Trend Macrolytics, LLC
Donald Luskin, Chief Investment Officer
Thomas Demas, Managing Director
Michael Warren, Energy Strategist

Data Insights: Covid-2019 Monitor

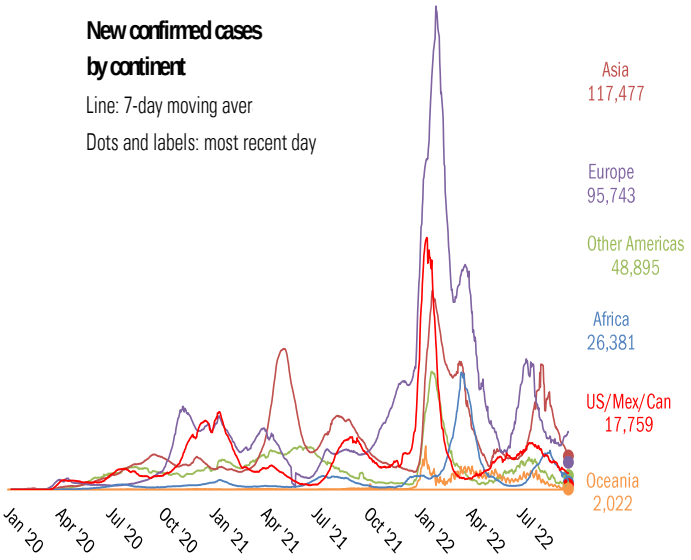
Sunday, September 25, 2022

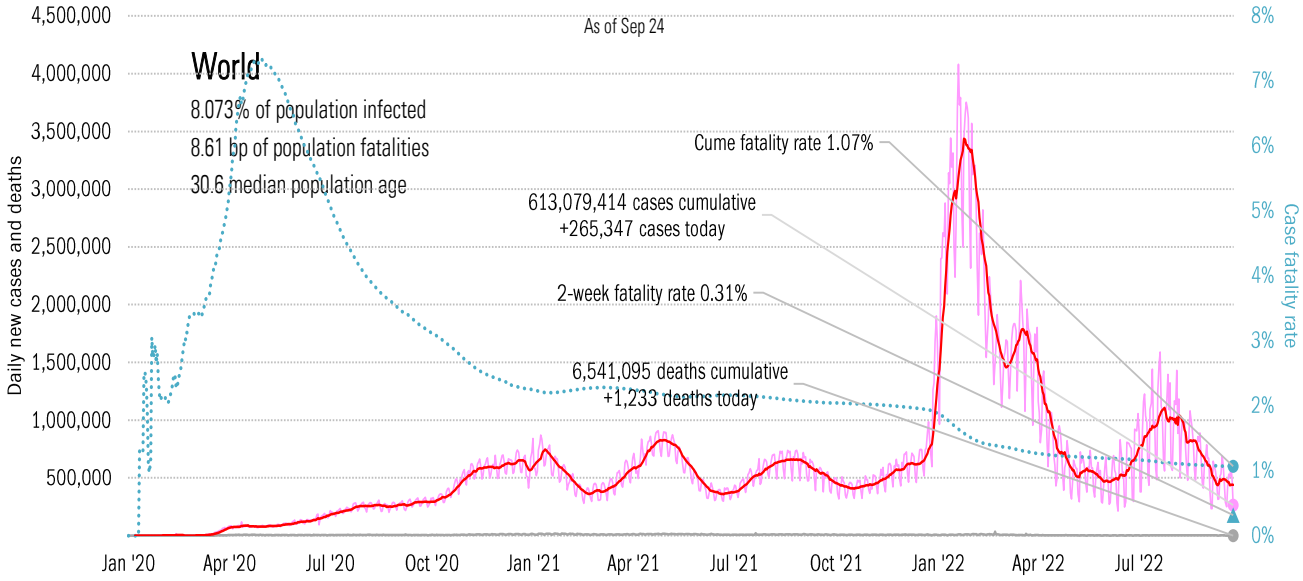
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	83,270	United States	445
Russia	50,741	Russia	110
Japan	39,191	Korea, South	73
Taiwan*	38,324	Turkey	71
Korea, South	25,792	Japan	68
Italy	22,360	Taiwan*	51
Turkey	21,411	Italy	43
Austria	8,599	Chile	29
India	4,777	Philippines	29
Poland	4,527	Mexico	26
	298,992		945
World	265,347	World	1,233
Top ten	113%	Top ten	77%





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

Copyright 2022 Trend Macrolytics LLC. All rights reserved. This document is not to be forwarded to individuals or organizations not authorized by Trend Macrolytics LLC to receive it. For information purposes only; not to be deemed to be recommendations for buying or selling specific securities or to constitute personalized investment advice. Derived from sources deemed to be reliable, but no warranty is made as to accuracy.

The US scorecard

Cases: 7-day average and daily Deaths: Daily

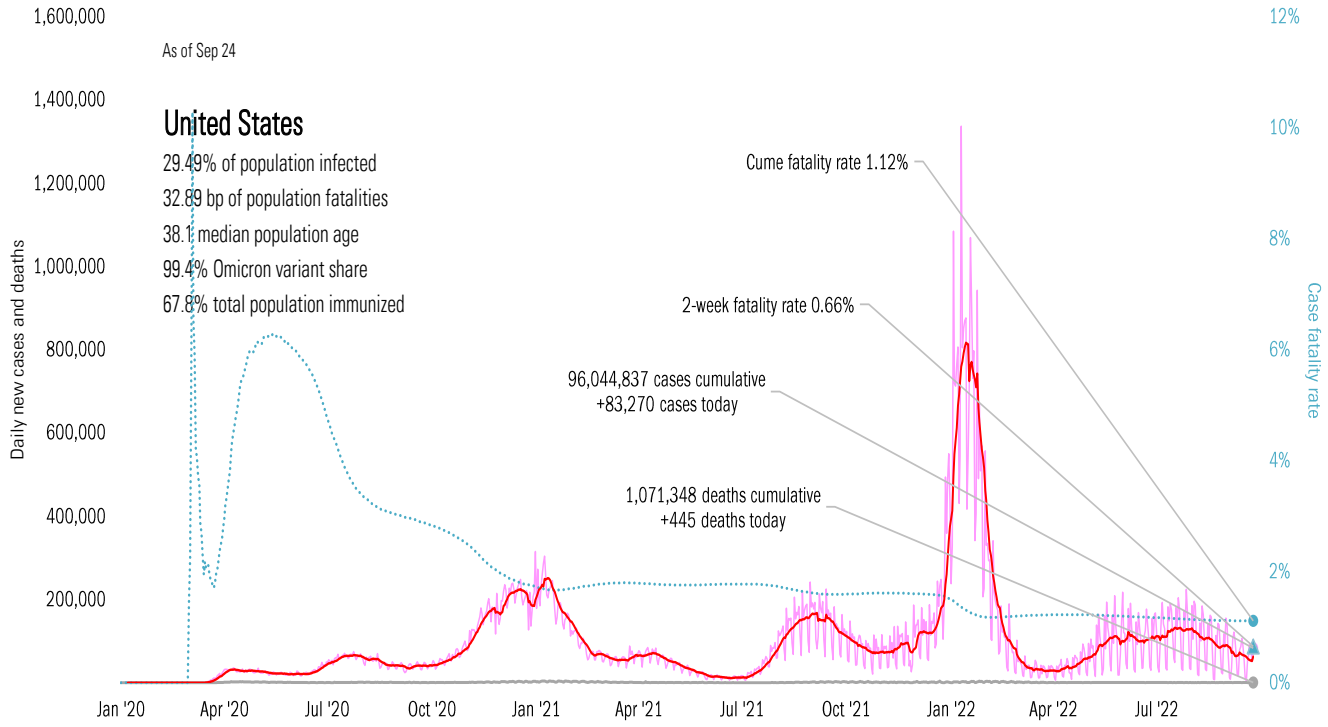
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
PA	16,515	TX	61	NY	278	CA	11,233,276	CA	95,796	TX	544,337	RI	92%	RI	87%
TX	6,761	IN	29	NC	140	TX	7,974,235	TX	90,790	CA	497,832	MA	89%	MA	85%
MO	6,063	WA	29	PA	202	FL	7,127,879	FL	81,185	FL	492,021	MN	86%	TX	84%
FL	5,774	NY	27	CT	74	NY	6,092,298	NY	71,646	NY	297,773	WA	85%	NC	83%
CA	4,640	MI	21	OH	198	IL	3,751,275	PA	47,098	GA	225,333	DC	85%	AL	83%
NY	3,135	GA	21	MN	67	PA	3,239,298	GA	40,171	OH	217,351	MO	85%	AK	83%
KY	3,056	VA	20	OR	42	NC	3,182,775	OH	39,767	PA	202,642	MD	83%	WA	82%
NC	2,898	PA	18	WA	82	OH	3,131,645	IL	39,624	IL	185,881	GA	82%	GA	81%
NJ	2,805	AR	17	NM	28	GA	2,900,354	MI	38,464	MI	161,705	NH	82%	NM	80%
WA	2,520	IL	14	ME	26	MI	2,821,489	NJ	34,715	KY	144,759	MI	82%	DC	80%
	54,167		257		1,137		51,454,524		579,256		2,969,634				
All states	83,270		445		3,910	All states	96,044,837		1,071,348		5,386,855	All states	70%		67%
Top ten	65%		58%		29%	Top ten	54%		55%		55%	Median	77%		74%

