

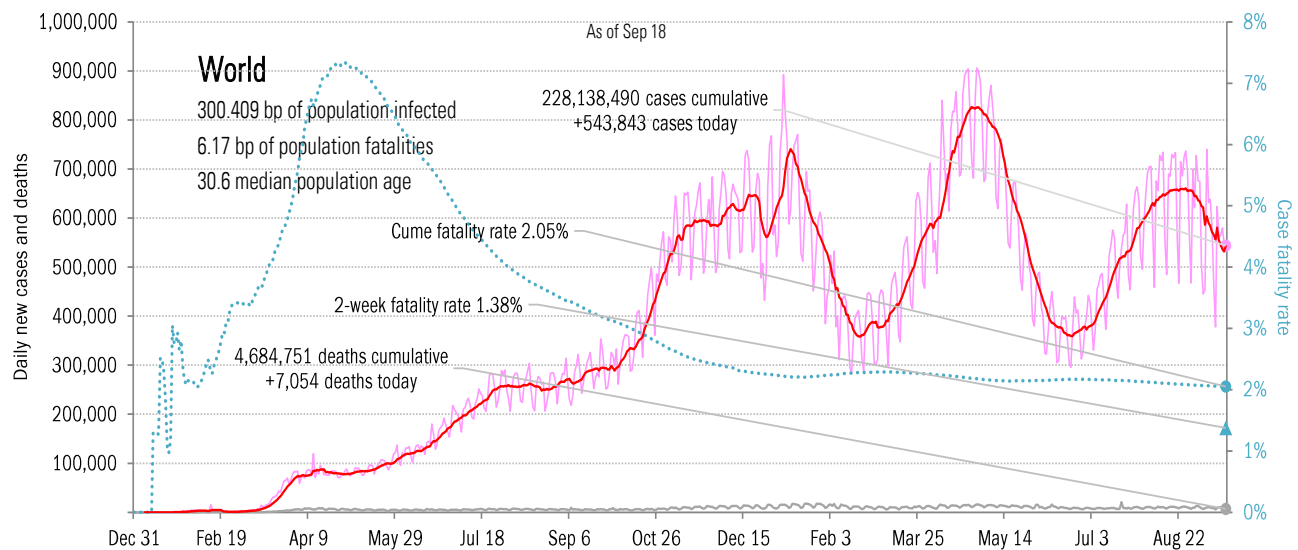
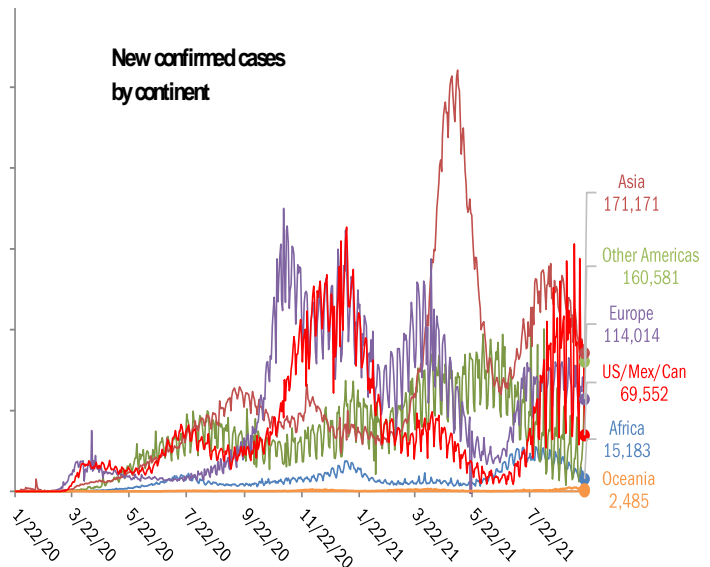
Data Insights: Covid-2019 Monitor

Sunday, September 19, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
Brazil	+150,106	United States	+1,190
United States	+67,706	Brazil	+935
India	+30,773	Russia	+780
United Kingdom	+29,476	Iran	+355
Turkey	+26,161	Malaysia	+324
Philippines	+23,075	India	+309
Russia	+19,999	Philippines	+255
Malaysia	+15,549	Turkey	+221
Thailand	+14,109	Vietnam	+220
Iran	+12,847	Indonesia	+185
+389,801		+4,774	
World +543,843		World +7,054	
Top ten 72%		Top ten 68%	



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

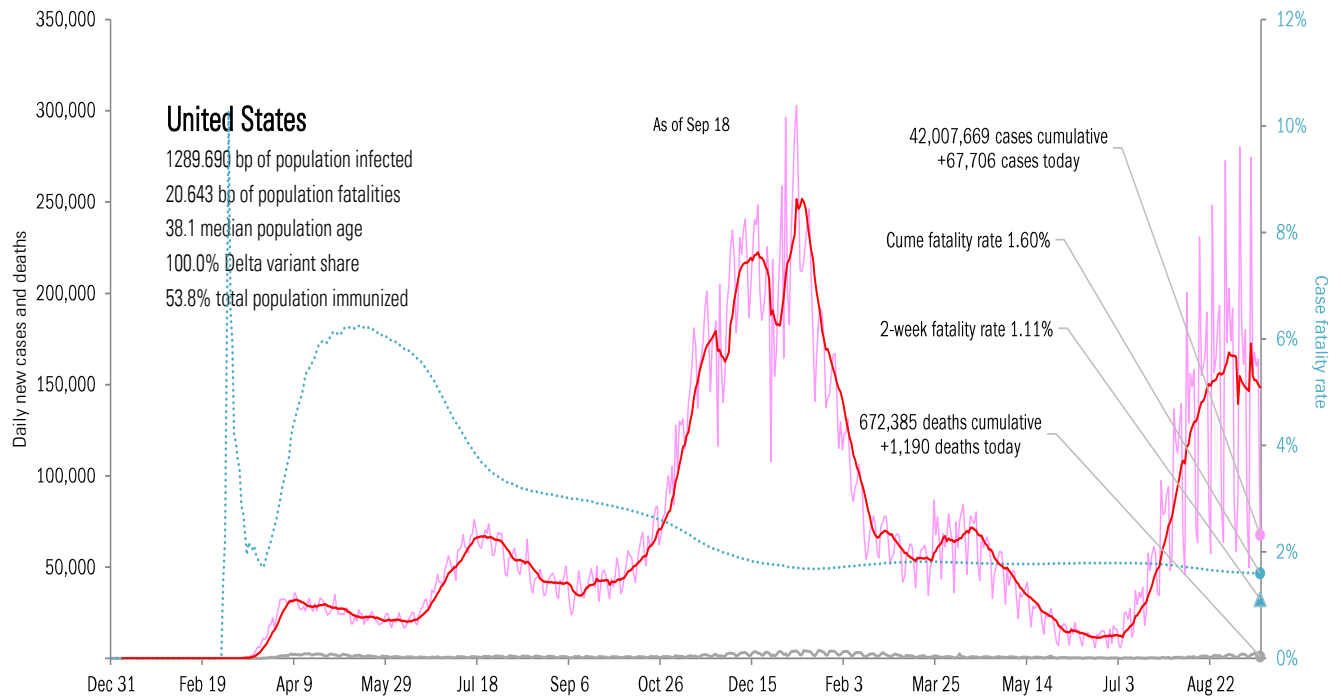
The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+10,857		FL	+353		PA	+75		CA	4,629,254		CA	67,880		TX	346,286		RI	90%	AL	99%
CA	+8,591		TX	+303		CH	+58		TX	3,933,083		TX	61,861		FL	299,757		GA	88%	GA	96%
TX	+7,947		AL	+161		VA	+54		FL	3,485,729		NY	54,865		CA	291,691		MD	86%	TX	93%
CH	+6,716		AZ	+108		MN	+49		NY	2,366,441		FL	50,153		NY	152,315		MA	85%	ID	93%
PA	+5,184		CA	+99		GA	+43		IL	1,590,342		PA	28,842		GA	147,170		PA	85%	RI	92%
IA	+5,161		PA	+30		NV	+30		GA	1,525,114		NJ	27,182		CH	105,825		MO	84%	MS	91%
NY	+3,759		ID	+23		MD	+22		PA	1,375,431		IL	26,979		KY	103,233		SC	83%	KY	91%
AL	+3,462		AR	+22		ME	+22		CH	1,342,777		GA	24,577		PA	102,959		CT	83%	OK	91%
AZ	+2,742		NY	+19		WA	+21		NC	1,330,492		MI	21,997		IL	97,241		FL	82%	AR	90%
NJ	+2,623		NJ	+17		MI	+17		TN	1,178,168		CH	21,471		MI	80,988		MN	82%	FL	88%
+57,042			+1,135			+391			22,756,831			385,807			1,727,465						
All states	+67,706			+1,190			-793		All states	42,007,669			672,385			3,062,866		All states	70%		67%
Top ten	84%			95%			-49%		Top ten	54%			57%			56%		Median	78%		80%

Some states not reporting

Five most improved US states

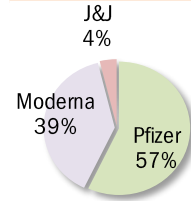
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
TX	-8,941	CH	-206	KY	-367	MS	+40 bp
NC	-7,905	GA	-117	MA	-54	UT	+30 bp
MI	-6,686	NC	-95	OK	-42	VA	+30 bp
TN	-6,446	NY	-85	NY	-38	GA	+20 bp
GA	-5,592	SC	-82	OR	-37	LA	+20 bp



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	395,744,911		+0.944 million		US	53.8%	62.9%	
	One dose	% Pop	Immune	% pop	New immune today	UK	65.0%	71.2%
Total population	216,633,171	65%	185,596,083	56%	+0.472 million	France	63.7%	73.6%
Age 12 to 17	13,343,037	56%	10,649,214	45%	+0.061 million	Spain	76.6%	80.0%
Age 18 to 64	149,642,310	74%	127,211,934	62%	+0.357 million	Germany	62.4%	66.5%
Age 65 and over	52,594,521	96%	46,875,147	86%	+0.052 million	Italy	65.5%	73.3%
						Australia	36.7%	57.9%
						Israel	63.4%	69.0%
						Canada	69.2%	75.3%
						Japan	53.3%	65.6%
						Africa	3.8%	6.0%
						India	14.3%	42.9%
						Brazil	37.1%	68.1%
						China	70.0%	75.8%



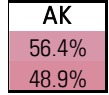
State
At least partial immunity as % population
Full immunity as % population



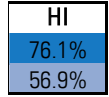
Every American >18 immune in **97 days** by Dec 23, 2021
 67.4% of population >18 immunized
 14.3% previously tested positive
81.7% vs 60% adult herd immunity

As of Sep 18

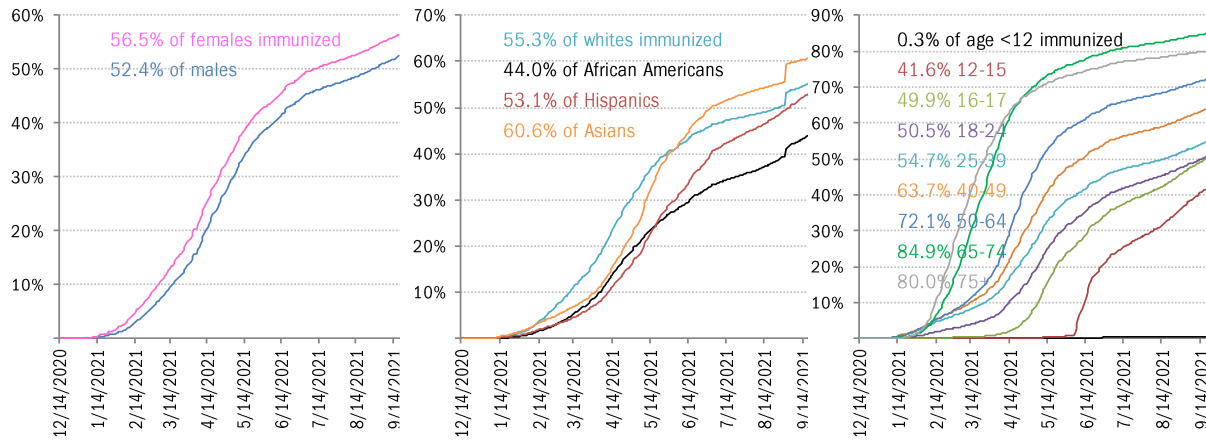
Global data differs from sources, timing



