

Data Insights: Covid-2019 Monitor

Wednesday, September 7, 2022

The global scorecard

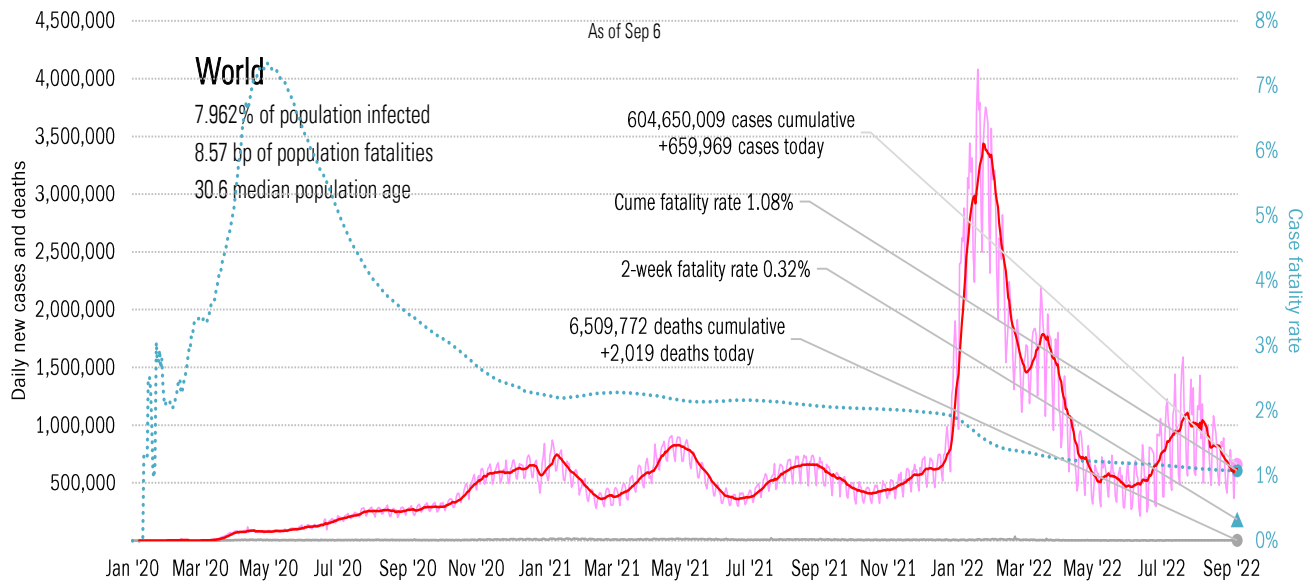
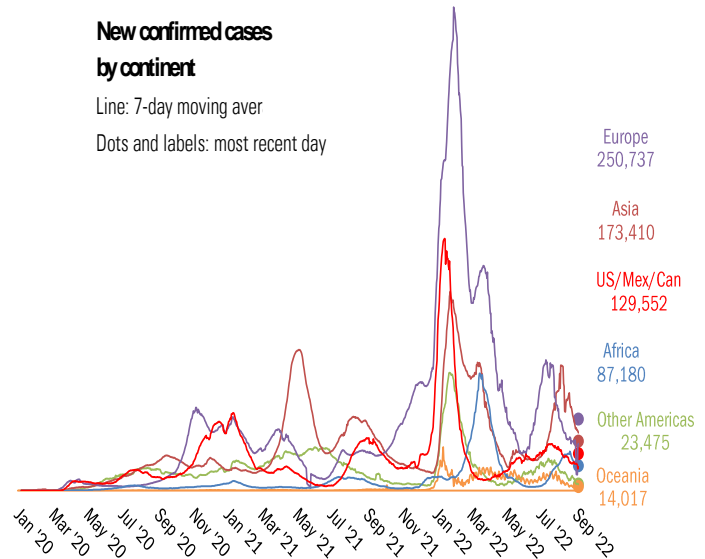
Cases: **7-day average** and **daily** Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	127,110	United States	816
Japan	112,117	Japan	320
Korea, South	85,484	Greece	205
Germany	46,495	Spain	127
Greece	42,155	Germany	120
Russia	38,023	Russia	94
Taiwan*	36,666	Italy	80
France	26,938	Australia	69
Italy	24,848	France	60
Ukraine	16,632	Korea, South	56
556,468		1,947	
World	659,969	World	2,019
Top ten	84%	Top ten	96%

New confirmed cases by continent

Line: 7-day moving aver
 Dots and labels: most recent day



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

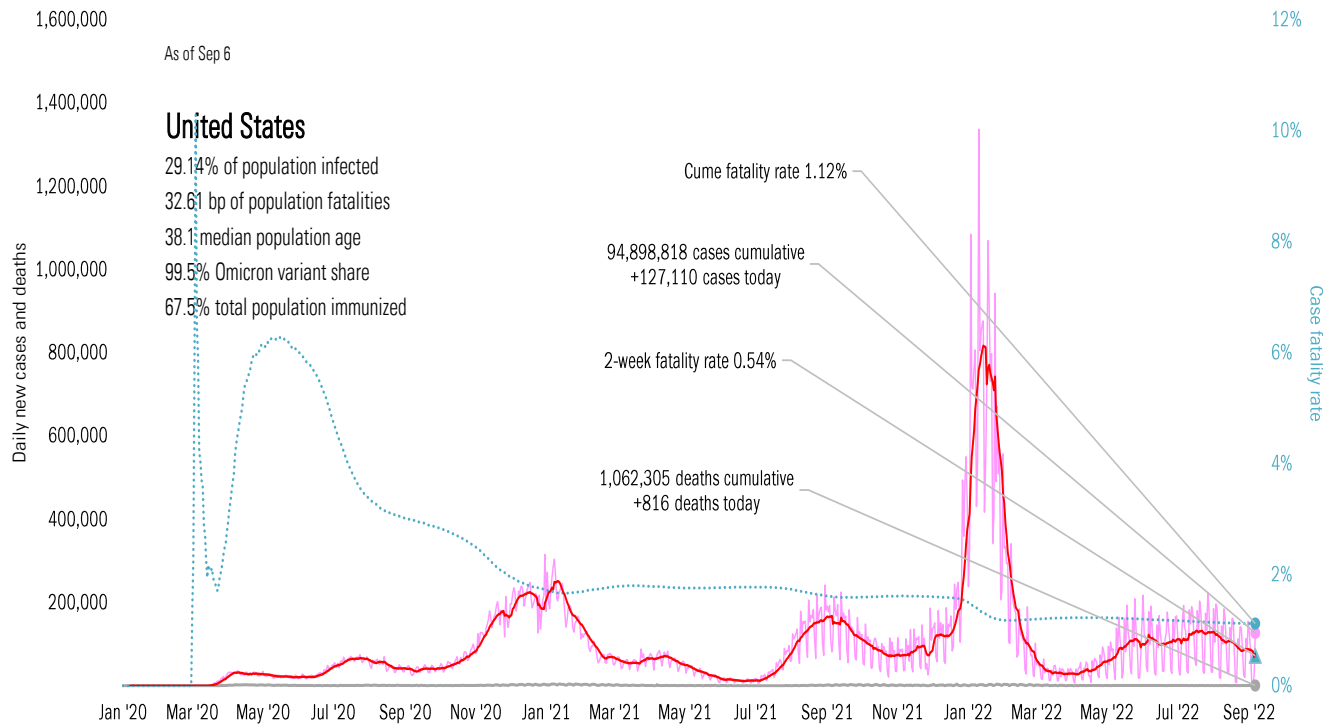
The ten worst US states

New cases			New deaths			New in hospital			Cumulative cases			Cumulative deaths			Cumulative in hospital			Hospital use		ICU use			
CA	18,032		MI	83		AL	122		CA	11,143,314		CA	95,071		TX	538,449		MD	95%	TX	84%		
MI	15,854		CA	76		CH	232		TX	7,892,204		TX	90,415		CA	491,215		RI	90%	AL	82%		
TX	11,037		NC	70		GA	209		FL	7,049,988		FL	80,199		FL	485,847		CT	90%	VT	82%		
IL	9,878		FL	62		CT	74		NY	6,012,162		NY	71,222		NY	292,655		GA	88%	AK	80%		
NY	7,862		KS	61		MO	118		IL	3,706,263		PA	46,716		GA	223,398		MN	84%	RI	80%		
OK	5,934		TX	53		OK	69		PA	3,186,823		GA	39,772		CH	213,955		DC	84%	WA	79%		
MS	5,825		IN	36		OR	38		NC	3,120,822		CH	39,490		PA	199,598		MA	83%	DC	79%		
LA	5,105		WA	29		MD	66		CH	3,074,826		IL	39,381		IL	182,830		WA	82%	GA	78%		
KY	4,672		MS	27		MT	25		GA	2,870,629		MI	38,121		MI	159,077		MO	81%	MA	77%		
CH	3,611		NY	26		AZ	54		MI	2,786,213		NJ	34,584		KY	142,892		NV	81%	MN	75%		
87,810			524			1,007			50,843,244			574,971			2,929,916								
All states	127,110			816			4,075		All states	94,898,818			1,062,305			5,315,421		All states	70%		67%		
Top ten	69%			64%			25%		Top ten	54%			55%			55%		Median	74%		69%		

Some states not reporting

Five most improved US states

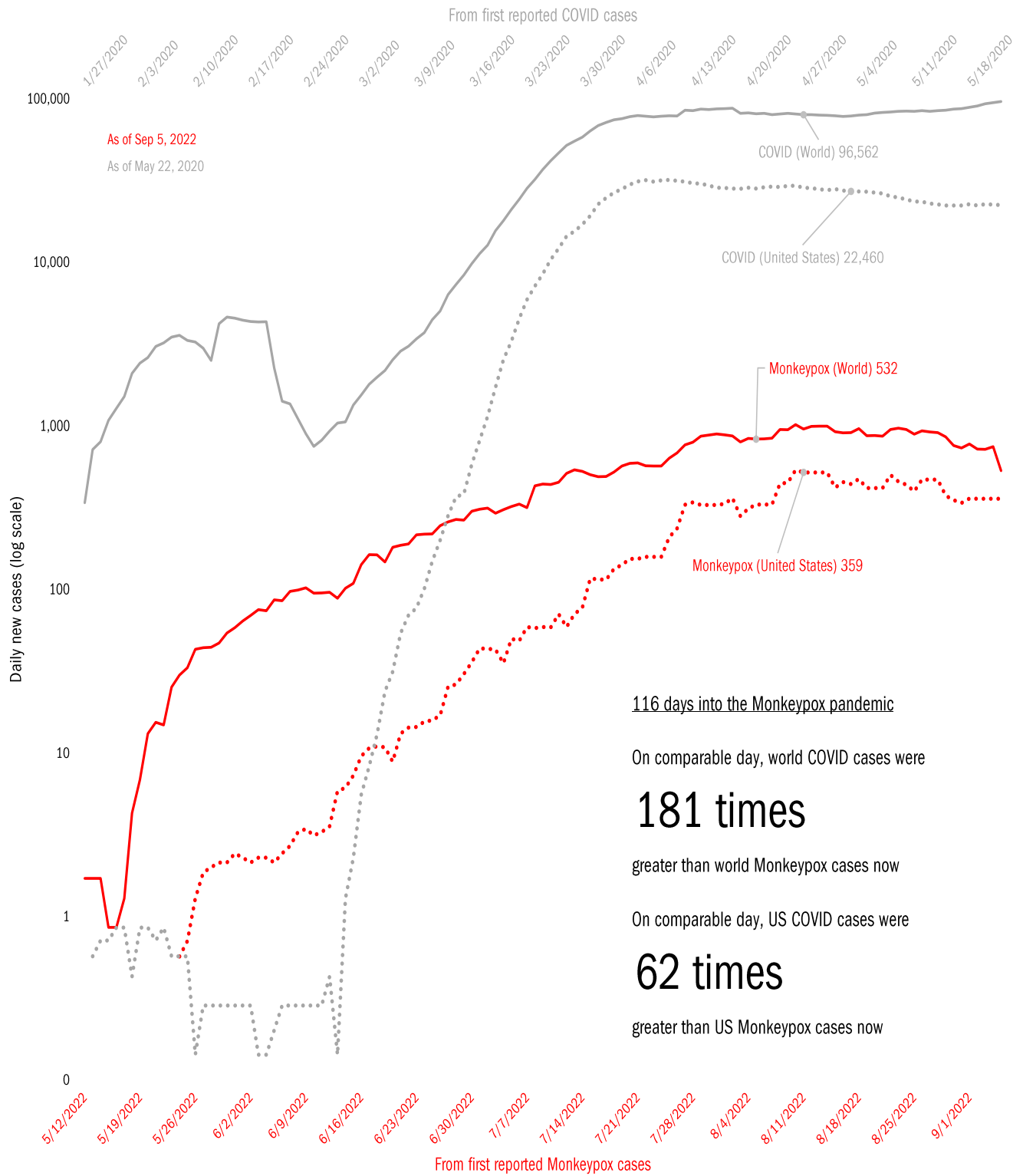
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
KS	-5,581	IL	-8	NY	-172
IN	-4,394	NJ	-5	NC	-123
CO	-1,345	NM	-2	FL	-95
WI	-235	AR	-1	TX	-92
VA	-219	NE	-1	KY	-86