Some states not reporting

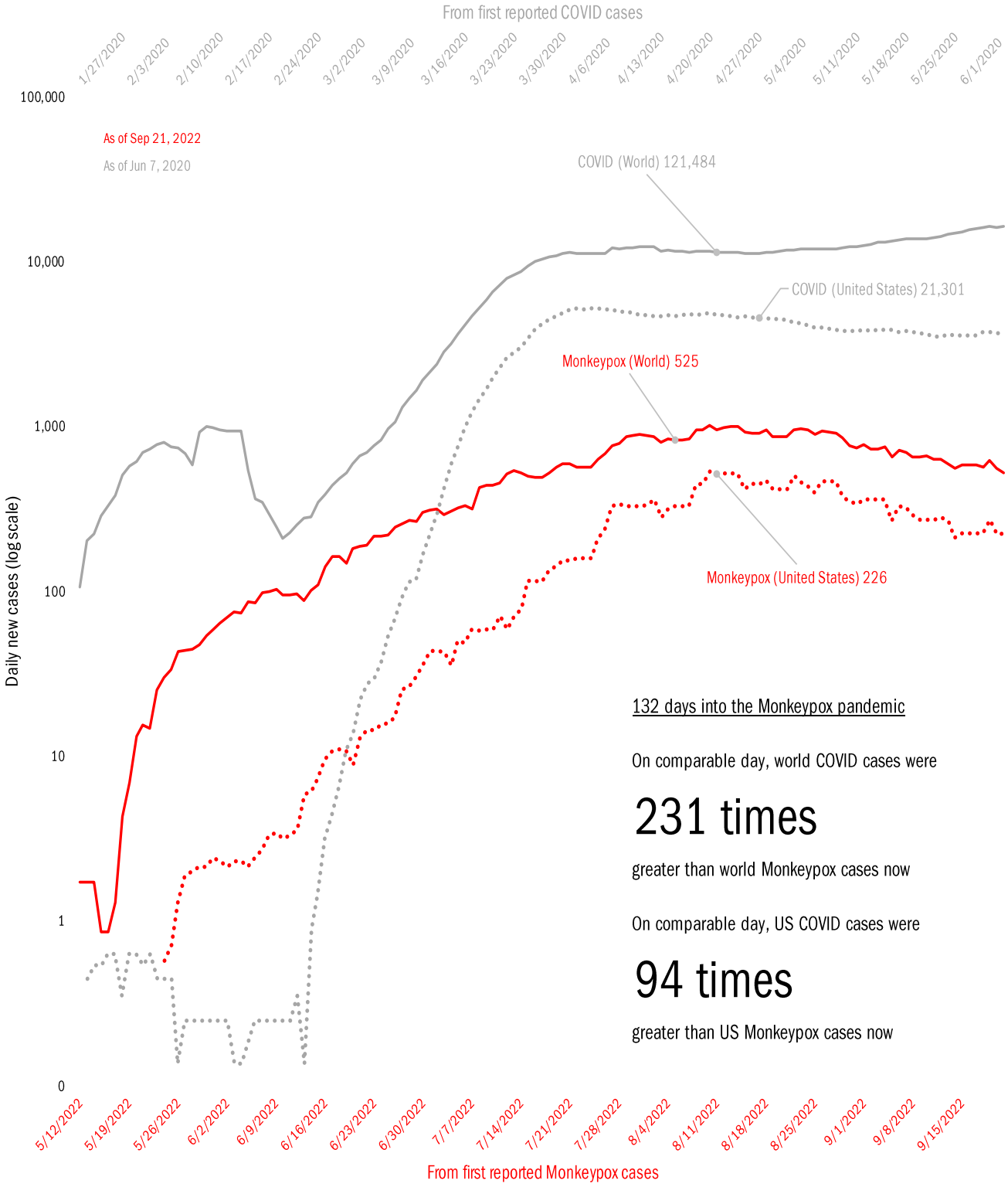
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-2,670	FL	-51	CA	-48
NJ	-283	AK	0	MO	-28
CT	-279	AL	0	KS	-24
AR	-52	AR	0	WI	-22
ME	-12	AZ	0	MI	-17



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

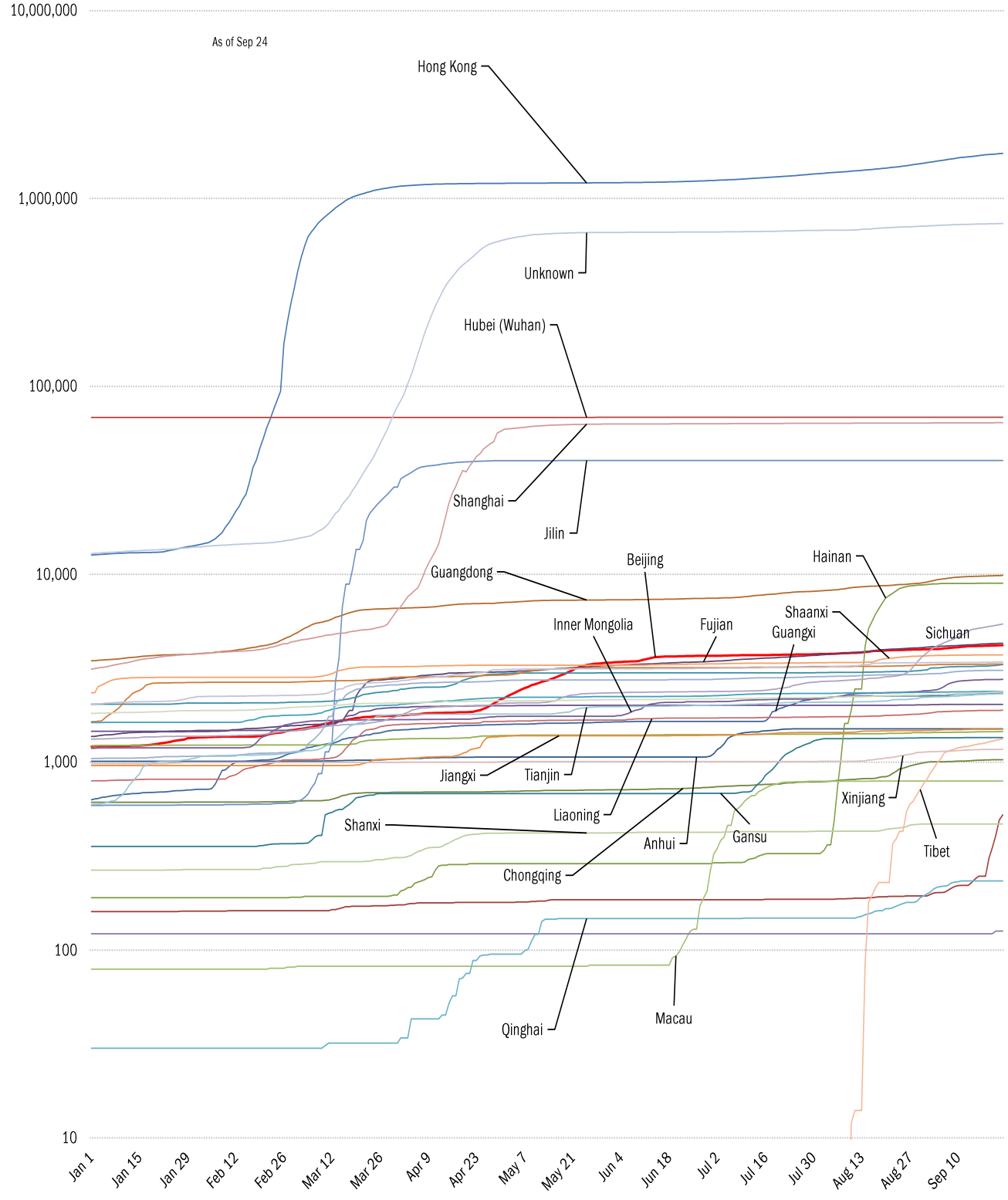
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

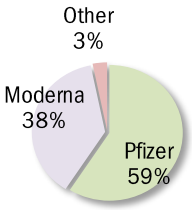
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	631,639,689				+0.490 million
of which boosters	111,721,786				+0.055 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	272,009,452	81%	231,527,726	69%	+0.050 million
Age 12 to 17	18,203,927	72%	15,554,814	61%	+0.002 million
Age 18 to 64	181,388,452	89%	154,049,342	76%	+0.024 million
Age 65 and over	59,876,702	100%	52,388,902	96%	+0.011 million

Immunity	Full	Partial
US	67.8%	79.5%
UK	75.4%	80.0%
France	78.7%	80.9%
Spain	85.6%	87.0%
Germany	76.1%	77.7%
Italy	81.0%	85.8%
Australia	84.0%	86.6%
Israel	66.2%	72.3%
Canada	82.7%	87.2%
Japan	82.5%	83.6%
Africa	22.6%	28.5%
India	67.3%	72.9%
Brazil	80.3%	87.2%
China	89.1%	91.4%

Global data differs due to sources, timing



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

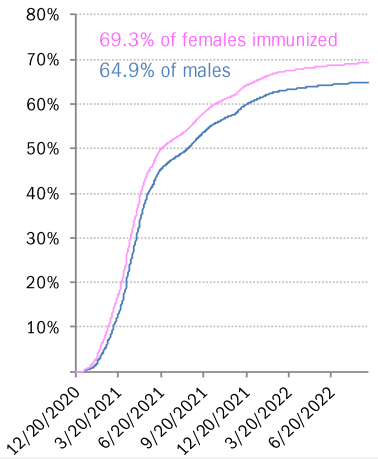
"Immunity" = two doses

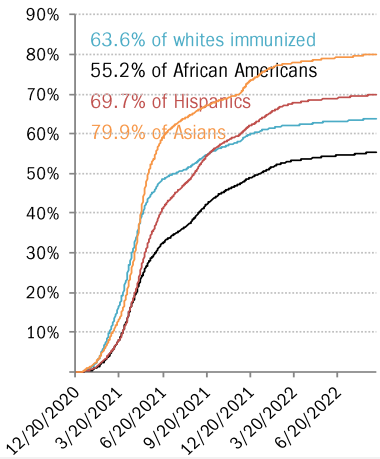
Best
Middle
Worst

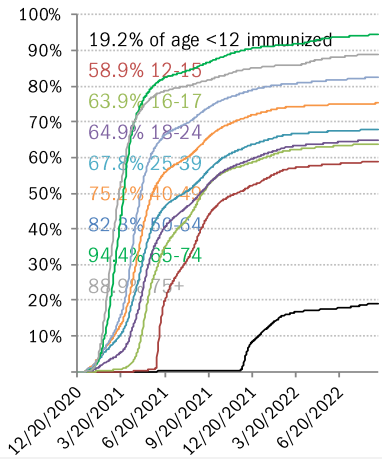
As of Sep 23

					WI					ME
					73.4%					93.5%
					66.8%					81.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
83.2%	62.6%	66.8%	67.3%	77.0%	77.5%	68.3%		92.3%	95.0%	91.4%
74.0%	55.3%	58.0%	56.8%	70.6%	69.8%	61.3%		78.8%	83.2%	72.8%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
79.7%	77.2%	59.4%	79.8%	69.4%	63.3%	64.6%	87.8%	92.7%	95.0%	
70.9%	62.1%	52.0%	64.0%	63.1%	56.9%	59.5%	70.8%	77.4%	81.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.3%	73.8%	81.7%	71.9%	67.8%	67.6%	66.4%	88.2%	89.3%	95.0%	95.0%
73.7%	65.5%	71.8%	64.9%	57.5%	58.5%	58.8%	74.9%	77.7%	81.1%	85.3%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	75.8%	90.8%	74.4%	68.4%	63.5%	87.9%	69.5%	95.0%	85.7%	
	63.4%	73.0%	63.6%	55.7%	55.6%	64.0%	58.5%	80.2%	71.2%	
			OK	LA	MS	AL	GA			
			72.9%	62.1%	61.0%	64.1%	67.1%			
			58.8%	54.4%	53.1%	52.3%	56.2%			
HI			TX					FL		PR
89.7%			74.7%					81.1%		95.0%
79.9%			62.2%					68.4%		85.0%

