

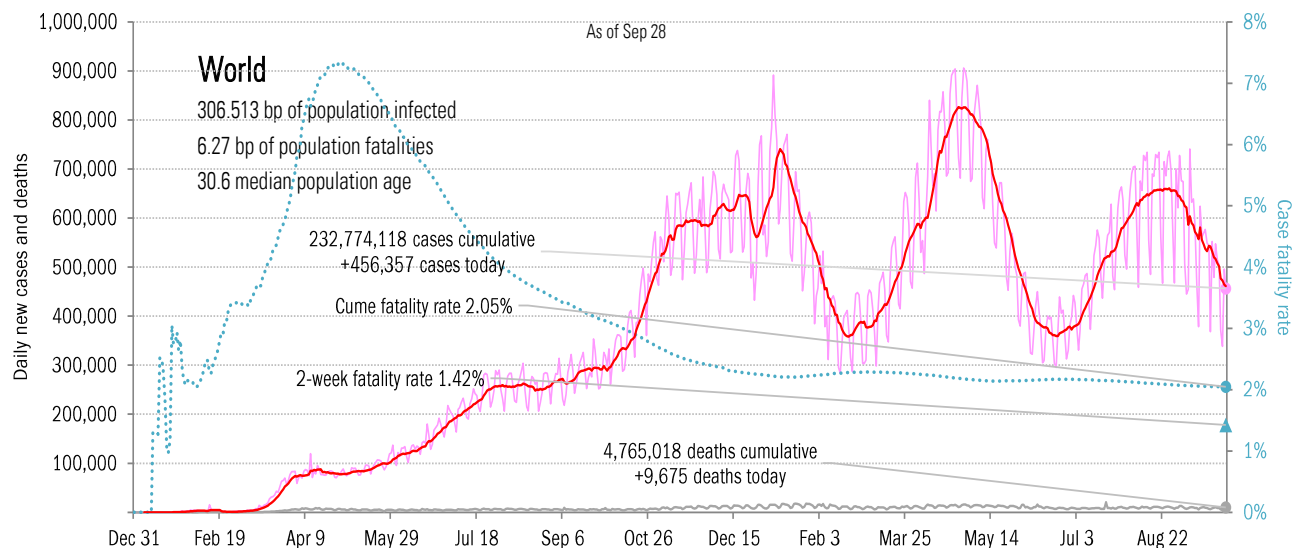
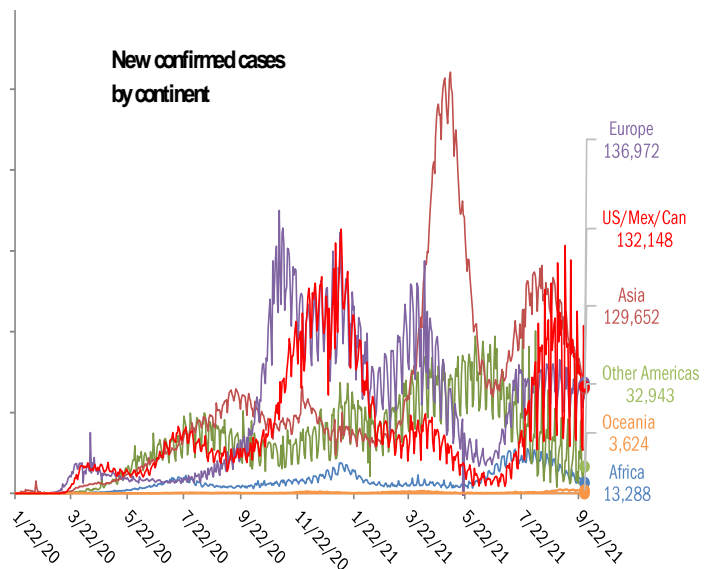
Data Insights: Covid-2019 Monitor

Wednesday, September 29, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+118,892	United States	+2,850
United Kingdom	+34,847	Russia	+839
Turkey	+28,892	Brazil	+793
Russia	+21,040	Mexico	+700
India	+18,870	India	+378
Philippines	+18,319	Malaysia	+240
Brazil	+15,395	Iran	+239
Iran	+11,701	Turkey	+239
Malaysia	+11,332	Romania	+208
Romania	+11,049	South Africa	+201
+290,337		+6,687	
World	+456,357	World	+9,675
Top ten	64%	Top ten	69%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

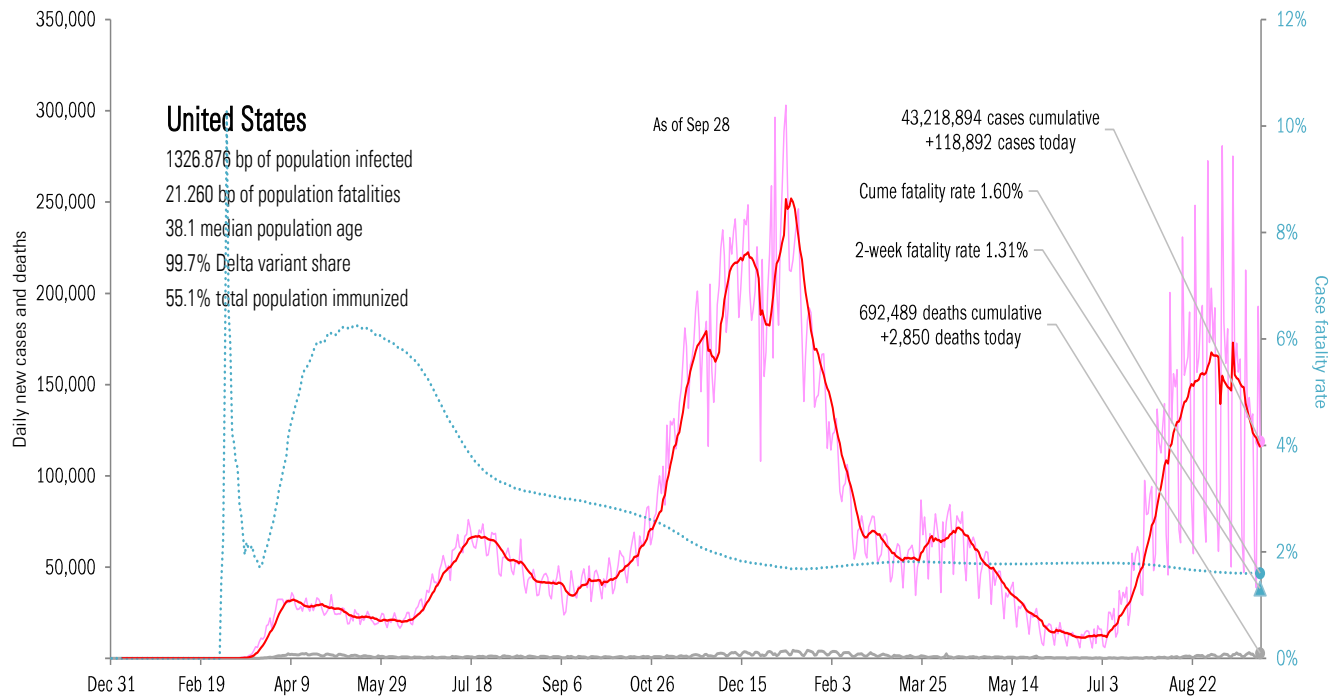
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+13,886		NE	+408		VT	+9		CA	4,704,036		CA	68,826		TX	356,174		RI	86%	AL	96%
FL	+7,730		FL	+311		CT	+6		TX	4,043,512		TX	64,456		FL	306,703		MA	84%	GA	94%
CH	+7,283		TX	+264		DE	+4		FL	3,574,097		NY	55,245		CA	296,276		GA	84%	TX	90%
MN	+6,192		GA	+137		HI	+3		NY	2,416,683		FL	53,587		NY	155,144		PA	82%	ID	90%
CA	+5,532		AL	+130		SD	+3		IL	1,621,175		PA	29,226		GA	150,921		MD	81%	KY	87%
PA	+5,429		MO	+126		MI	+2		GA	1,569,405		NJ	27,380		CH	110,628		SC	81%	OK	86%
NY	+5,057		CH	+125		NH	+1		PA	1,420,478		IL	27,325		KY	106,152		WA	79%	NC	86%
KY	+4,535		AZ	+108		AS	+0		CH	1,400,979		GA	25,757		PA	105,785		FL	79%	DE	85%
GA	+3,865		TN	+104		GJ	+0		NC	1,385,700		MI	22,244		IL	99,408		NY	79%	WV	85%
WI	+3,575		IN	+87		ME	+0		TN	1,220,784		CH	21,945		MI	82,925		MI	79%	AR	84%
+63,084			+1,800			+28			23,356,849			395,991			1,770,116						
All states	+118,892		+2,850			-2404			All states	43,218,894		692,489			3,144,431			All states	70%	67%	
Top ten	53%		63%			-1%			Top ten	54%		57%			56%			Median	75%	78%	

Some states not reporting

Five most improved US states

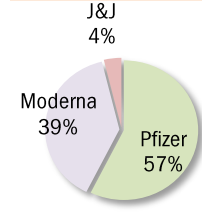
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-12,420	CA	-109	CH	-120	TX	+410 bp
NC	-10,019	SC	-87	CA	-102	WA	+30 bp
MI	-8,719	NC	-77	NY	-99	AL	+20 bp
SC	-6,770	CT	-59	PA	-89	IA	+20 bp
WA	-6,061	IL	-45	IN	-76	ME	+20 bp



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

Rolling out the vaccines in the US and the world

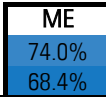
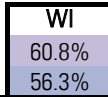
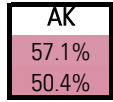
Administered	Cumulative		Today		Immunity	Full	Partial
Doses	One dose	% Pop	Immune	% pop	New immune today		
	402,181,912				+0.492 million	US	55.1% 63.6%
Total population	218,958,071	66%	189,890,757	57%	+1.377 million	UK	65.7% 71.5%
Age 12 to 17	13,615,967	57%	11,008,582	46%	+0.043 million	France	65.5% 74.3%
Age 18 to 64	151,456,294	74%	129,731,405	64%	+0.229 million	Spain	78.1% 80.5%
Age 65 and over	52,816,028	97%	47,076,768	86%	+0.009 million	Germany	63.7% 67.3%
						Italy	67.6% 74.6%
						Australia	42.1% 63.0%
						Israel	64.0% 69.4%
						Canada	70.6% 76.6%
						Japan	59.0% 70.0%
						Africa	4.3% 6.6%
						India	16.6% 46.1%
						Brazil	41.6% 70.2%
						China	70.8% 76.2%



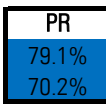
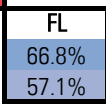
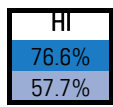
State
At least partial immunity as % population
Full immunity as % population