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

The Monkeypox contextualizer

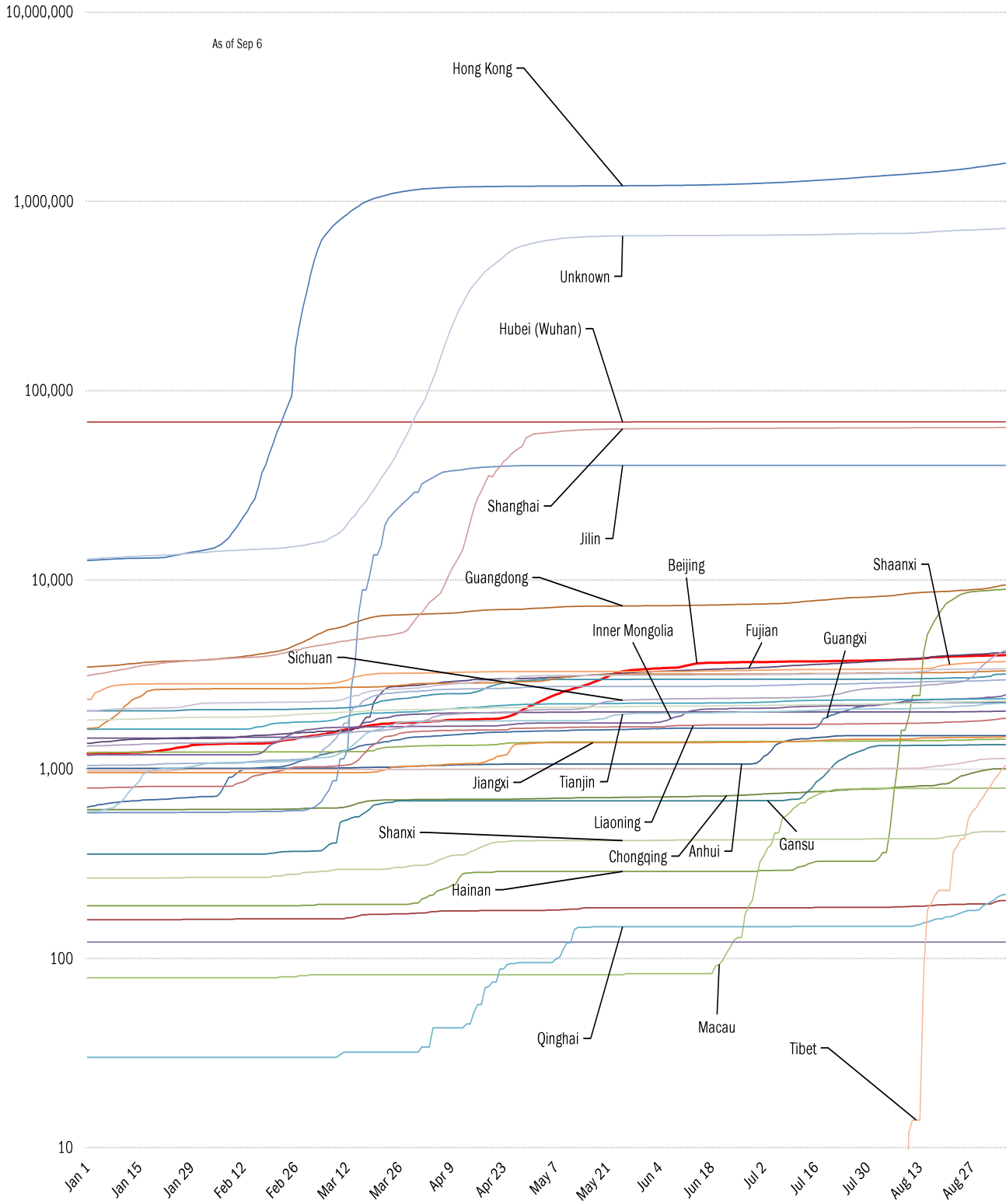
The course of case growth versus COVID



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

China provincial coronavirus case accelerometer... tracking the "zero Covid" curves

Cumulative reported cases this year, log scale: flat line indicates "zero Covid"

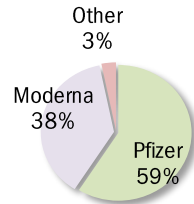


Source: [Johns Hopkins](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative		Today		Immunity	Full	Partial	
Doses	625,409,086		+0.159 million		US	67.5%	79.2%	
of which boosters	110,937,746		+0.040 million		UK	75.3%	79.9%	
	One dose	% Pop	Immune	% pop	New immune today	France	78.7%	80.9%
Total population	271,085,285	81%	230,645,139	69%	+0.030 million	Spain	85.6%	87.0%
Age 12 to 17	18,147,800	72%	15,502,666	61%	+0.003 million	Germany	76.1%	77.7%
Age 18 to 64	180,917,757	89%	153,679,296	76%	+0.013 million	Italy	81.0%	85.8%
Age 65 and over	59,725,410	100%	52,247,392	95%	+0.003 million	Australia	84.0%	86.5%
						Israel	66.2%	72.3%
						Canada	82.7%	86.7%
						Japan	82.4%	83.6%
						Africa	22.0%	28.0%
						India	67.0%	72.8%
						Brazil	80.1%	87.0%
						China	89.0%	91.3%



