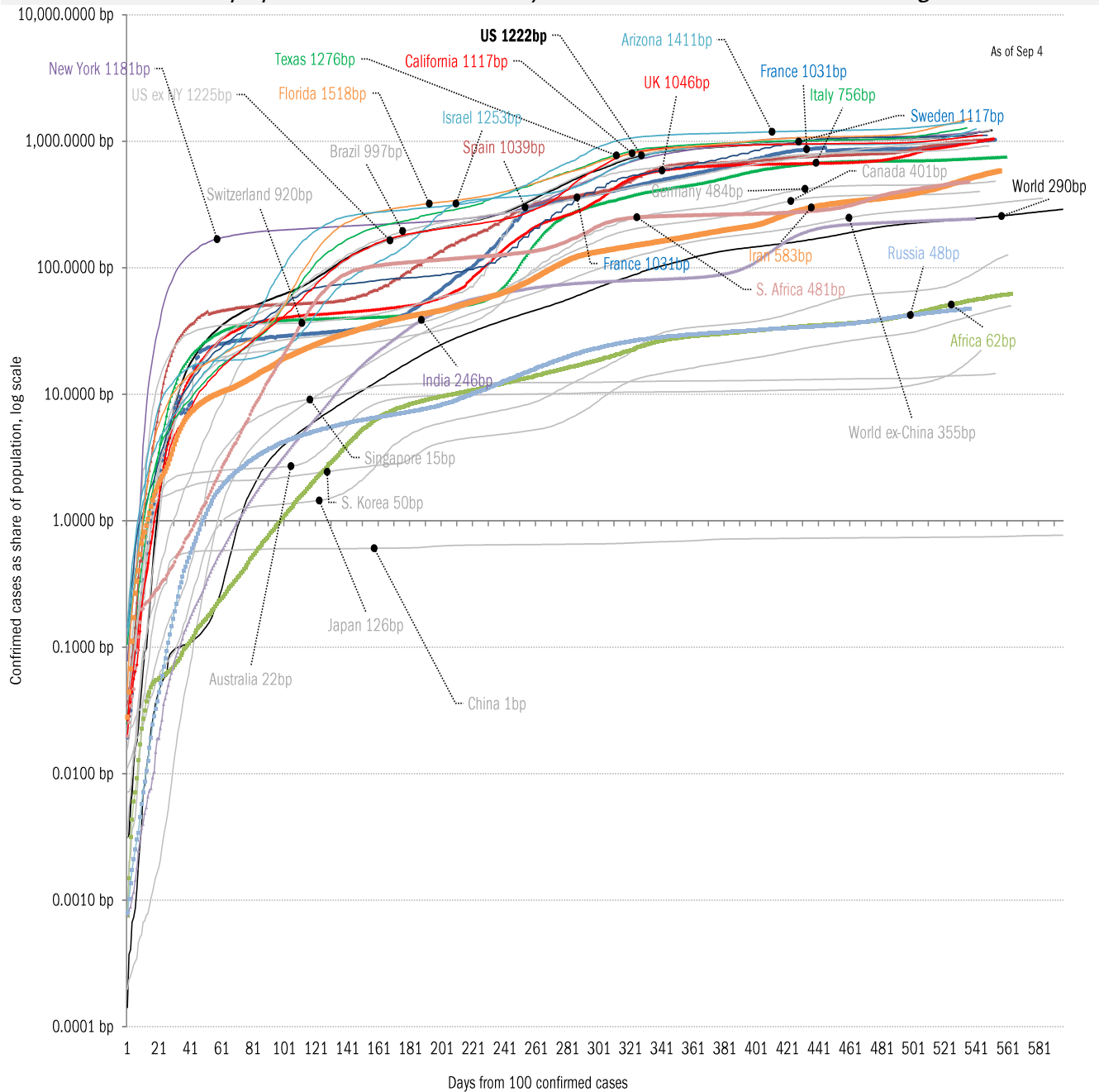
The White House
September 3, 2021

Meme of the day



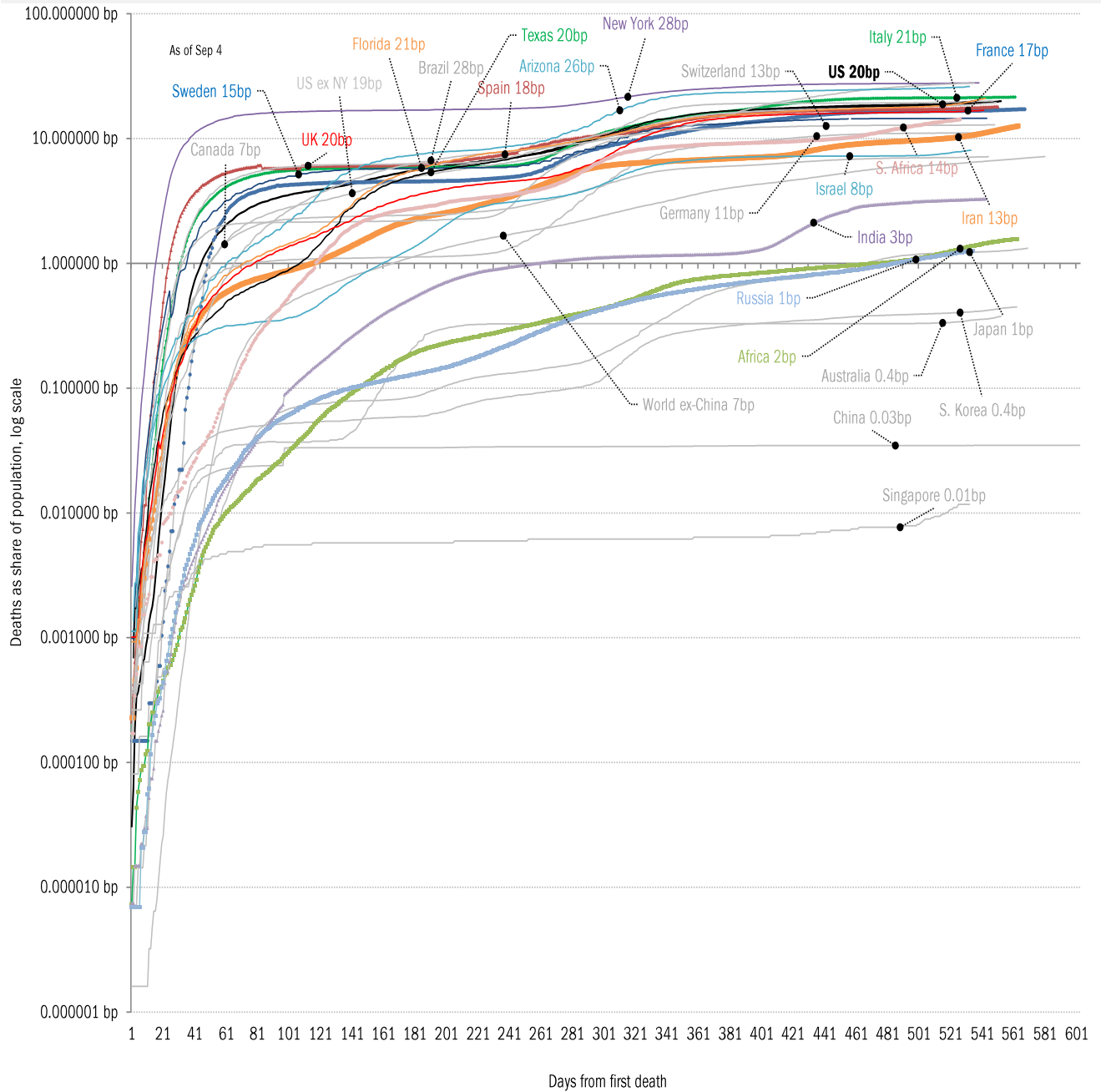
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