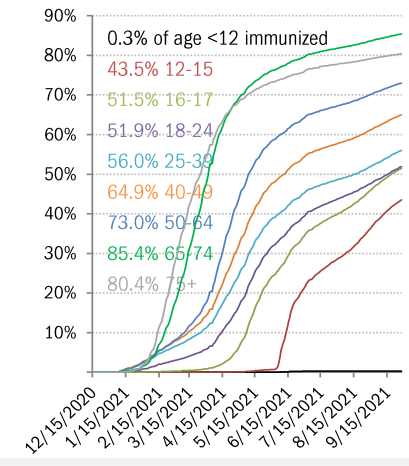
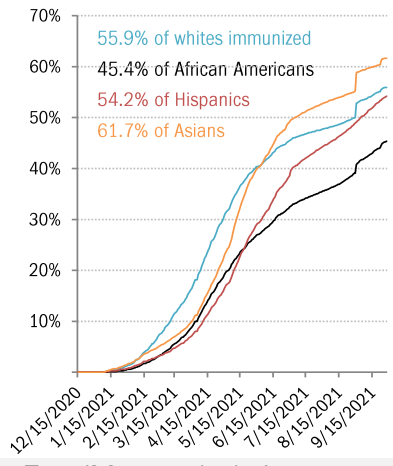
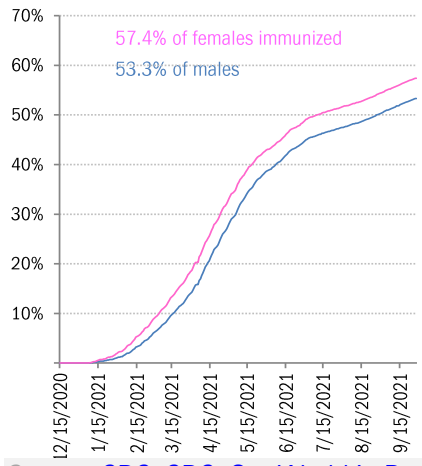
Every American >18 immune in **175 days** by Mar 22, 2022
 68.5% of population >18 immunized
 14.7% previously tested positive
83.2% vs 60% adult herd immunity



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
67.1%	46.9%	54.6%	50.8%	63.4%	68.3%	56.9%	71.1%	77.6%	69.5%	
60.7%	41.5%	48.3%	43.9%	58.0%	53.4%	52.2%	63.6%	69.4%	61.4%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
66.4%	60.6%	48.3%	59.0%	58.0%	52.1%	54.1%	72.2%	72.4%	77.3%	
60.6%	50.6%	41.4%	51.6%	53.9%	48.3%	50.1%	57.7%	64.2%	67.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
71.6%	58.8%	65.5%	59.3%	54.7%	60.5%	48.1%	68.3%	70.5%	76.0%	75.0%
58.9%	50.4%	59.2%	54.6%	47.7%	52.1%	40.4%	60.4%	64.0%	68.6%	68.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	59.2%	72.4%	59.6%	55.6%	52.6%	59.4%	55.1%	70.6%	66.0%	
	51.0%	62.9%	51.0%	45.4%	45.2%	49.6%	47.1%	60.0%	57.3%	
			OK	LA	MS	AL	GA			
			56.4%	51.6%	49.9%	52.6%	54.7%			
			47.4%	45.3%	43.1%	42.5%	45.1%			
			TX							
			59.4%							
			55.1%							
								FL		PR
								66.8%		79.1%
								57.1%		70.2%



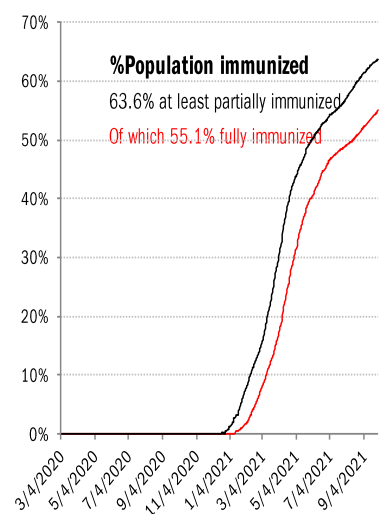
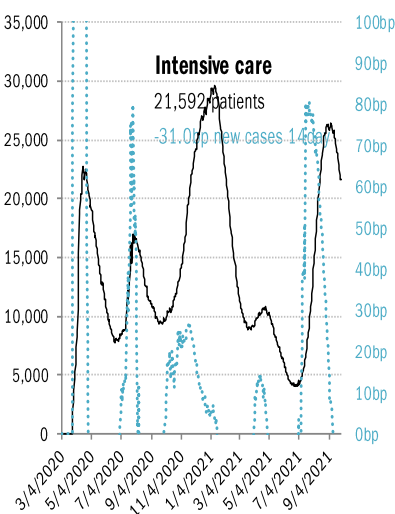
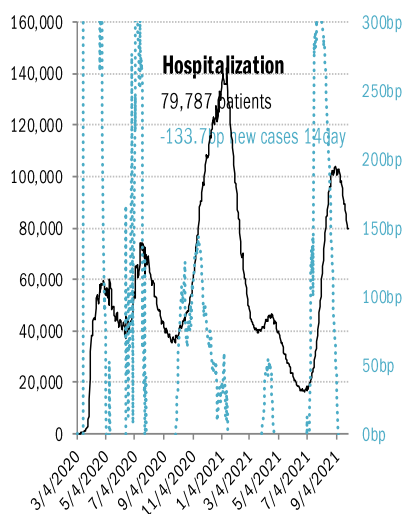
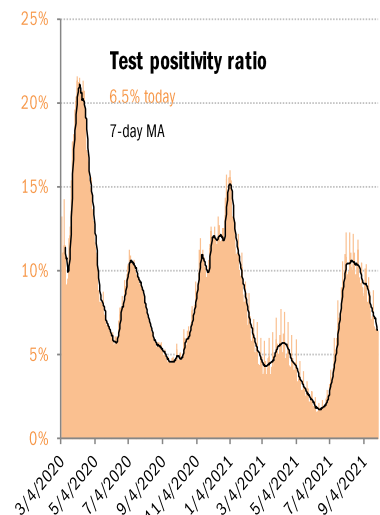
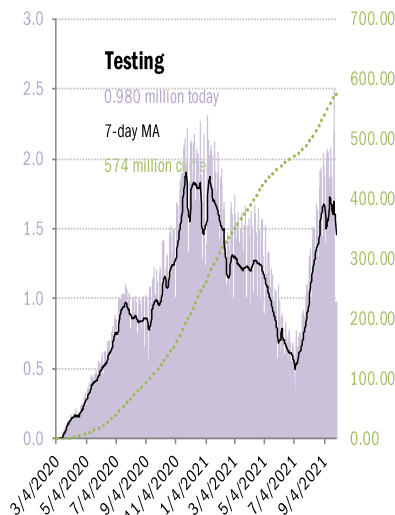
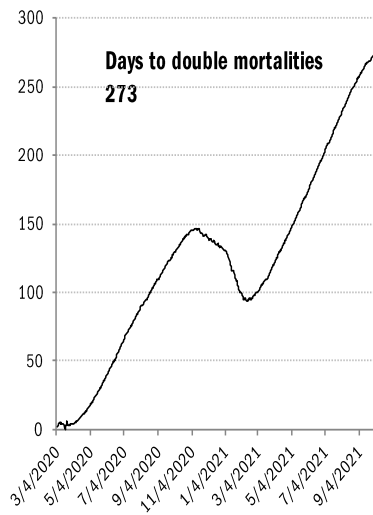
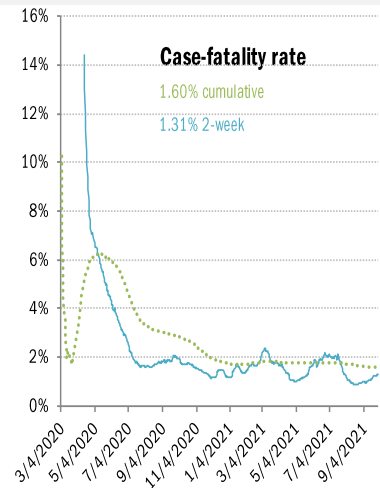
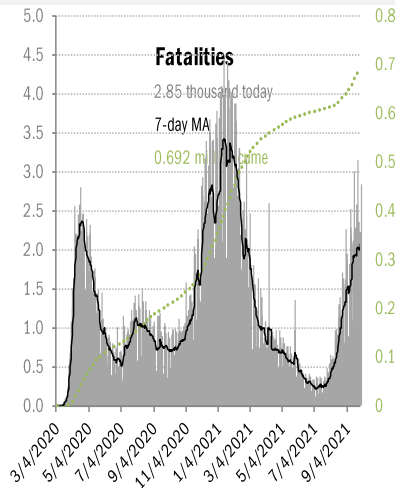
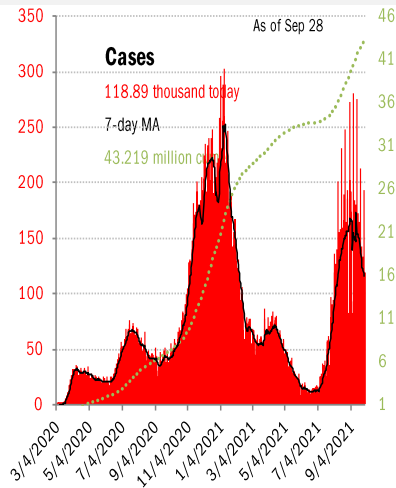
The demographics of US vaccination