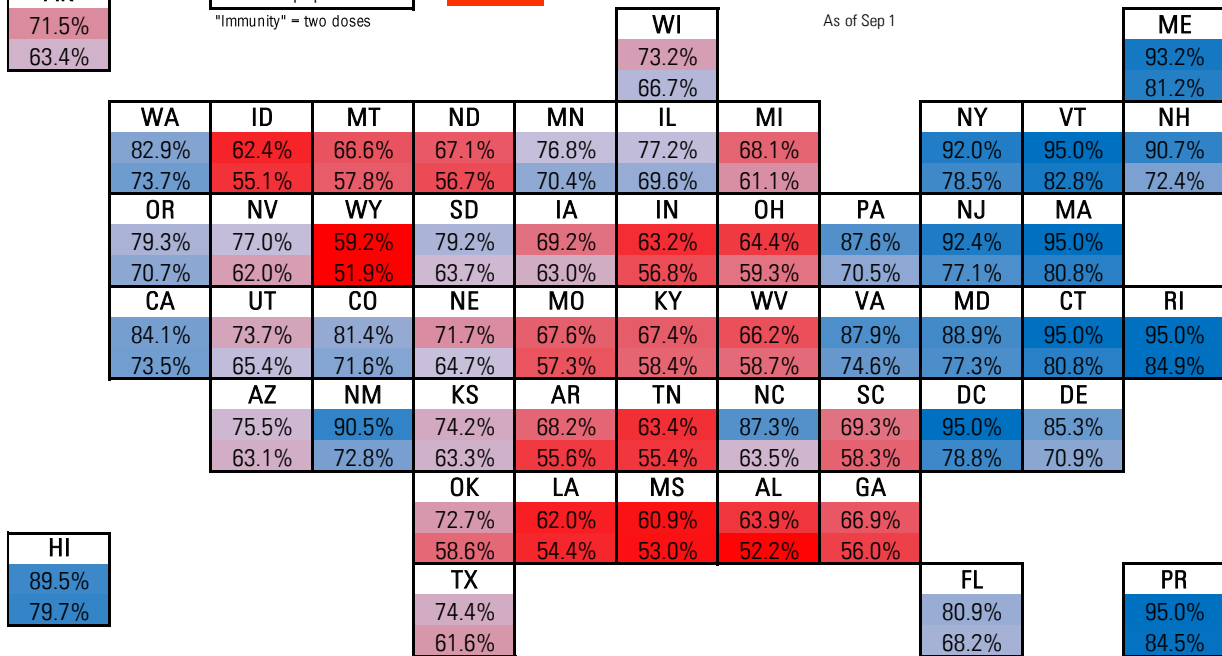
AK	71.5%
	63.4%

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

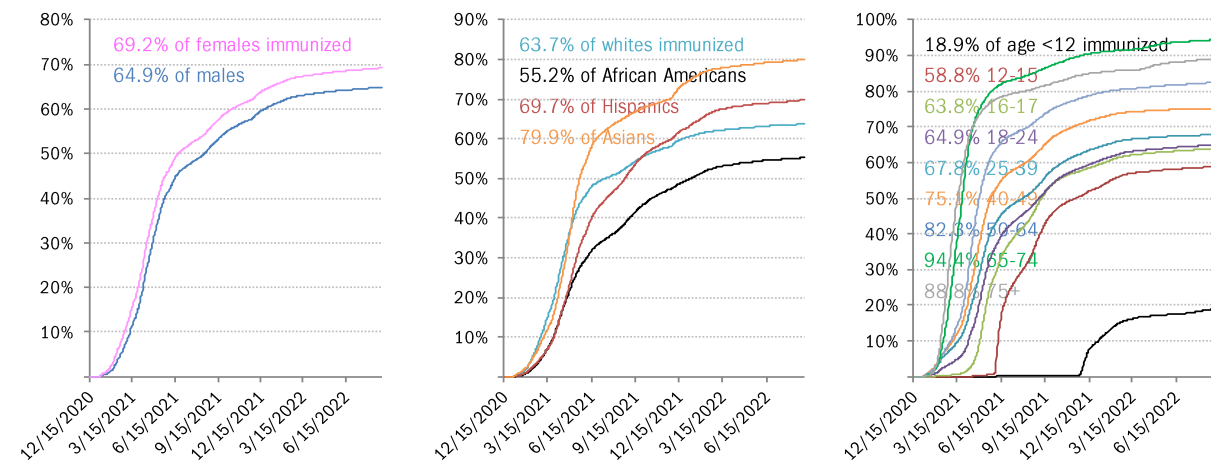
"Immunity" = two doses

Best
Middle
Worst

Global data differs due to sources, timing



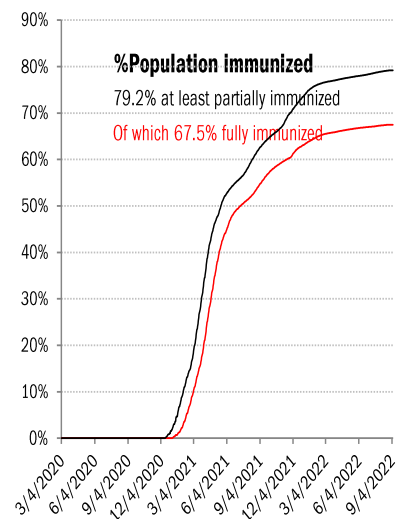
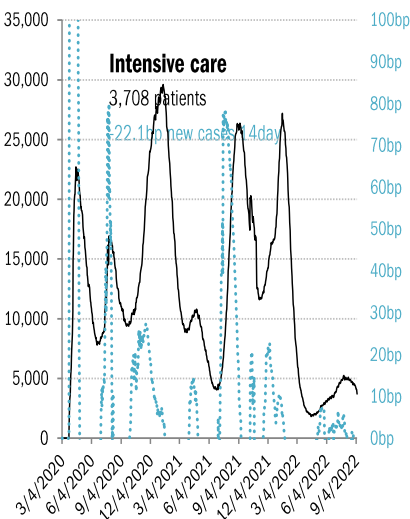
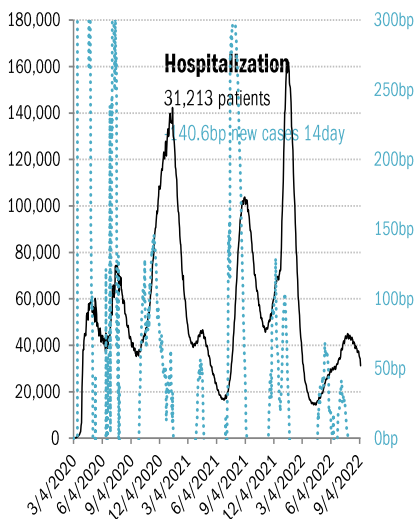
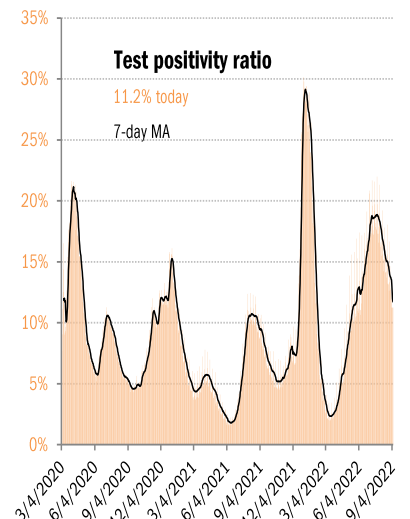
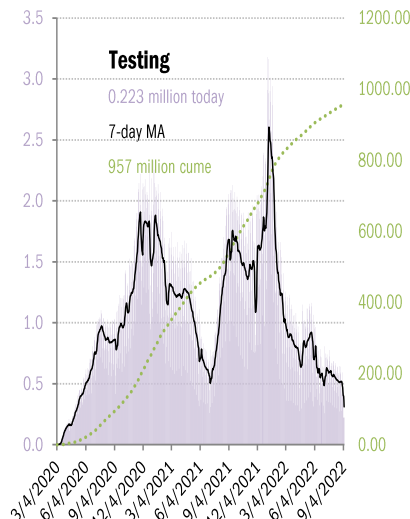
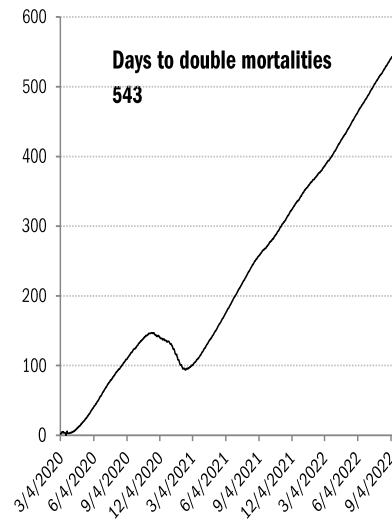
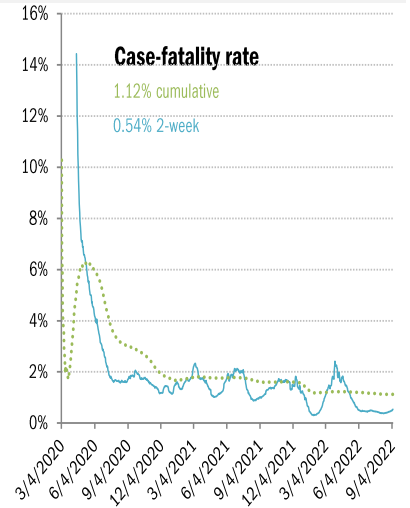
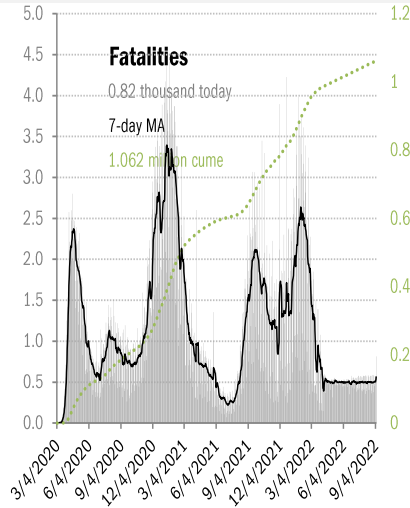
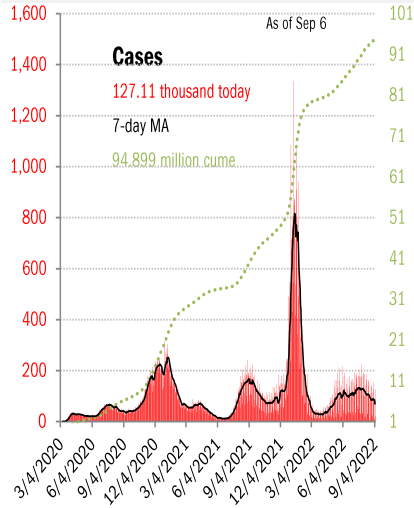
The demographics of US vaccination



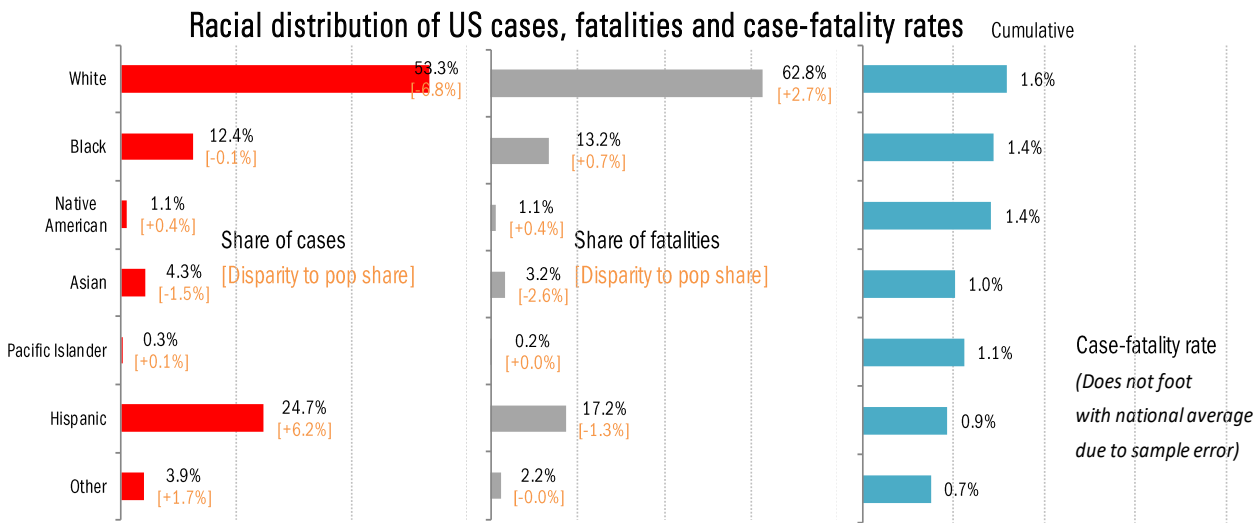
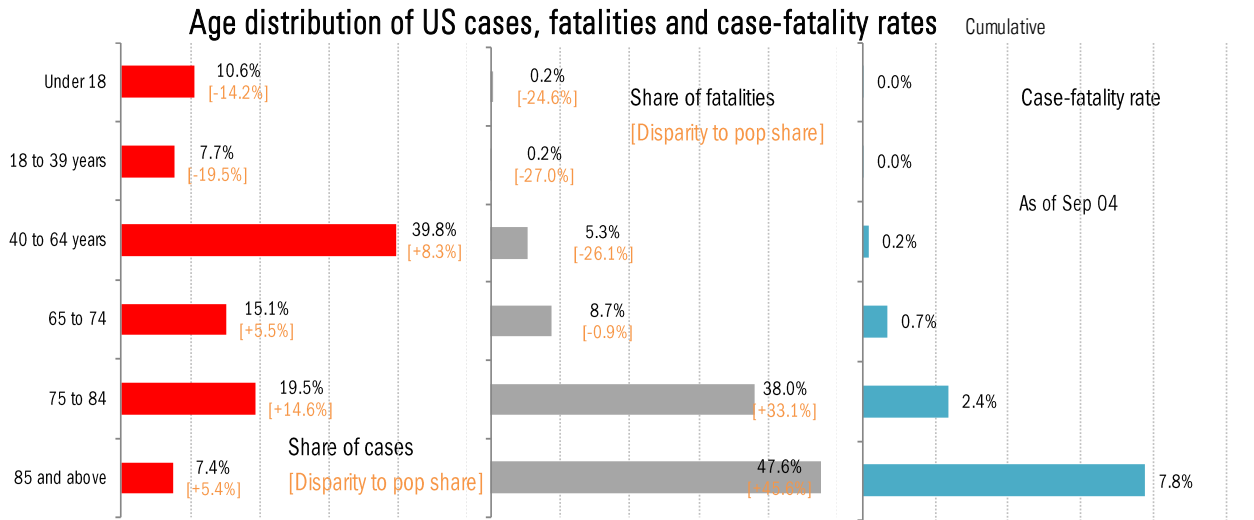
Source: CDC, CDC, Our World in Data, TrendMacro calculations

US deep-dive

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

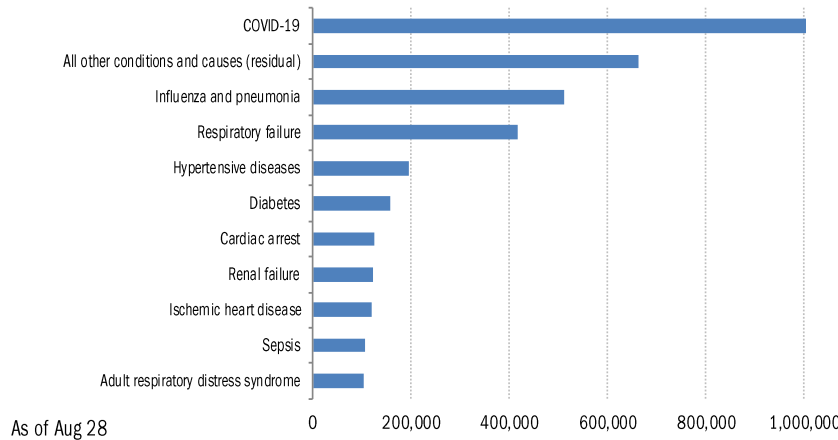


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[U.S. Plans Shift to Annual Covid Shots as New Boosters Roll Out](#)

Liz Essley Whyte
Wall Street Journal
September 6, 2022

[Xi's Covid Zero Strategy Is Facing Make-or-Break Test in Chengdu](#)

Colum Murphy and Linda Lew
Bloomberg
September 6, 2022

[Covid Is Likely to Require Yearly Booster Like Flu Shot, Fauci Says](#)

Riley Griffin, Jeannie Baumann, and Josh Wingrove
Bloomberg
September 6, 2022

[Long-term cardiac pathology in individuals with mild initial COVID-19 illness](#)

Valentina O. Puntmann et al.
Nature Medicine
September 5, 2022

[White House signals most people will only need annual Covid booster](#)

Andrew Joseph
Stat News
September 6, 2022

[Omicron finally got me after two years of being a COVID hermit. Then, doctors made it worse](#)