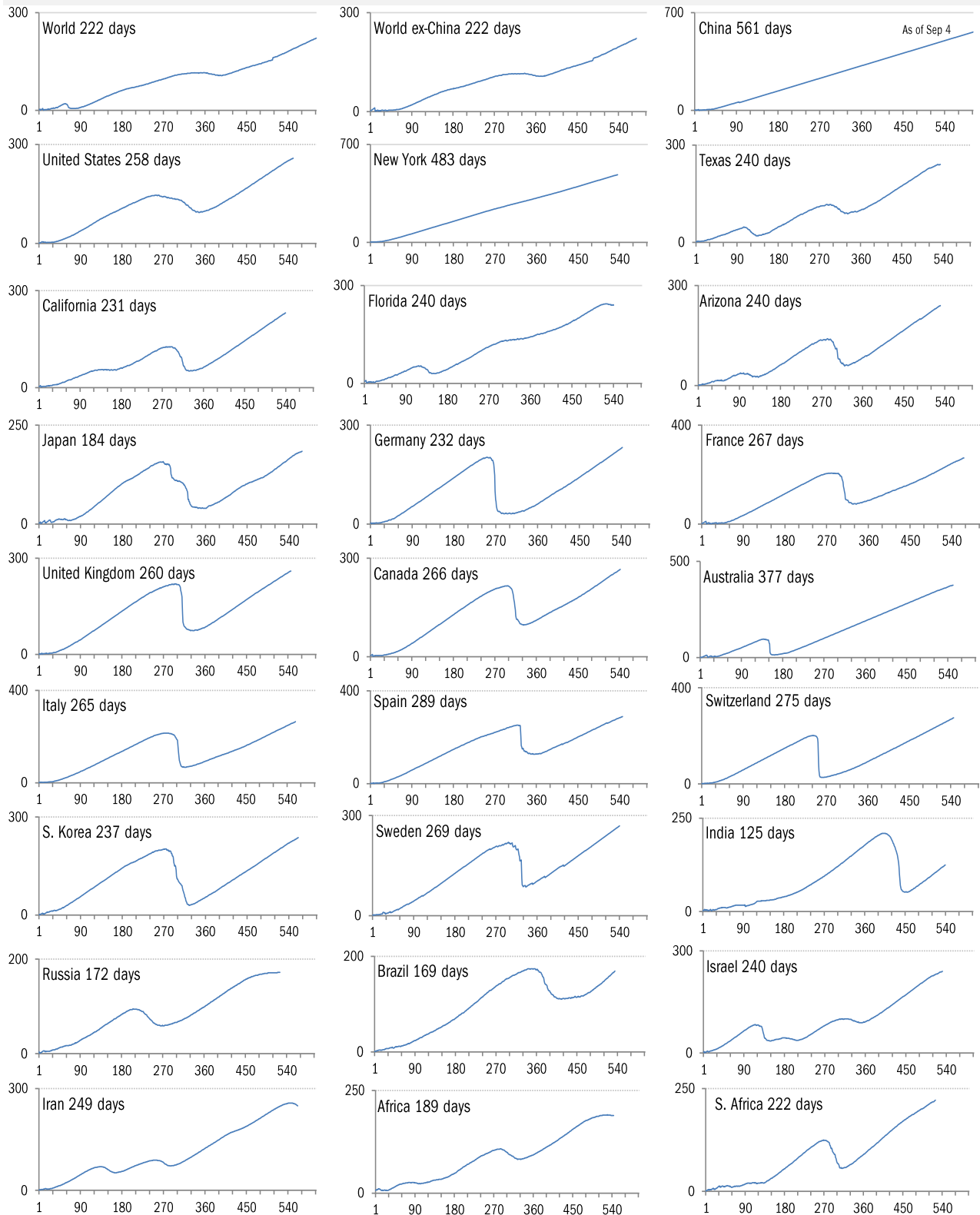


Source: [Johns Hopkins](#), TrendMacro calculations

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

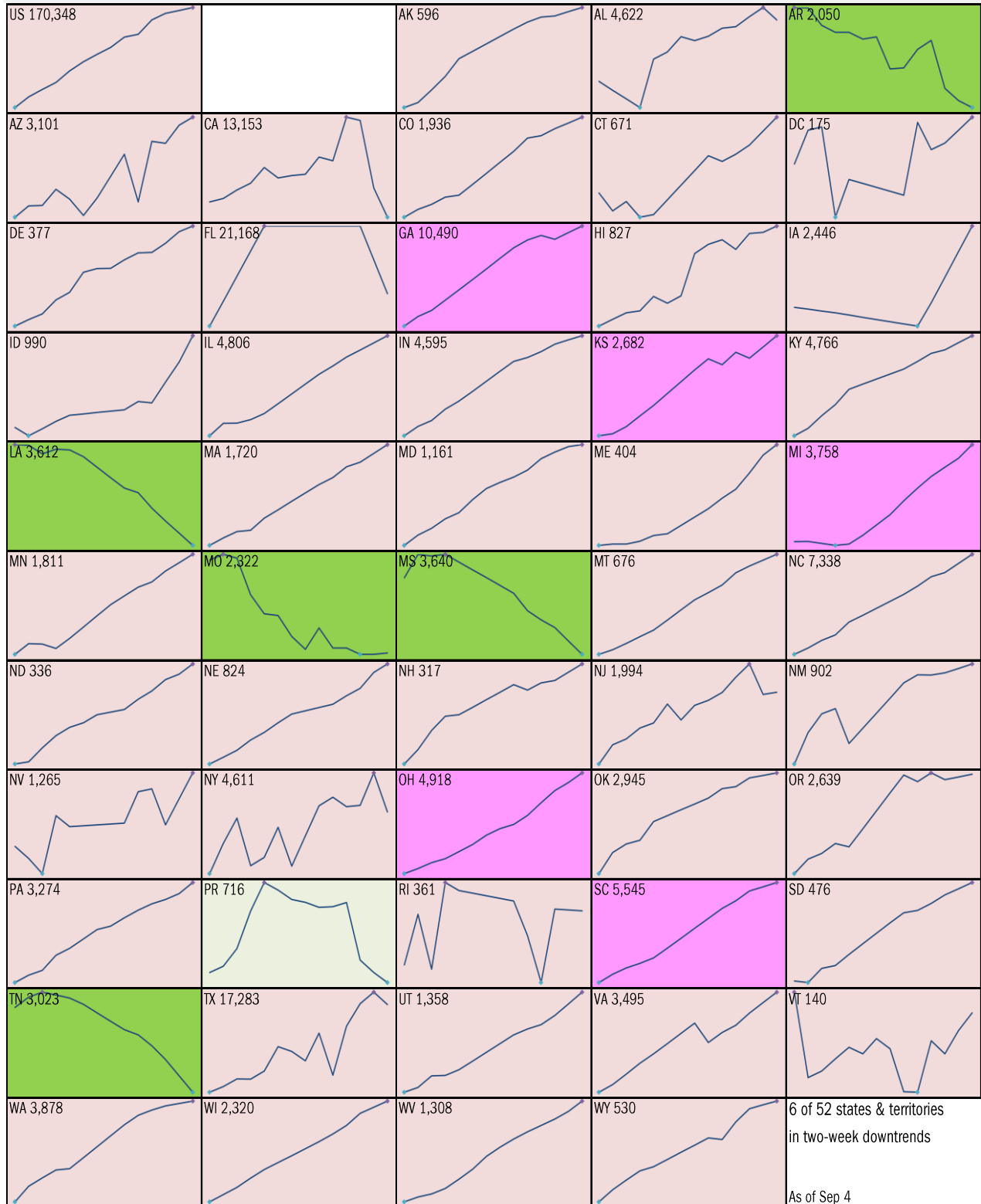


Source: [Johns Hopkins](#), TrendMacro calculations

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

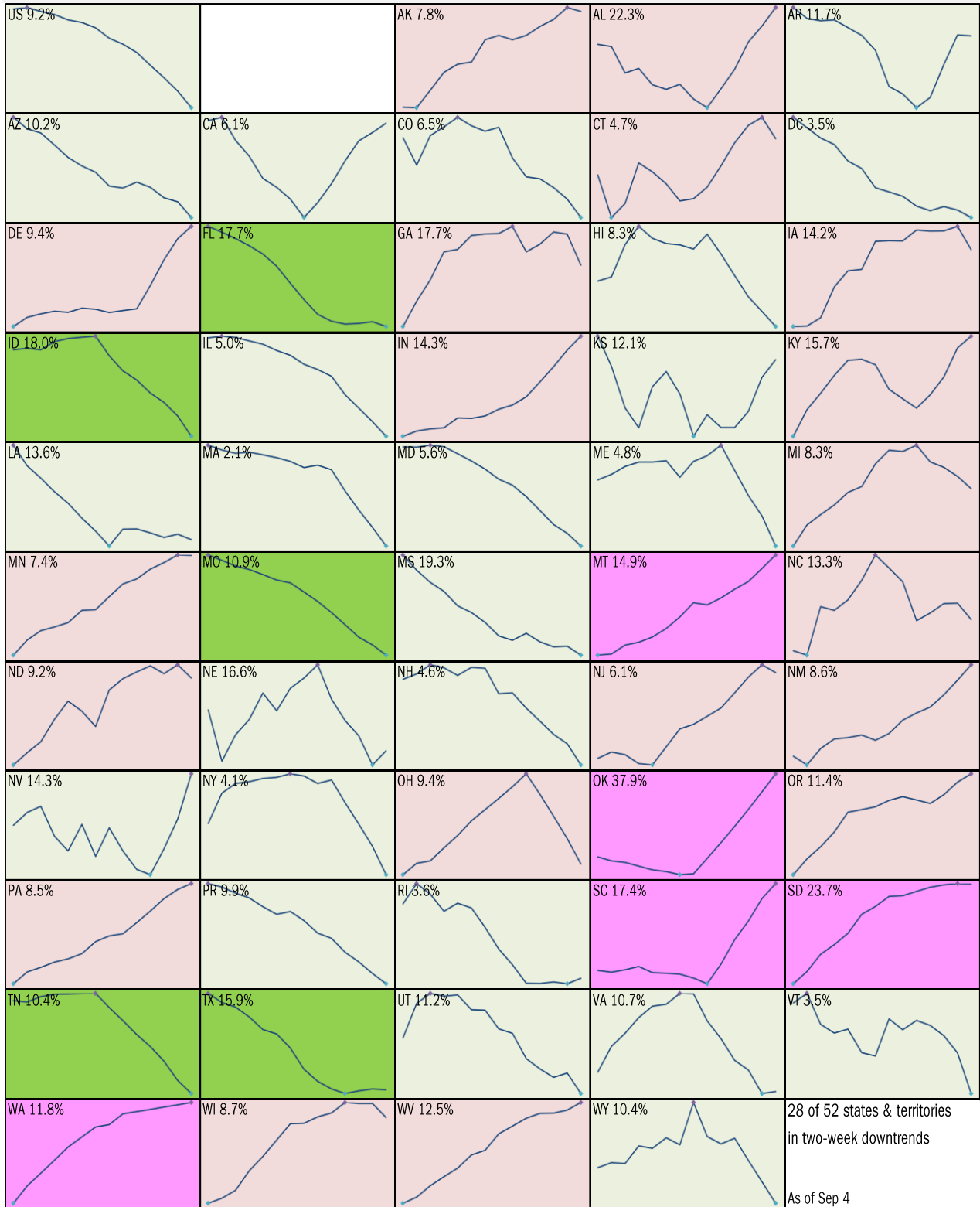
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