The demographics of US vaccination

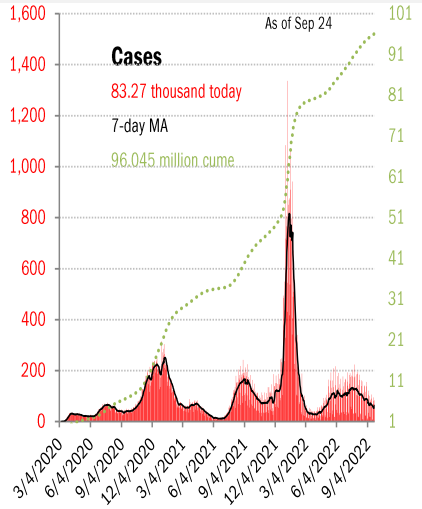


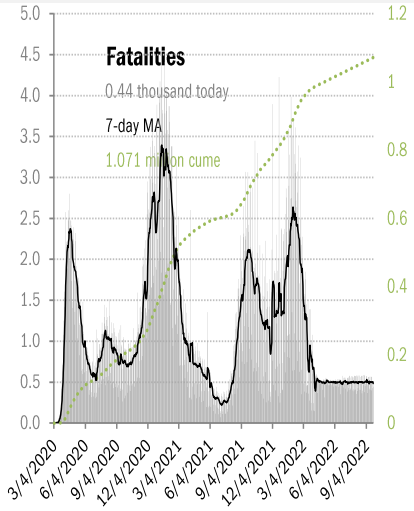


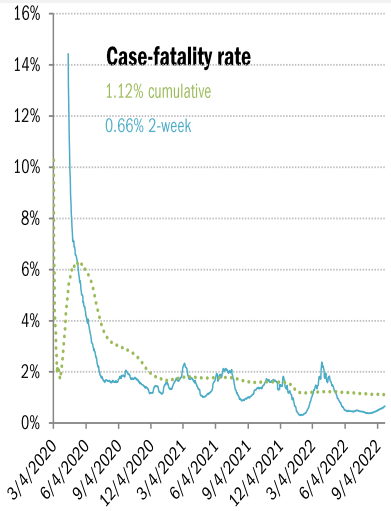


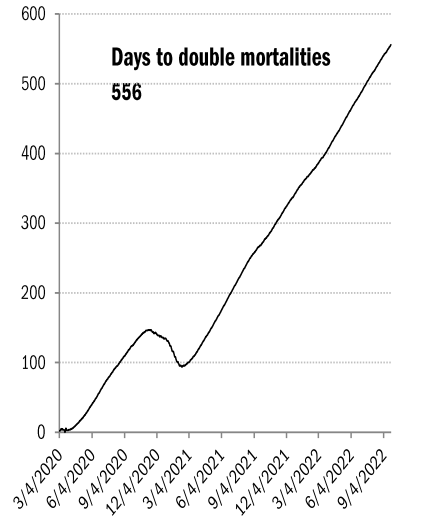
Source: CDC, CDC, Our World in Data, TrendMacro calculations

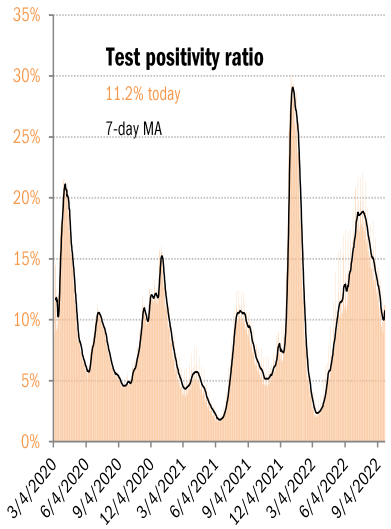
US deep-dive

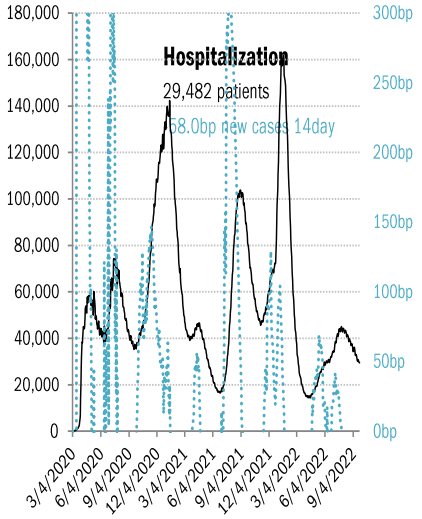


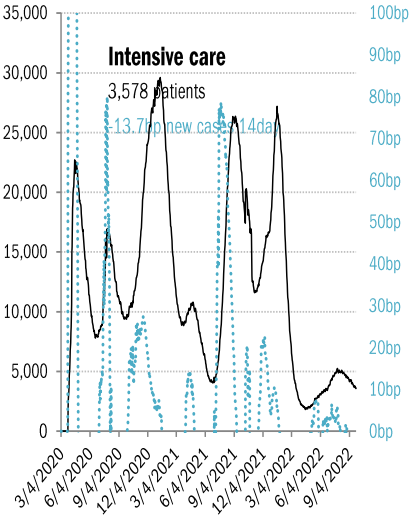


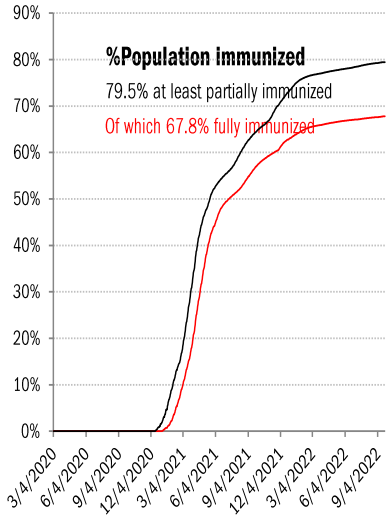












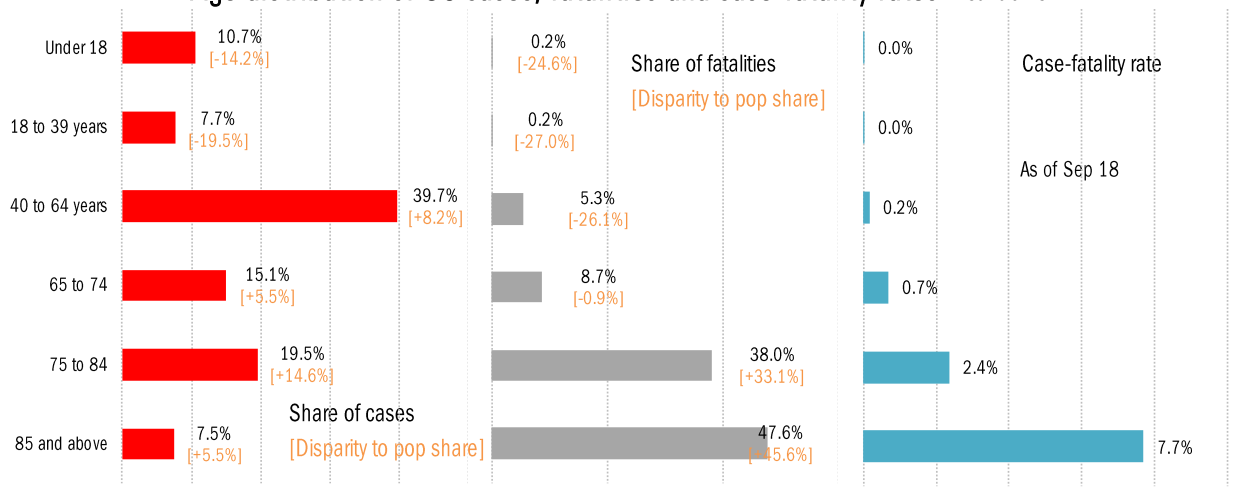
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

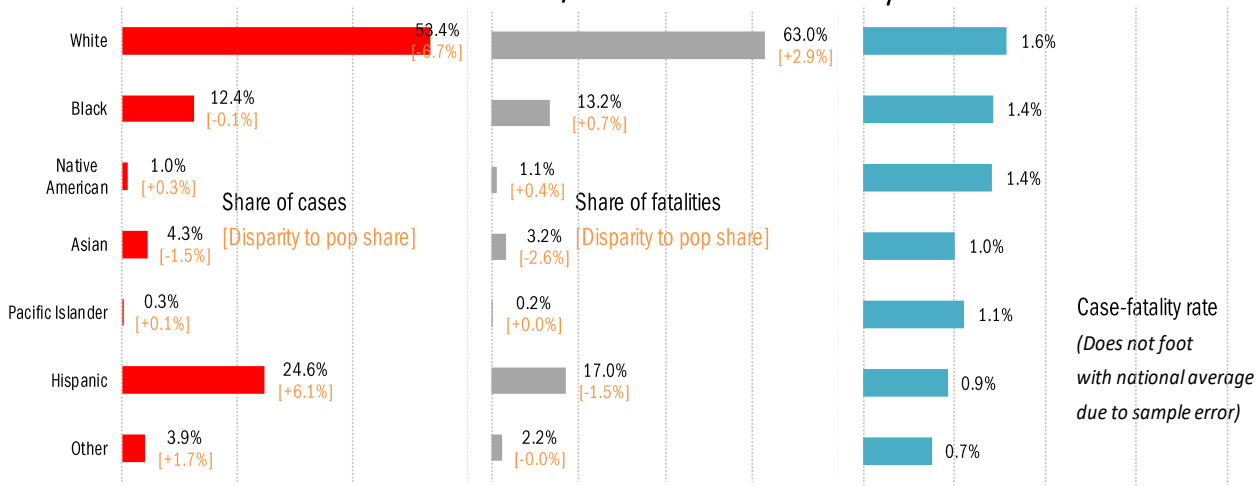
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



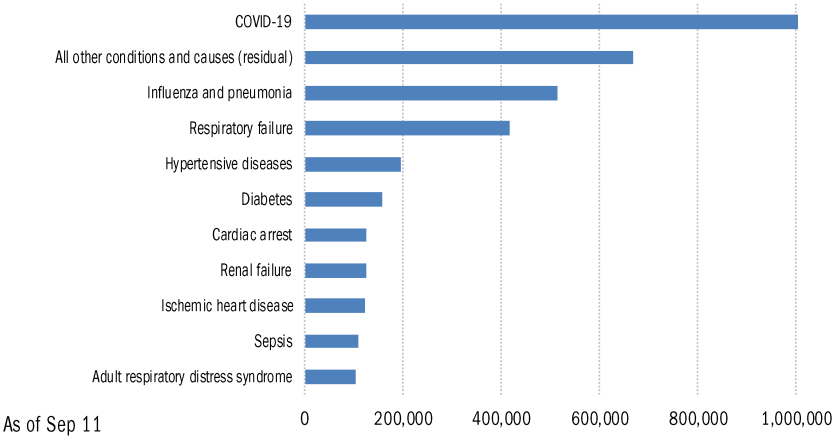
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

The Johns Hopkins University Center for Systems Science and Engineering COVID-19 Dashboard: data collection process, challenges faced, and lessons learned
Ensheng Dong
The Lancet
August 31, 2022

Malaysia's health minister urges ASEAN pandemic 'playbook'
P. Prem Jumar
Nikkei Asia
September 25, 2022

Relaxation of Covid rules can be the boost that China's economy needs
South China Morning Post
September 25, 2022

Did a famous doctor's covid shot make his cancer worse?
Roxanne Khamsi
The Atlantic
September 22, 2022