Matthew Fleischer
San Francisco Chronicle
September 4, 2022

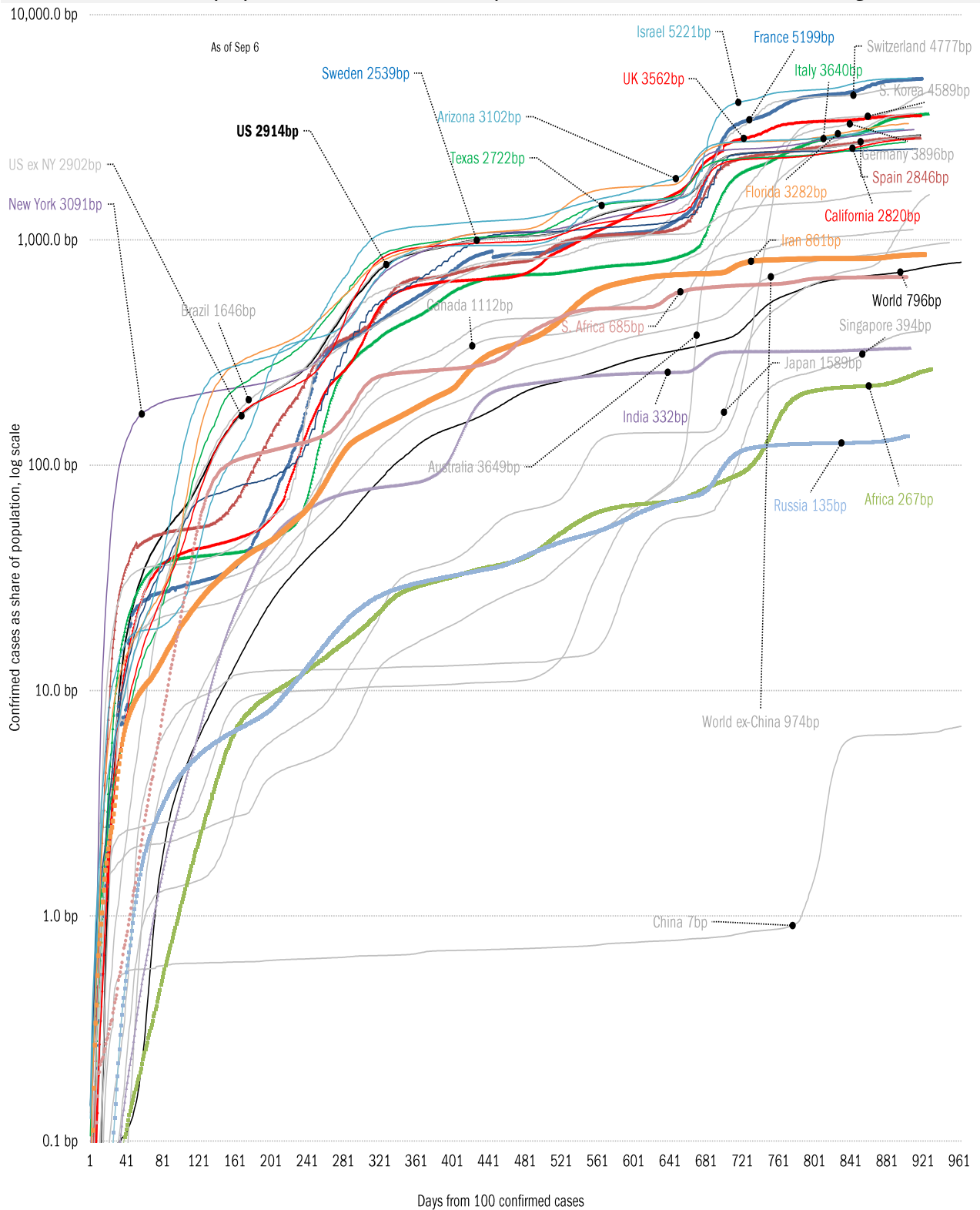
Meme of the day



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

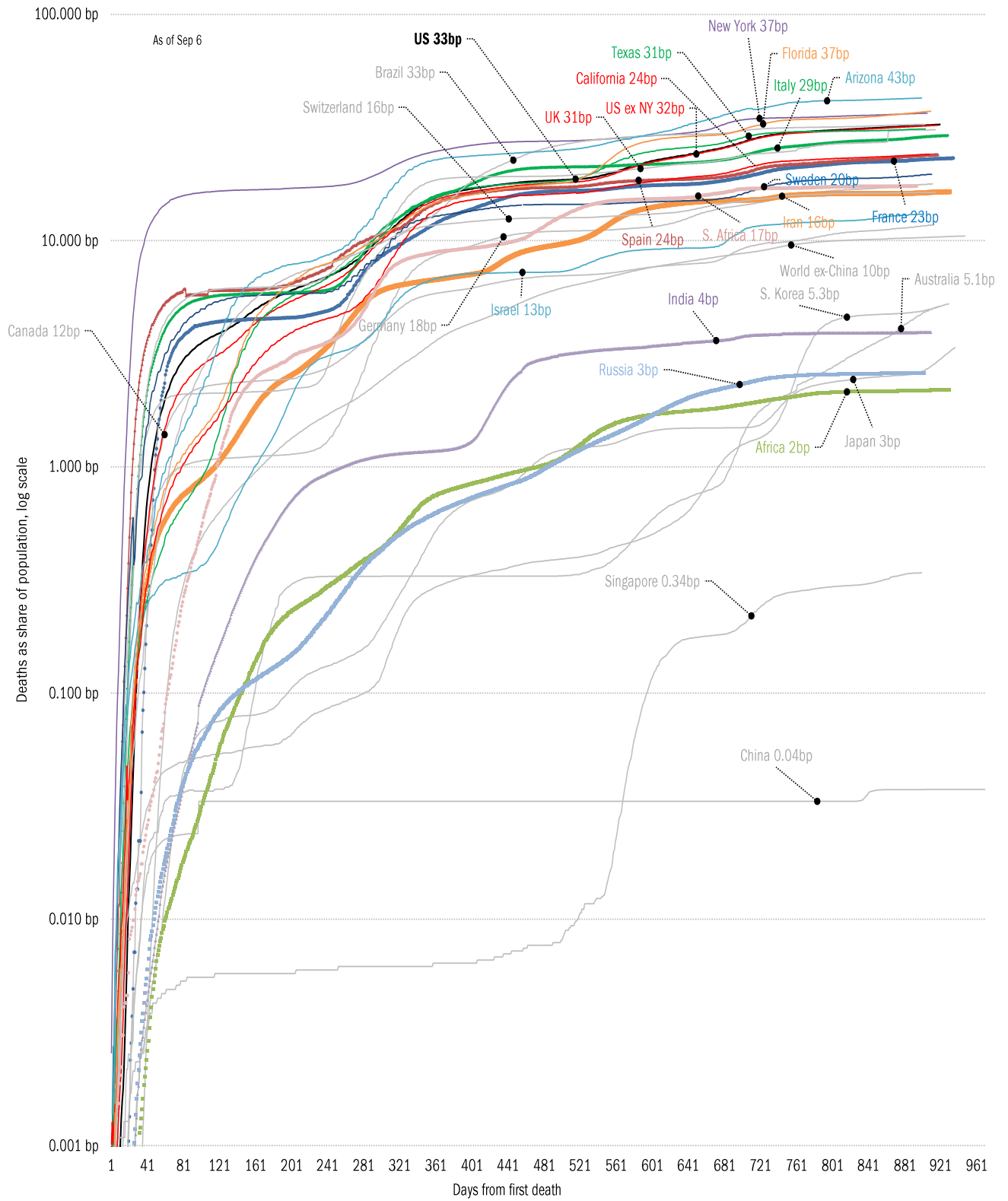
The global coronavirus case accelerometer... tracking the world's infection curves

Share of infected population from first day with 100 confirmed cases, log scale



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

The global coronavirus mortality accelerometer ... tracking the world's fatality curves
Share of deceased population from day of first fatality, log scale