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

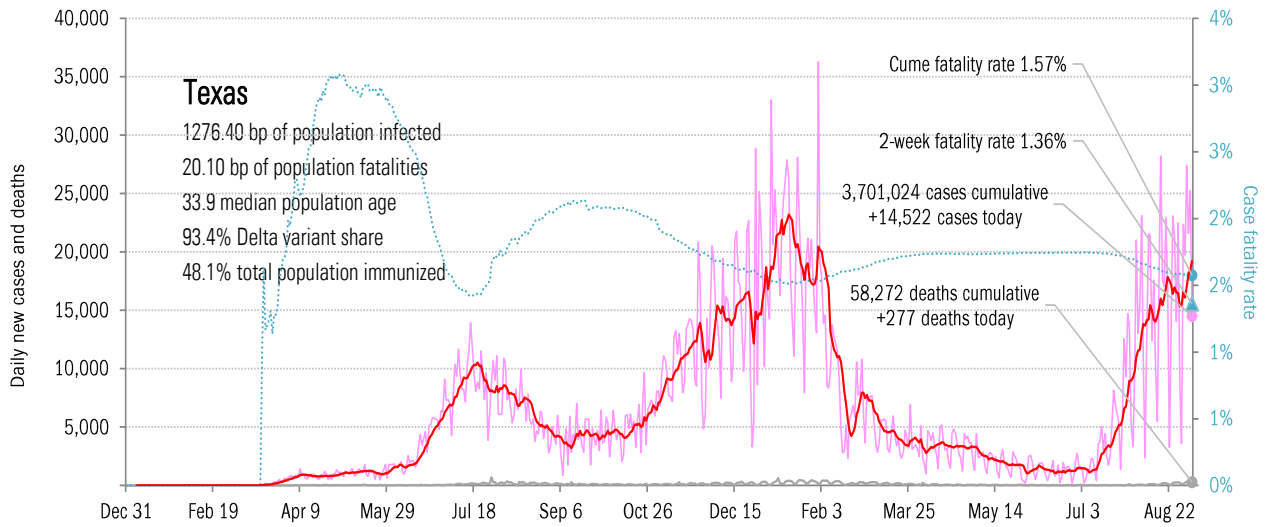
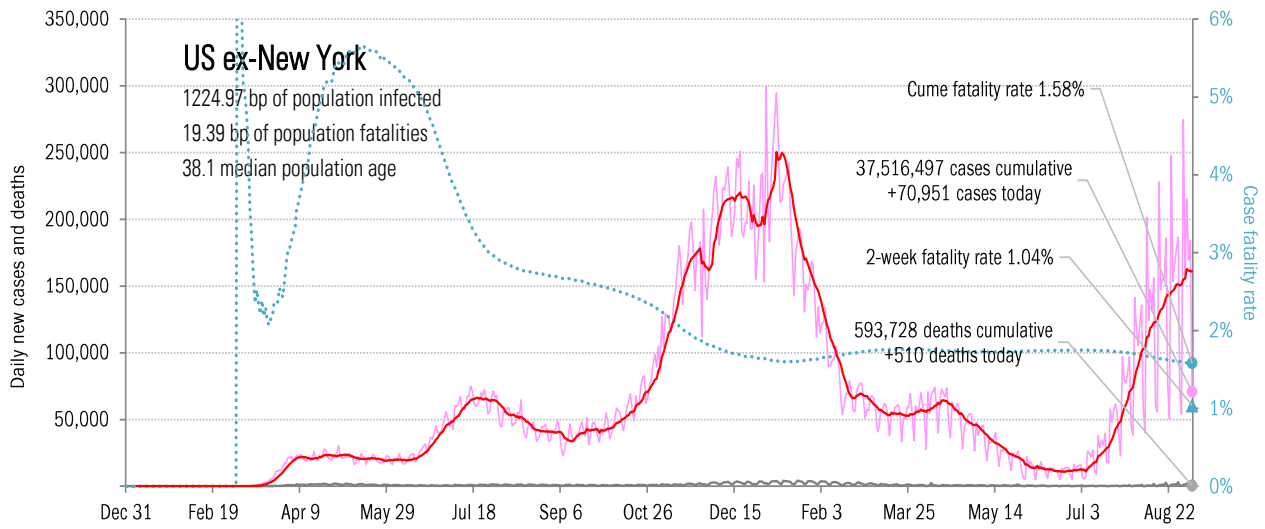
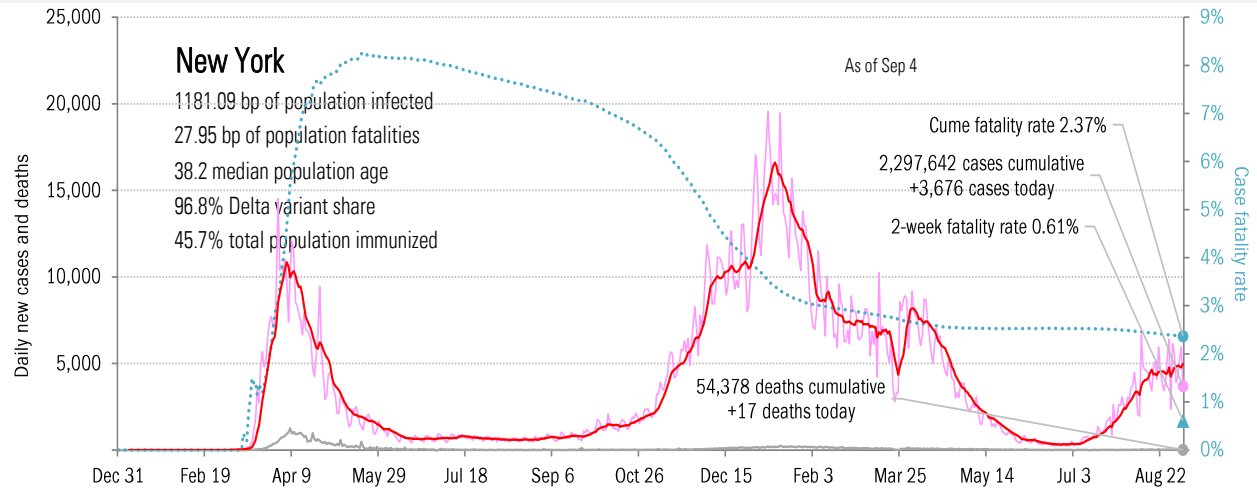
14-day moving average, last 14 days Most recent value displayed ● High ● Low
 ■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