WA 70.3% 62.2%	ID 46.0% 40.7%	MT 54.0% 47.7%	ND 50.2% 43.2%	MN 63.0% 57.4%	IL 67.6% 52.6%	MI 56.3% 51.6%	NY 69.9% 62.4%	VT 77.1% 68.9%	NH 68.6% 60.9%	
OR 65.9% 59.7%	NV 59.8% 49.7%	WY 47.5% 40.6%	SD 58.2% 50.7%	IA 57.5% 53.2%	IN 51.5% 47.5%	OH 53.6% 49.5%	PA 71.2% 56.8%	NJ 71.7% 63.4%	MA 76.6% 67.2%	
CA 70.6% 57.7%	UT 58.1% 49.5%	CO 64.8% 58.5%	NE 58.7% 53.7%	MO 54.1% 46.9%	KY 59.5% 50.8%	WV 47.8% 40.1%	VA 67.4% 59.3%	MD 69.8% 63.2%	CT 75.2% 67.7%	RI 74.0% 66.9%
	AZ 58.5% 50.2%	NM 71.7% 62.0%	KS 59.0% 50.1%	AR 55.0% 44.4%	TN 51.8% 44.1%	NC 58.2% 48.5%	SC 54.1% 45.8%	DC 69.5% 59.1%	DE 65.5% 56.8%	
			OK 55.6% 46.3%	LA 51.0% 44.2%	MS 49.3% 42.1%	AL 51.7% 41.1%	GA 54.0% 44.1%			
			TX 59.1% 50.0%					FL 66.0% 55.8%	PR 78.2% 68.5%	



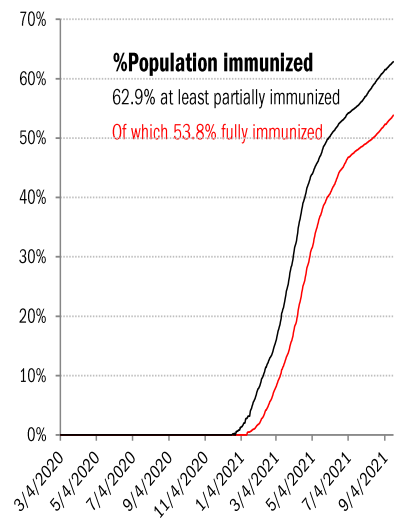
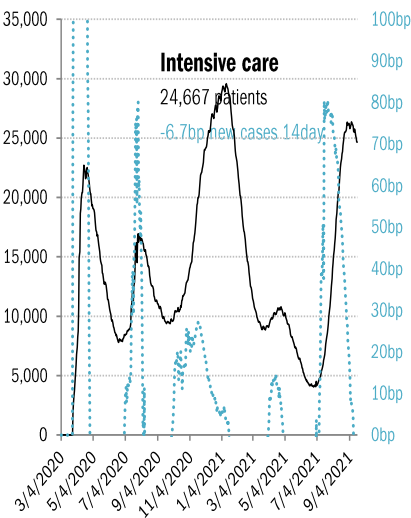
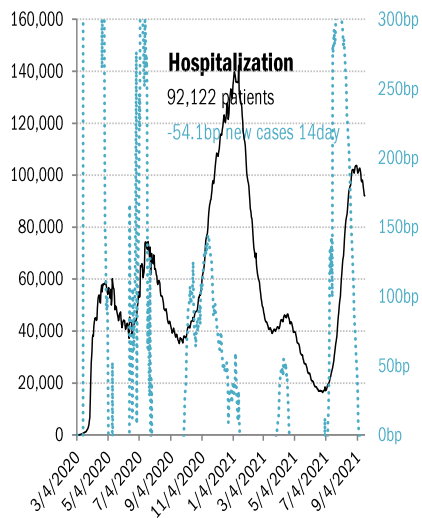
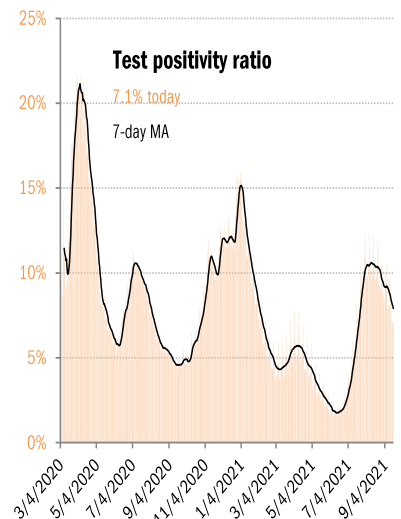
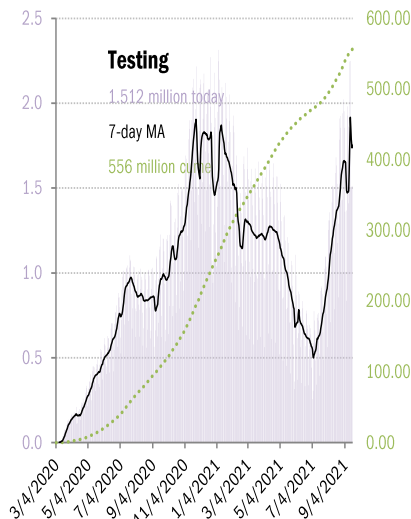
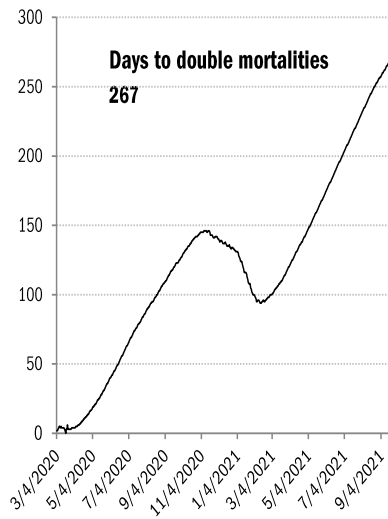
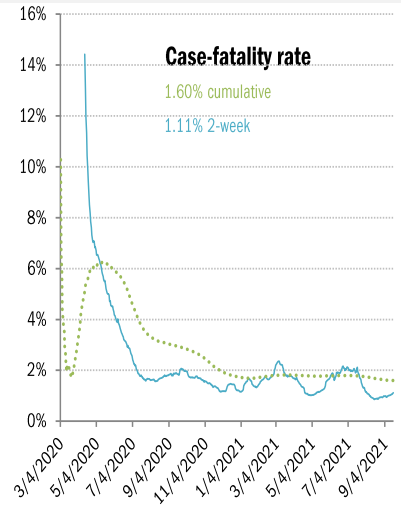
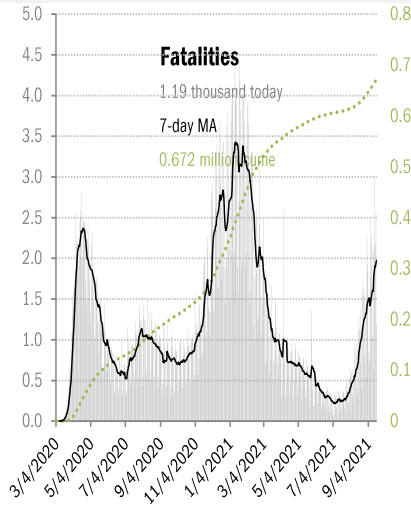
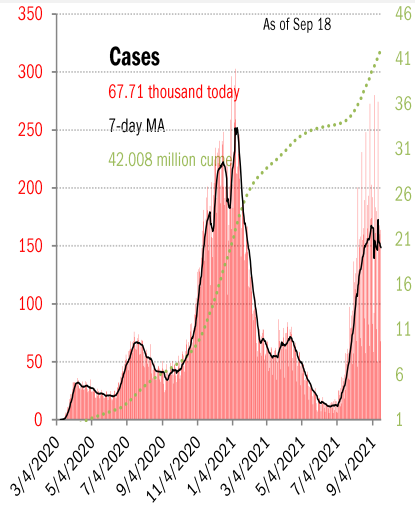
The demographics of US vaccination



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

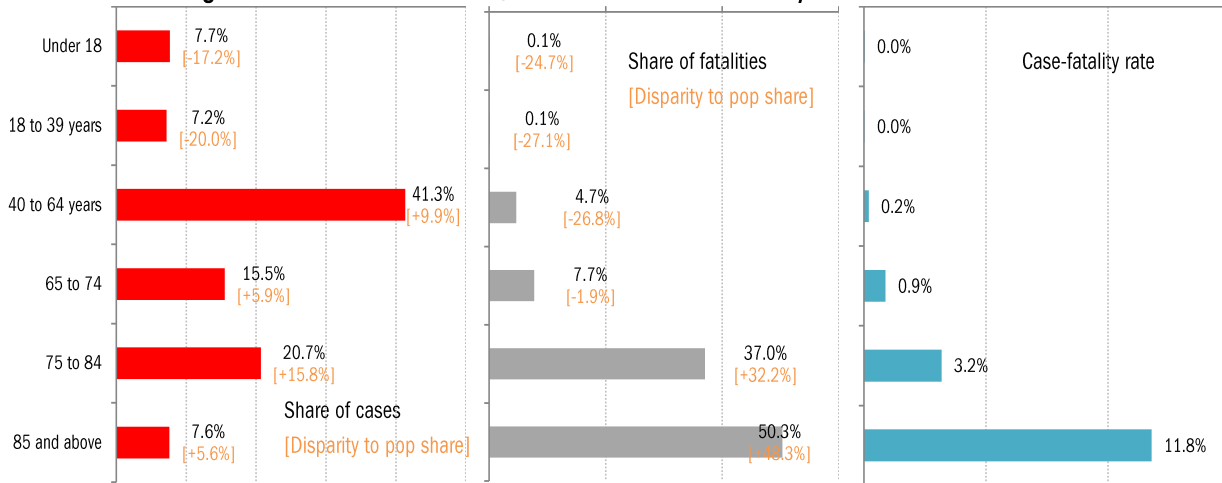
US deep-dive

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

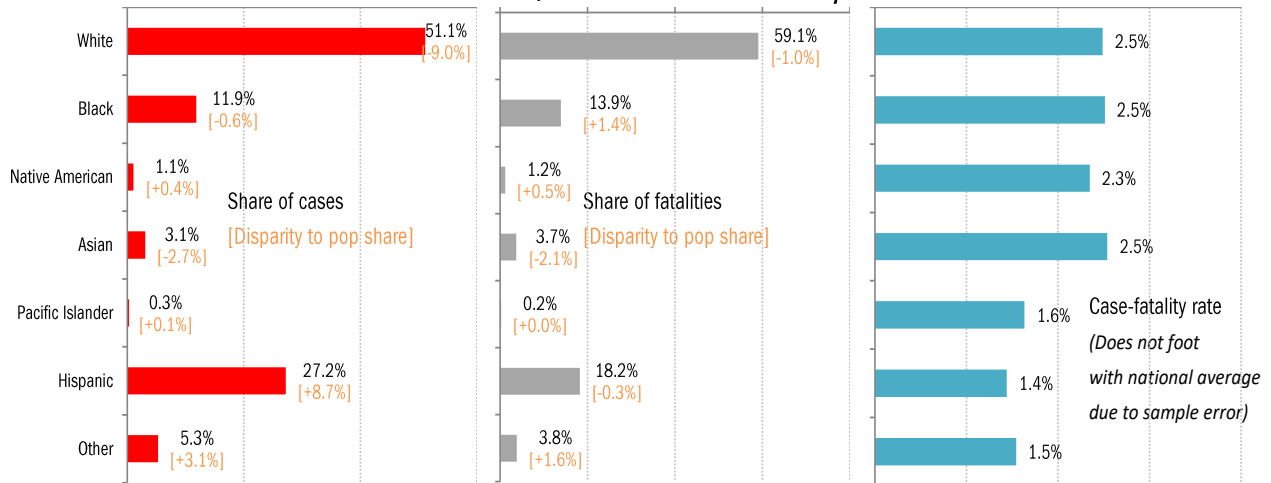


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

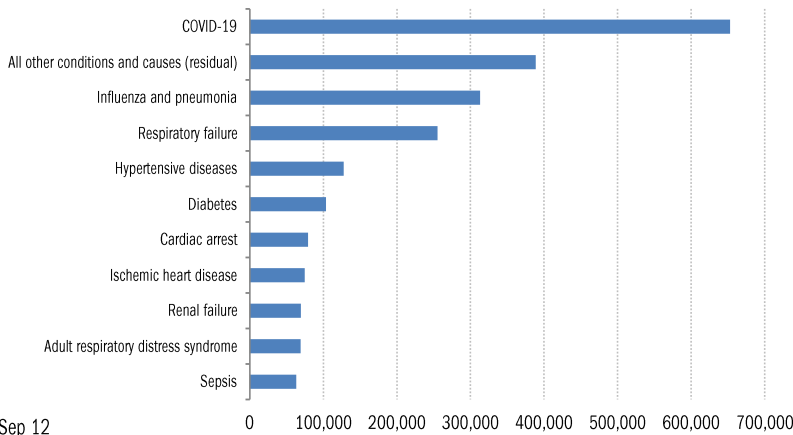


Racial distribution of US cases, fatalities and case-fatality rates Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 12

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-stricken Alabama had more deaths than births last year, a first in its recorded history.](#)

Eduardo Medina
New York Times
September 18, 2021

[They Shunned Covid Vaccines but Embraced Antibody Treatment](#)

Benjamin Mueller
New York Times
September 18, 2021

[It's That Time of Year, Experts Warn: Get a Flu Shot](#)