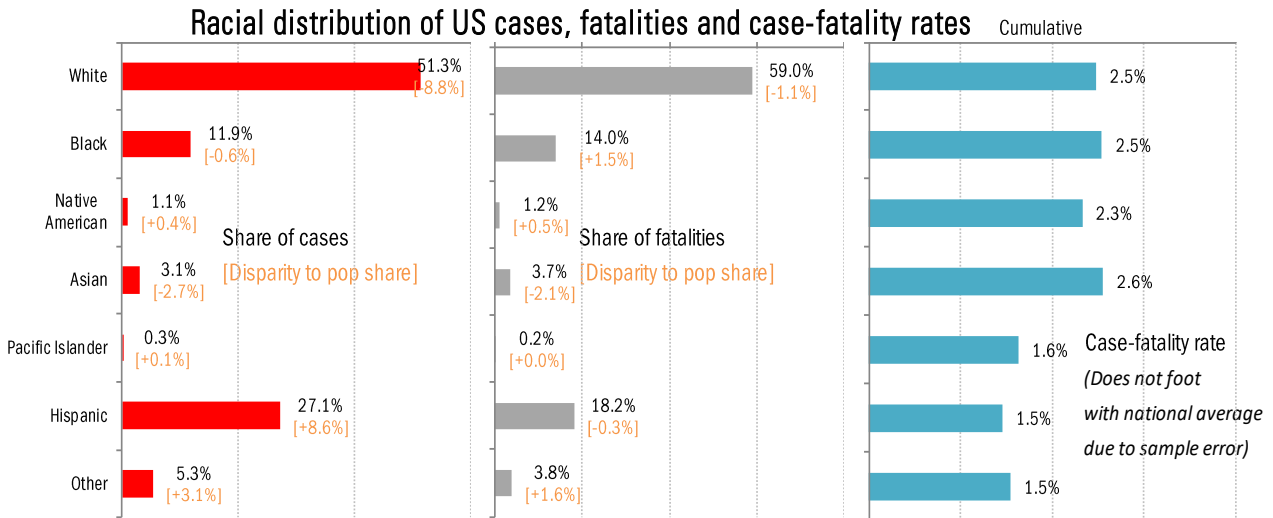
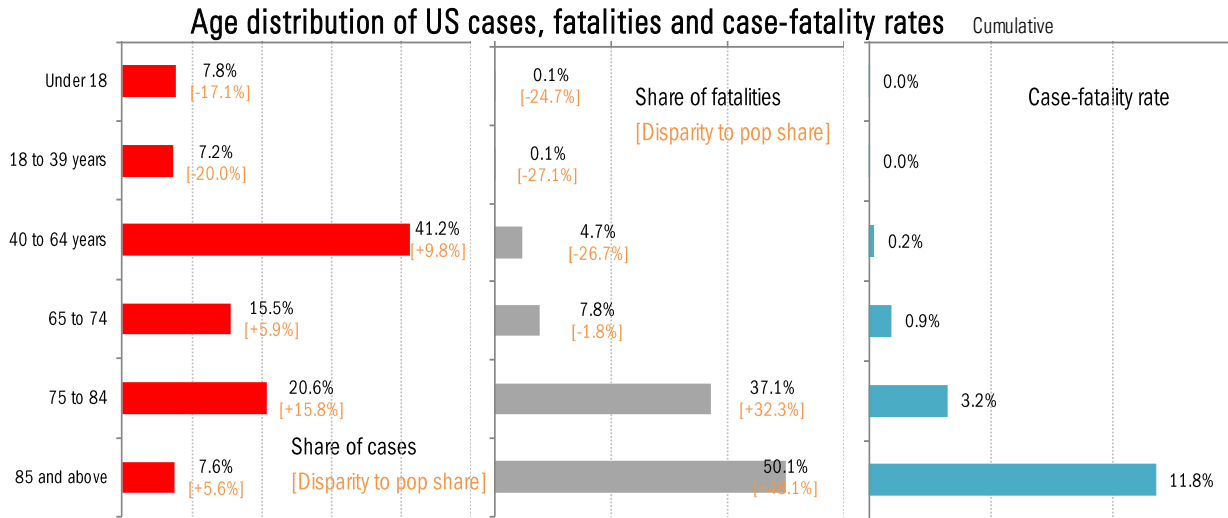
Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

US deep-dive

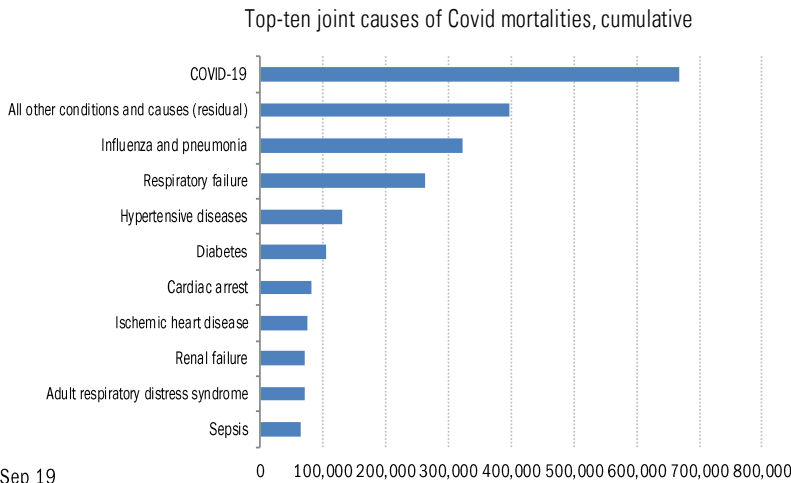
National and state-by-state data do not line up because of different sources



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



Comorbidities



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

[Lancet Scrubs ENTIRE COVID Origins Investigation Team After National Pulse Exposés.](#)

National Pulse
September 28, 2021

[The fear of Delta, more than rewards or mandates, is motivating Americans to get shots, a survey finds.](#)

Jan Hoffman
New York Times
September 28, 2021

[Pfizer and BioNTech Submit Data Backing Vaccine for Children 5 to 11](#)

Sharon LaFraniere, Shashank Bengali and Noah Weiland
New York Times
September 28, 2021

[Thousands of N.Y. Health Care Workers Get Vaccinated Ahead of Deadline](#)

By Sharon Otterman and Joseph Goldstein
New York Times
September 28, 2021

[Biden's Lawless Vaccine Mandate](#)

David B. Rivkin Jr. and Robert Alt
Wall Street Journal
September 28, 2021

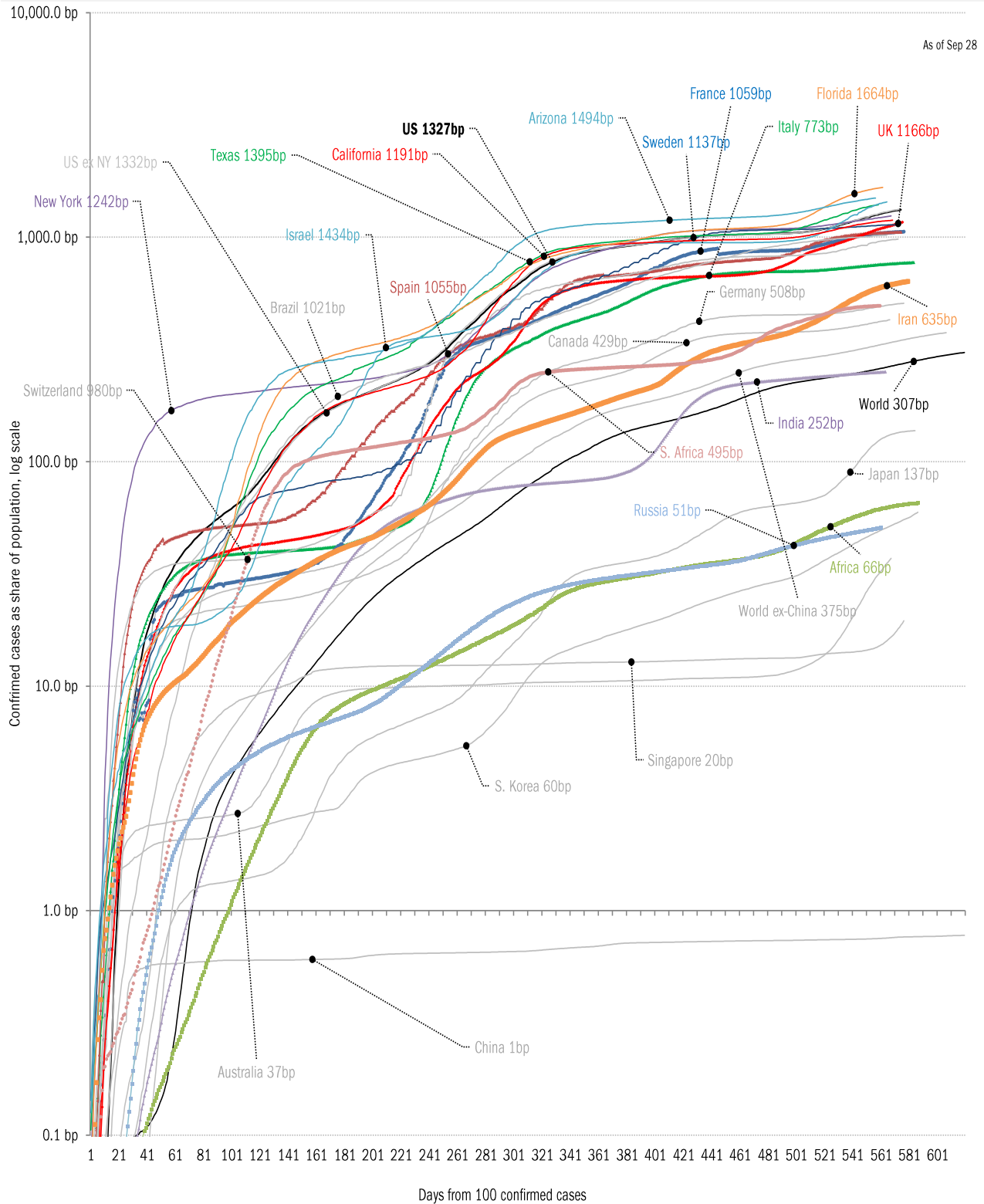
Meme of the day

When Biden's vaccine mandates for fed employees cuts the size of the fed govt by 50%



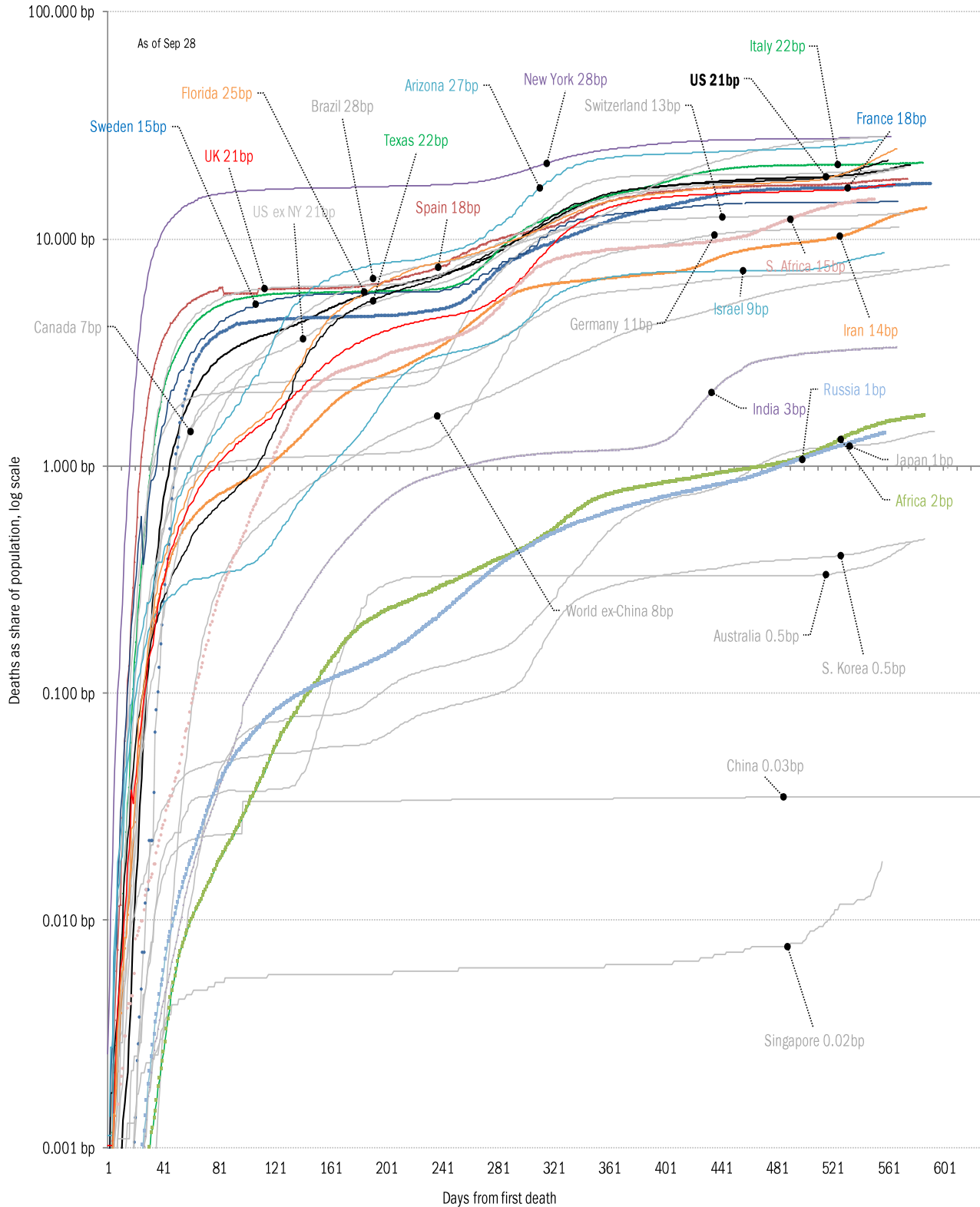
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