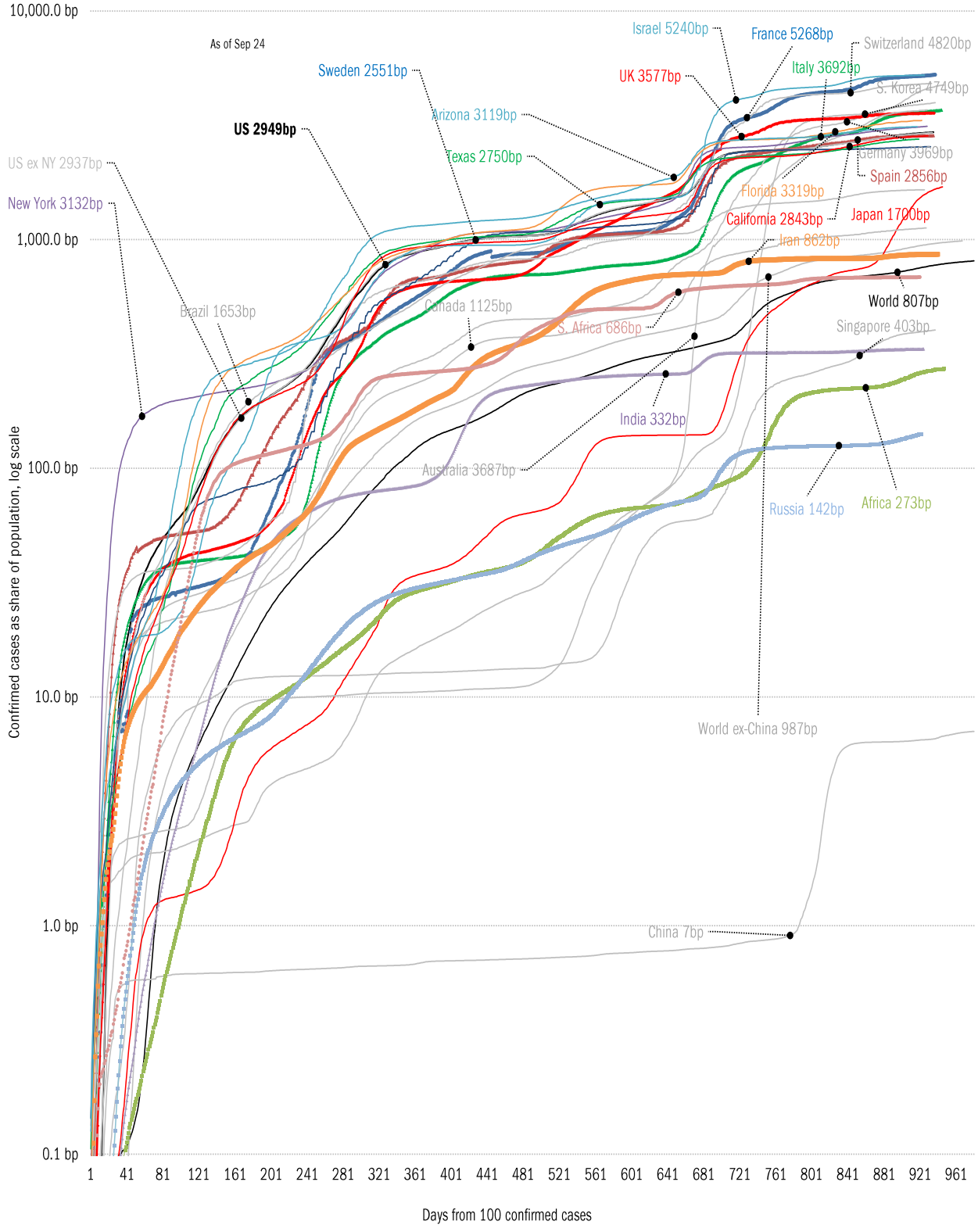
FDA Uses Transhumanist Slogans to Push New COVID Boosters
Joseph Mercola
The Defender
September 22, 2022

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

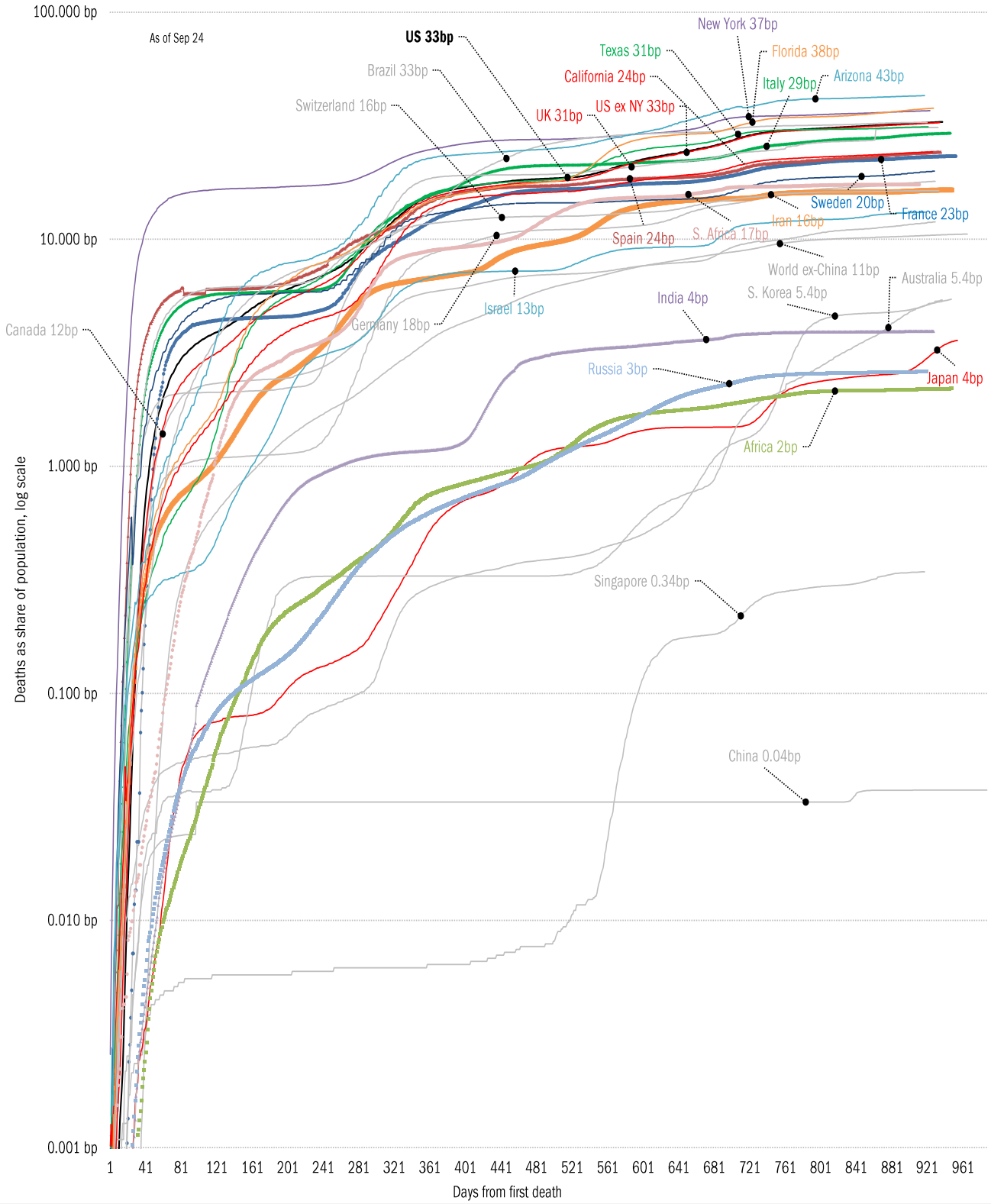
Share of infected population from first day with 100 confirmed cases, log scale