Christine Hauser
New York Times
September 18, 2021

[Illinois Governor's Mask Mandate for Students Slapped Down in Court](#)

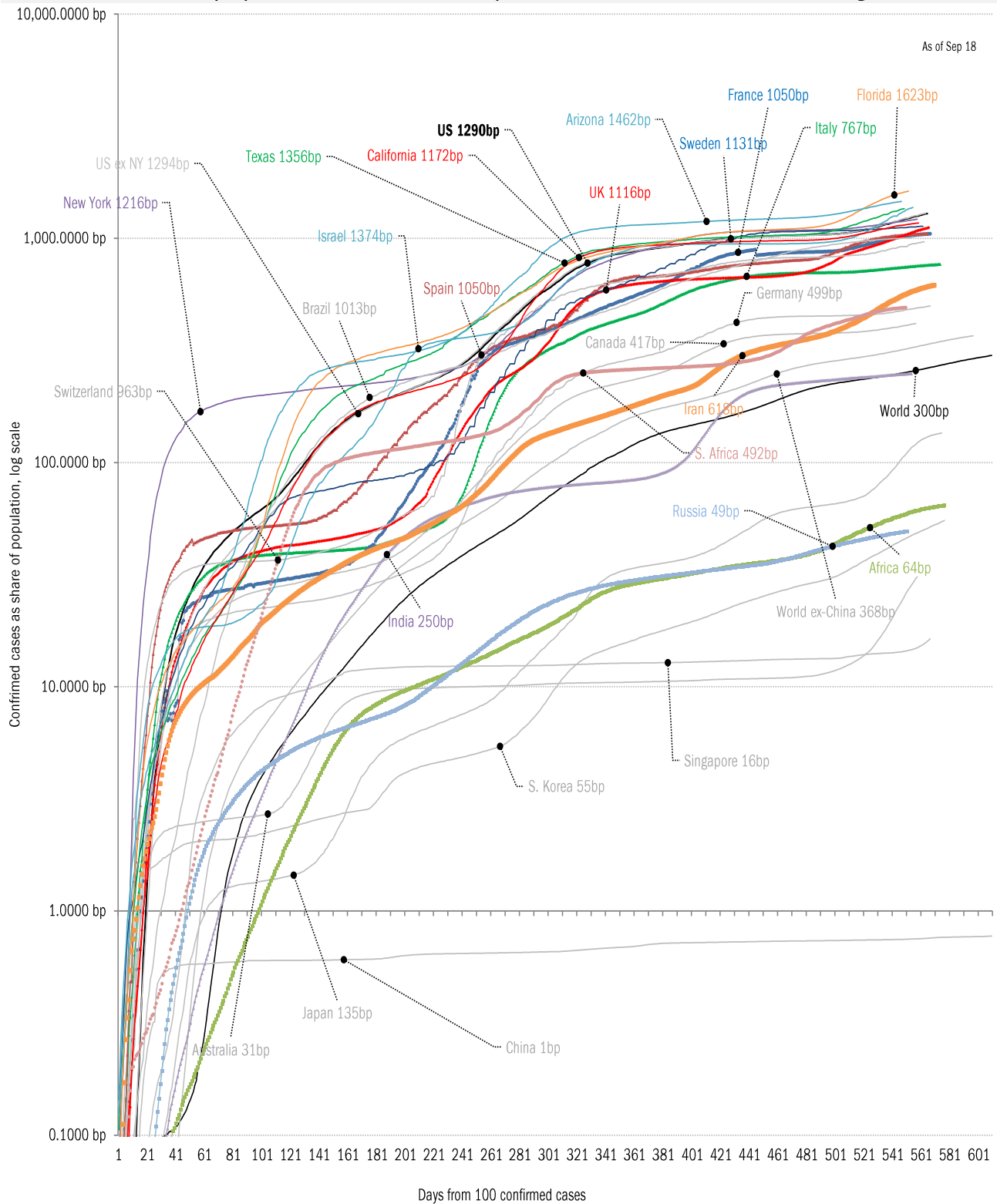
Megan Fox
PJ Media
September 17, 2021

Meme of the day



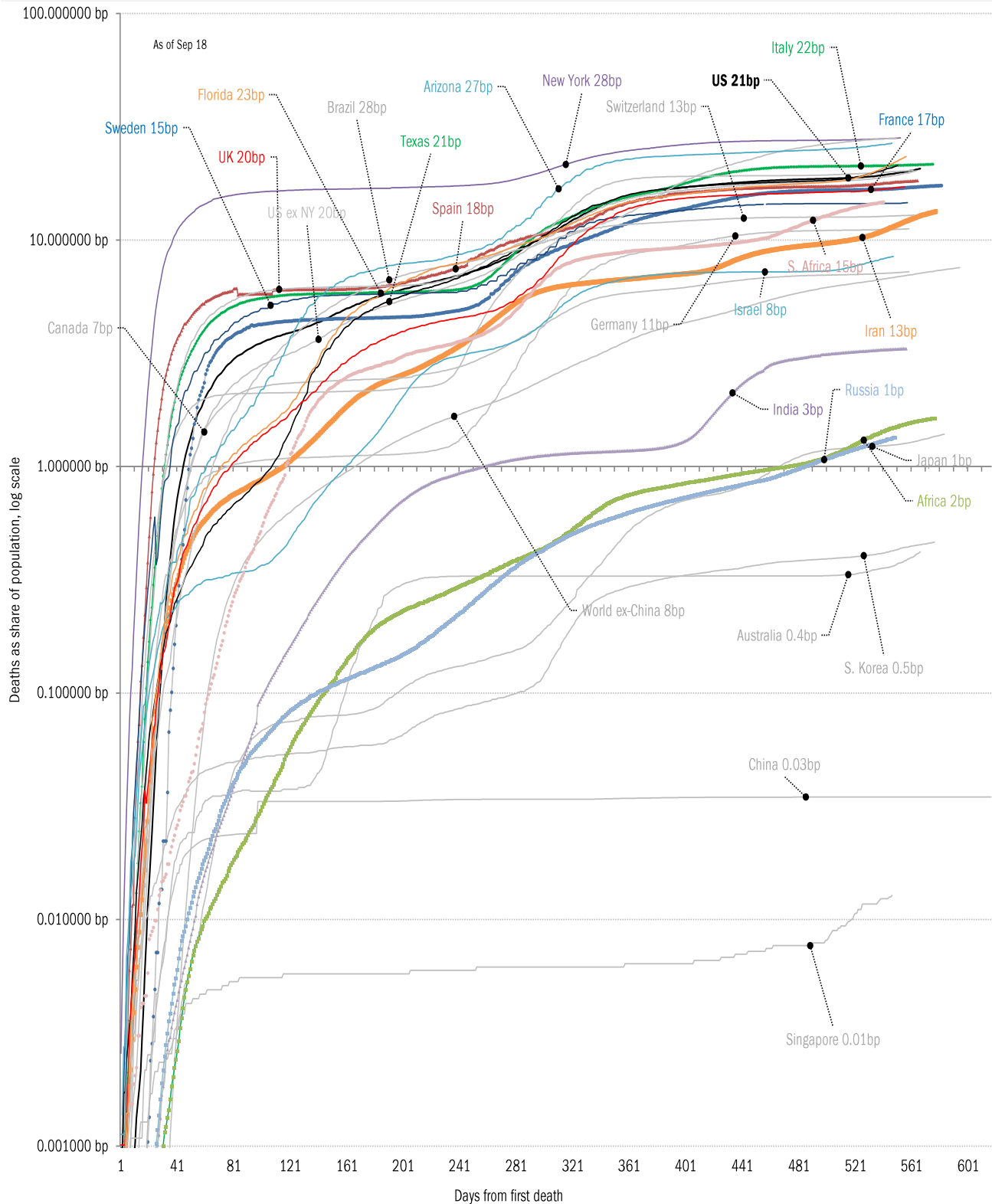
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