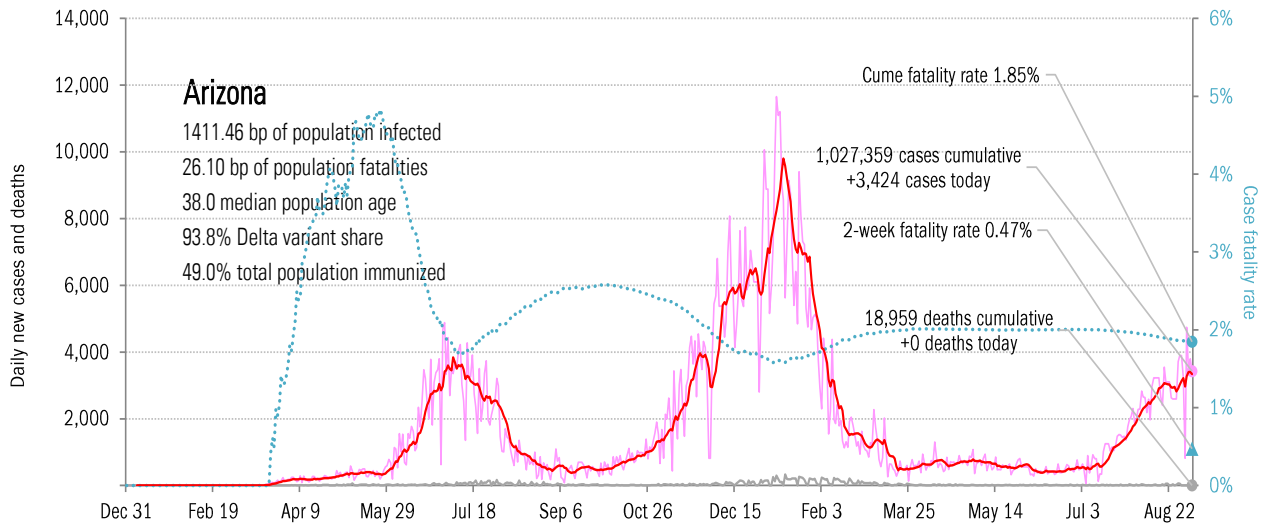
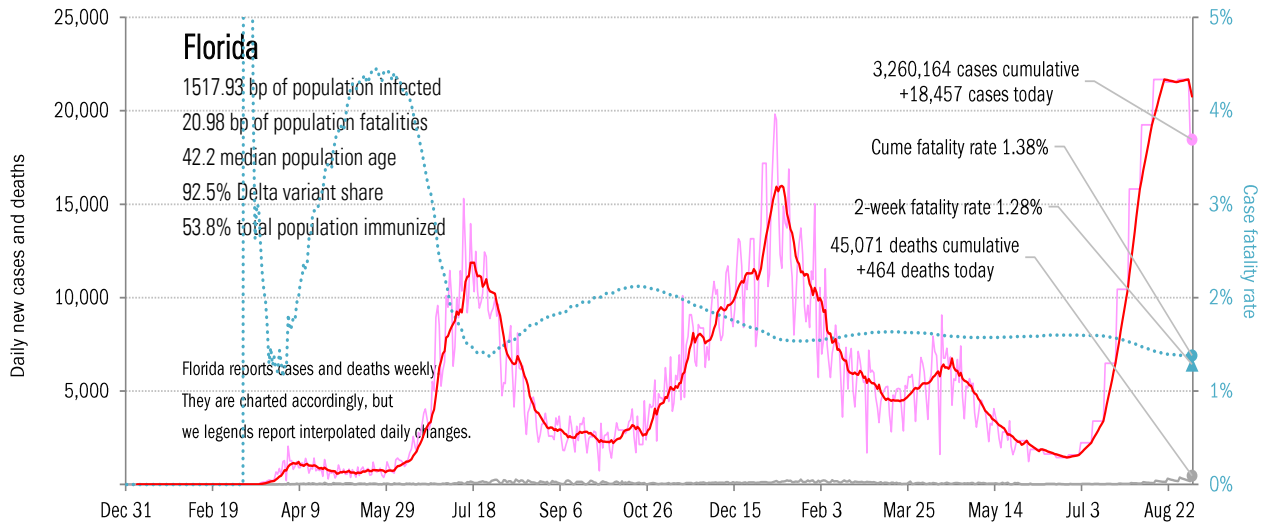
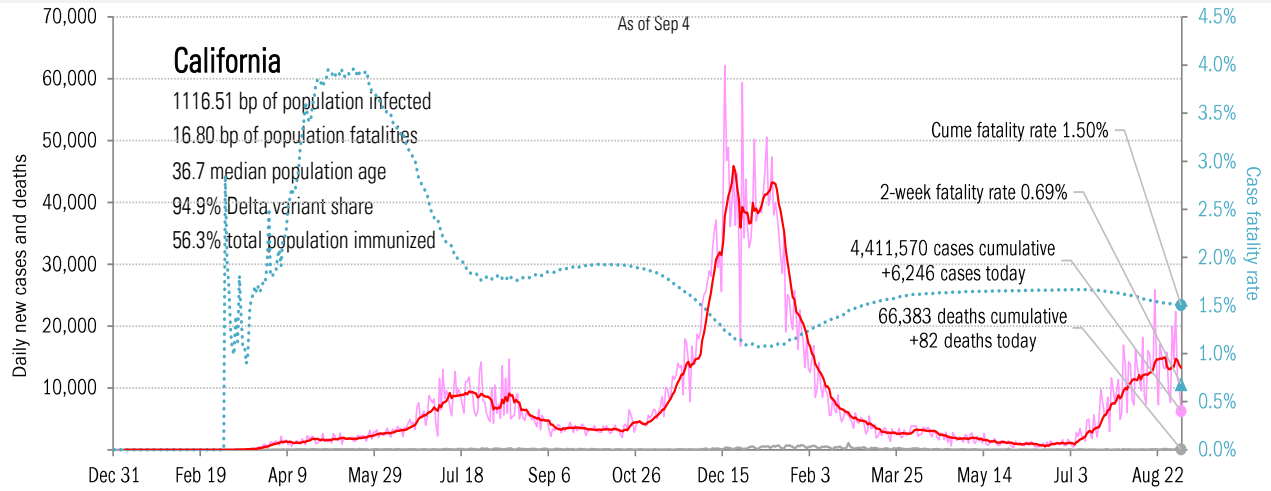
Cases: 7-day average and daily Deaths: Daily



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

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

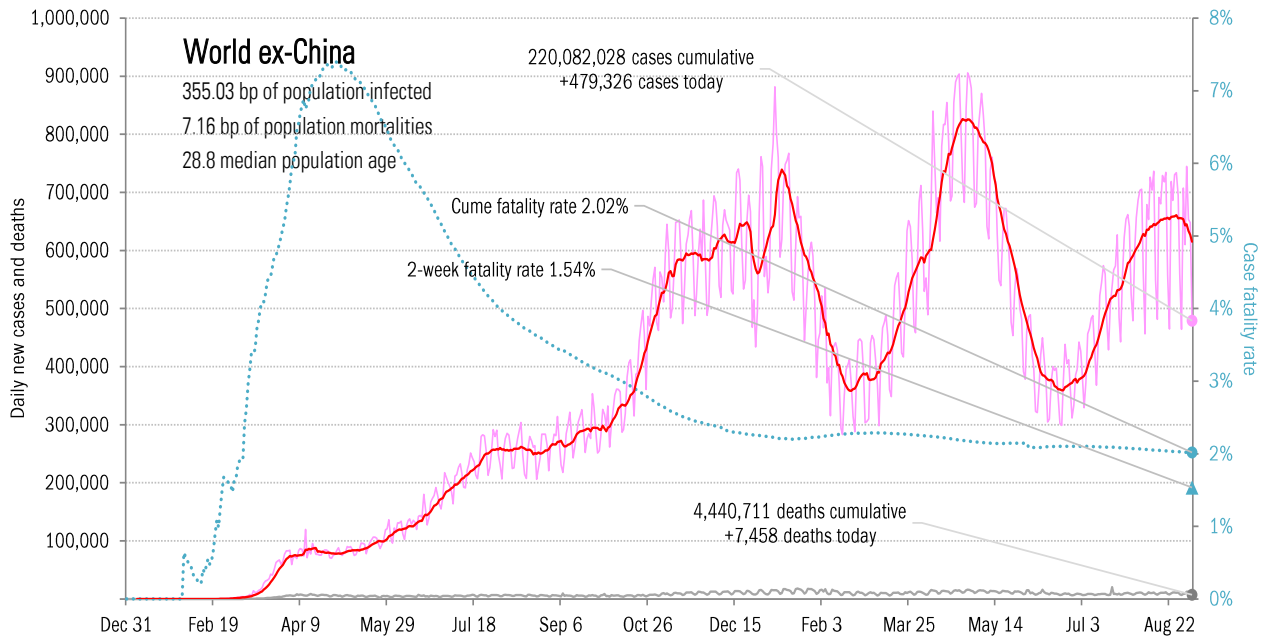
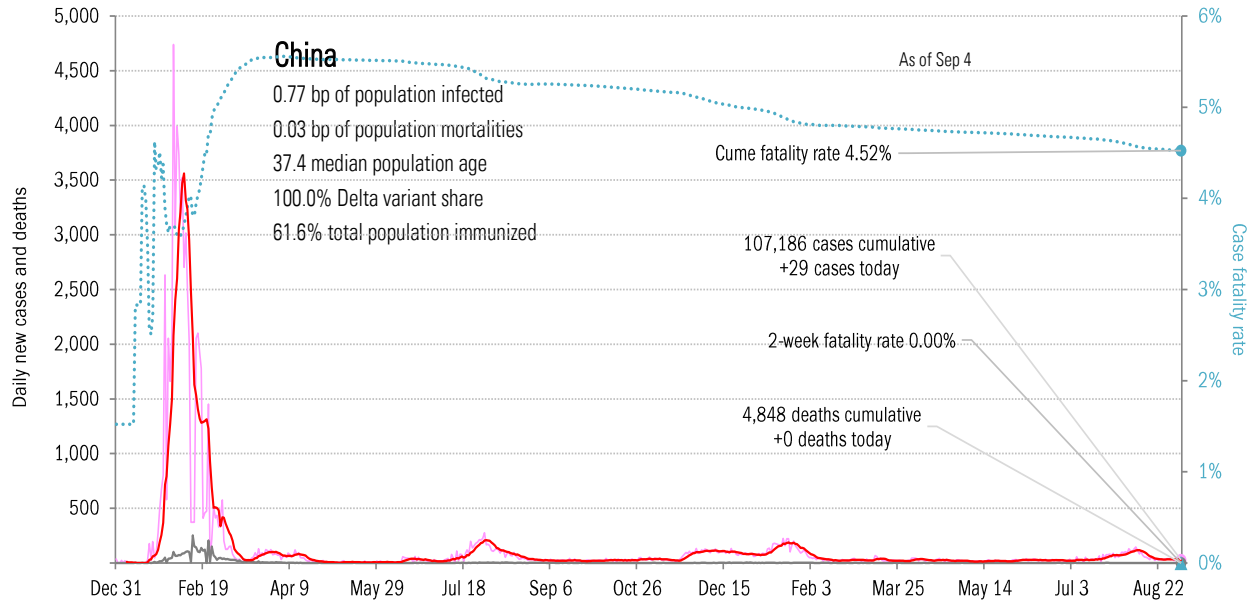
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