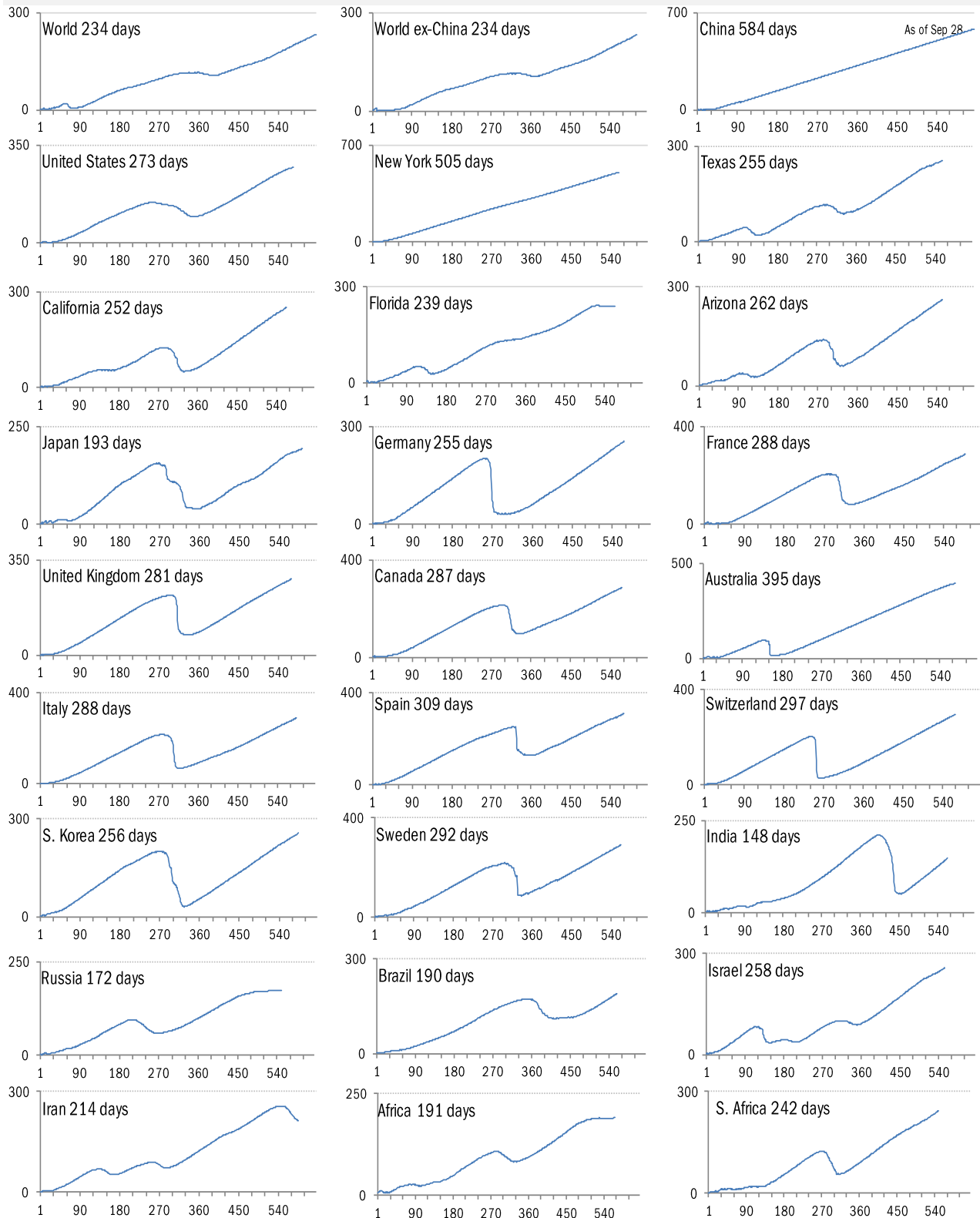


Source: [Johns Hopkins](#), TrendMacro calculations

"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

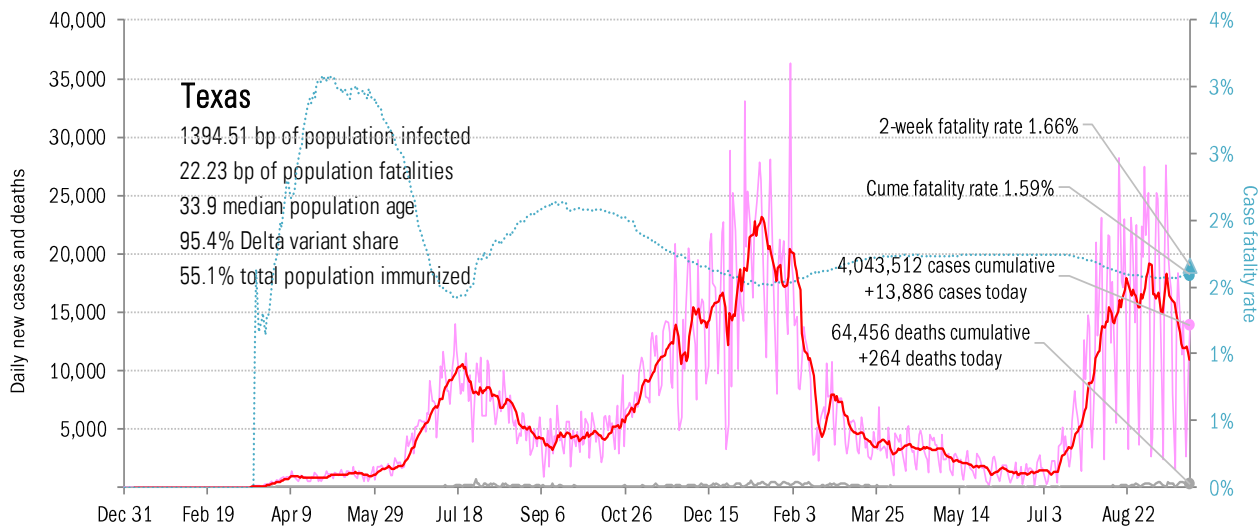
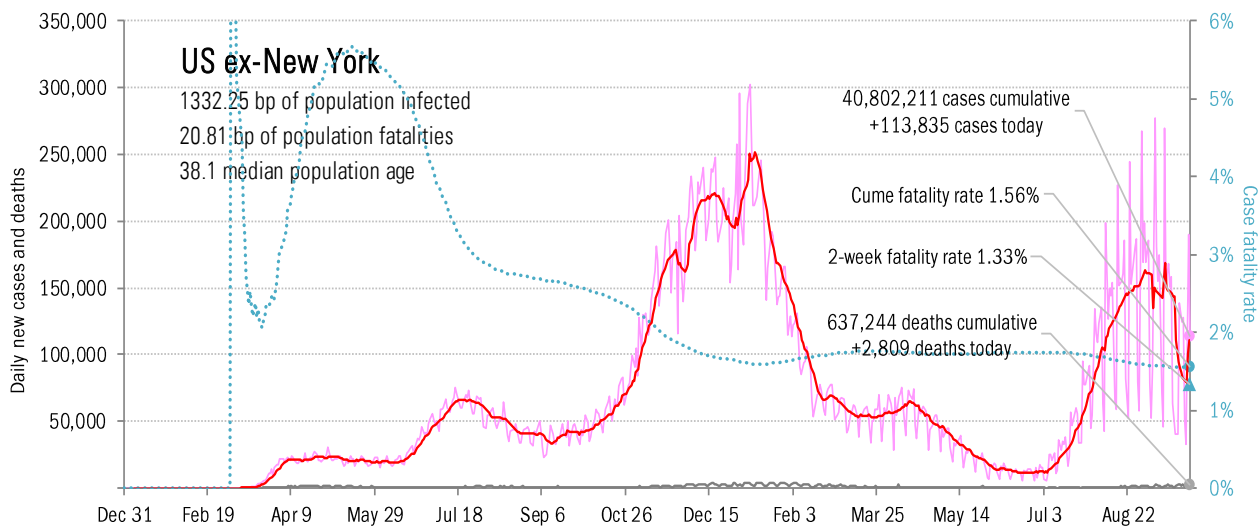
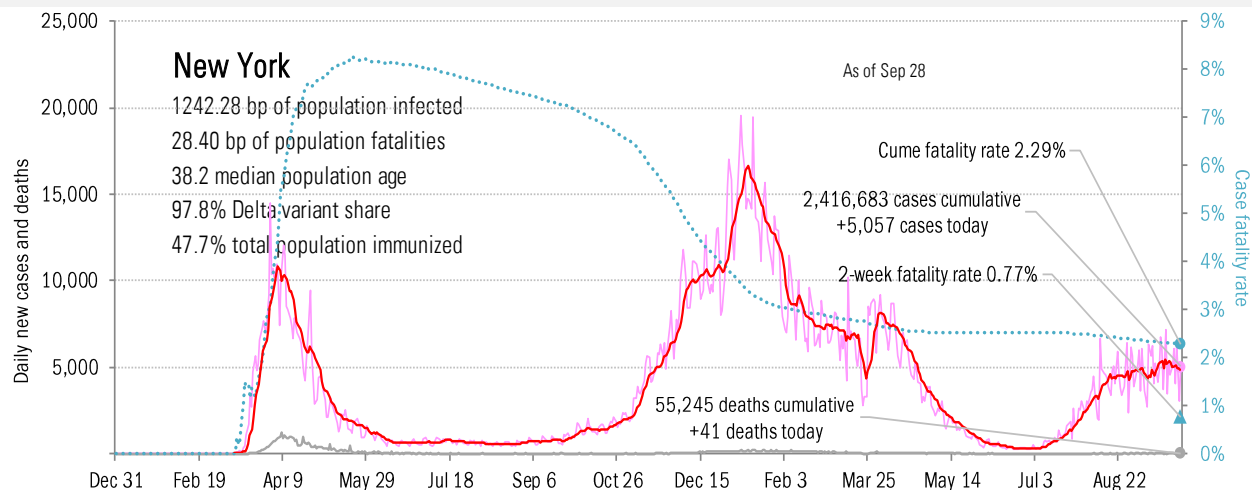
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