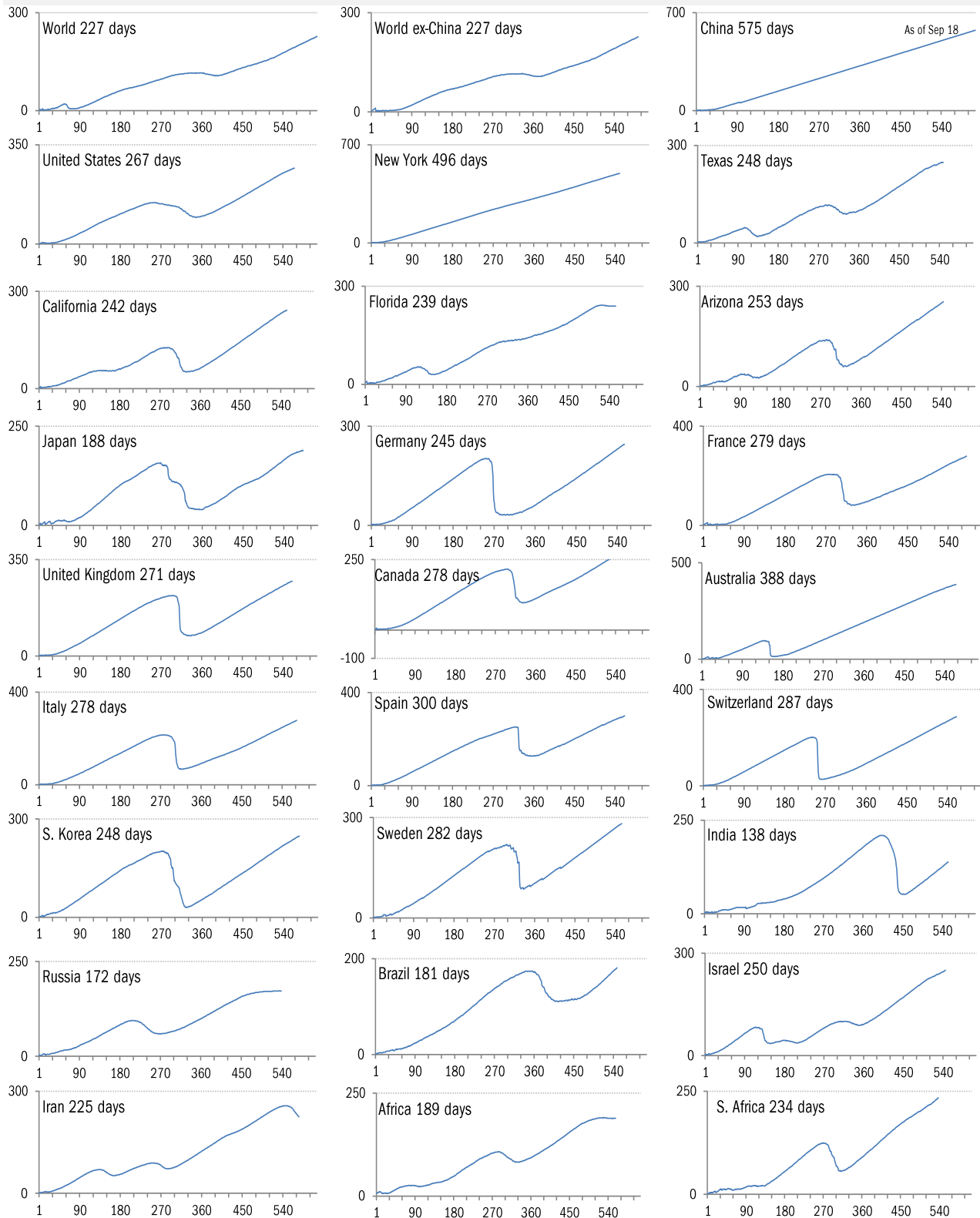


Source: [Johns Hopkins](#), TrendMacro calculations

"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

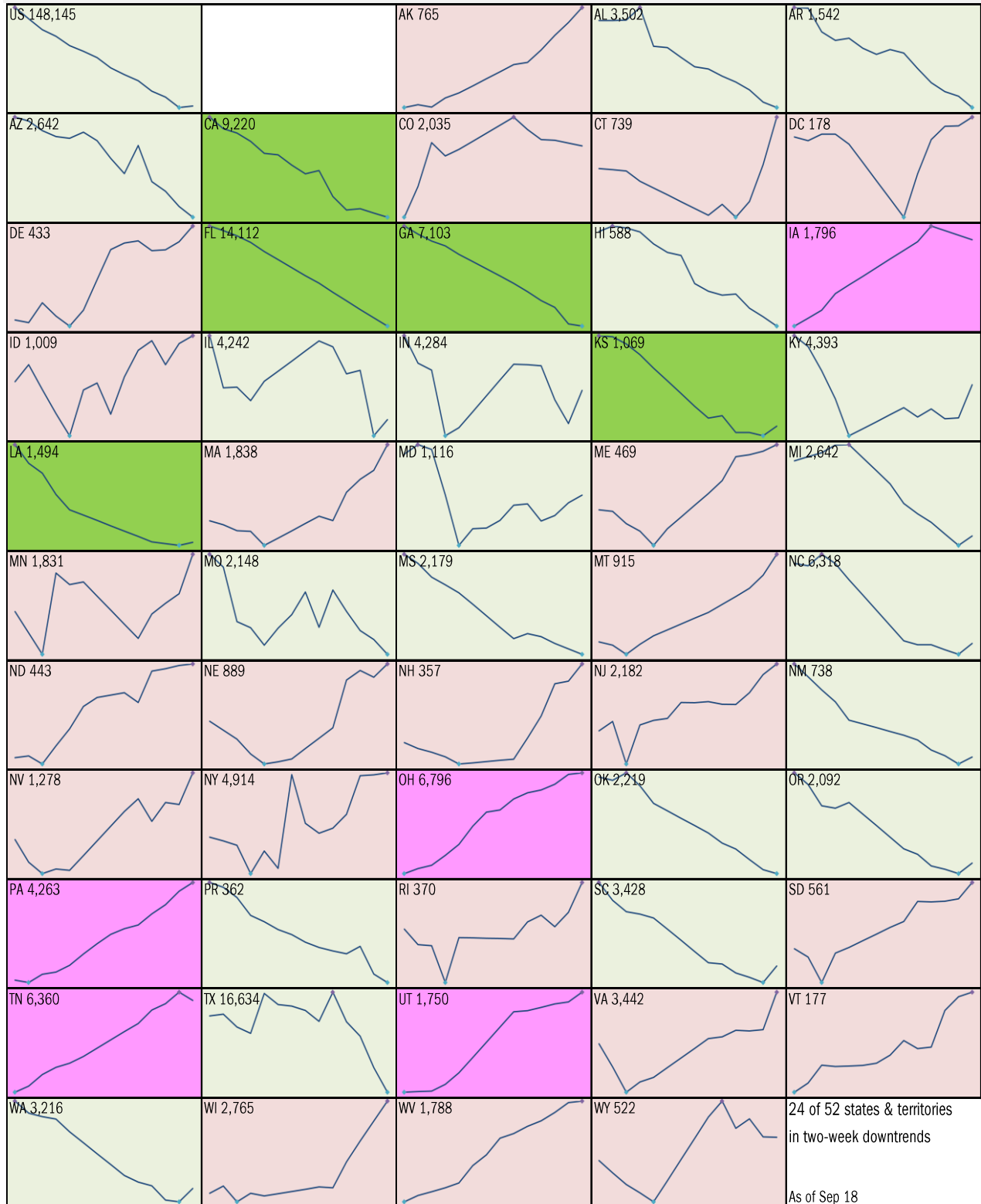


Source: [Johns Hopkins](#), TrendMacro calculations

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

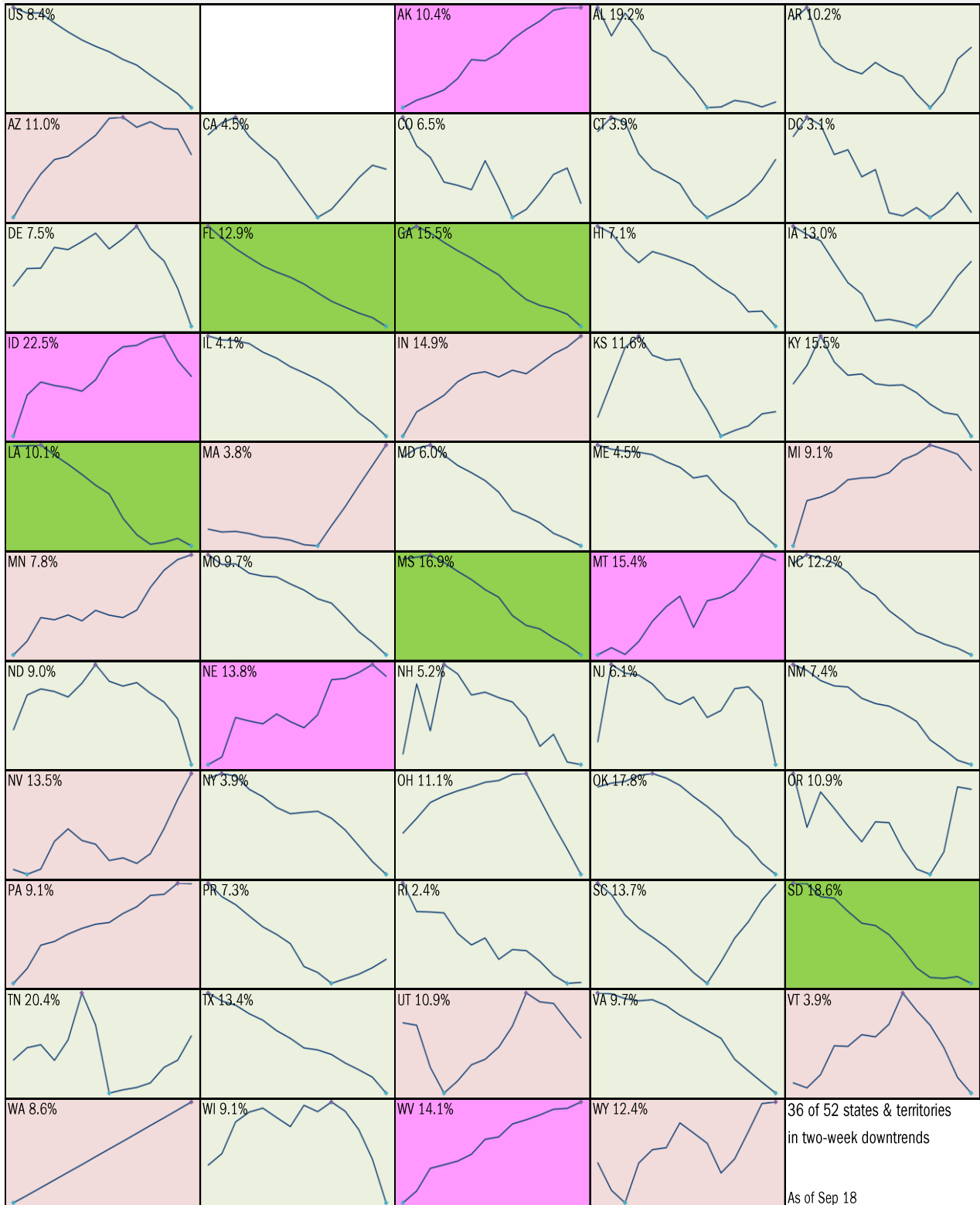


Source: [Johns Hopkins](#), TrendMacro calculations

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

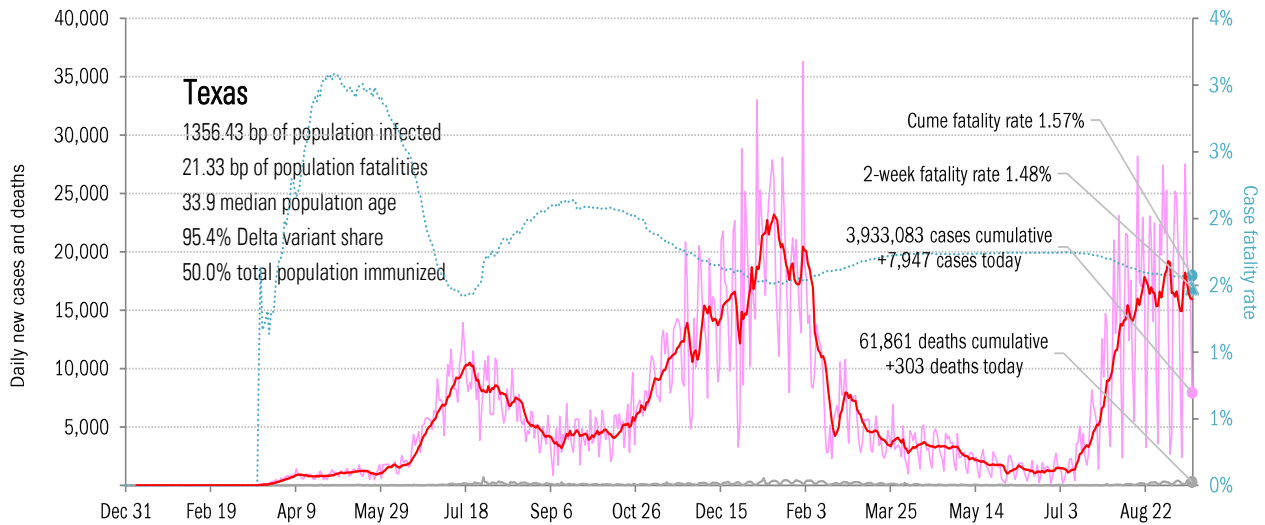
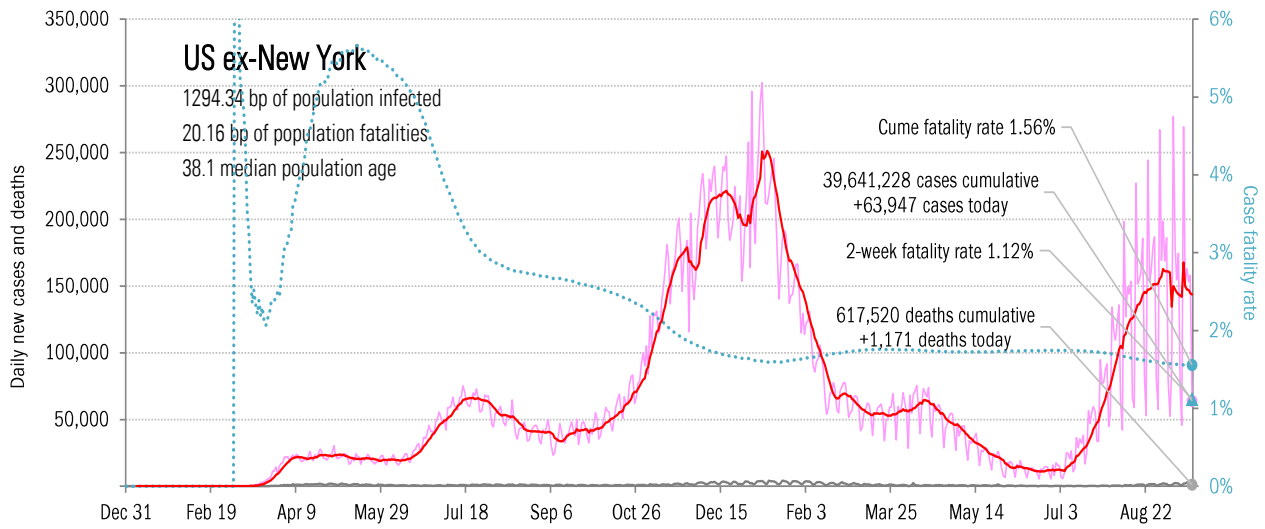
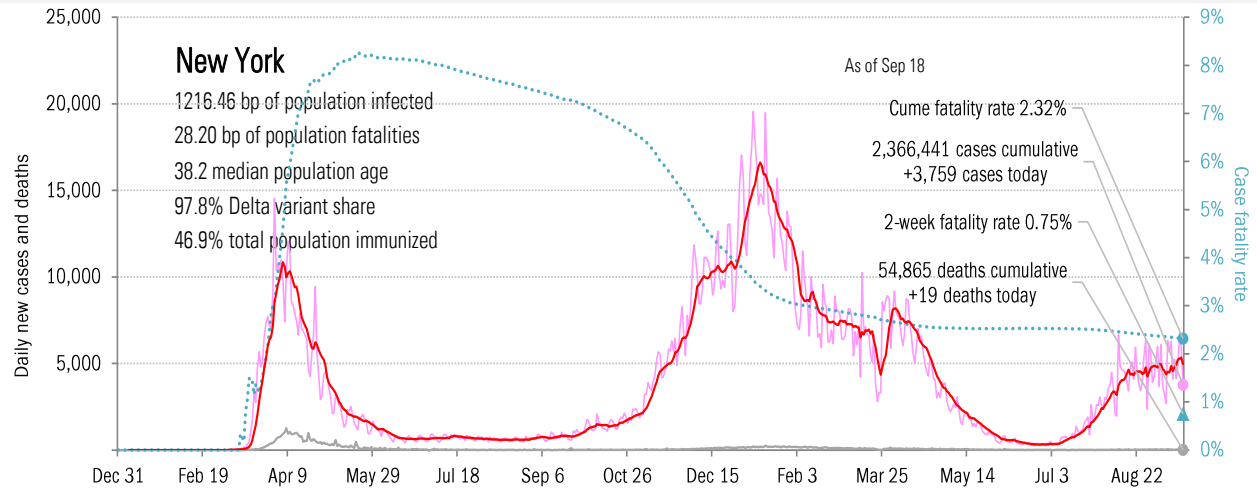
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