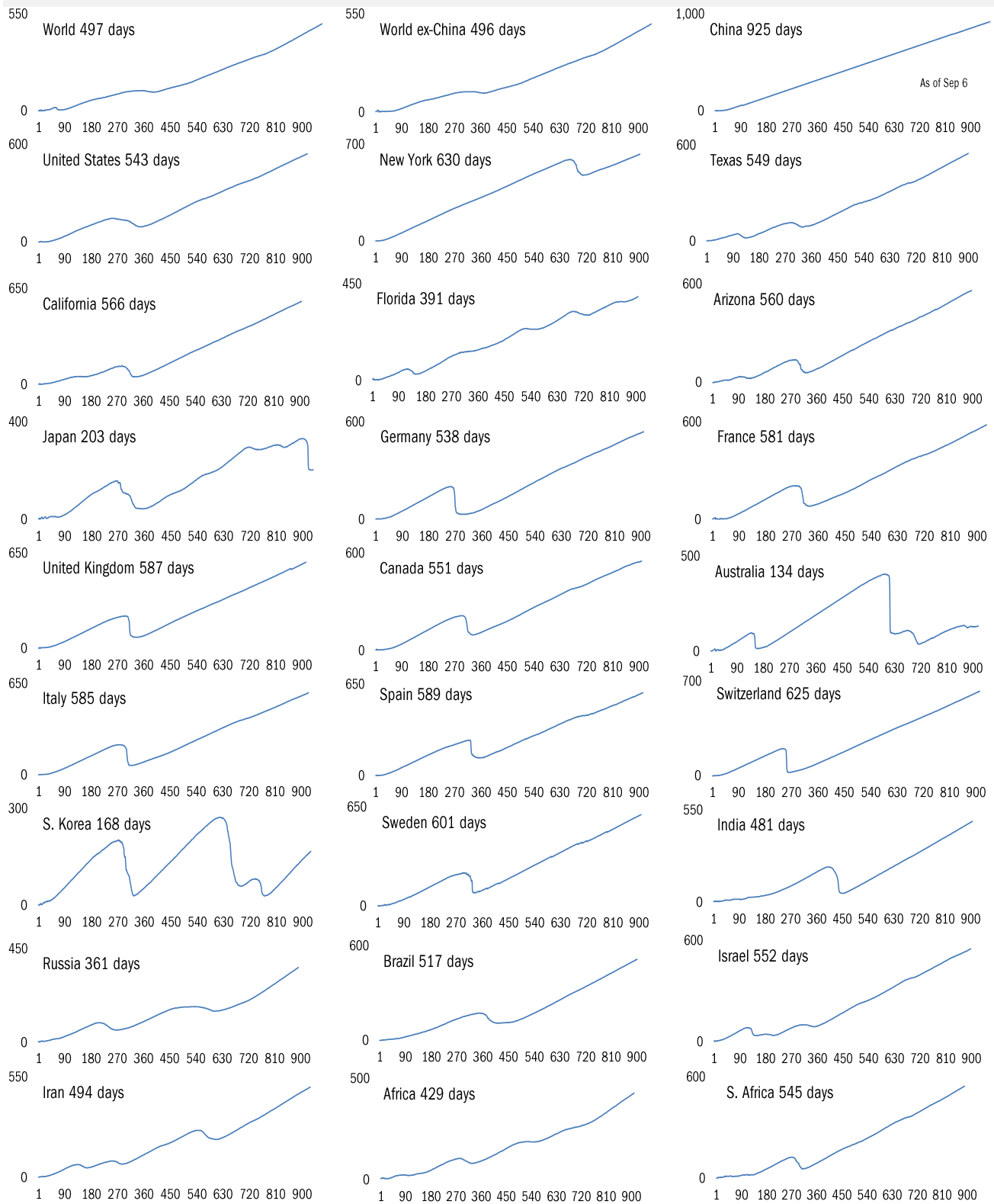


Source: [Johns Hopkins](#), TrendMacro calculations

Our most reliable evidence of the rate of spread of Covid-2019

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

Higher is good Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

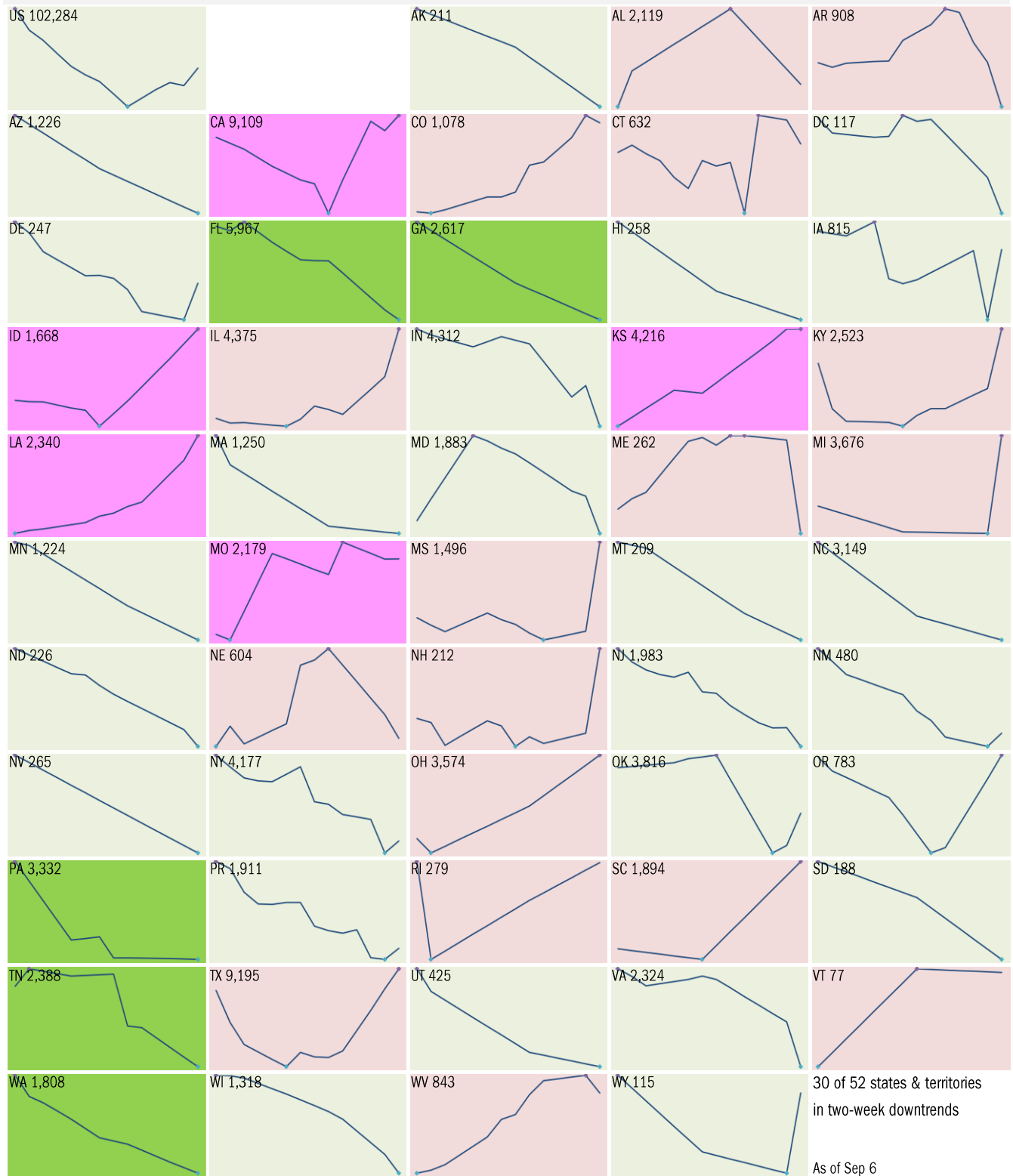


Source: [Johns Hopkins](#), TrendMacro calculations

14-day 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

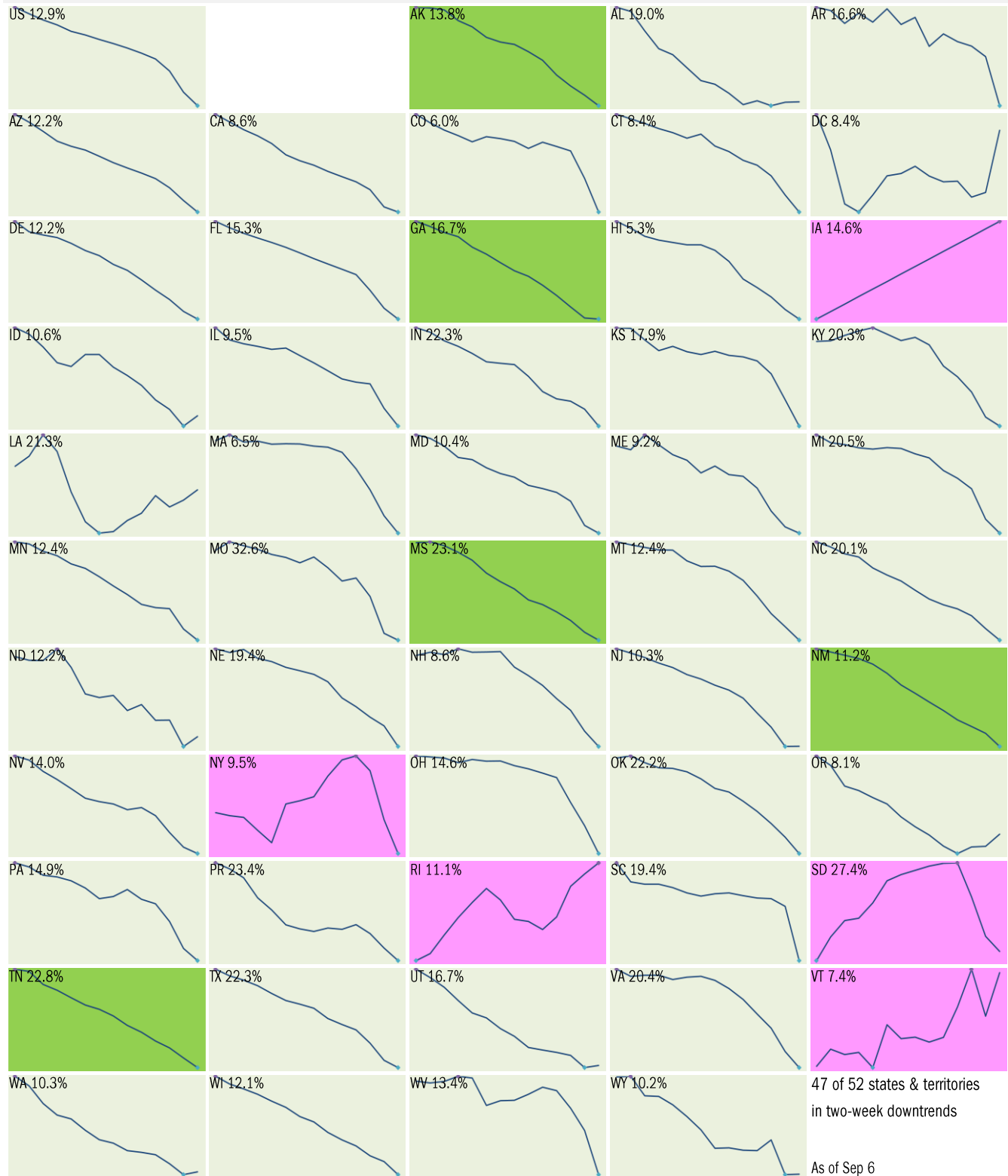


Source: [Johns Hopkins](#), TrendMacro calculations

14-day trajectory in test-positivity ratio

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

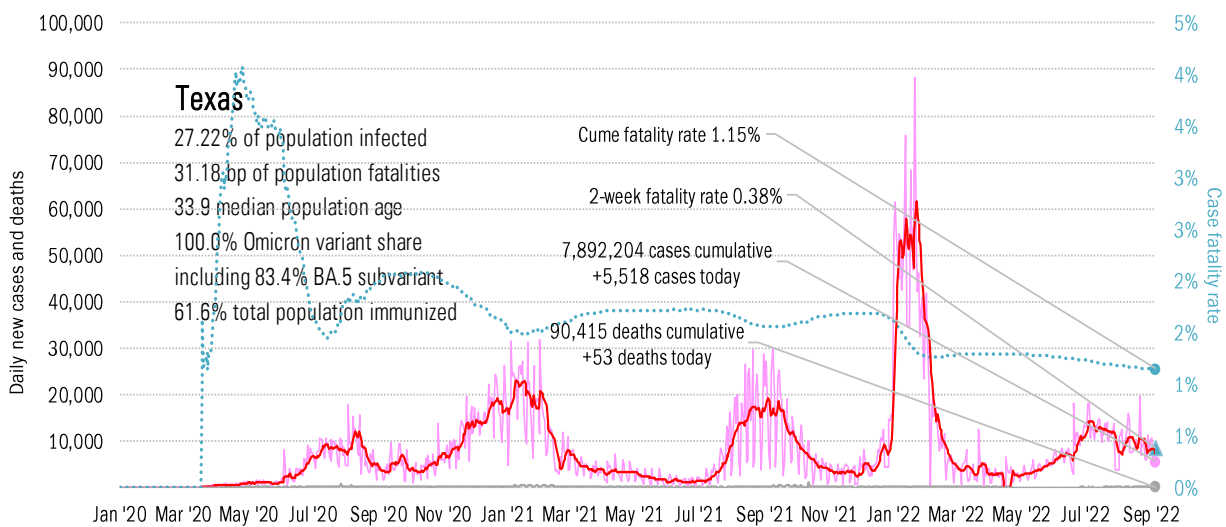
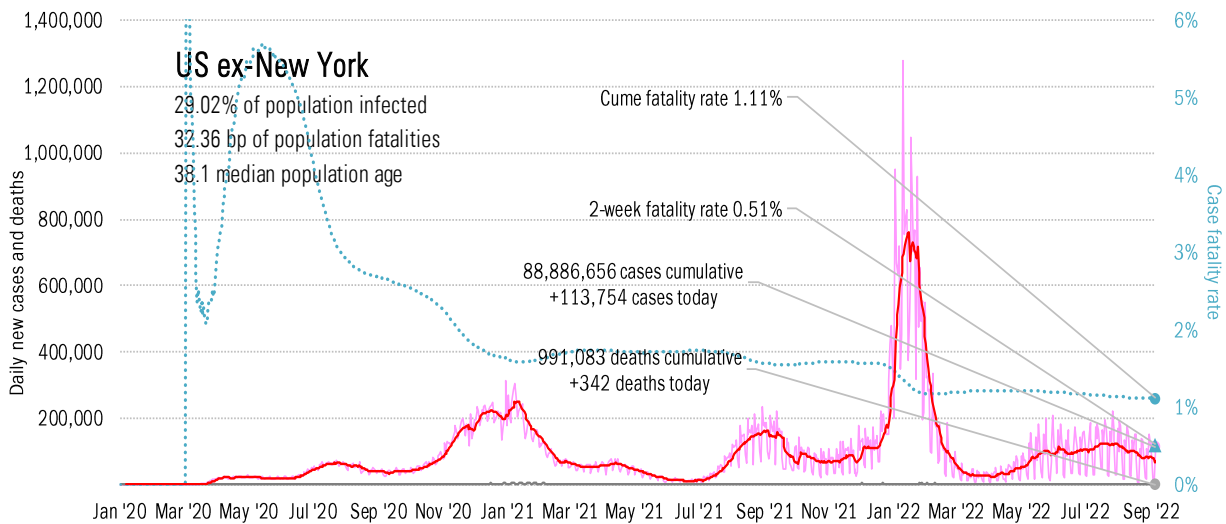
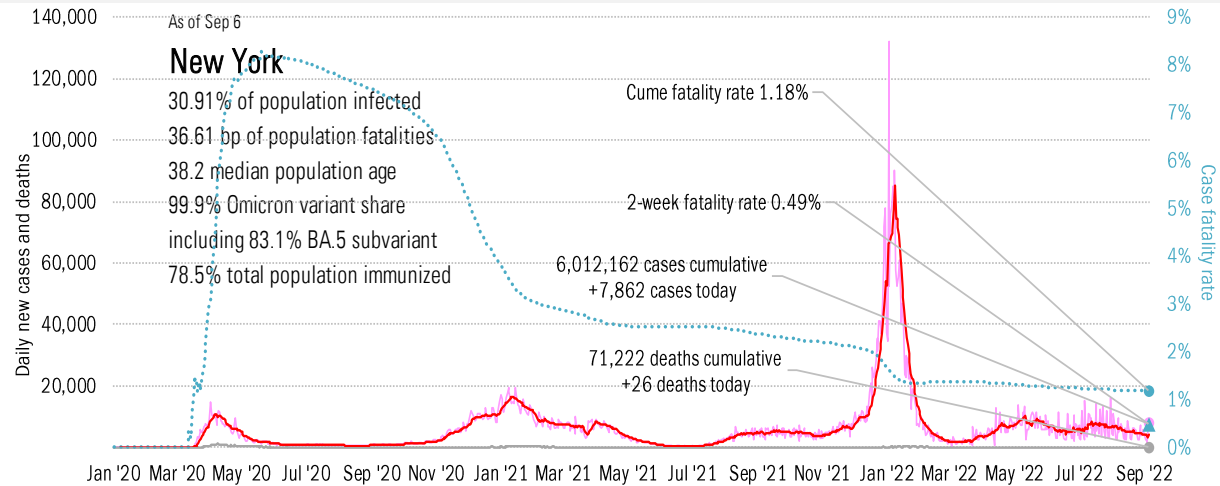
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