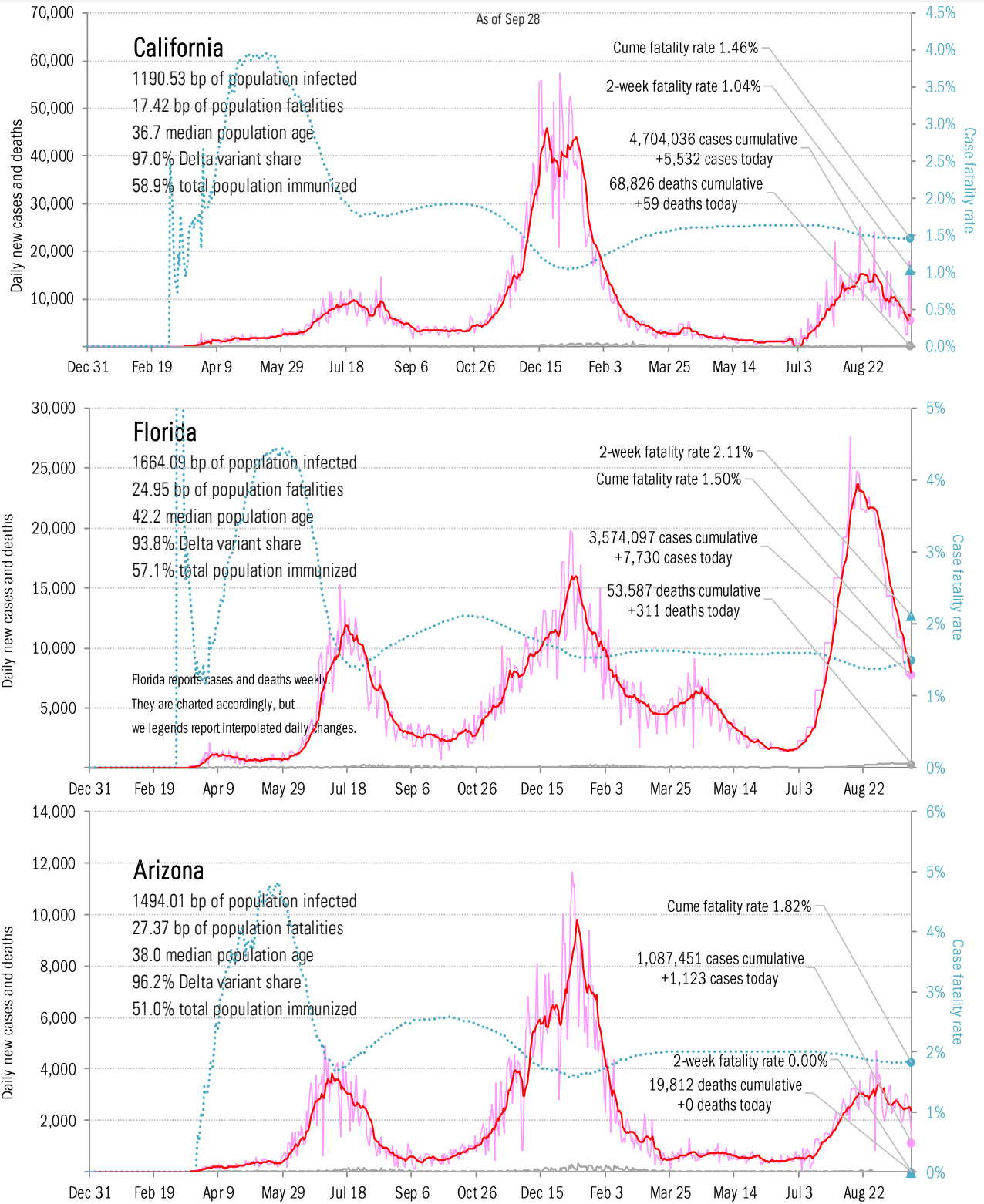
Cases: 7-day average and daily Deaths: Daily



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

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

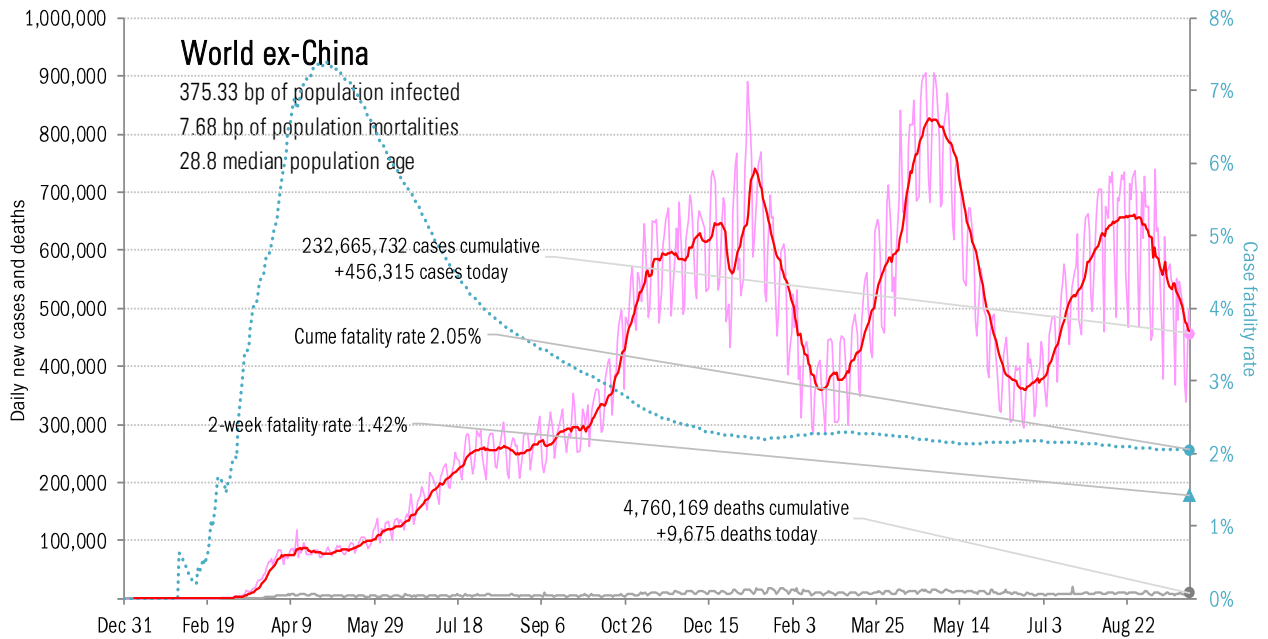
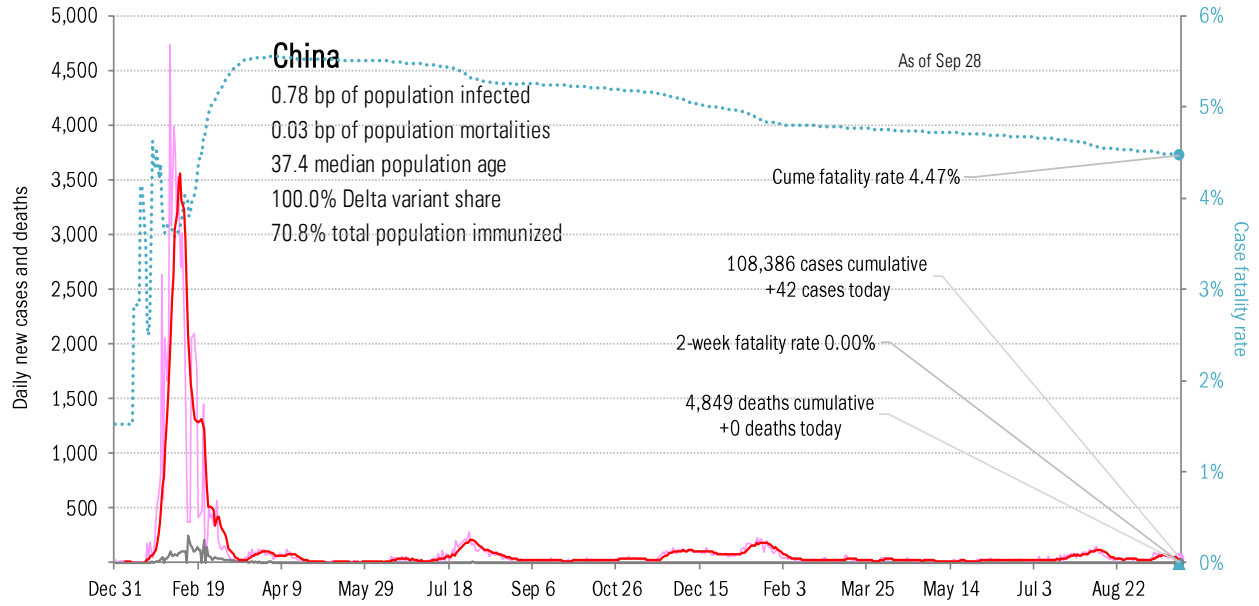
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

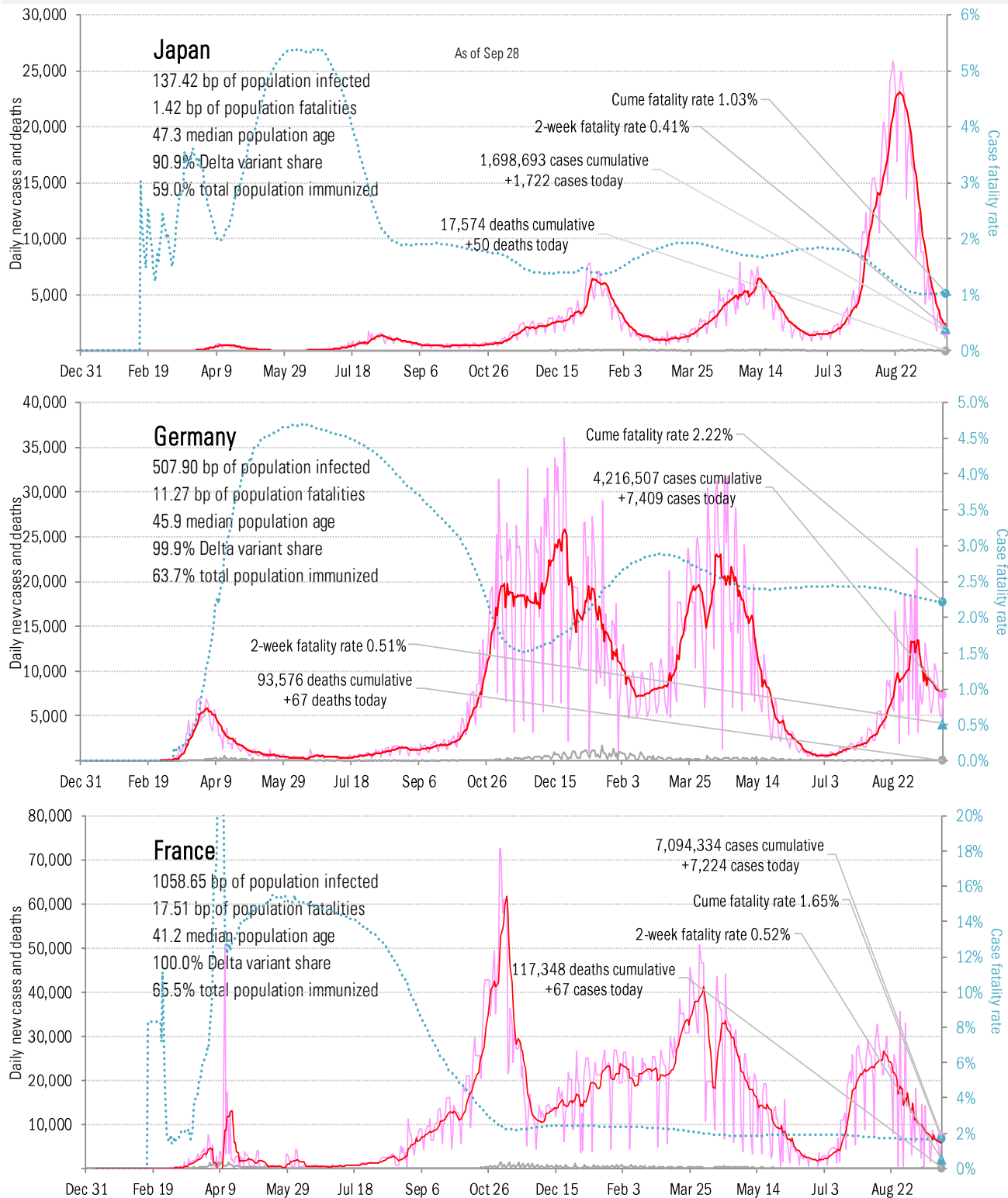
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