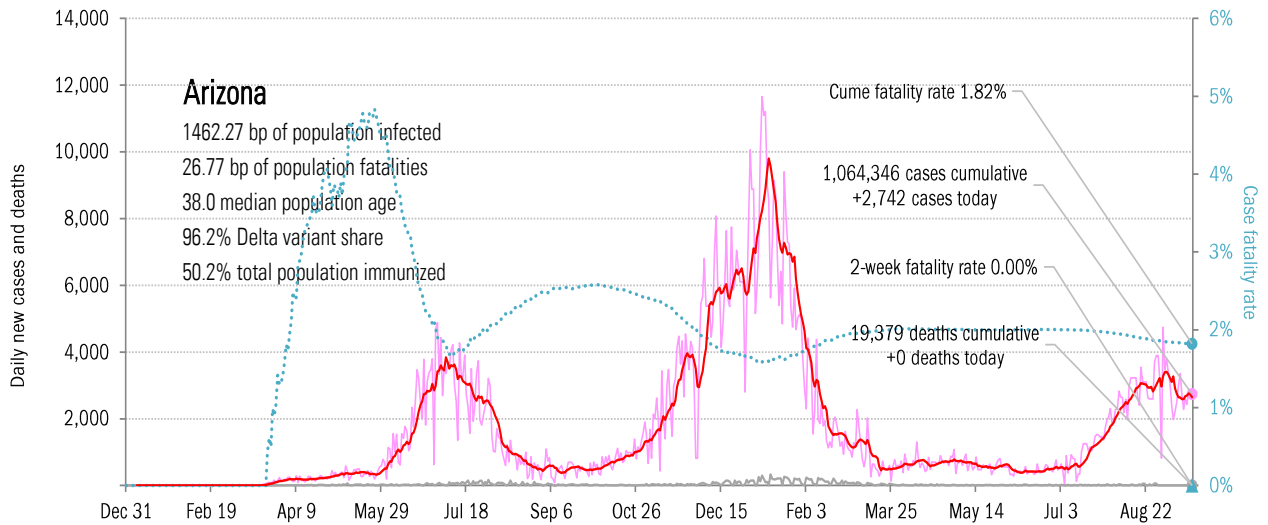
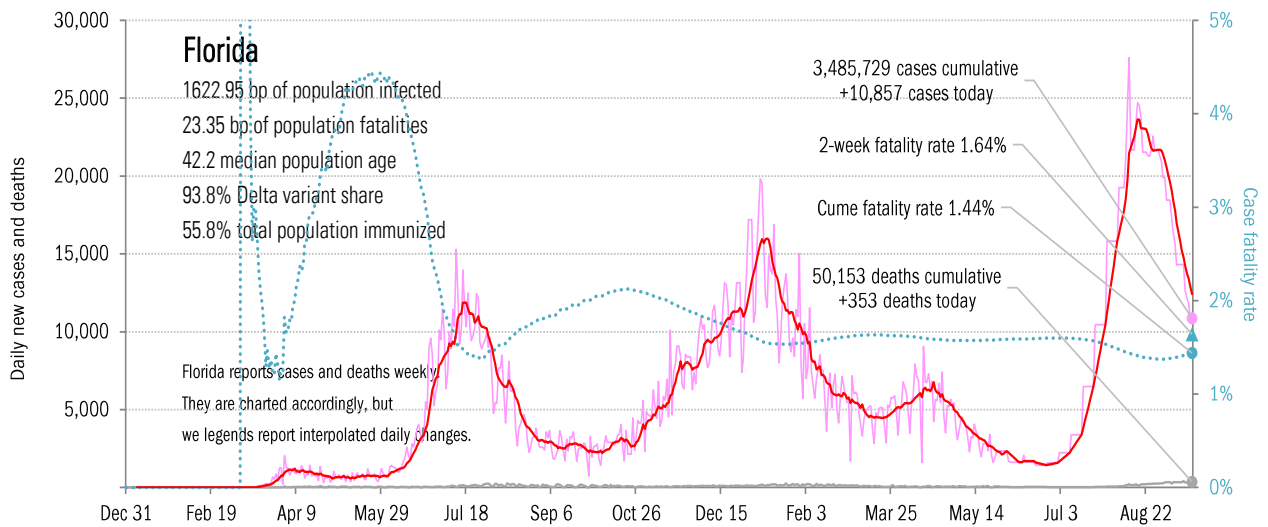
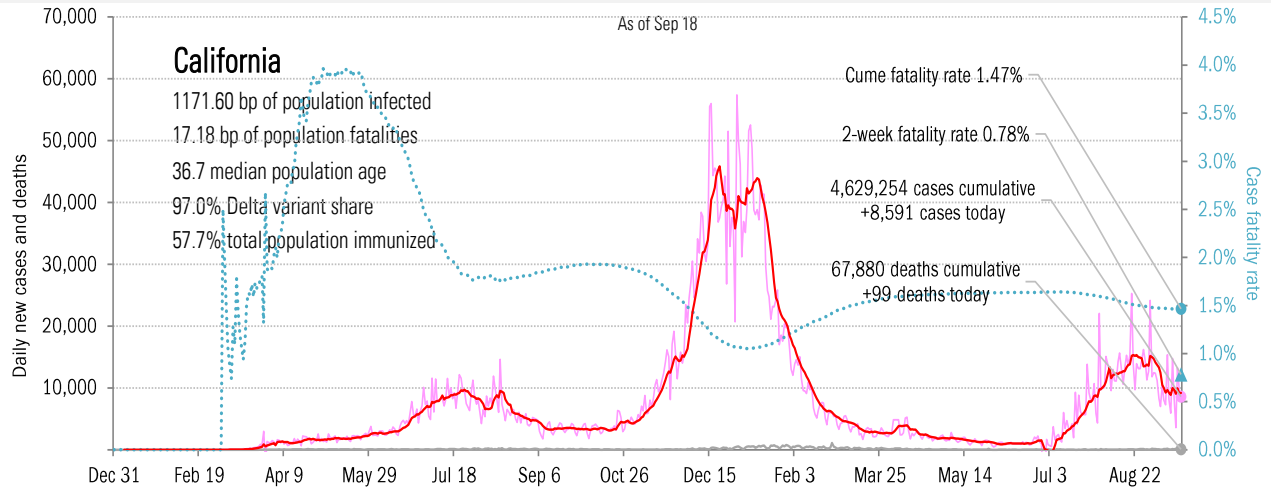
Cases: 7-day average and daily Deaths: Daily



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

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

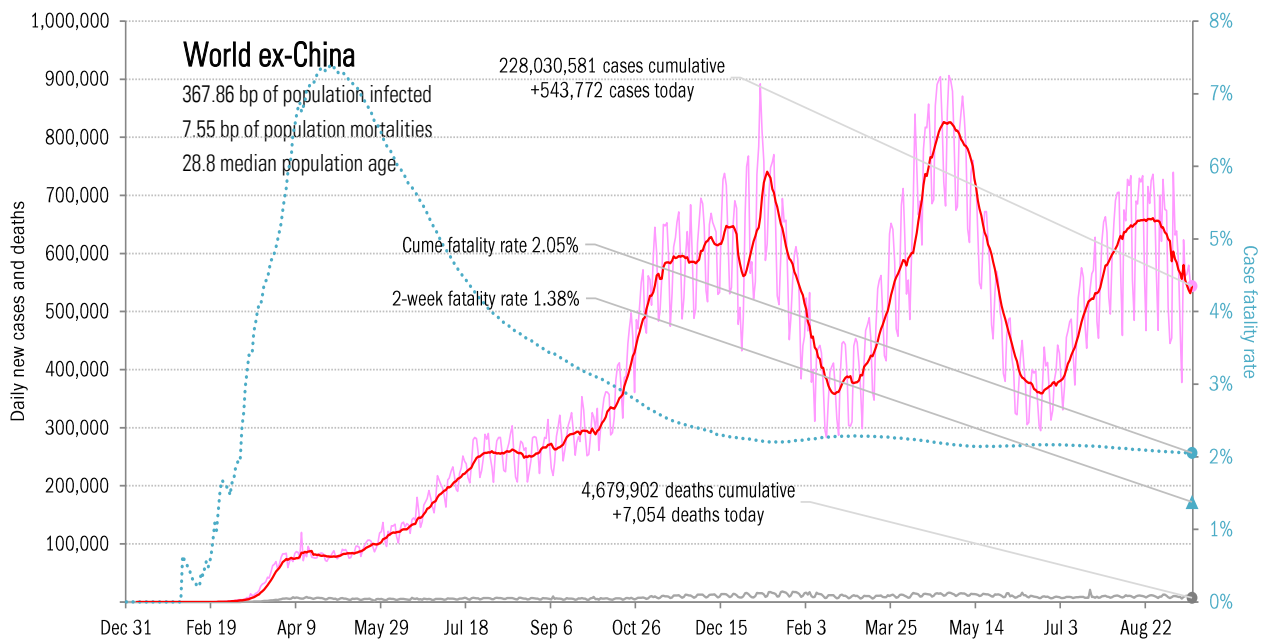
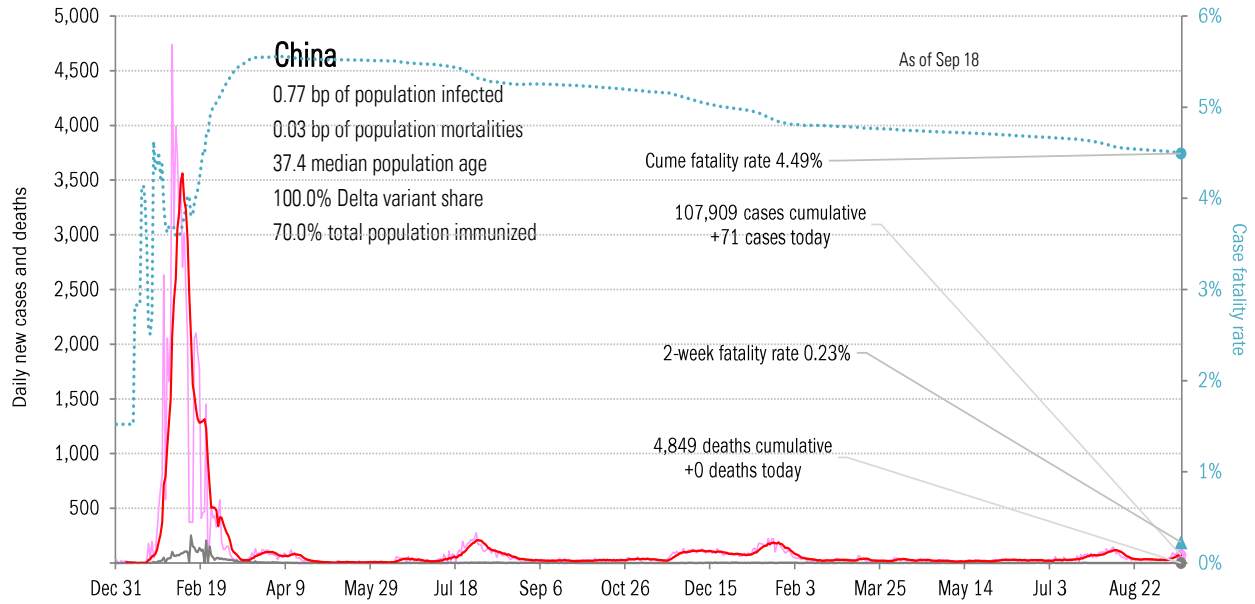
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