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

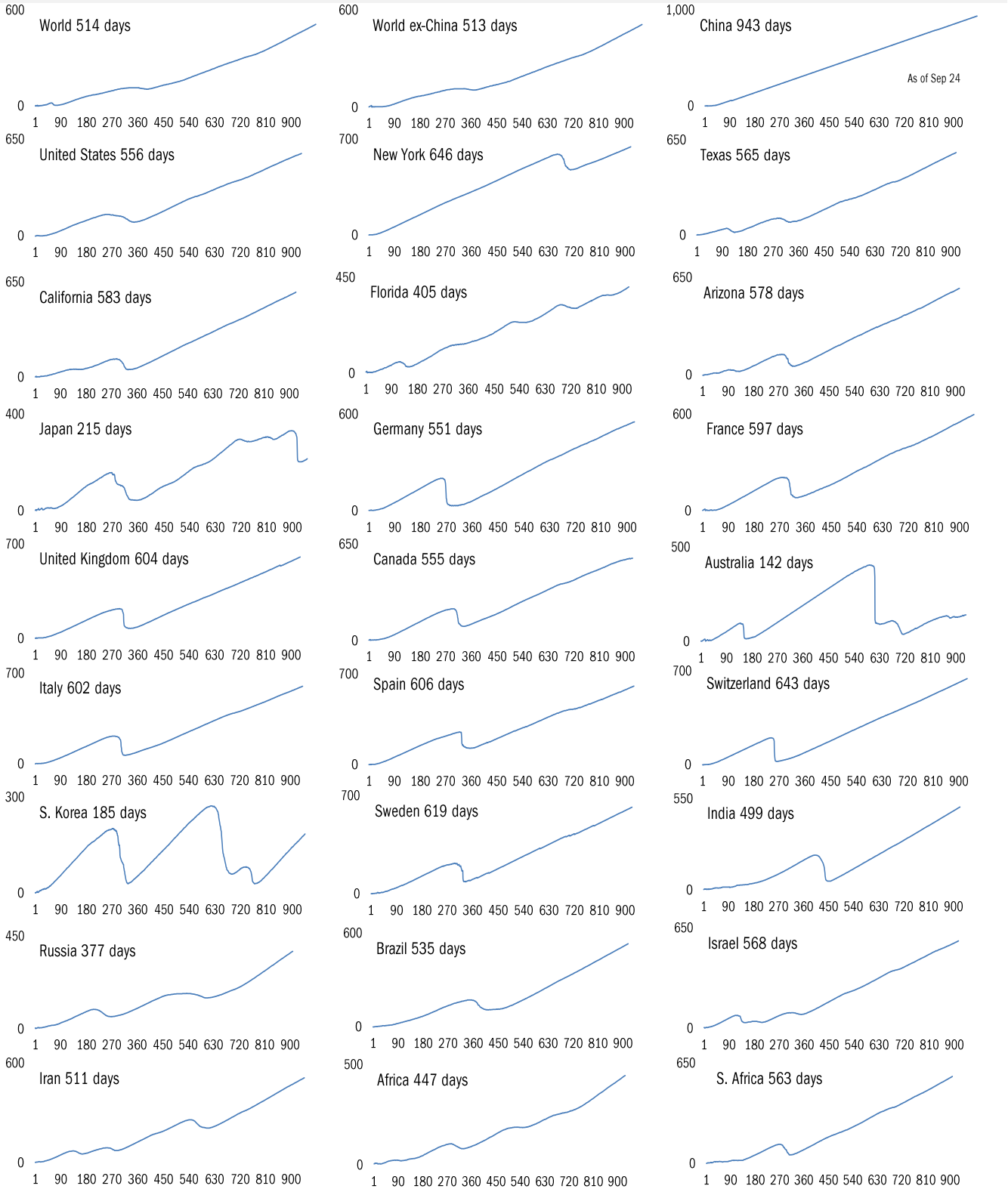


Source: Johns Hopkins, TrendMacro calculations

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

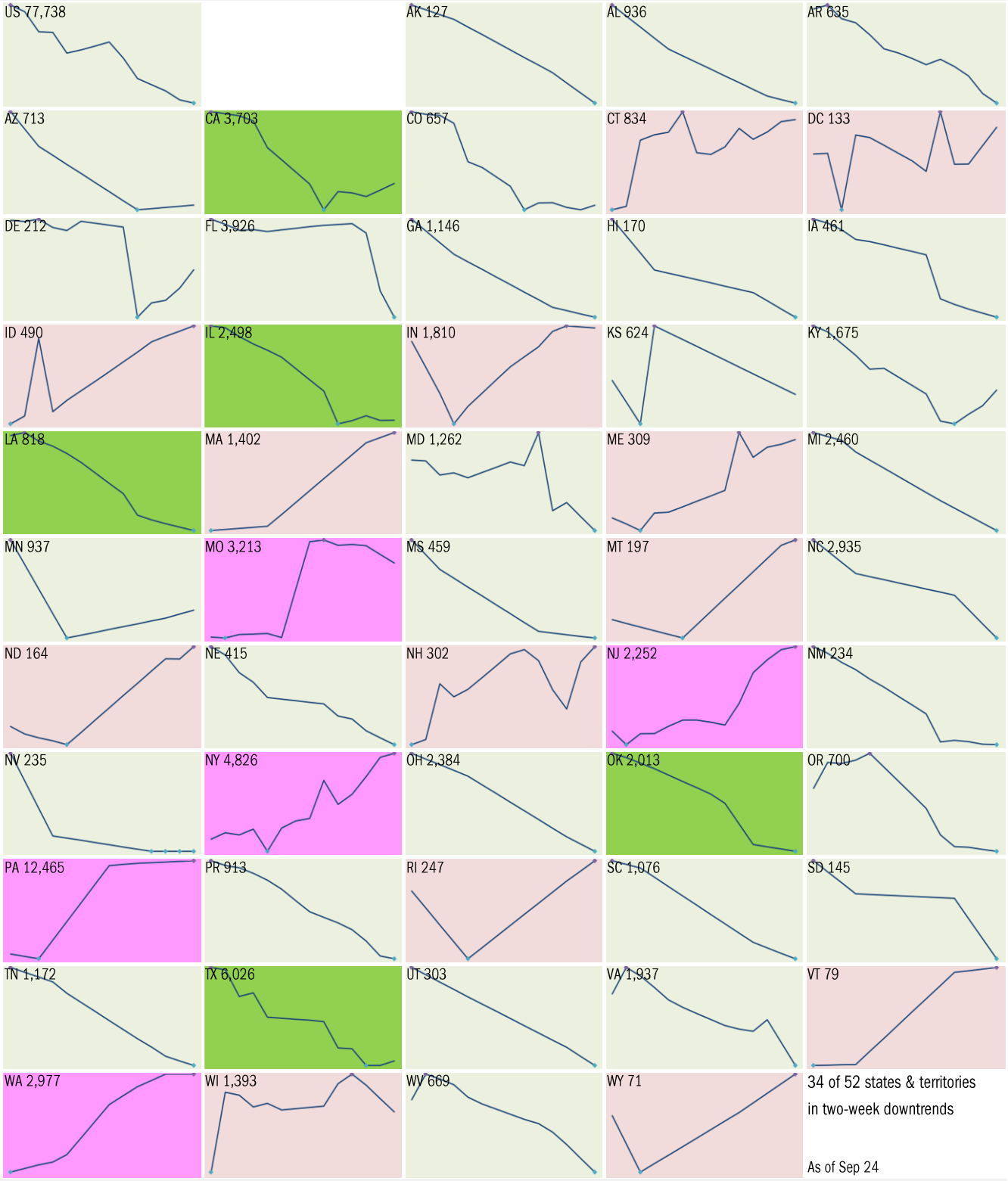


Source: Johns Hopkins, TrendMacro calculations

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

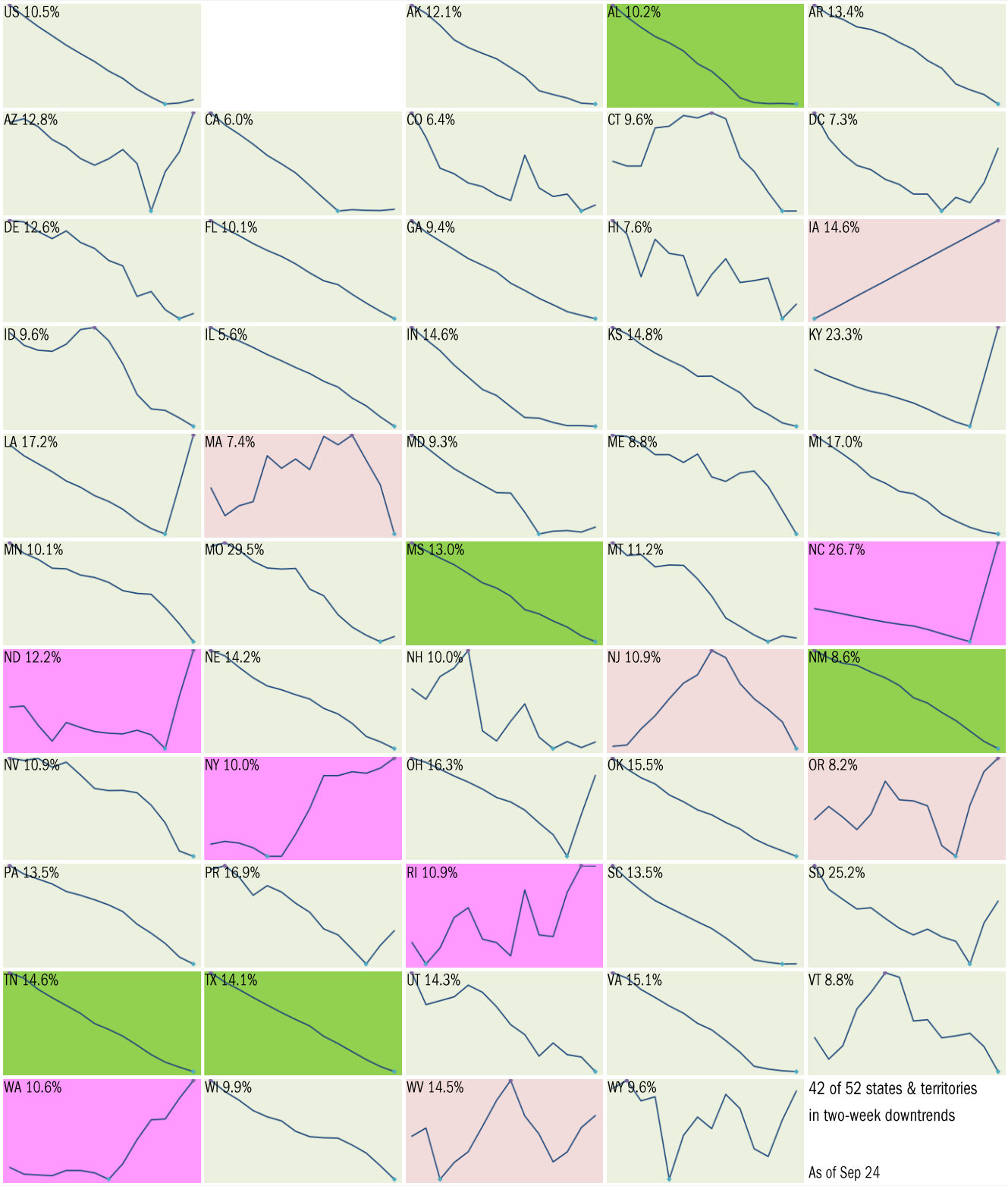


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **test-positivity ratio**

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

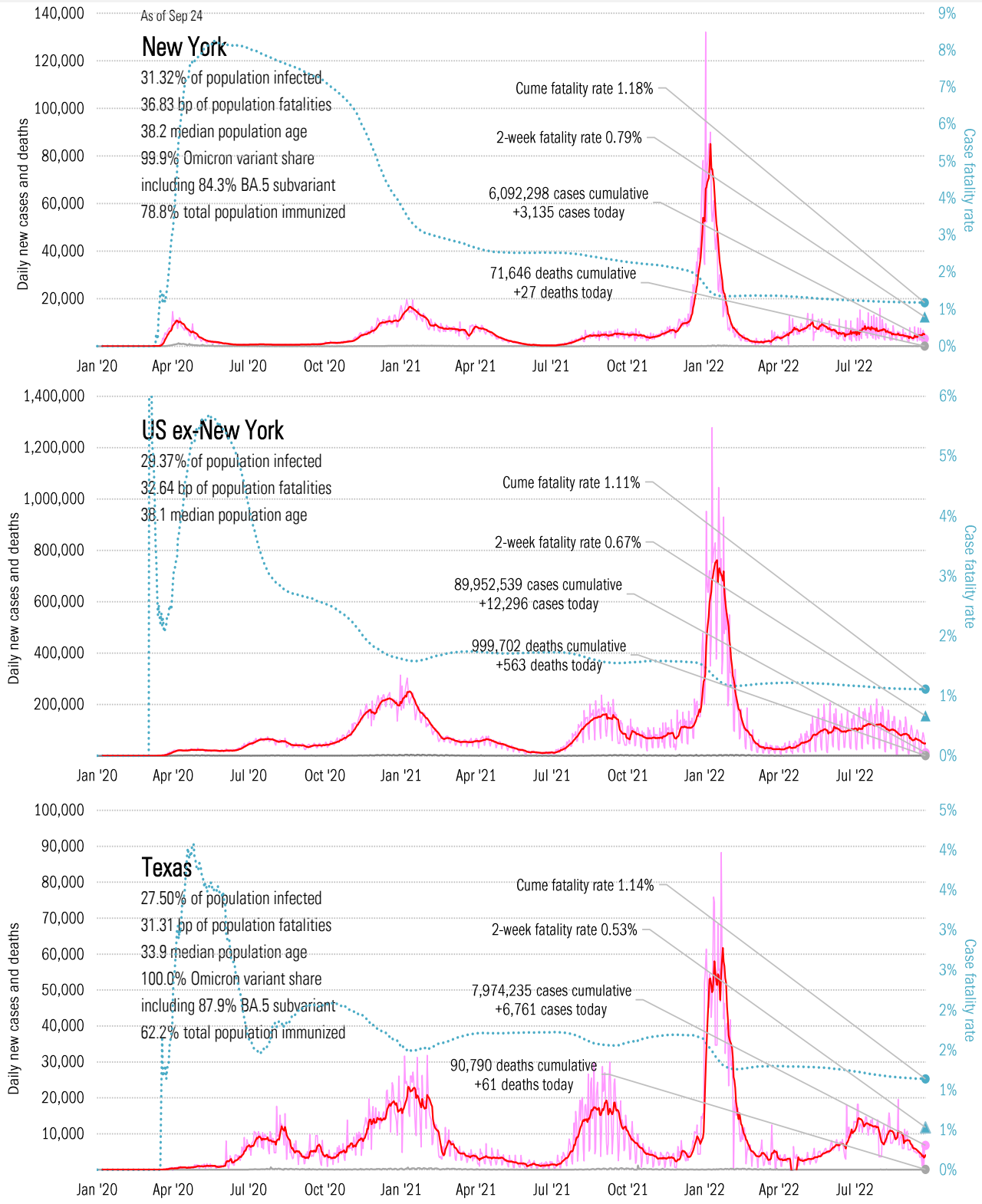
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