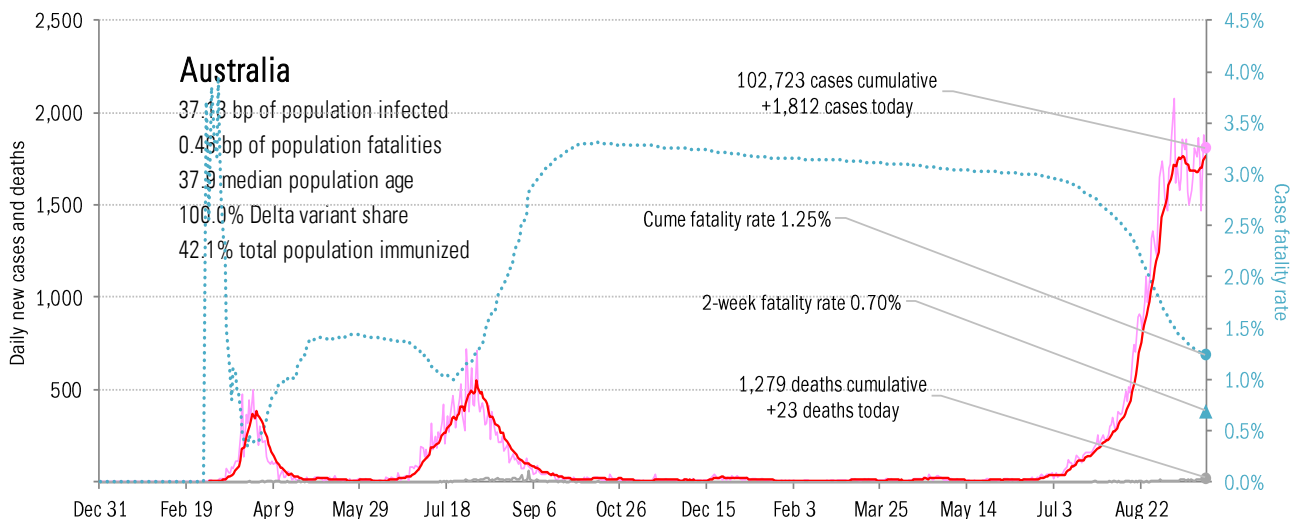
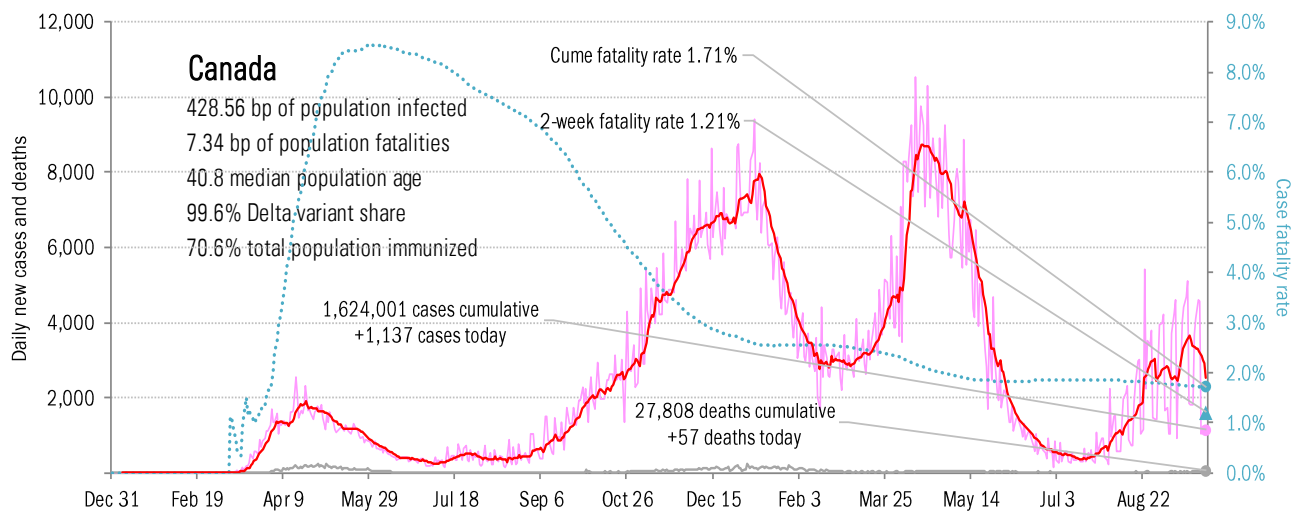
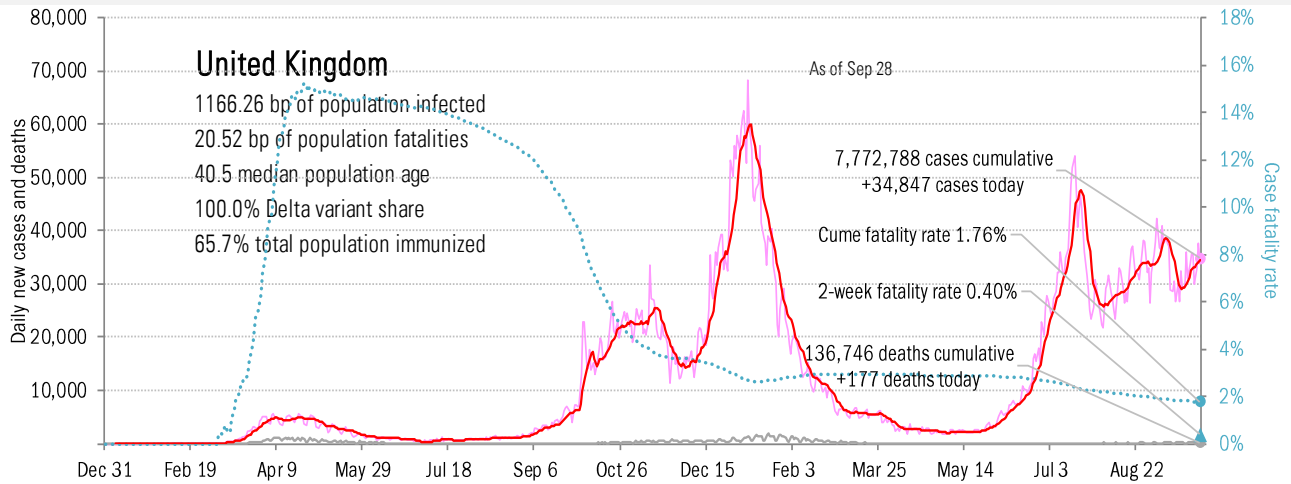
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

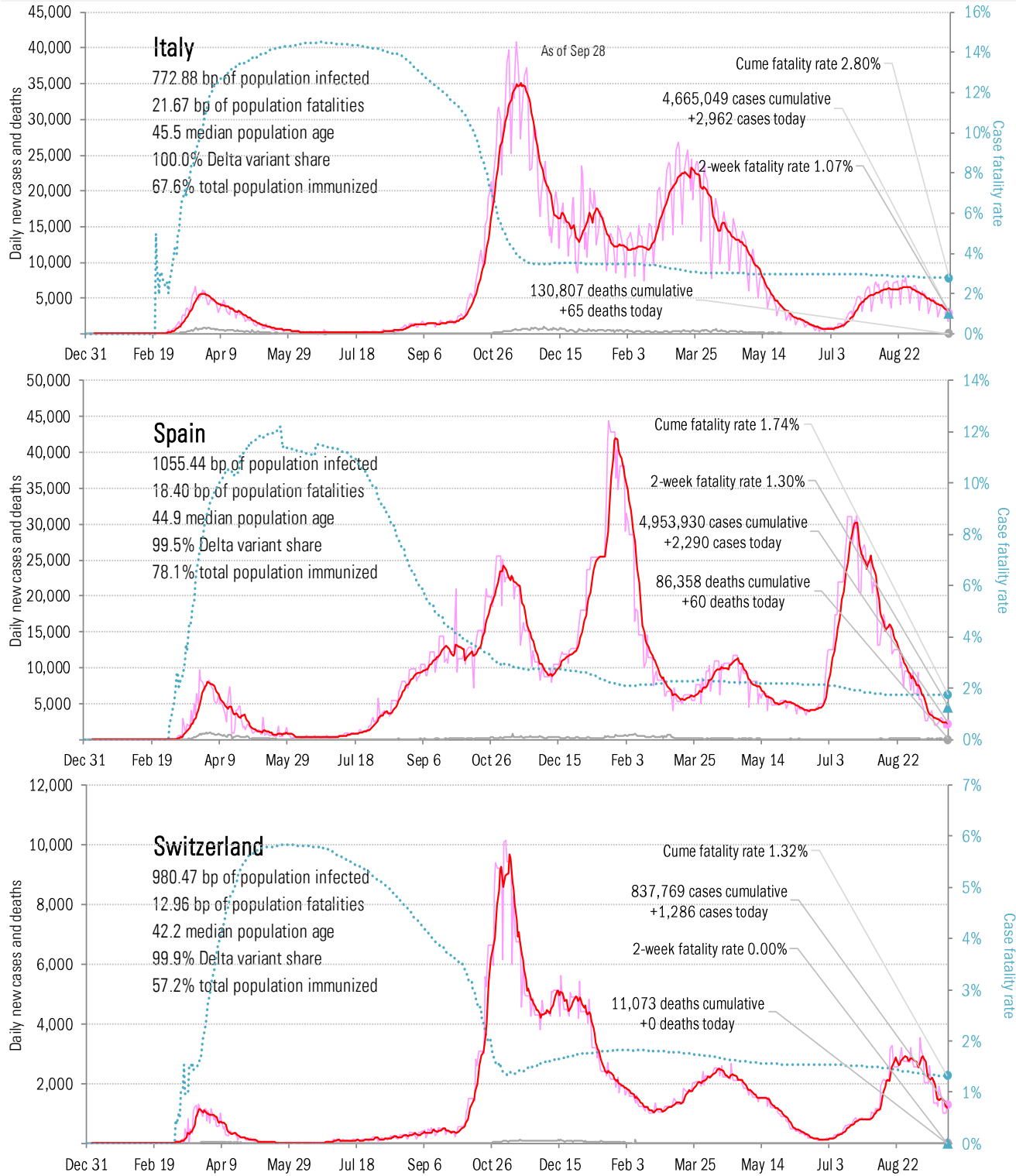
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