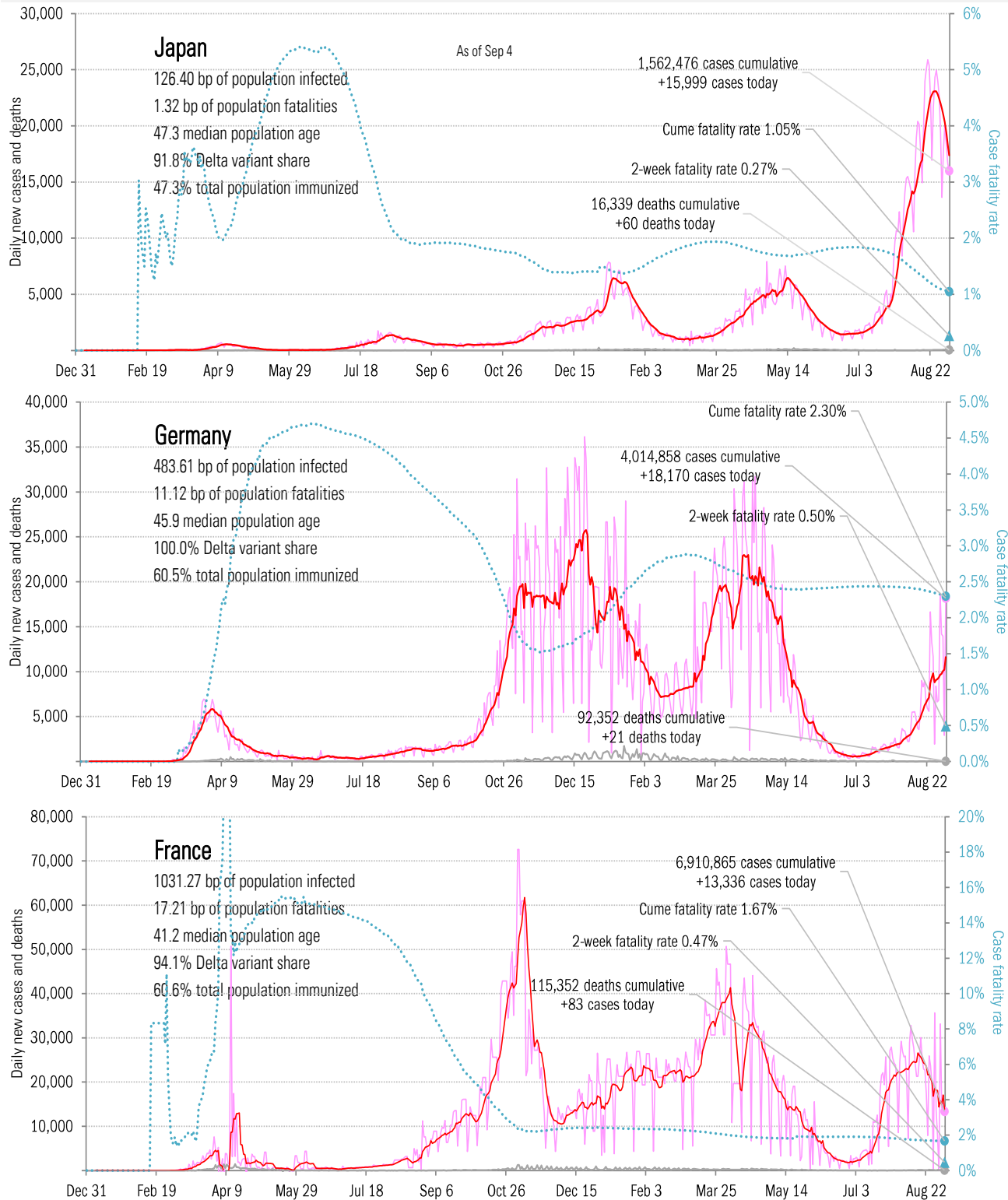
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

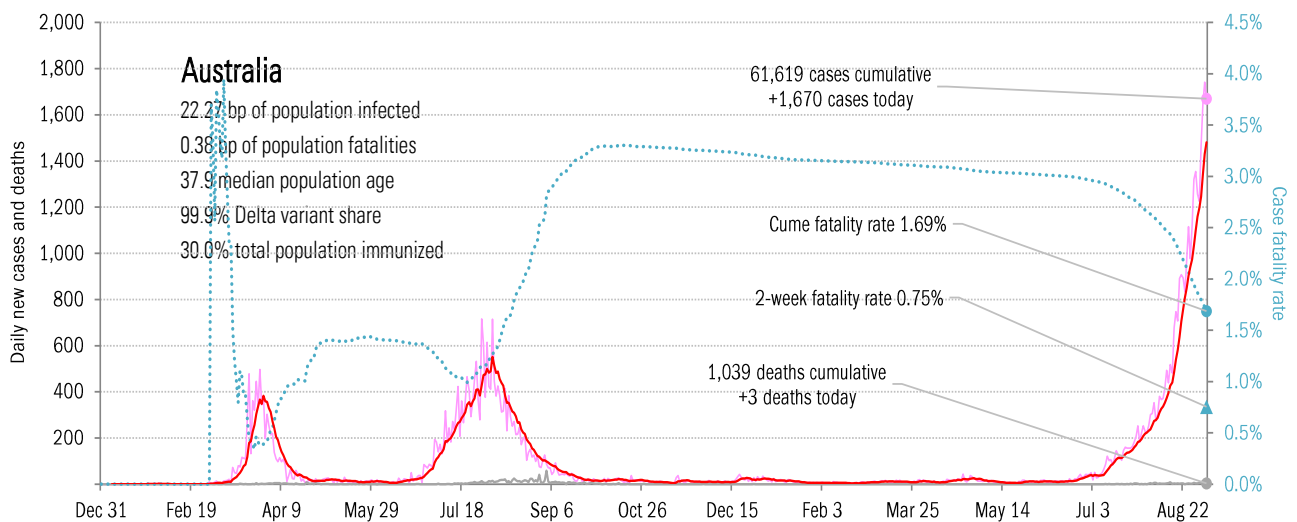
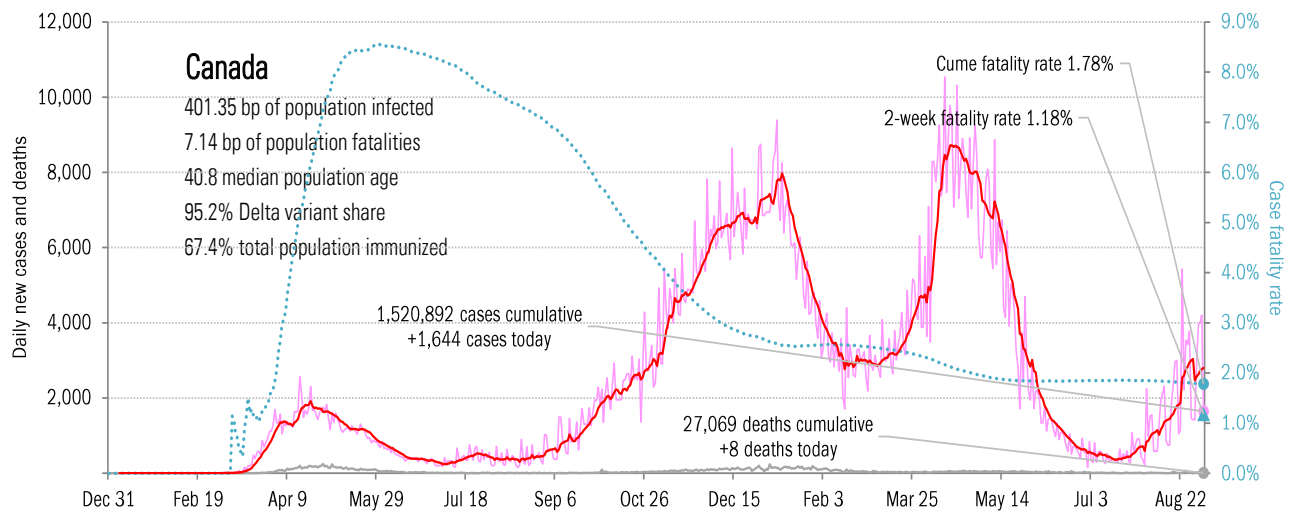
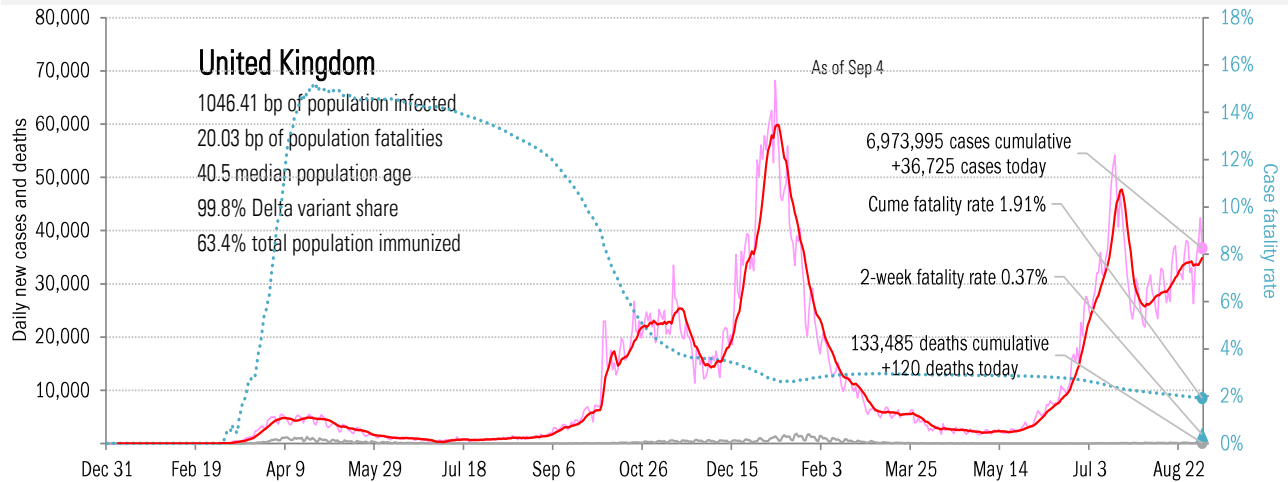
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