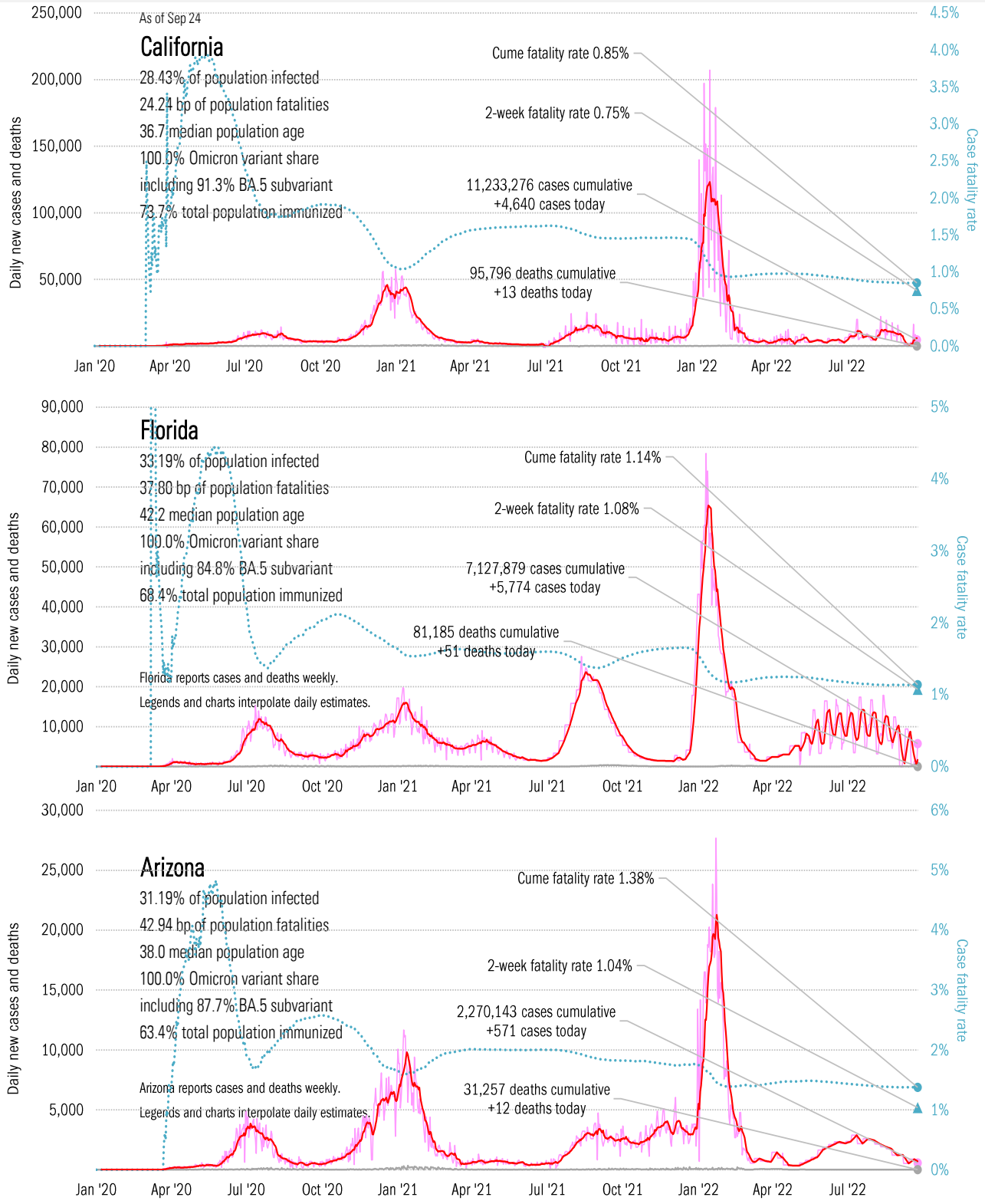
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

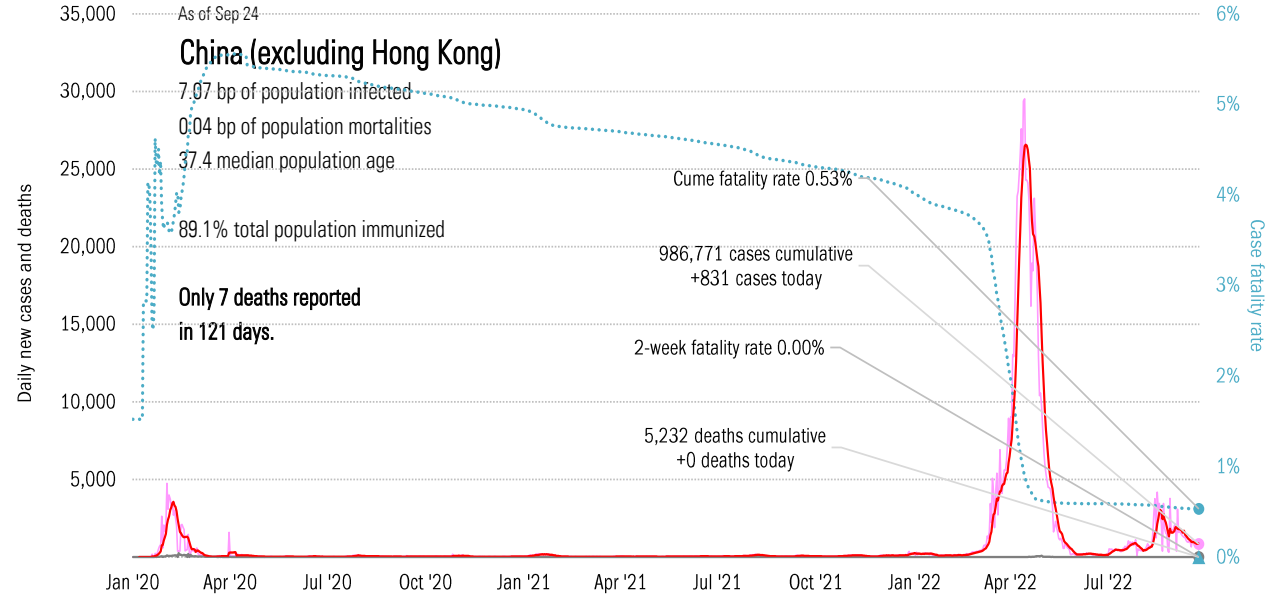
Cases: 7-day average and daily Deaths: Daily