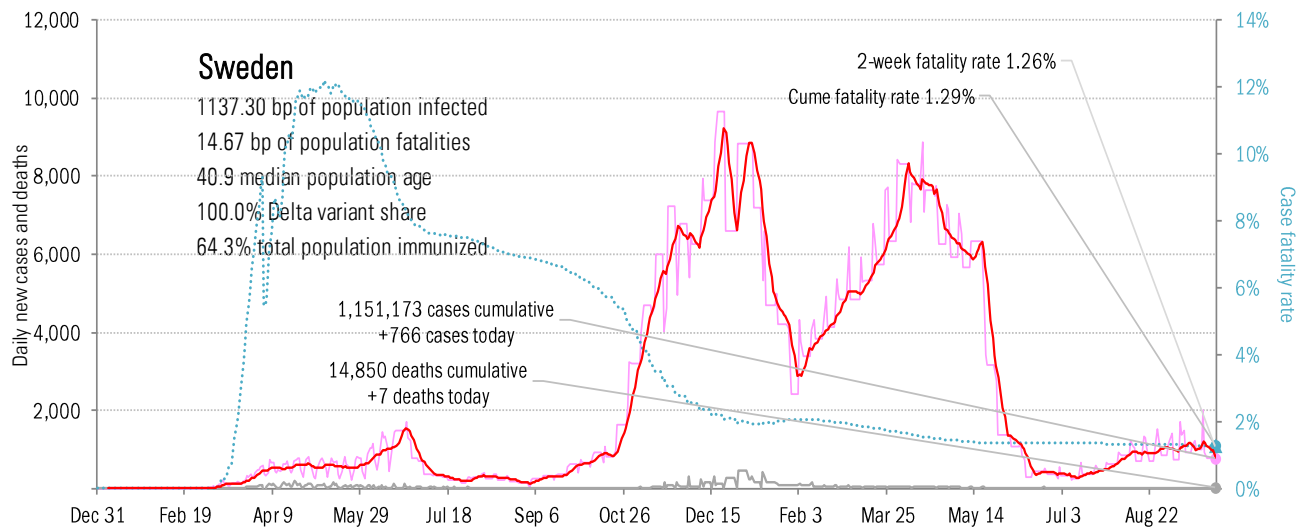
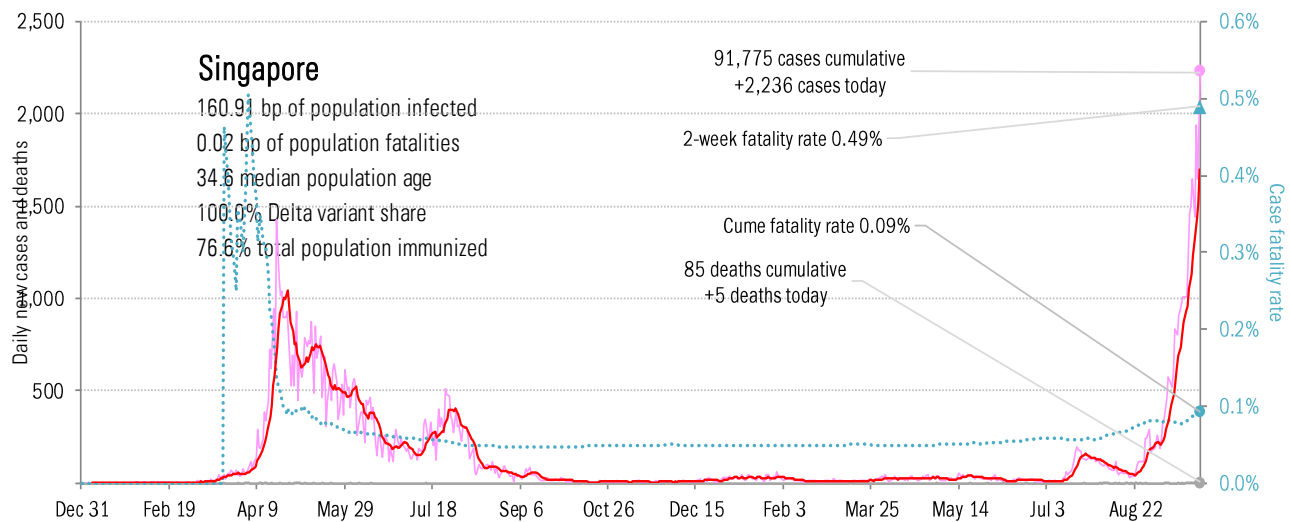
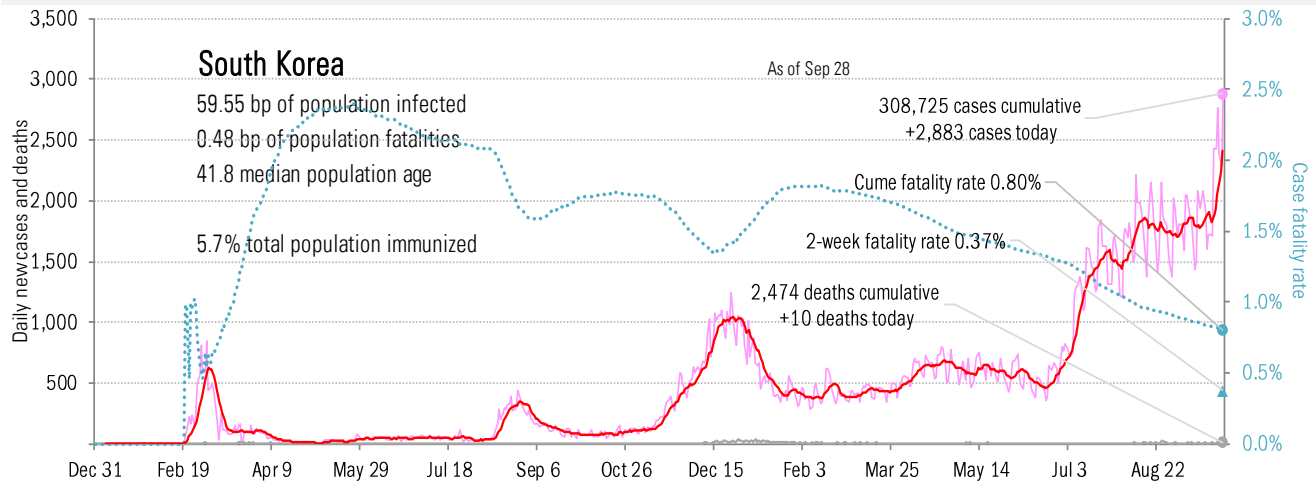
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

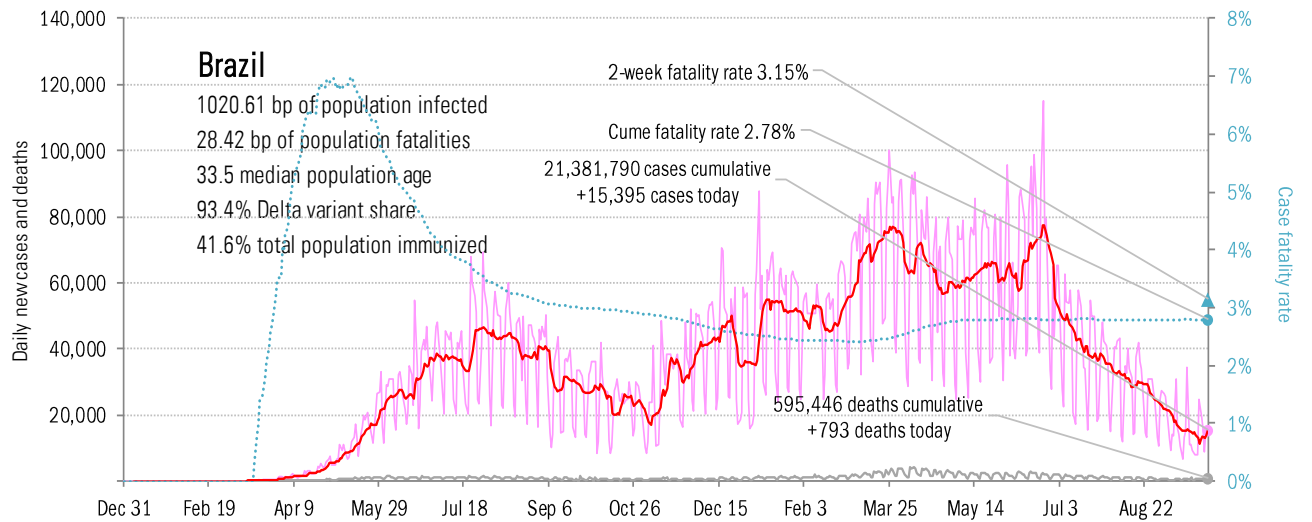
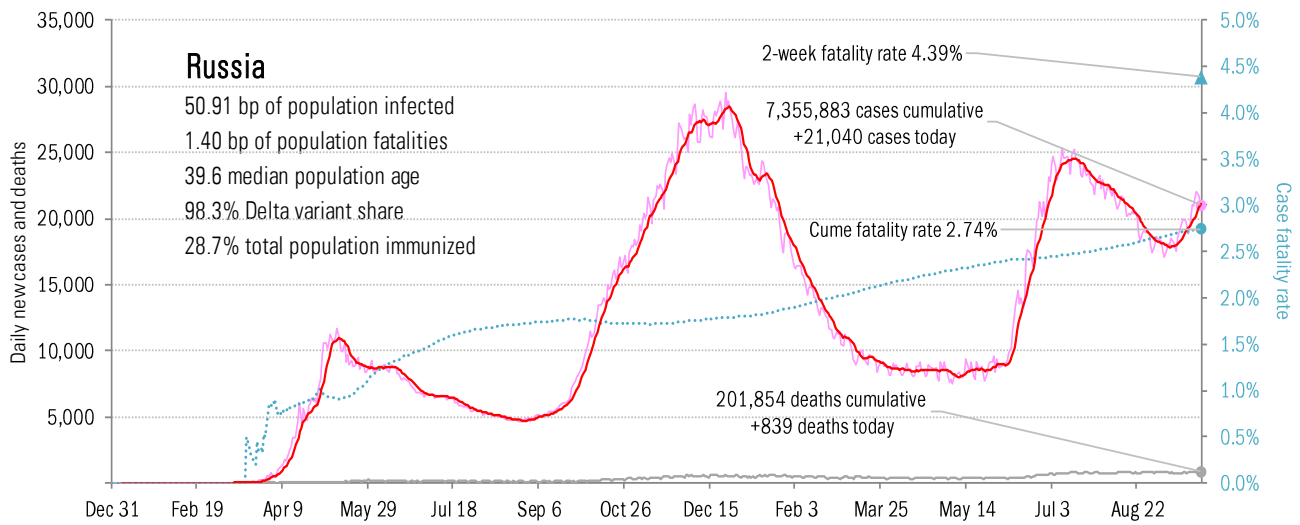
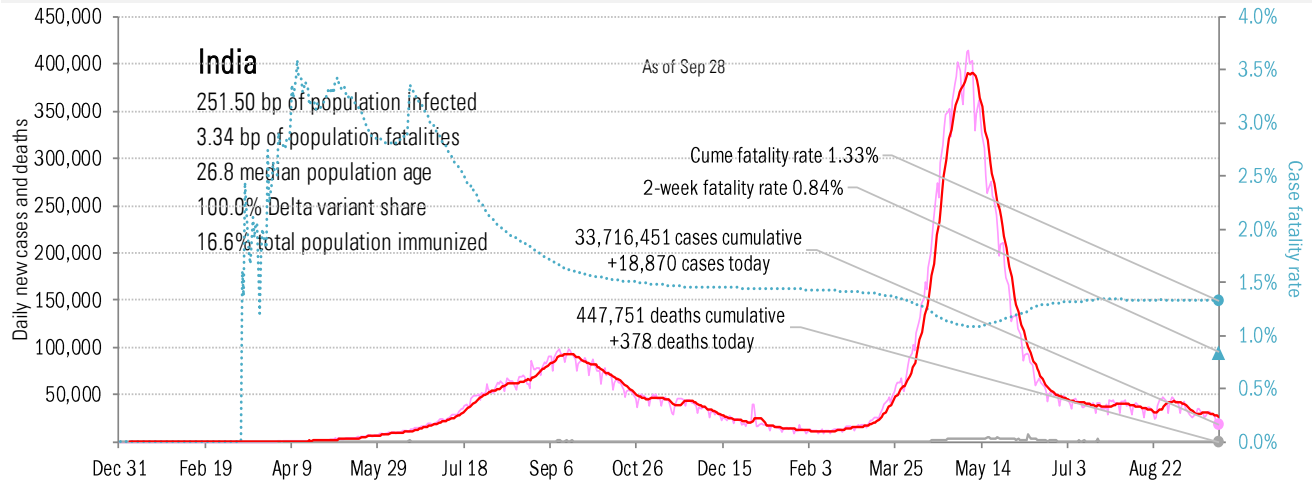
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