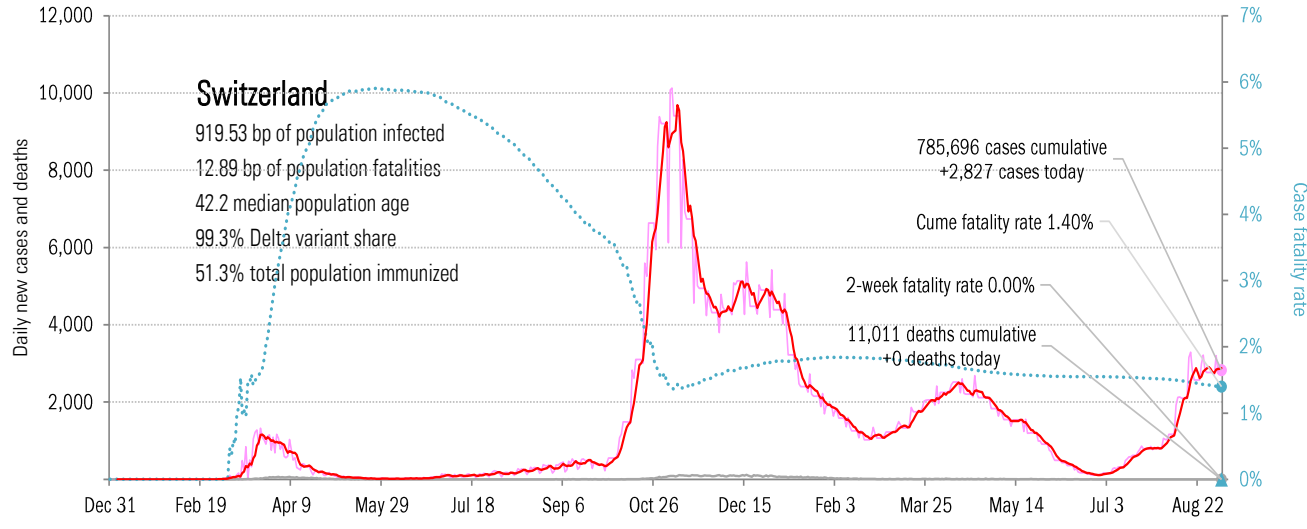
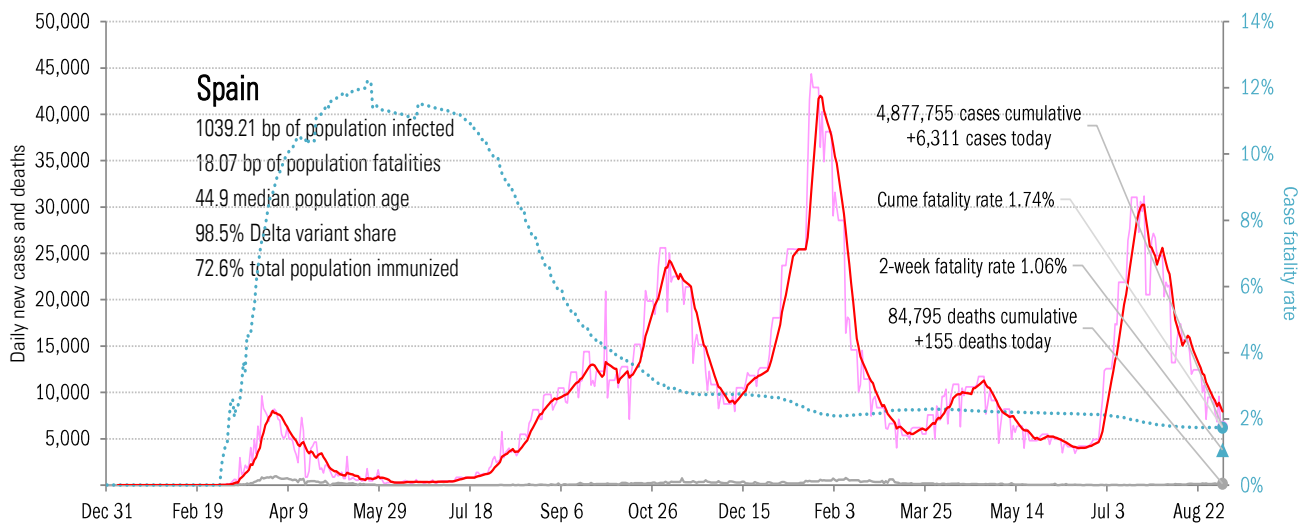
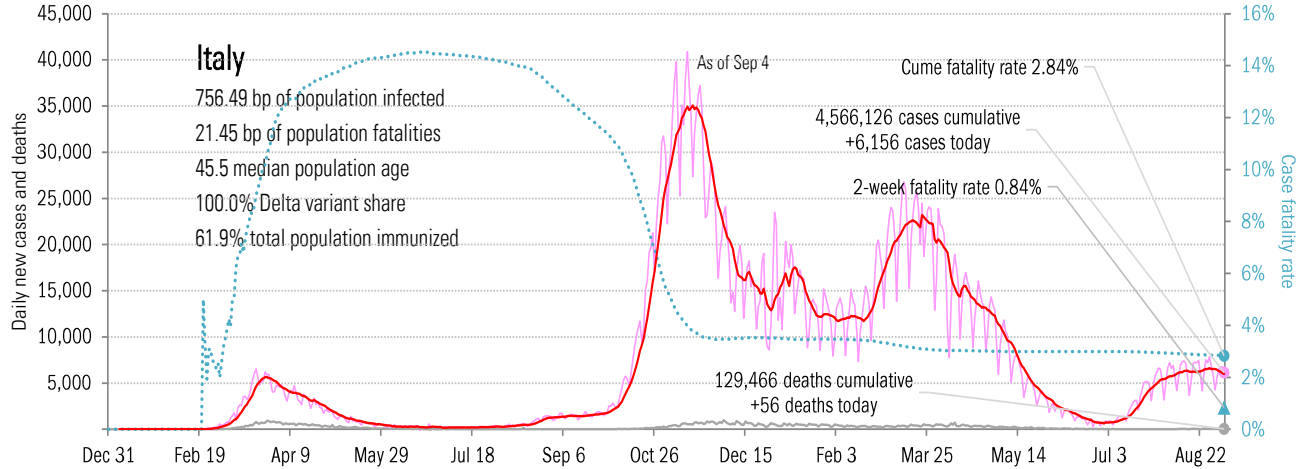
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