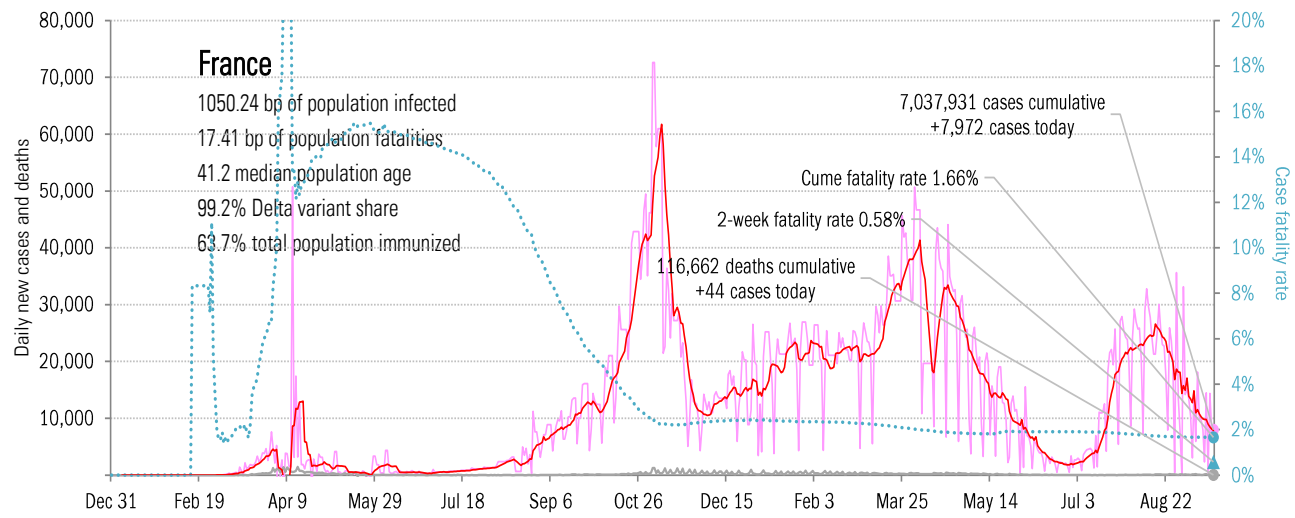
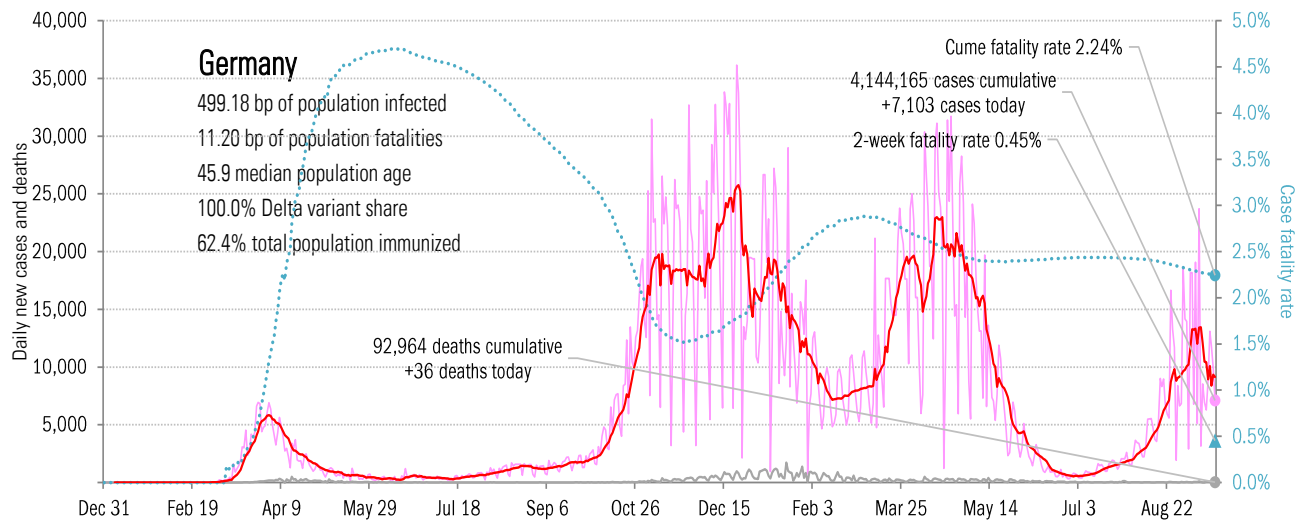
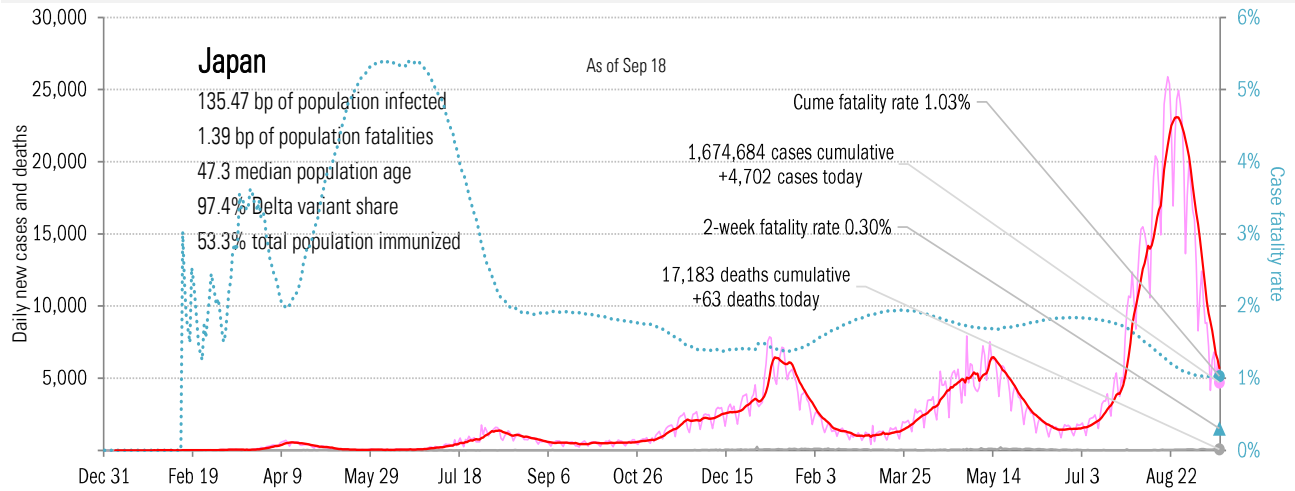
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

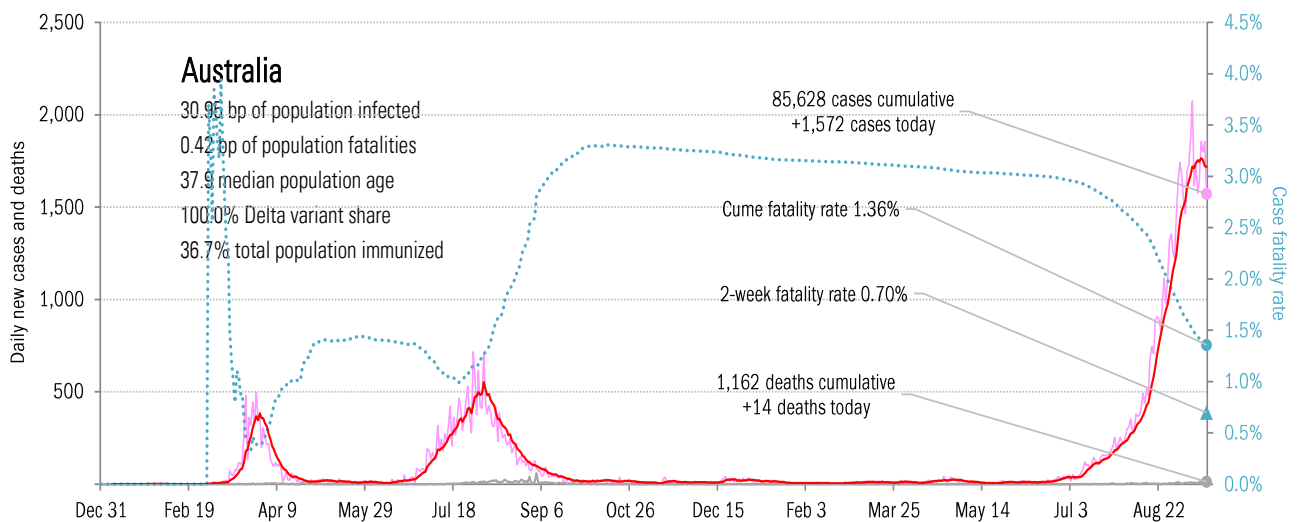
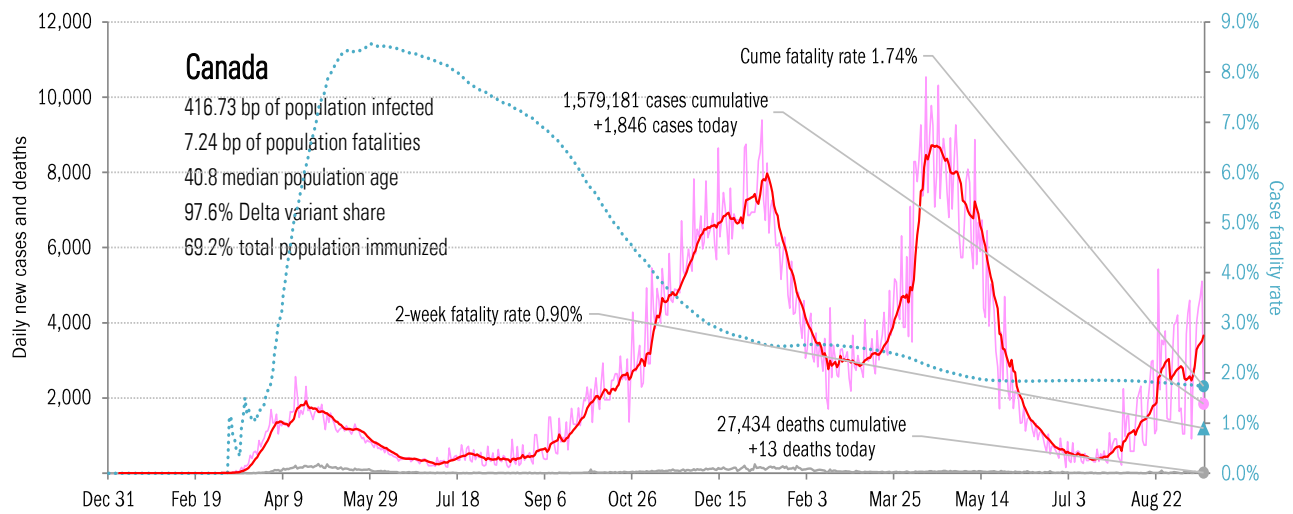
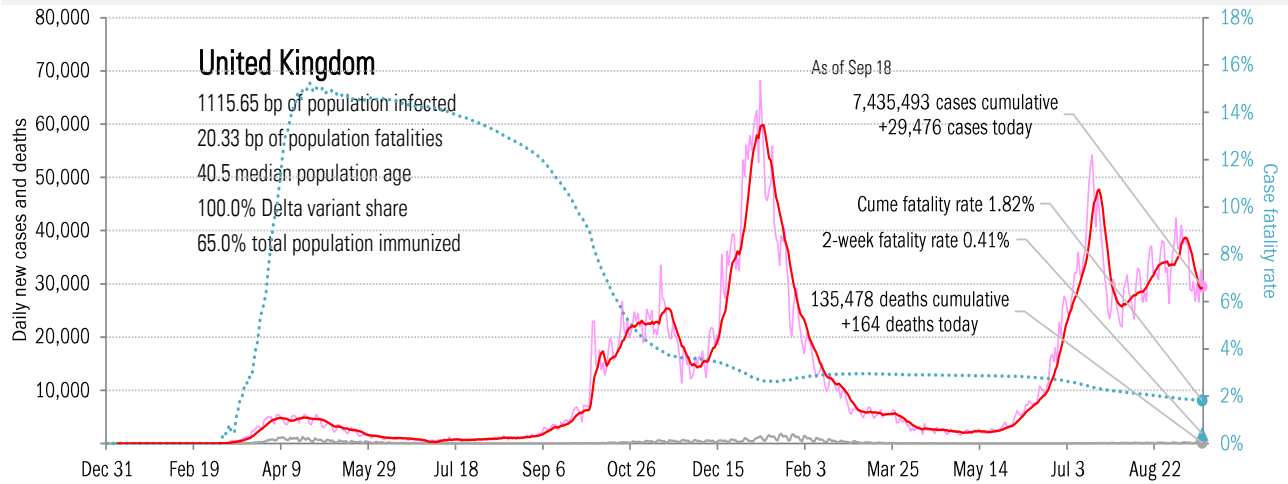
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