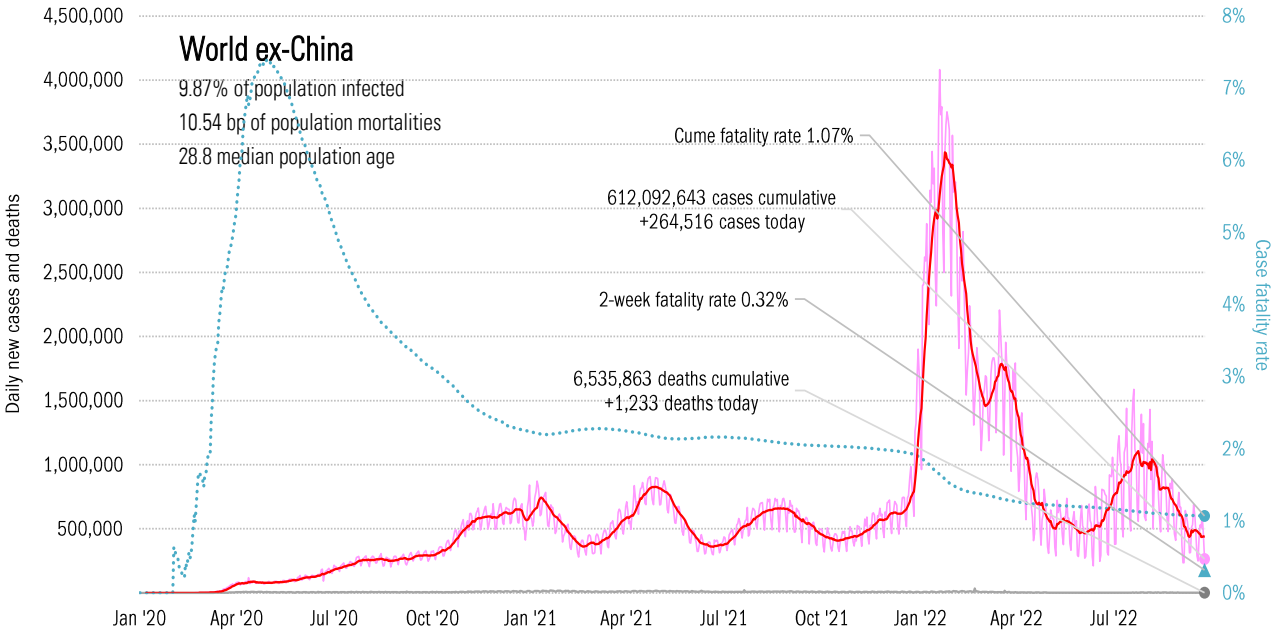


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

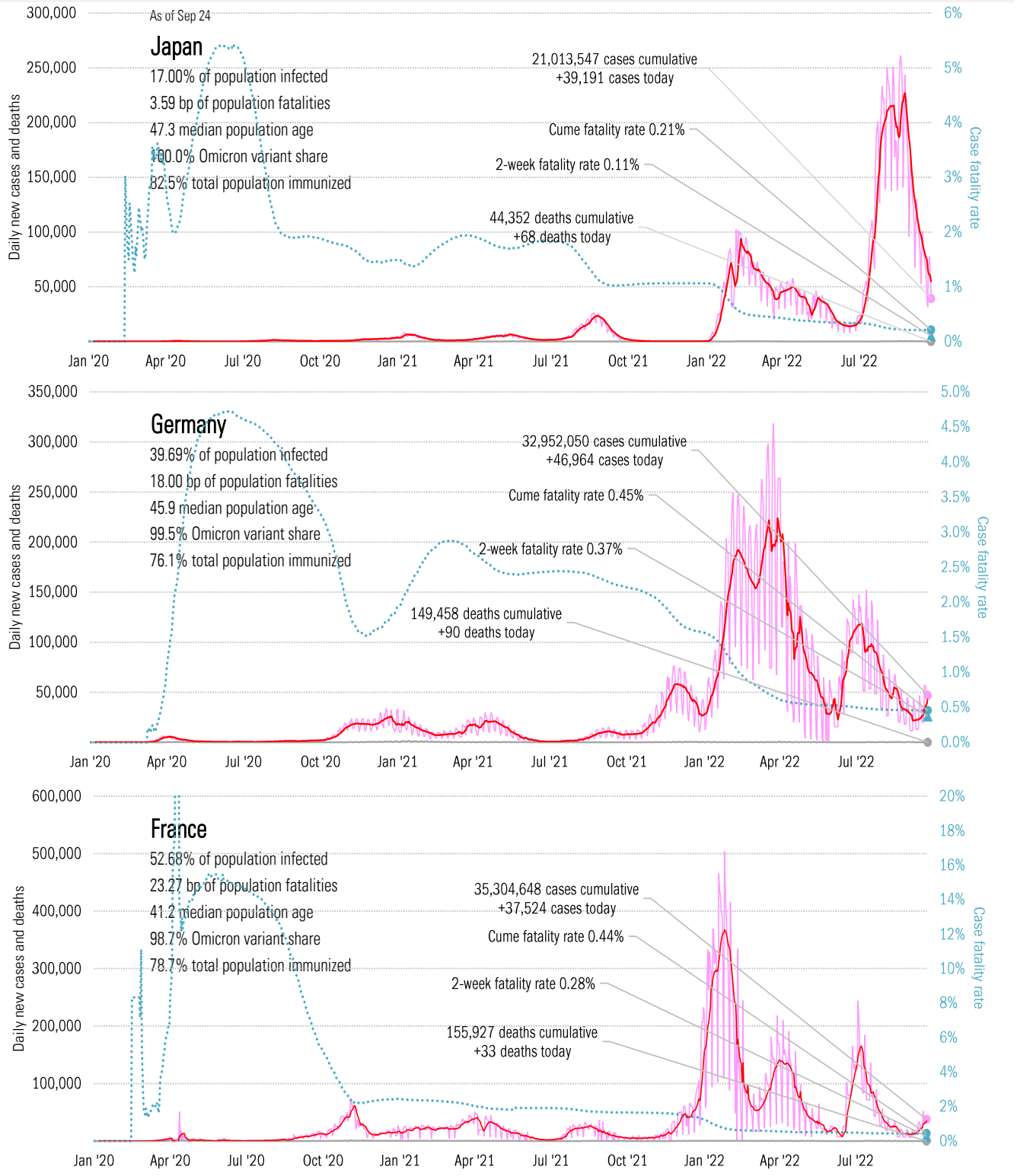




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

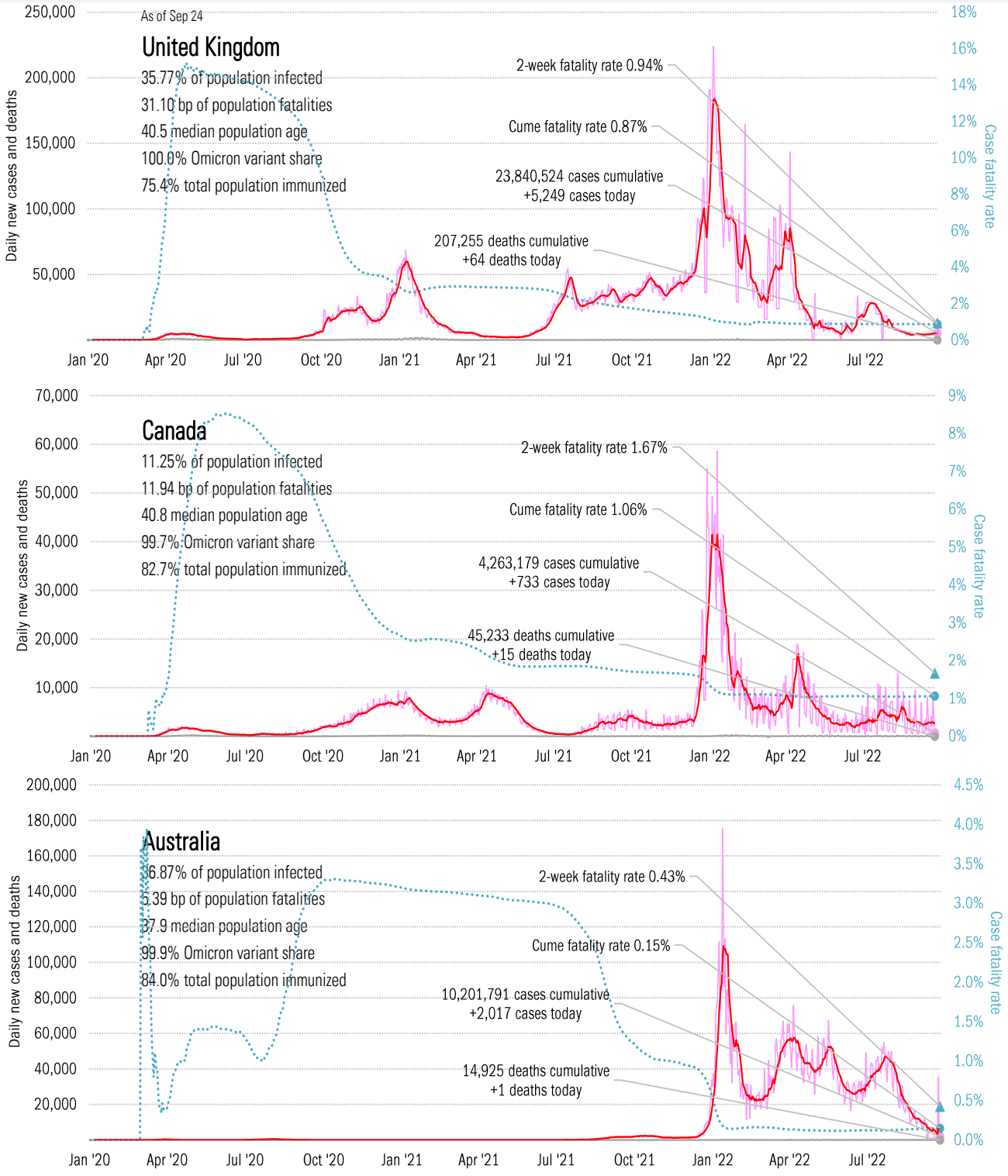
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

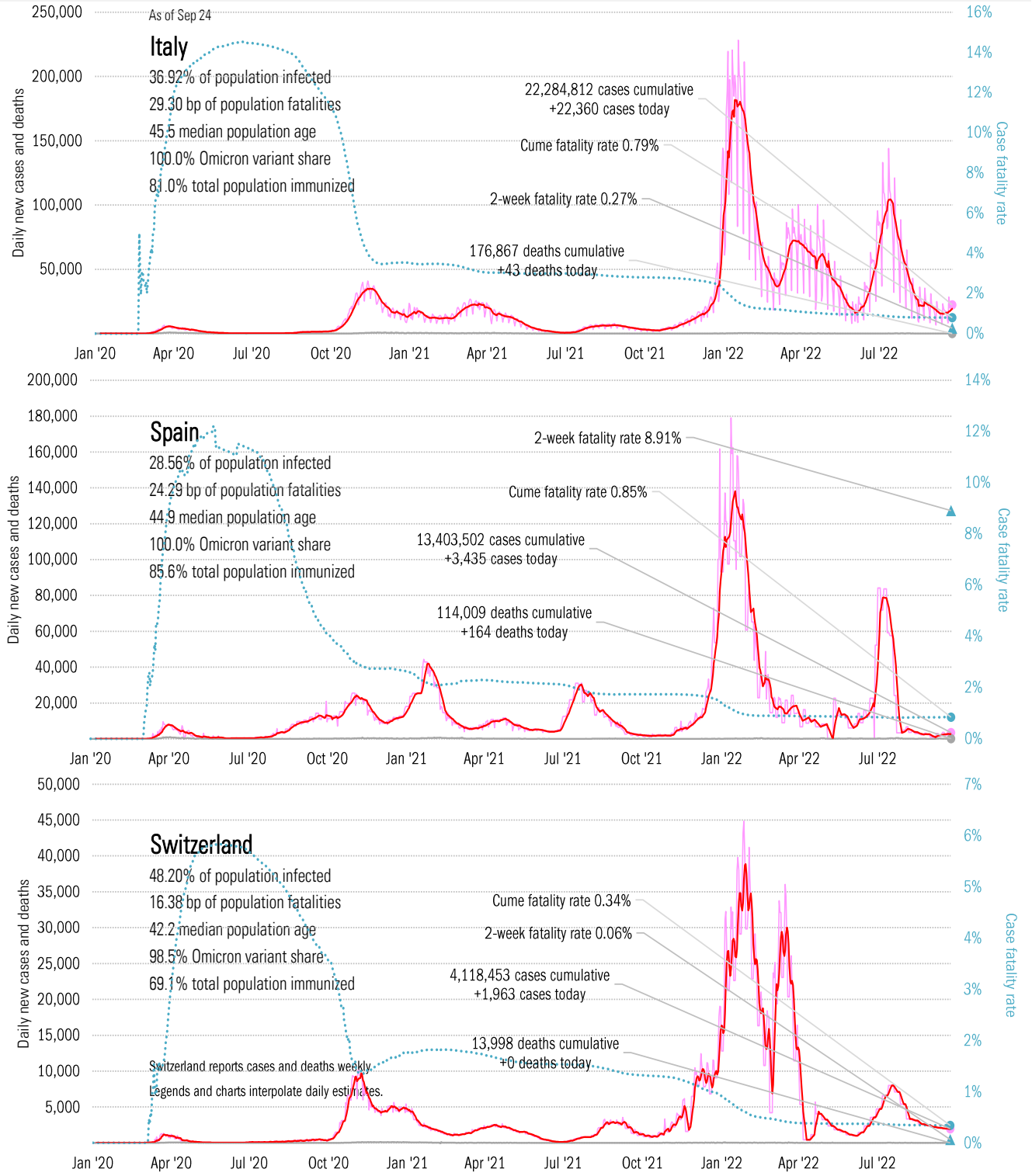
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