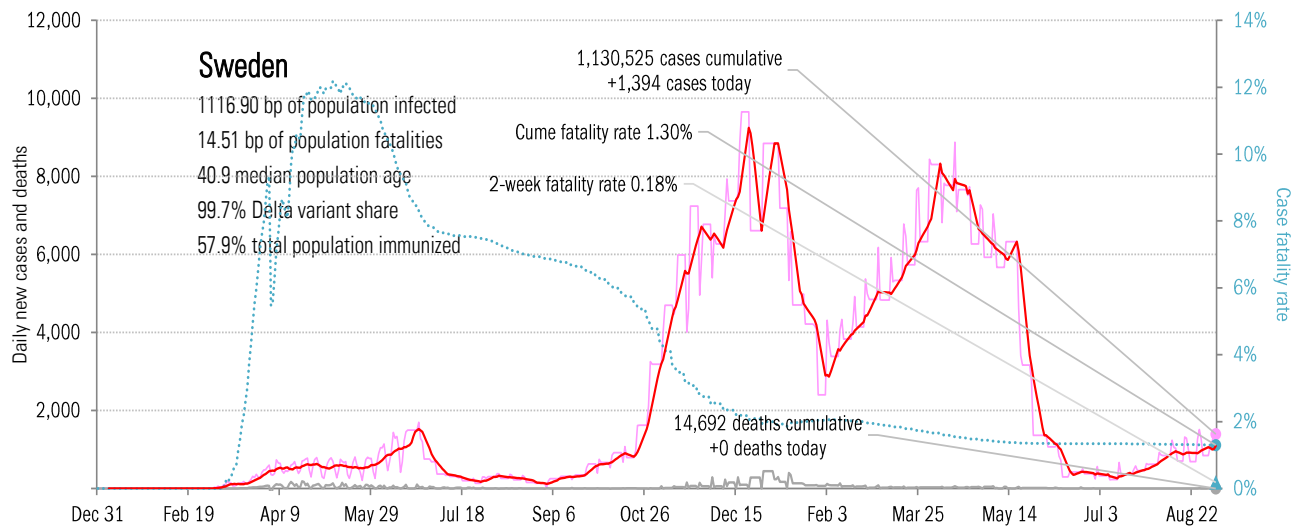
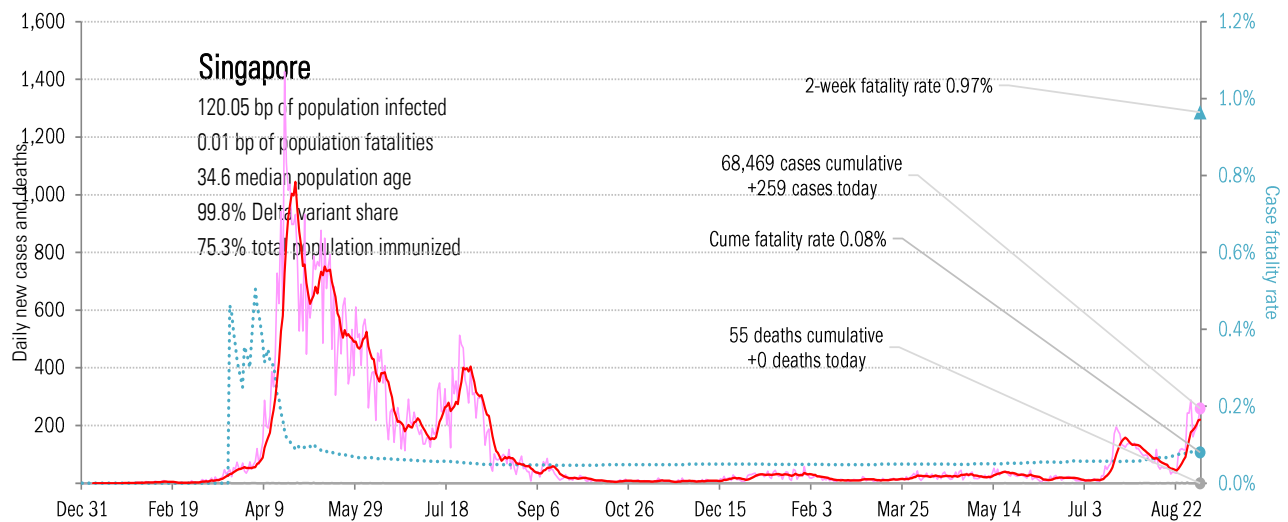
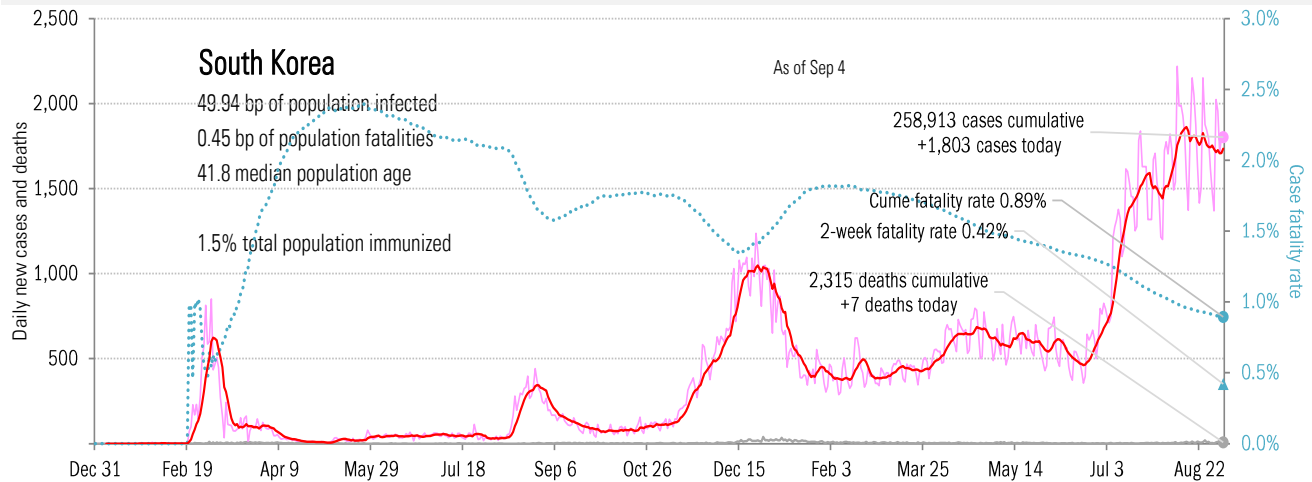
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

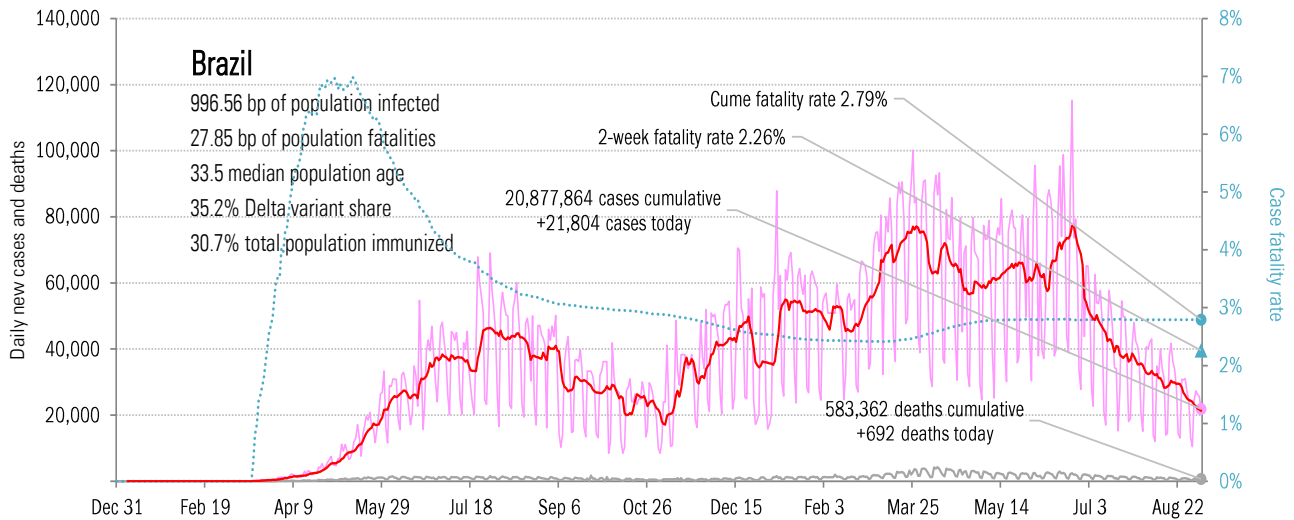
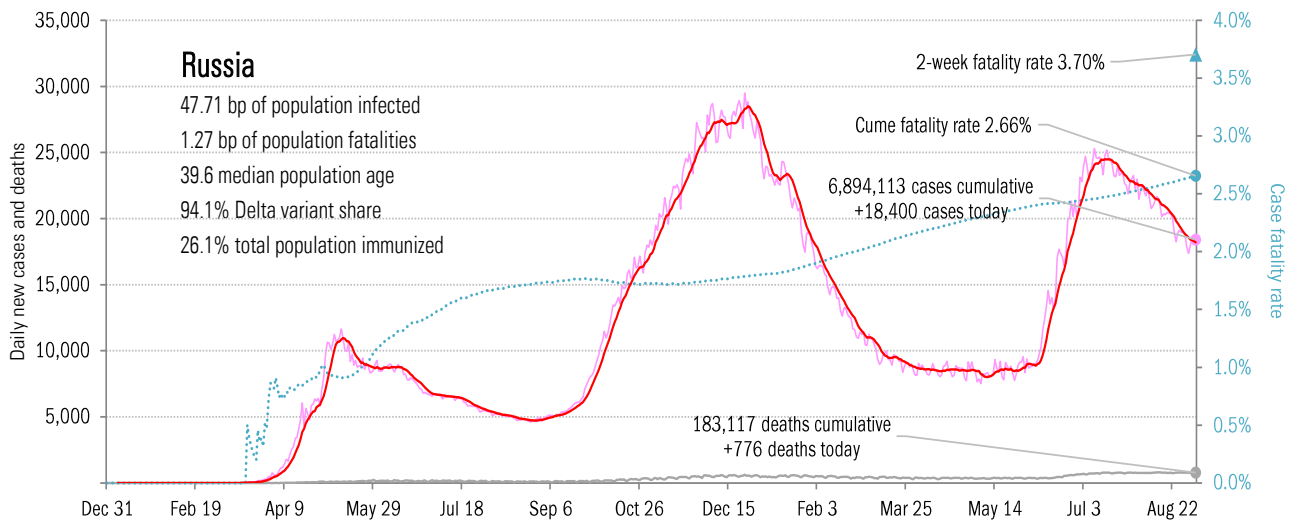
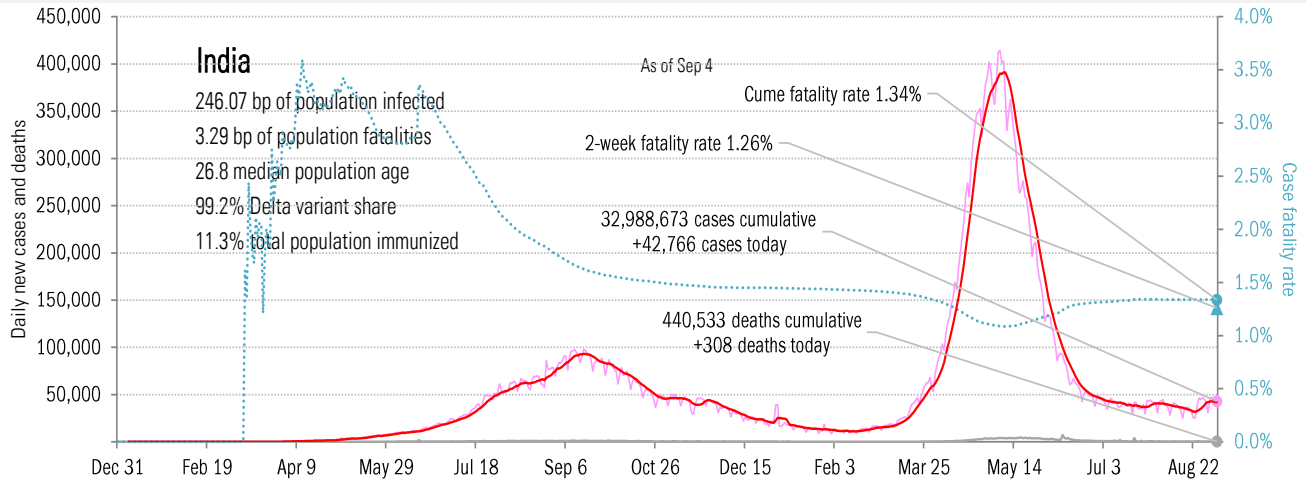
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