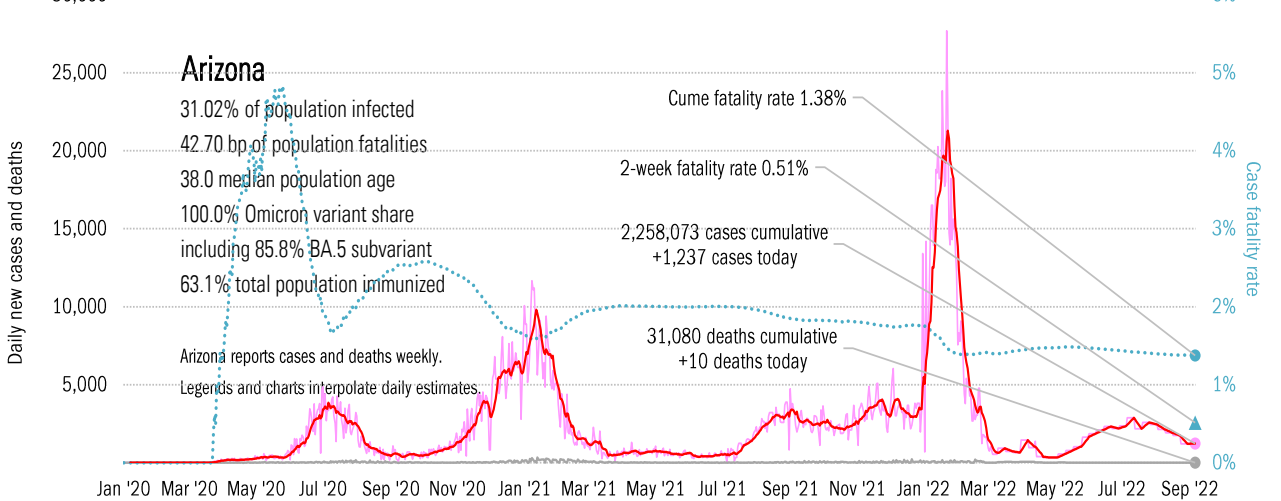
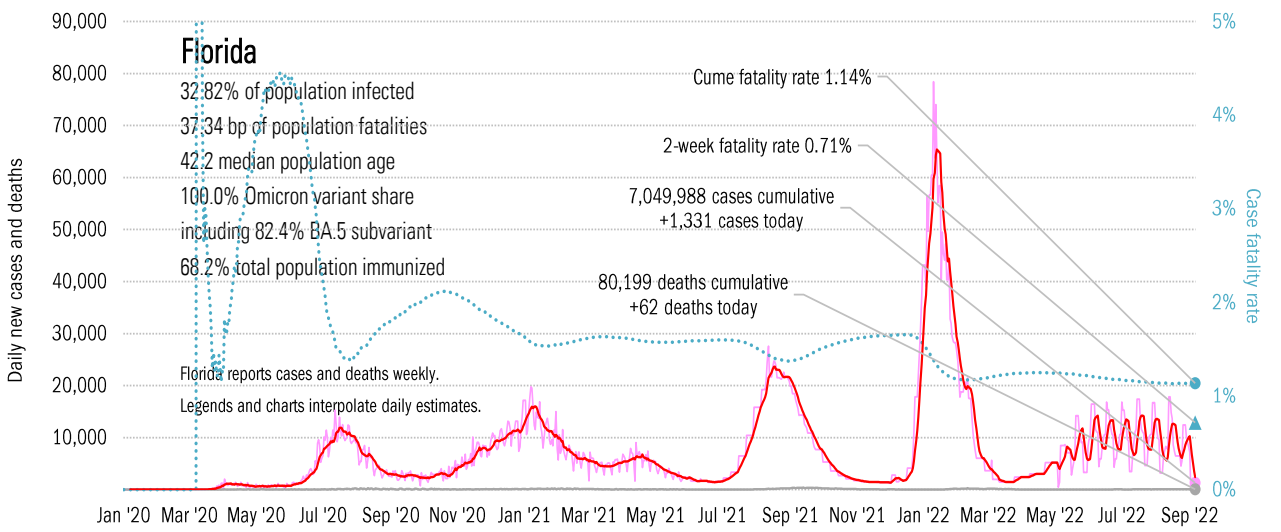
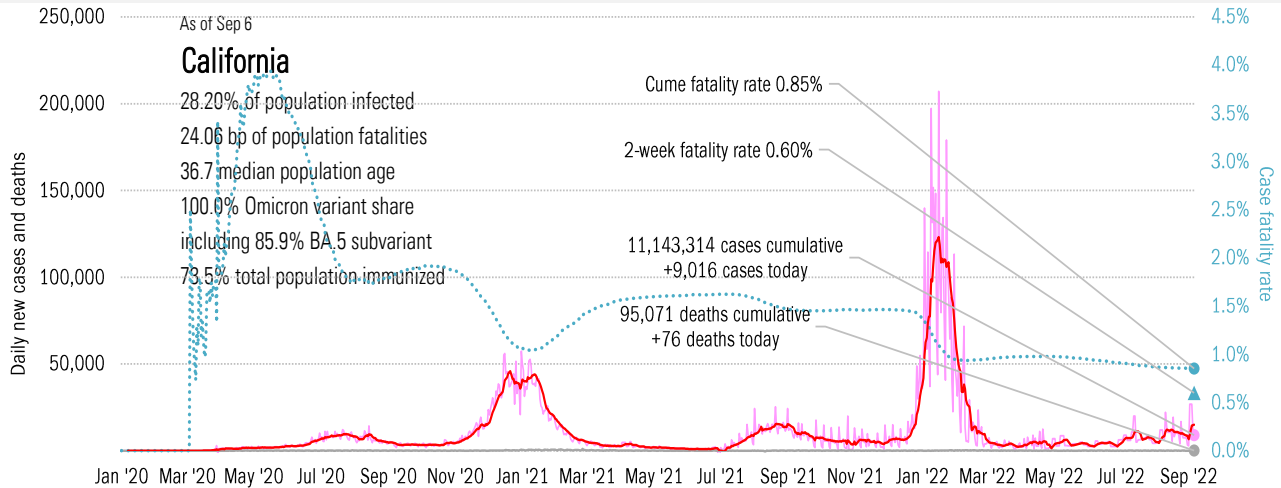
Cases: 7-day average and daily Deaths: Daily



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

The sun-belt hot-spot states

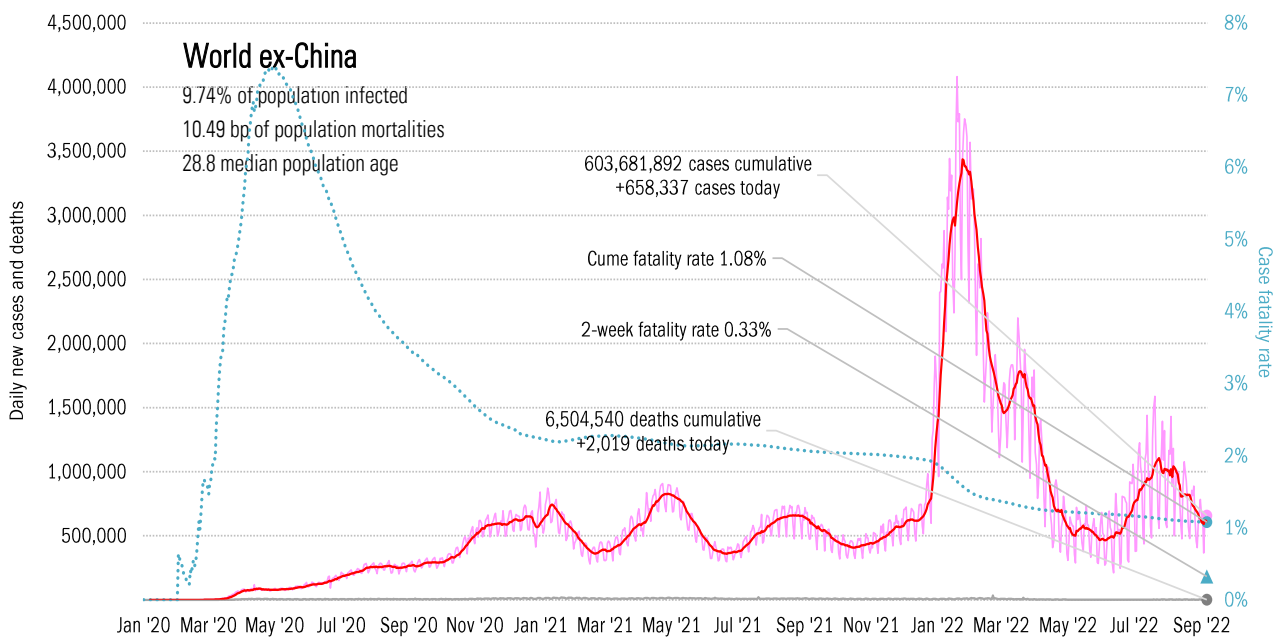
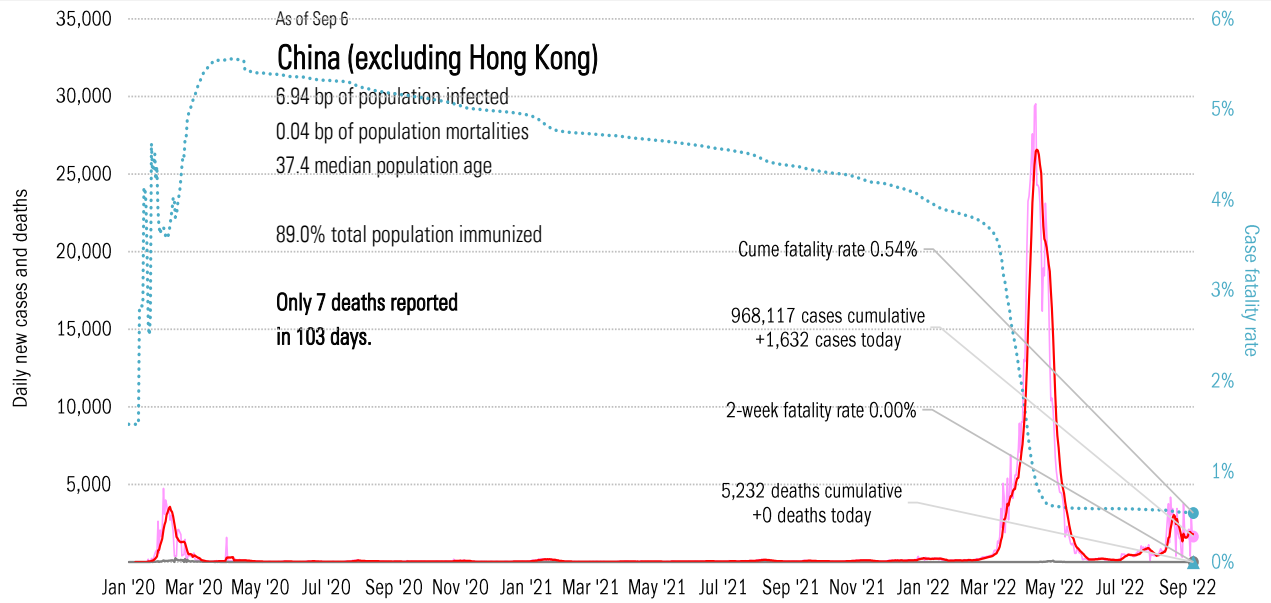
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

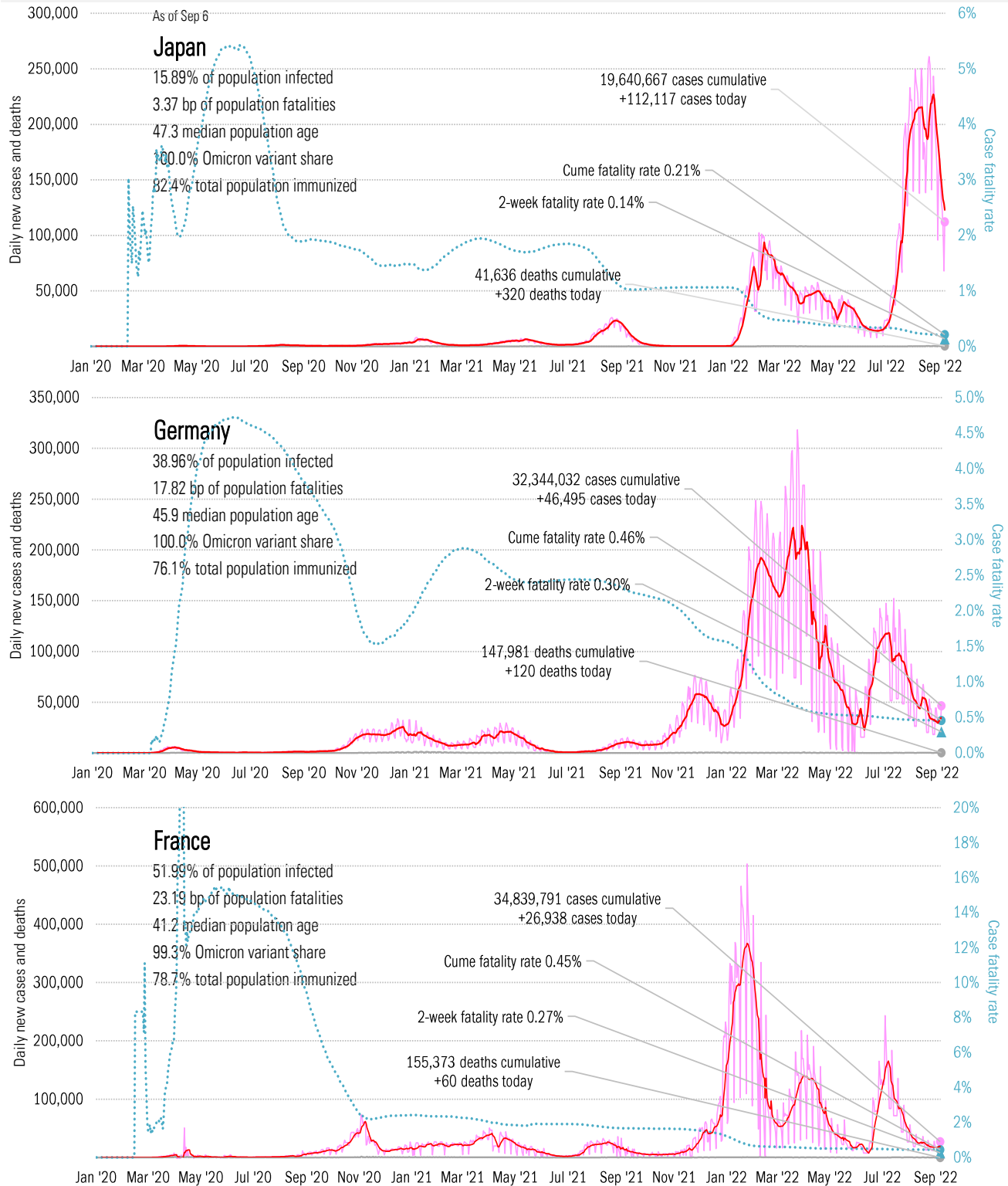
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