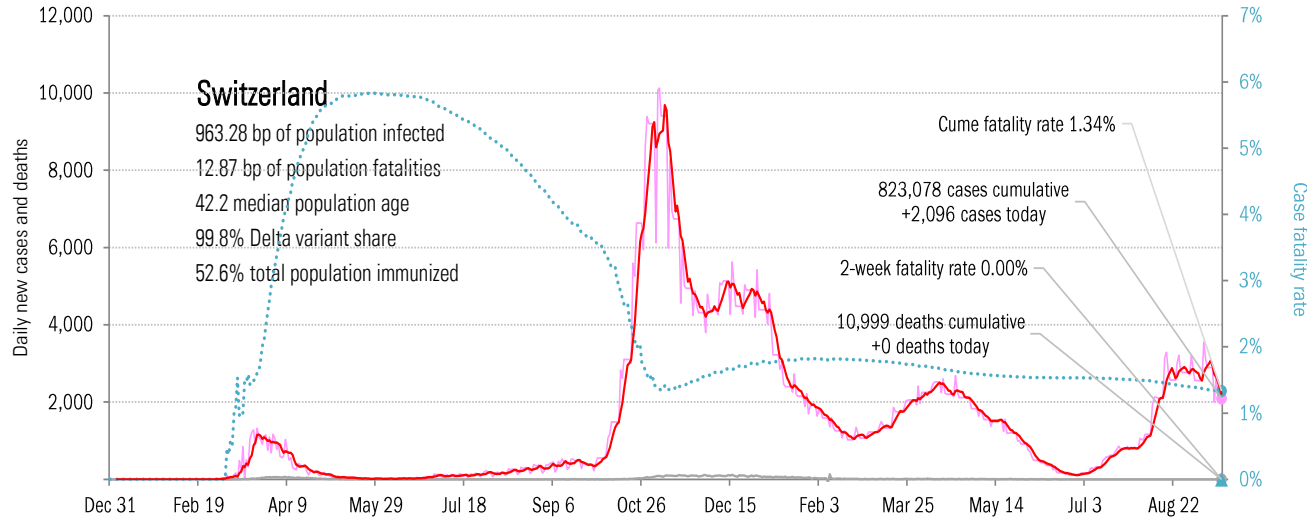
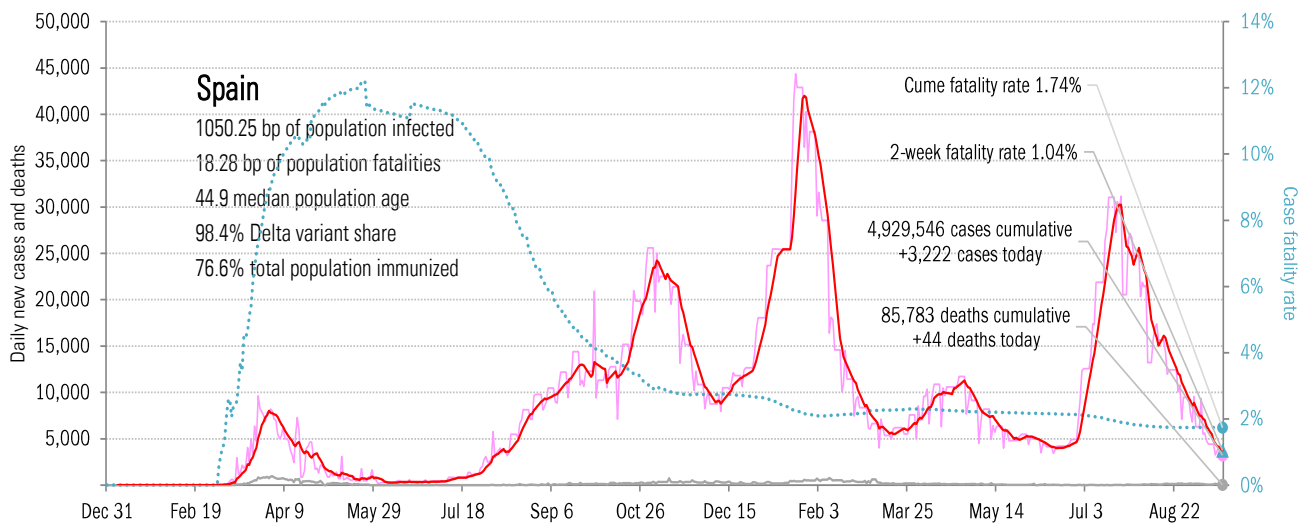
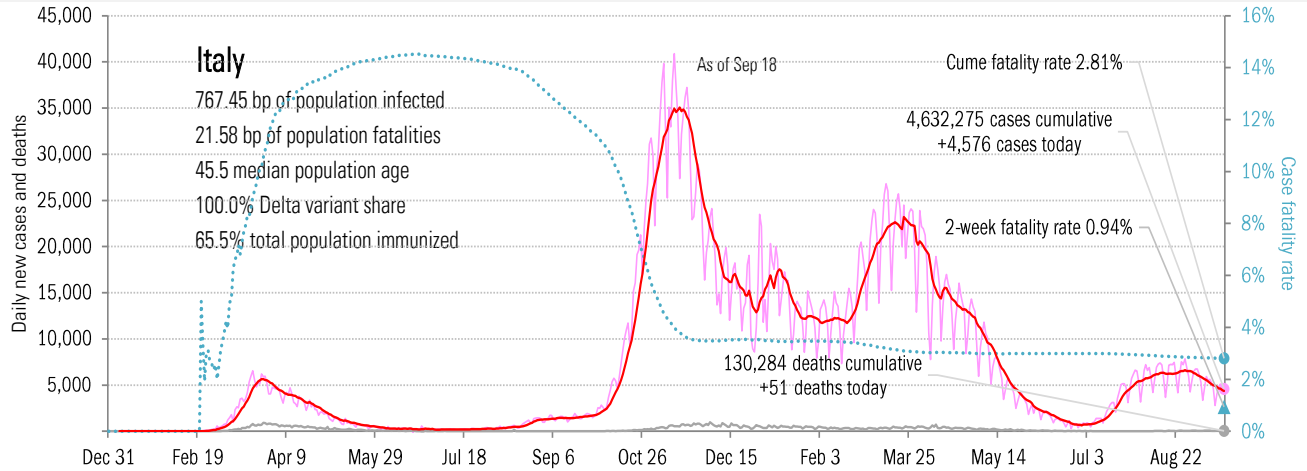
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

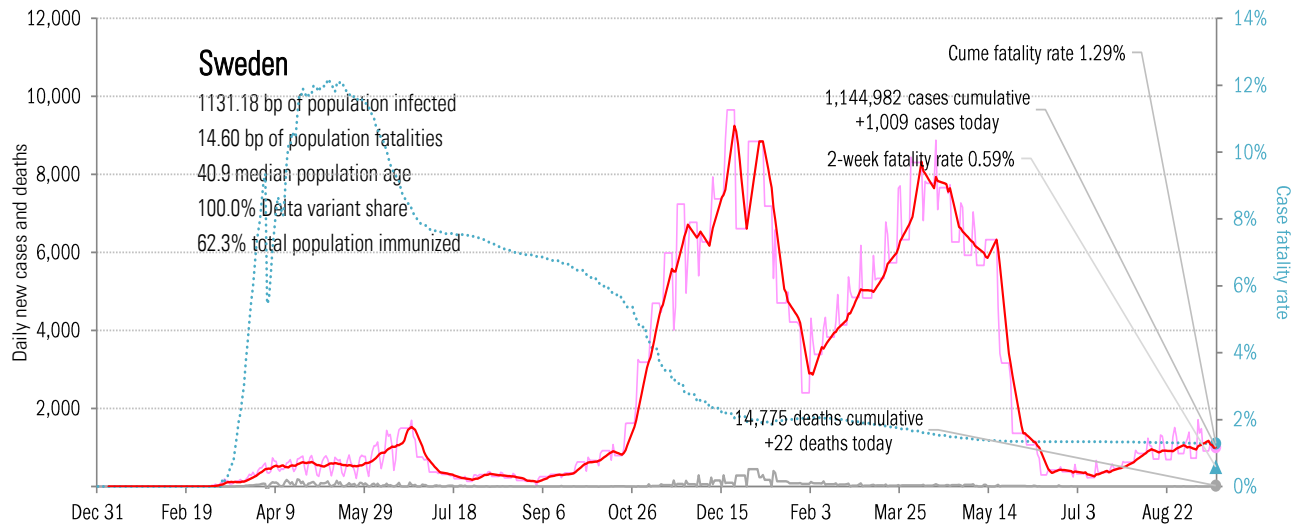
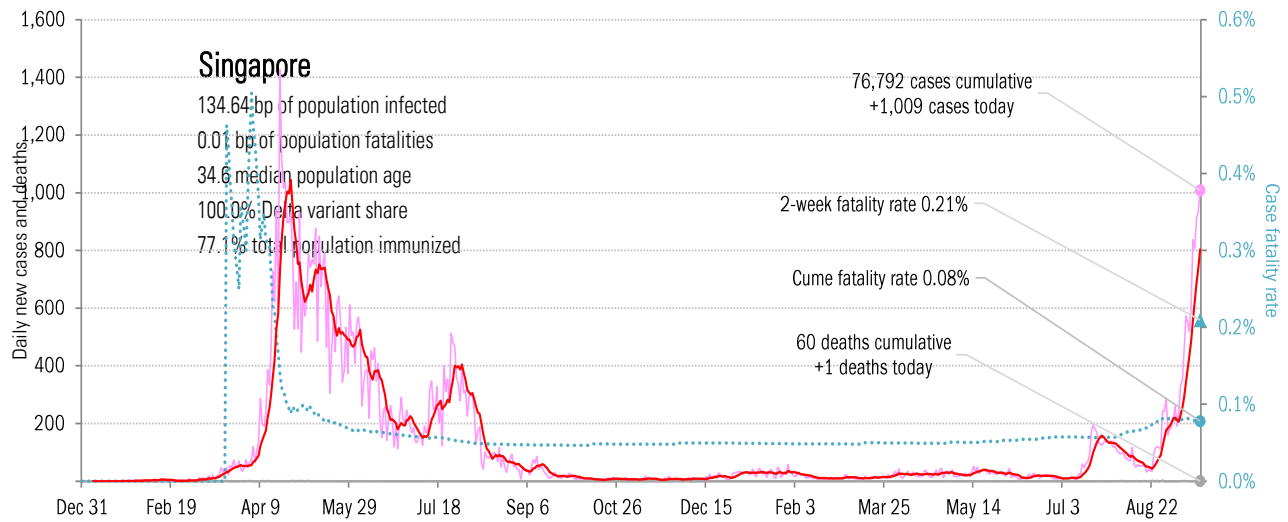
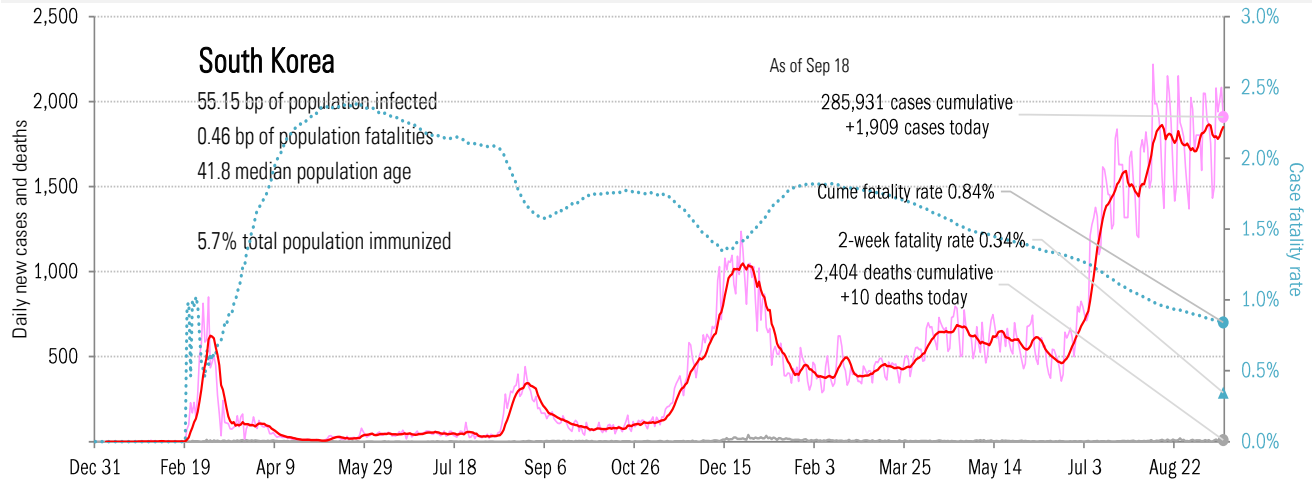
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