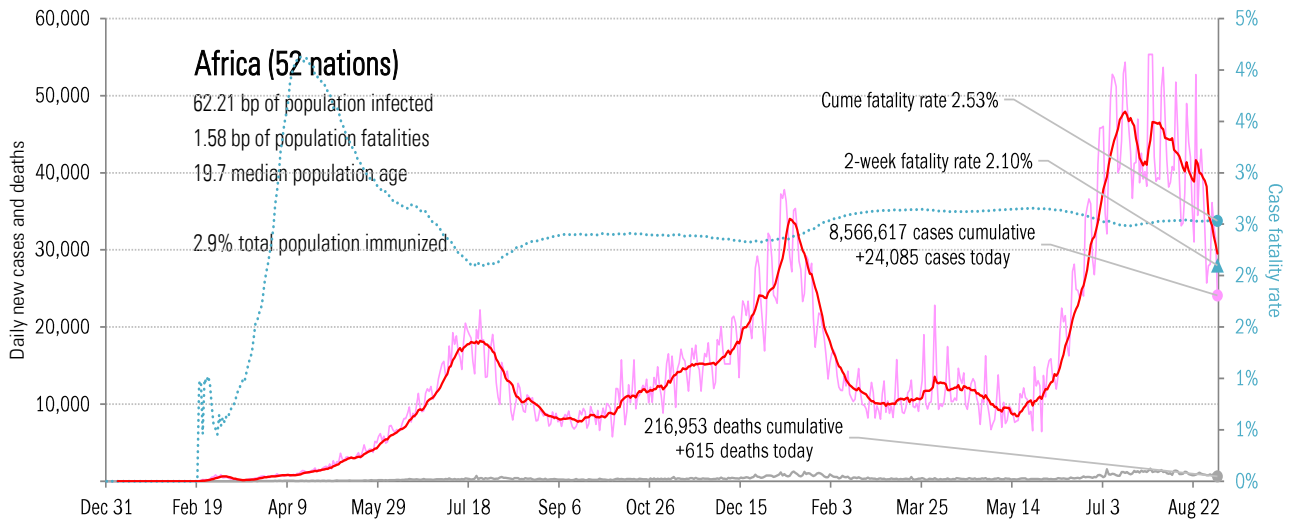
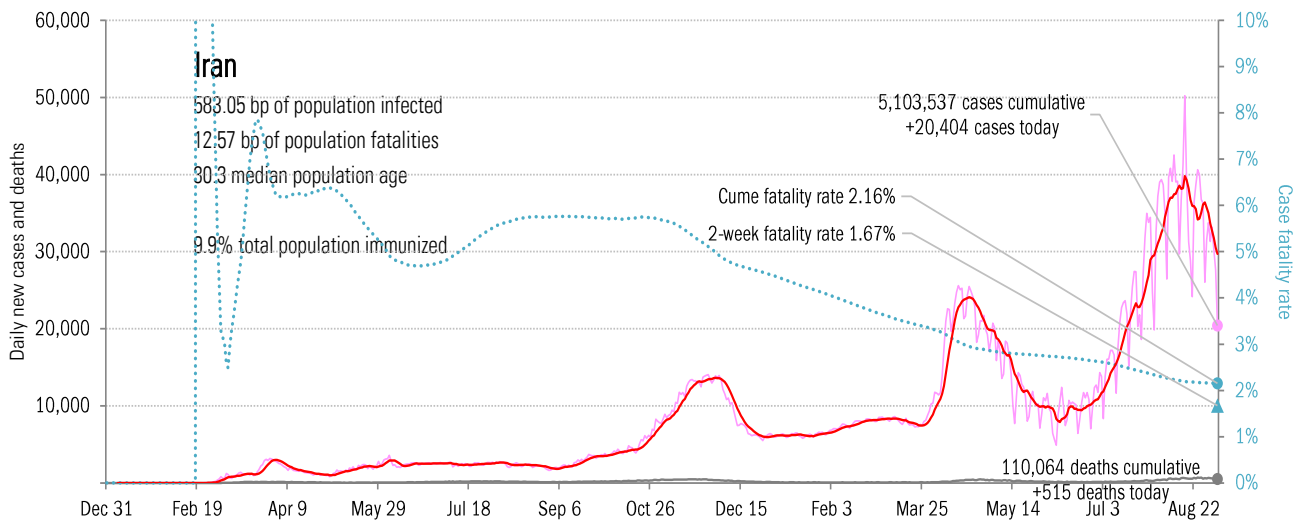
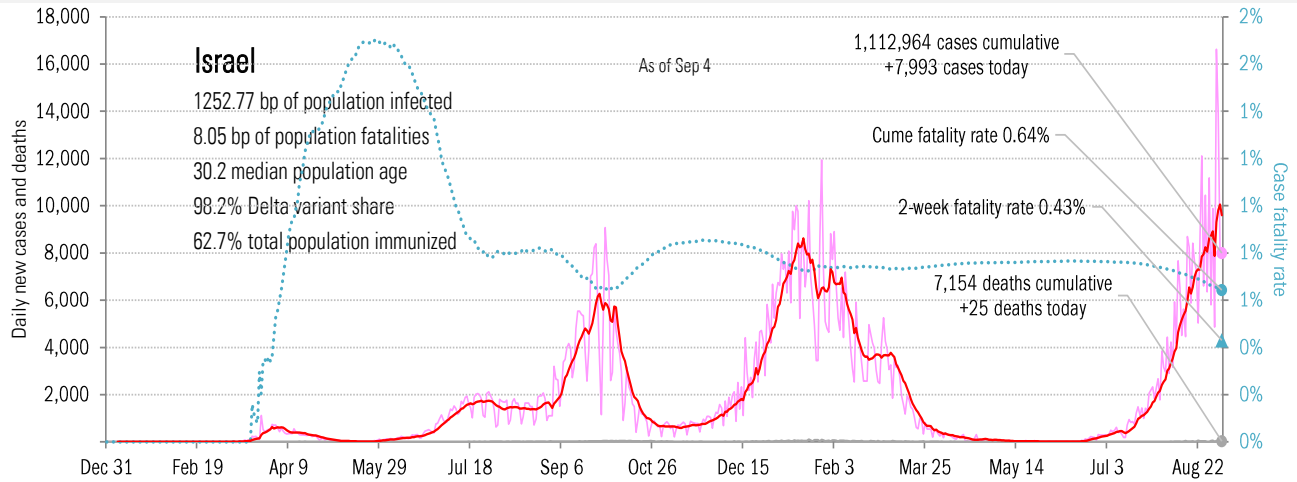
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

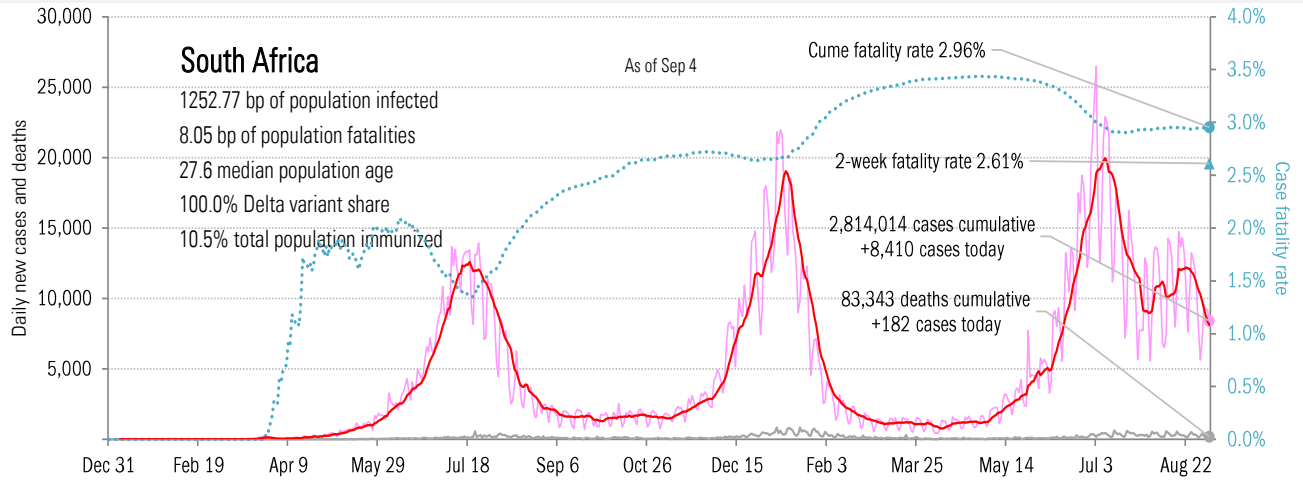
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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