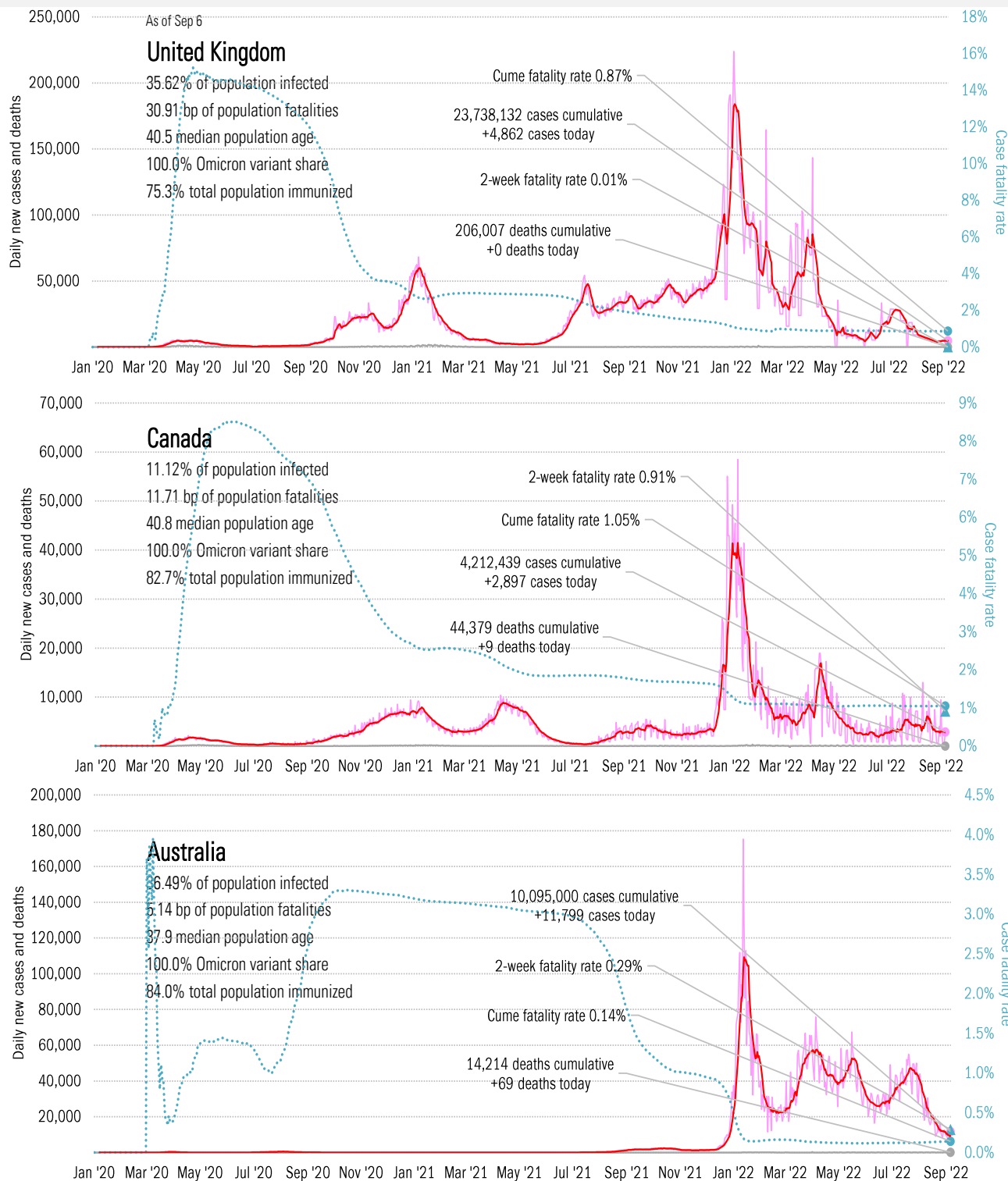
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

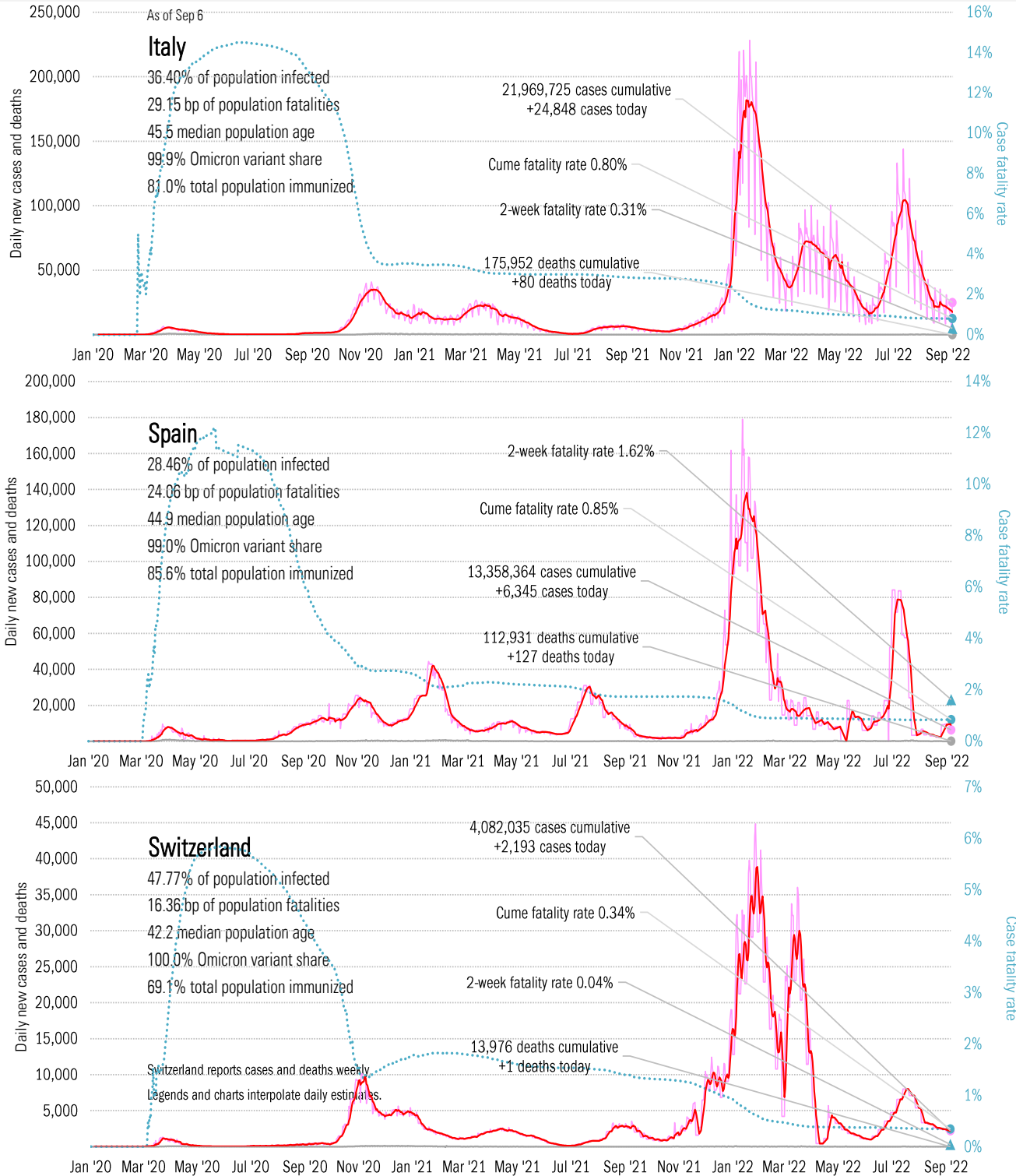
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

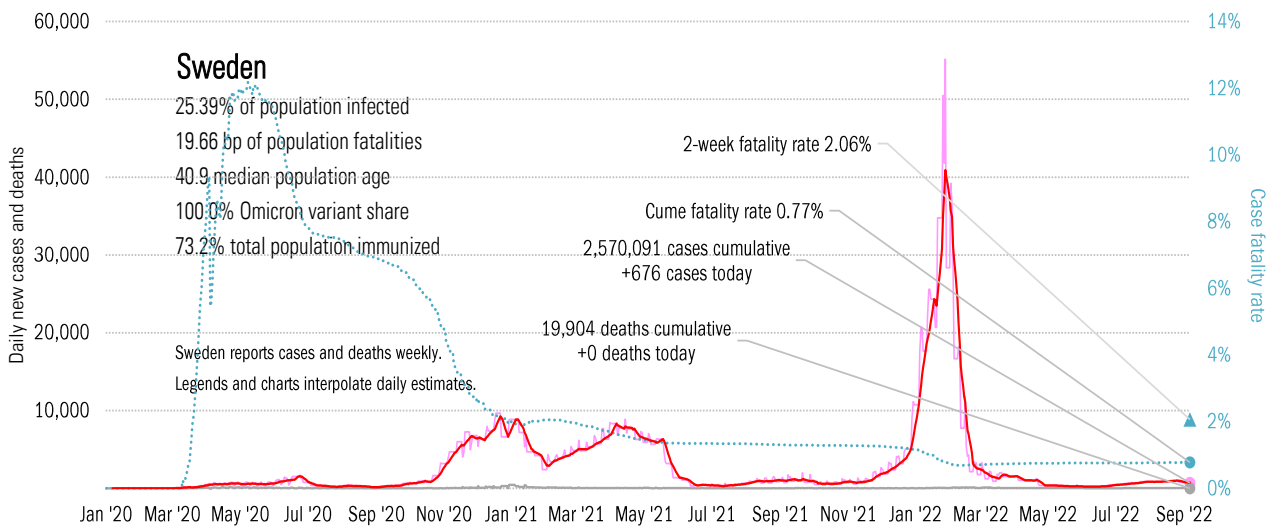
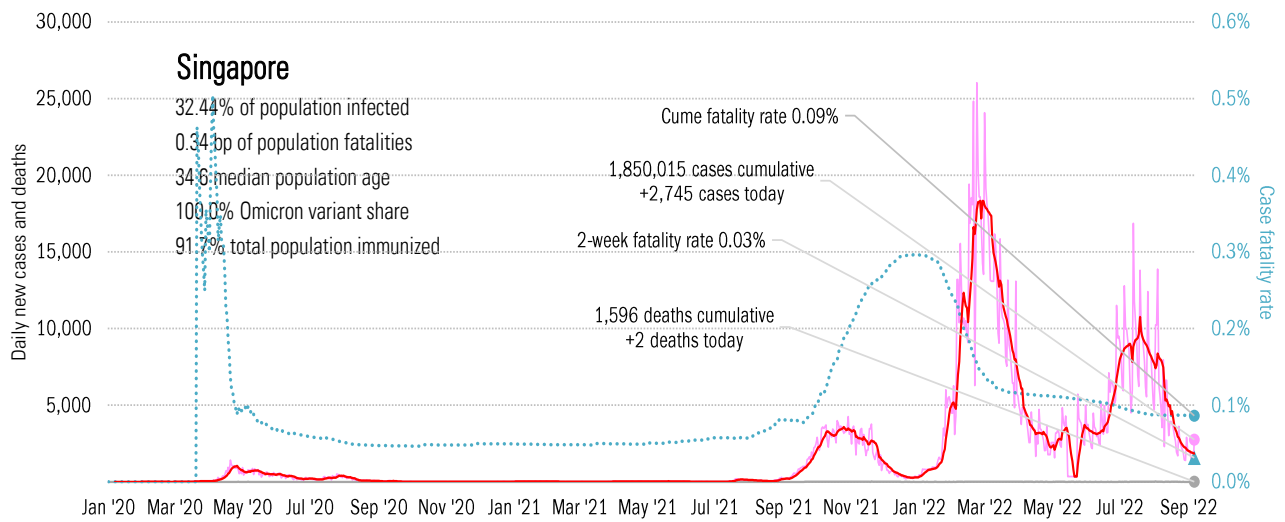
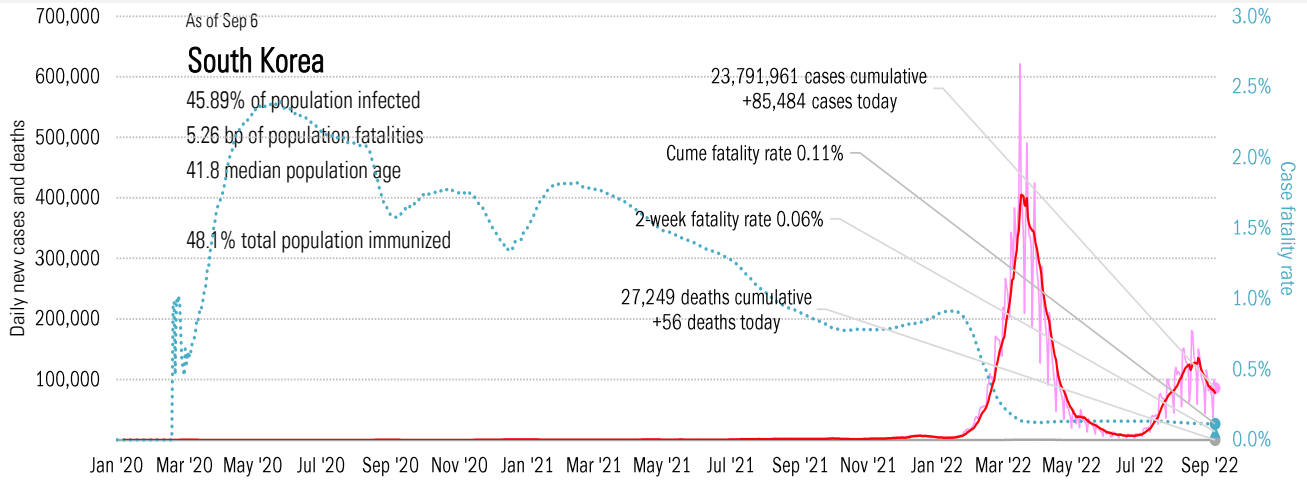
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