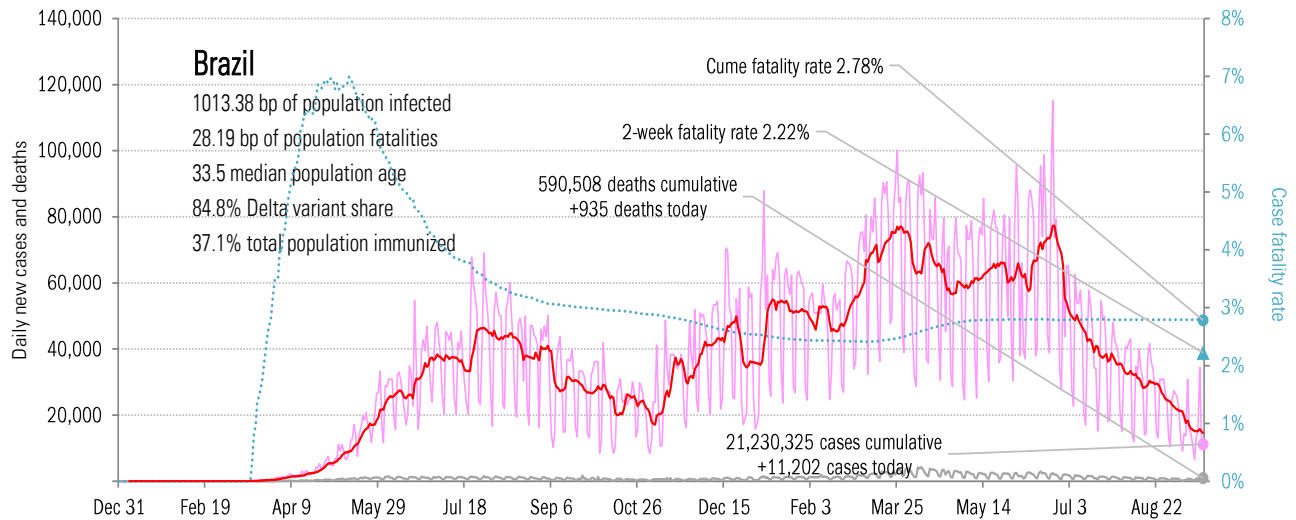
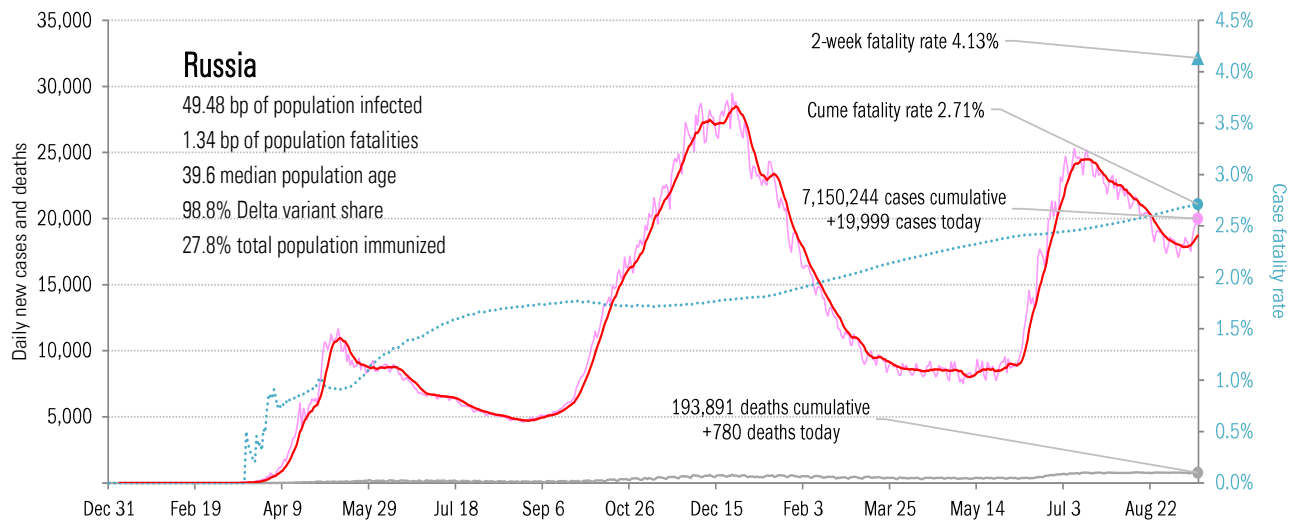
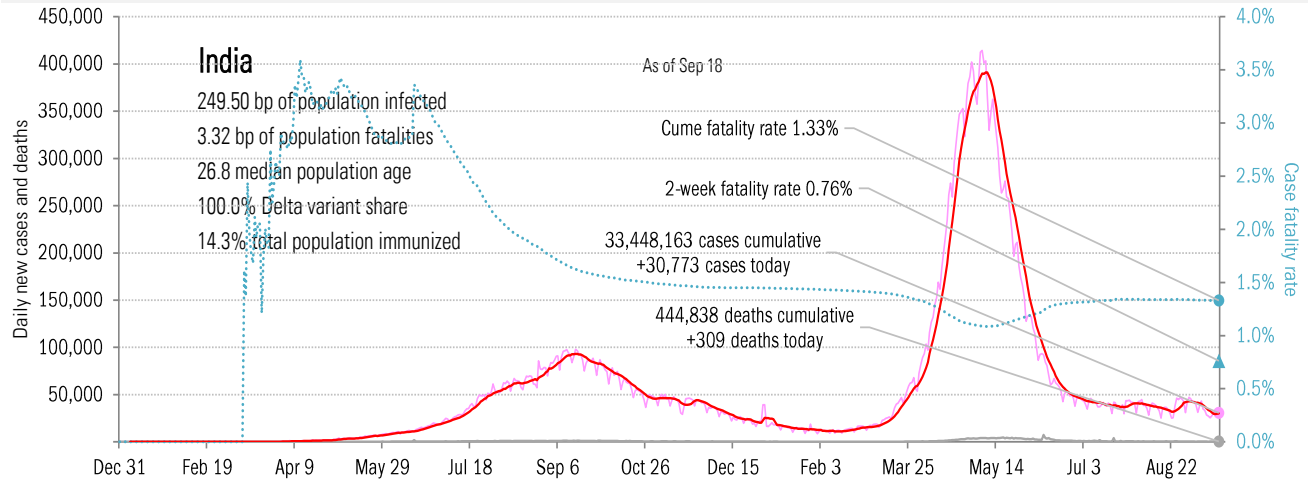
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

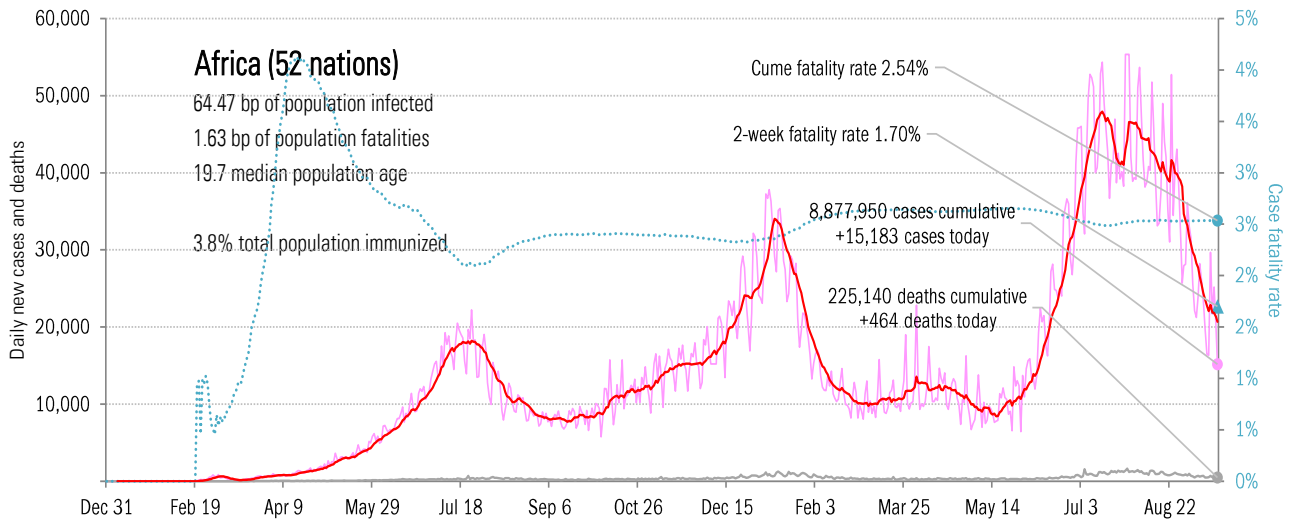
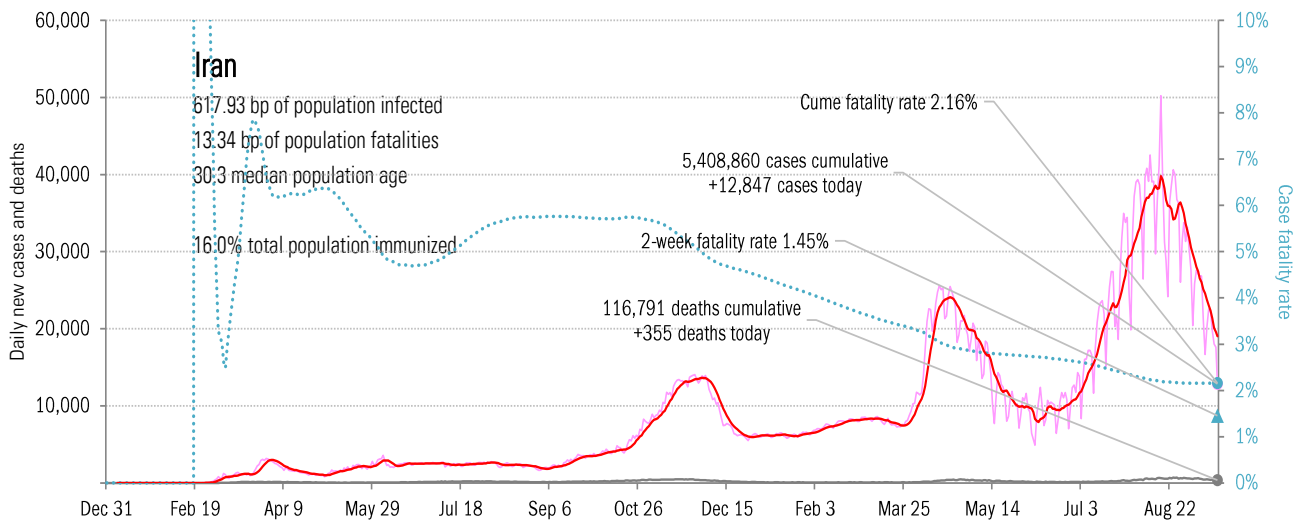
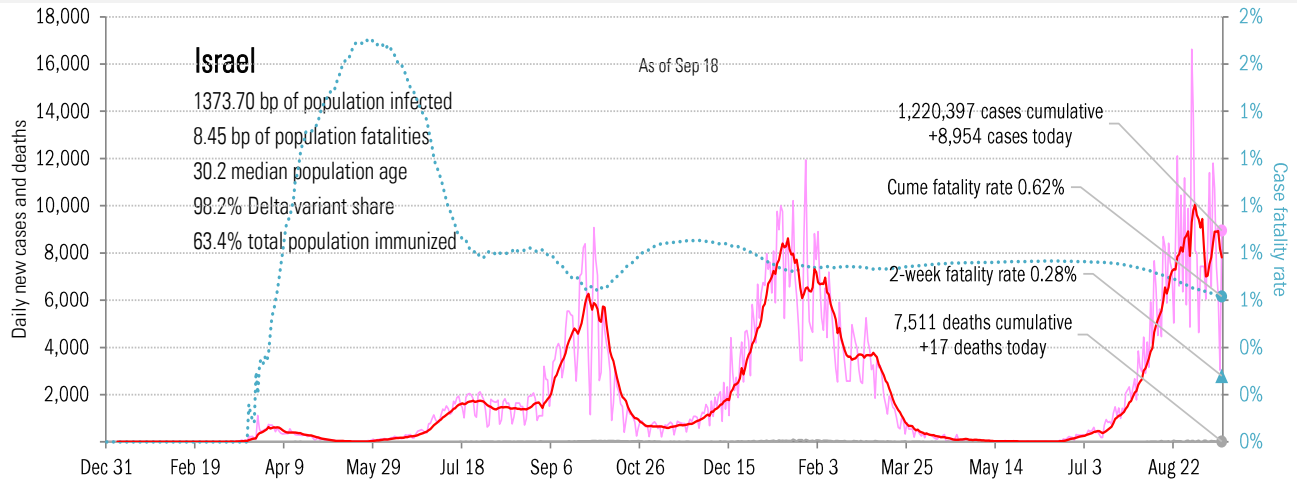
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

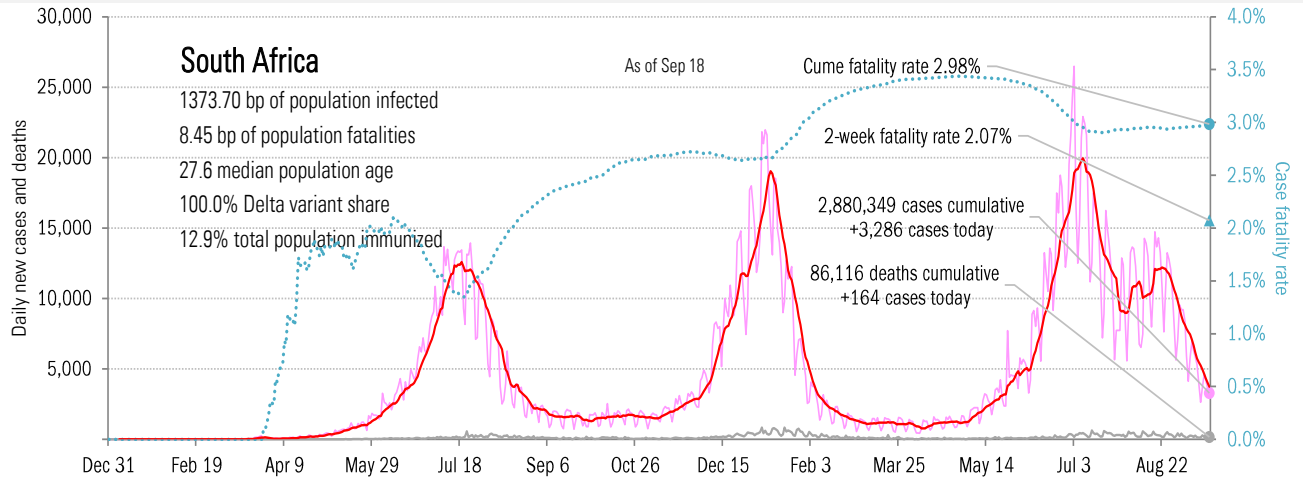
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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