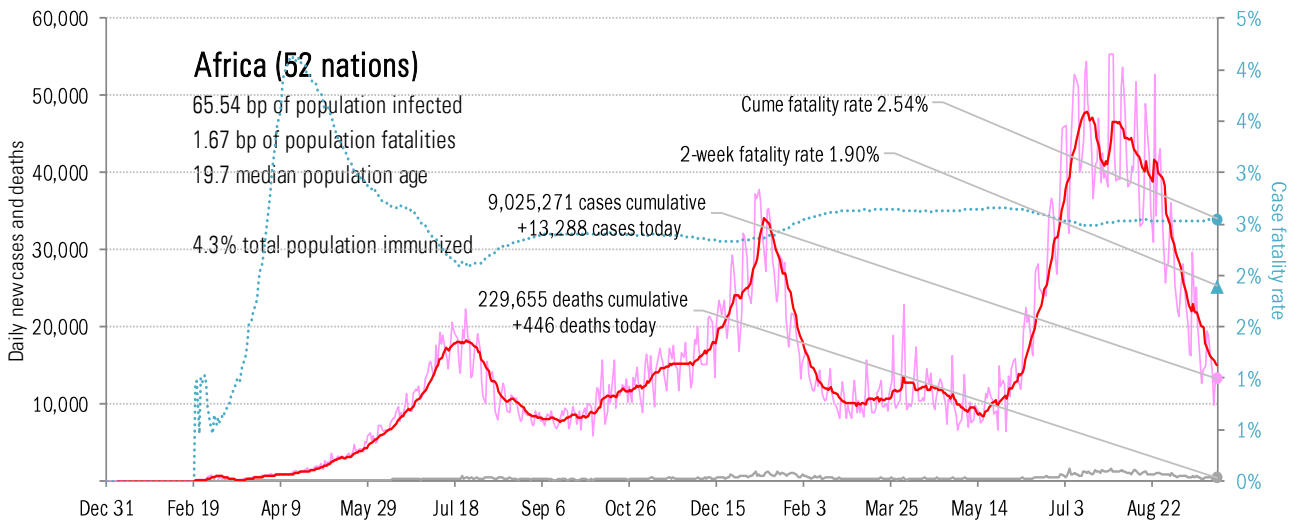
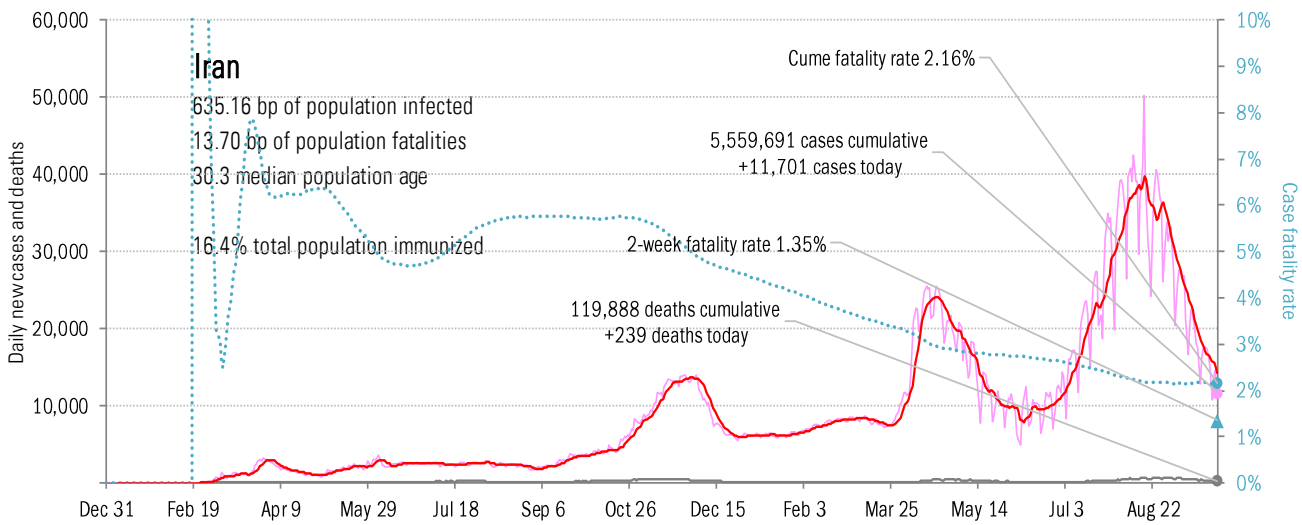
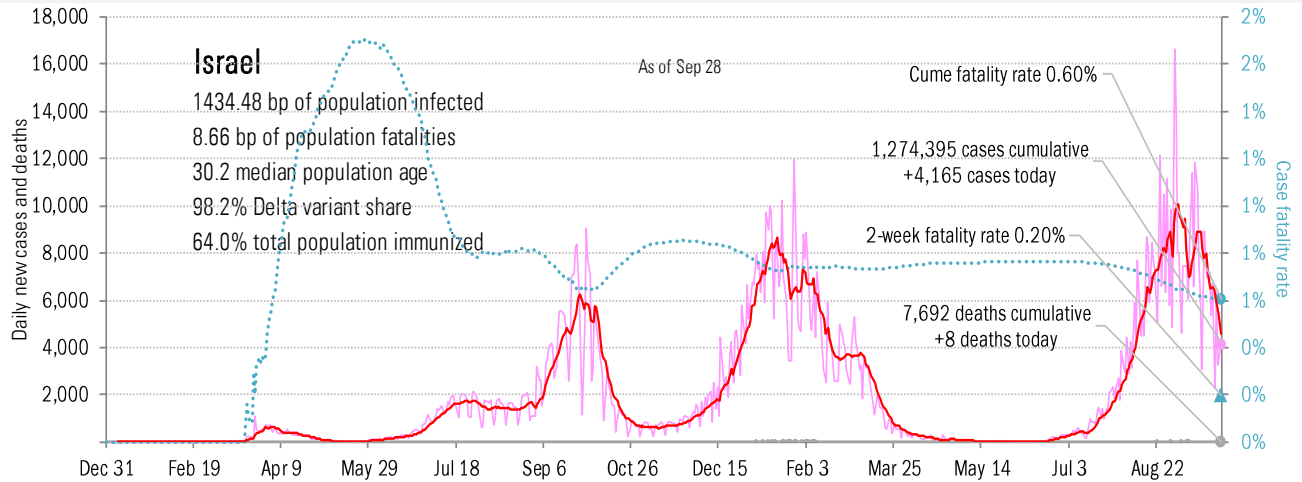
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

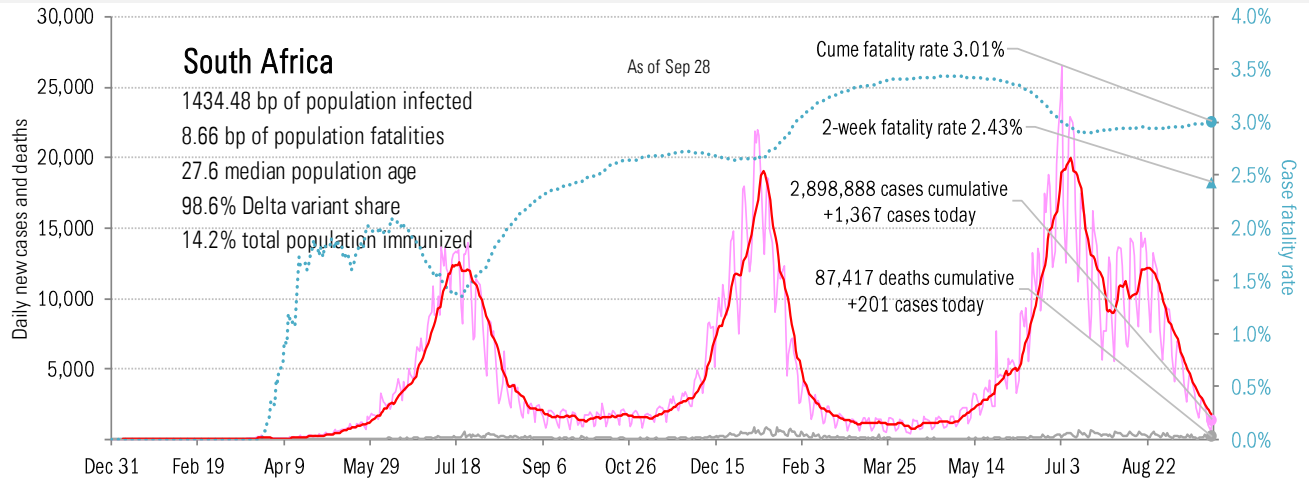
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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