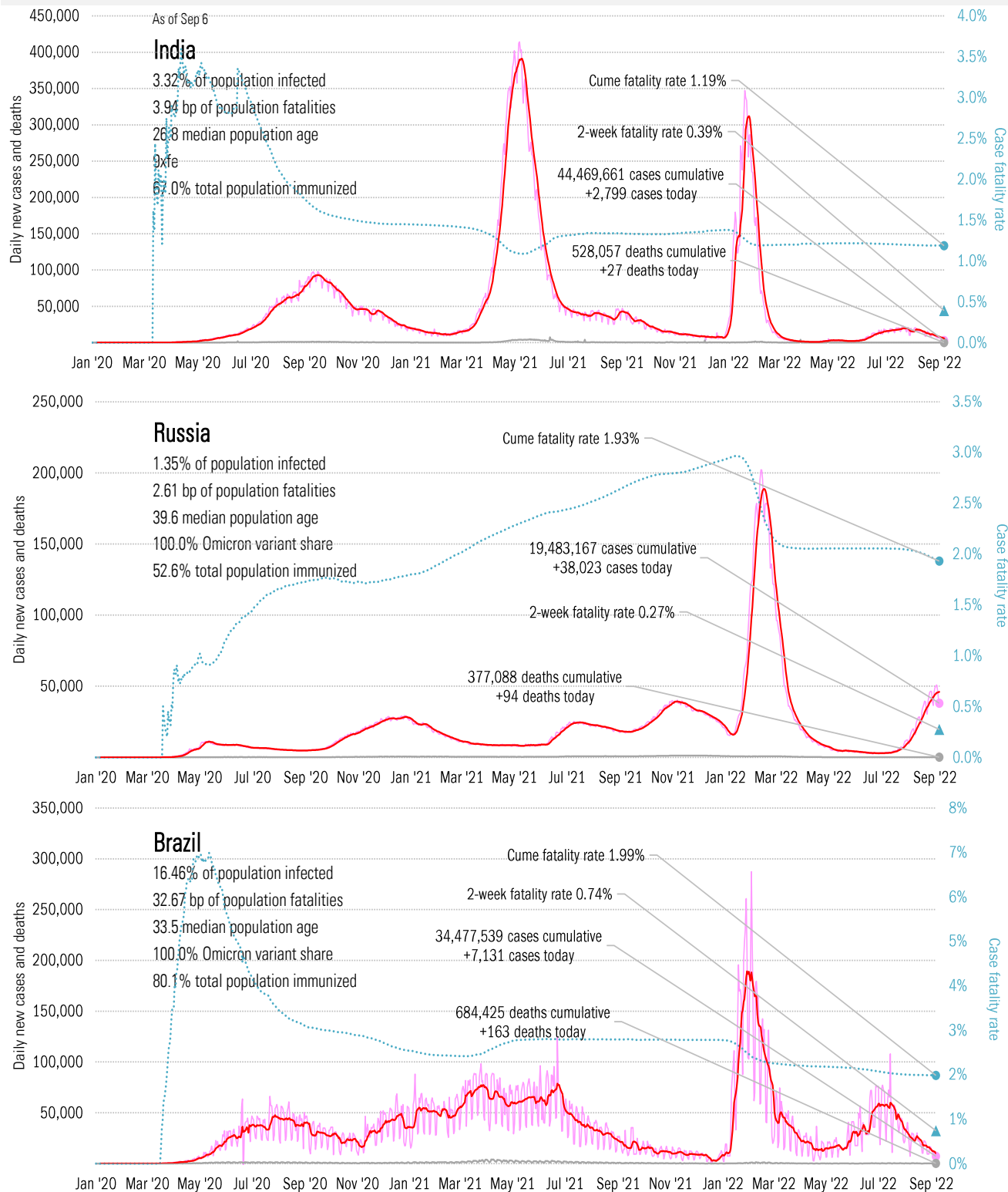
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

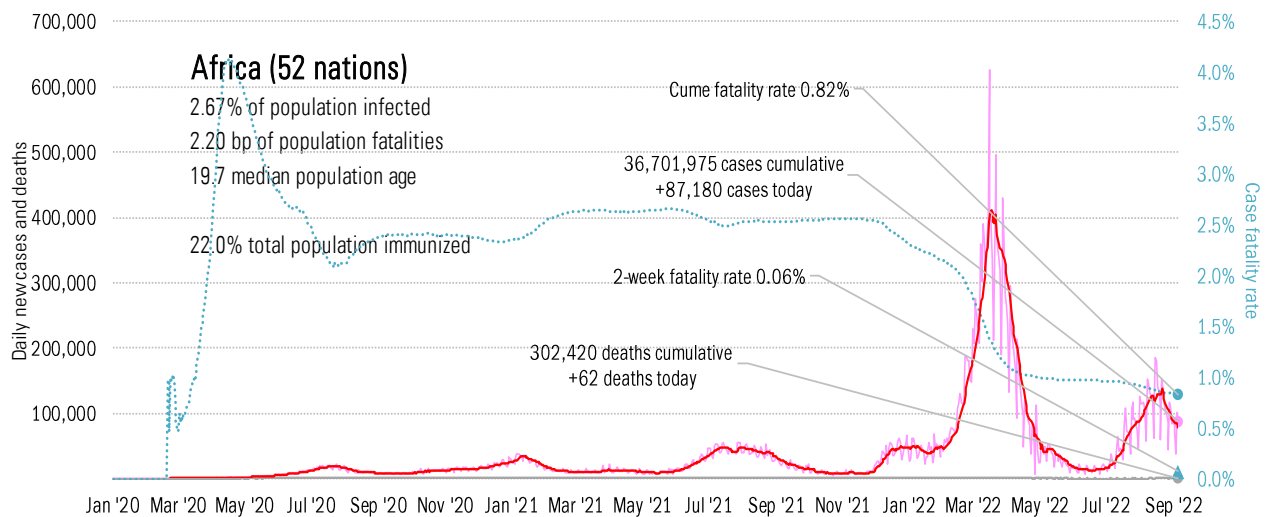
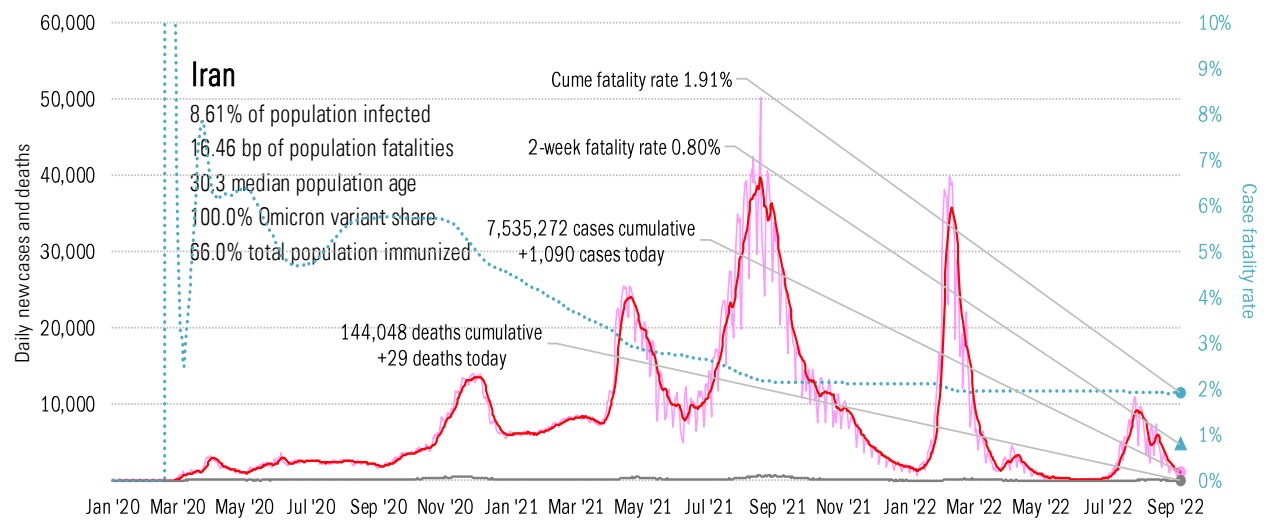
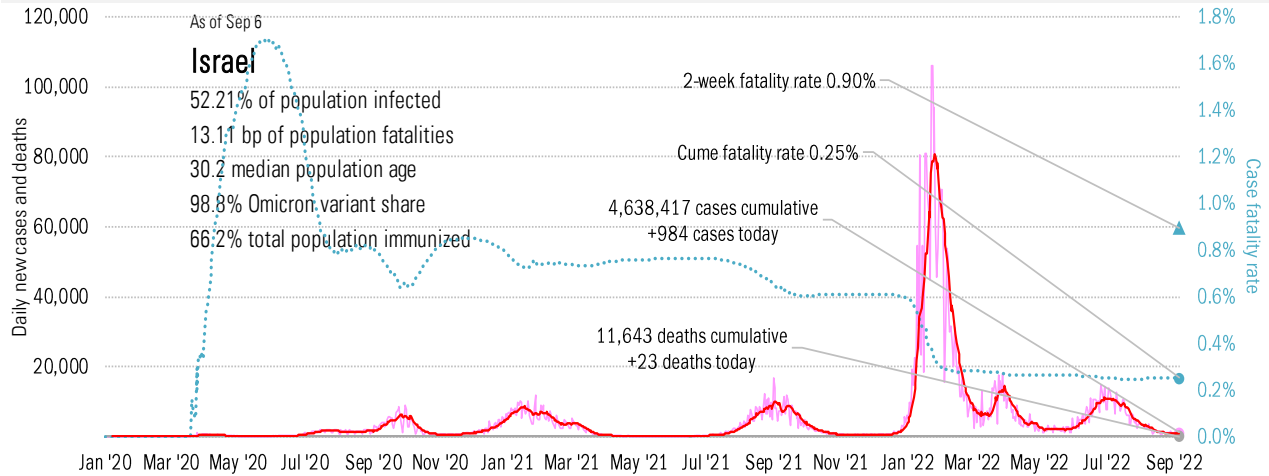
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

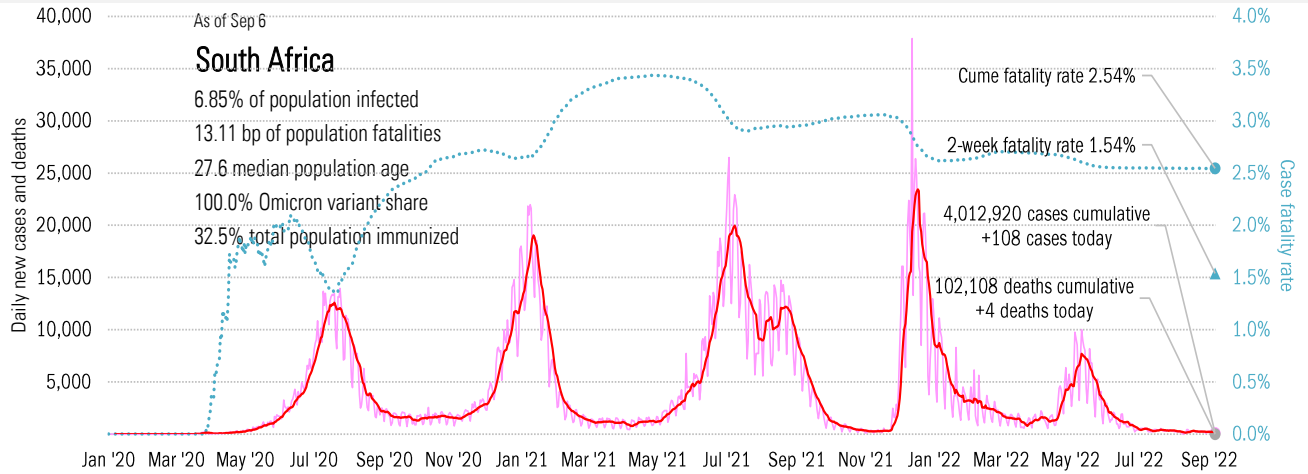
Cases: **7-day average** and **daily** Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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