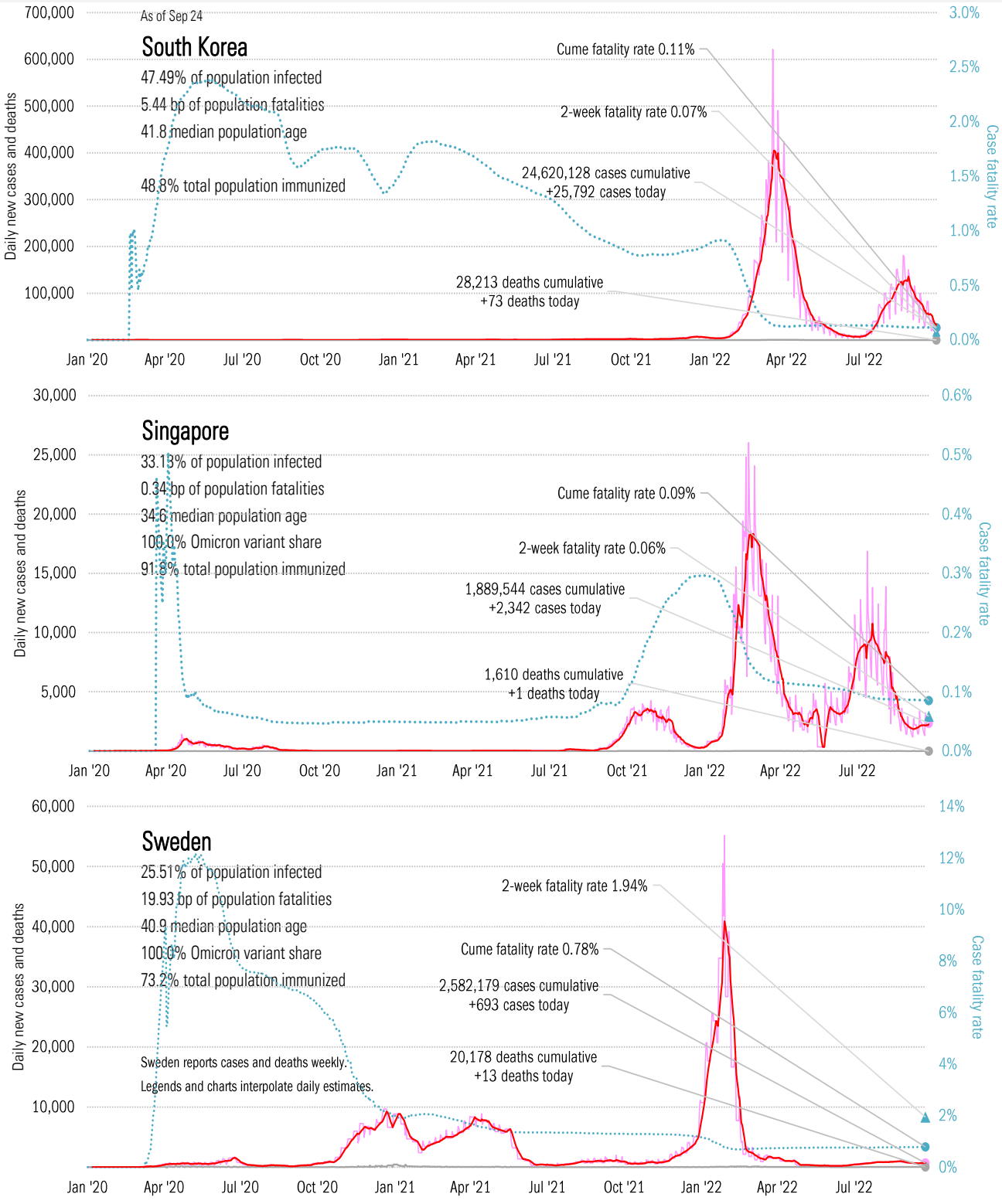
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

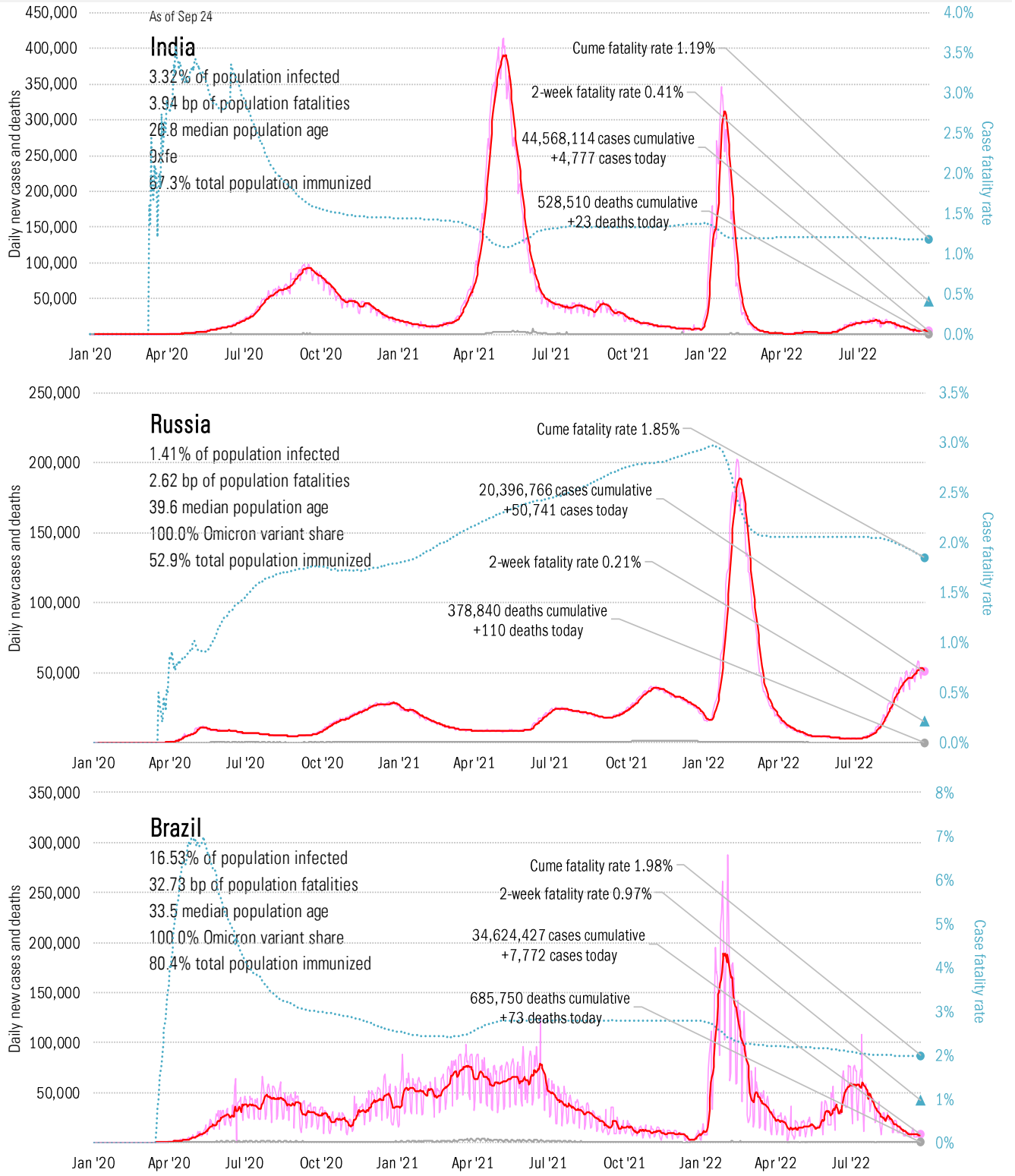
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

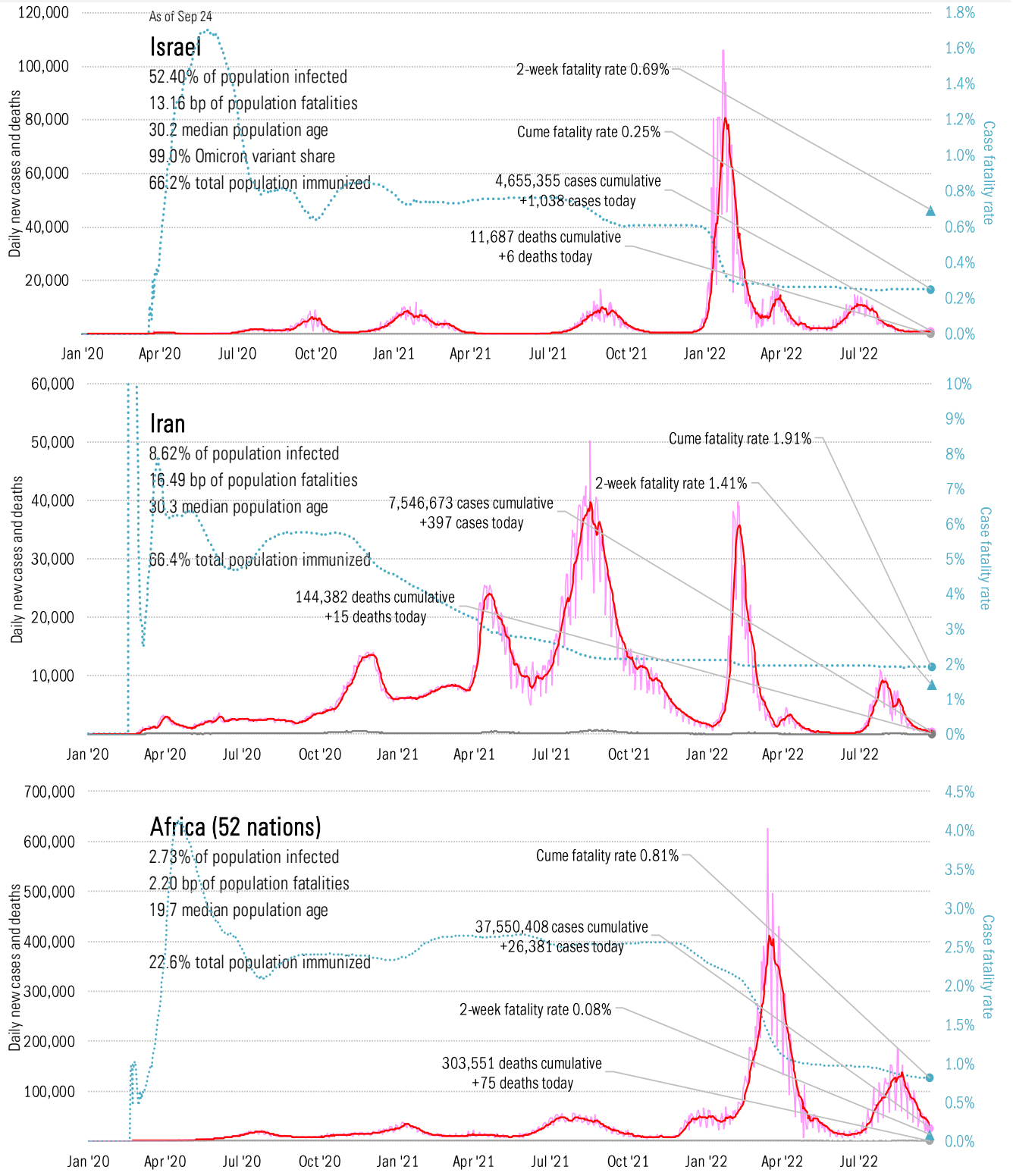
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

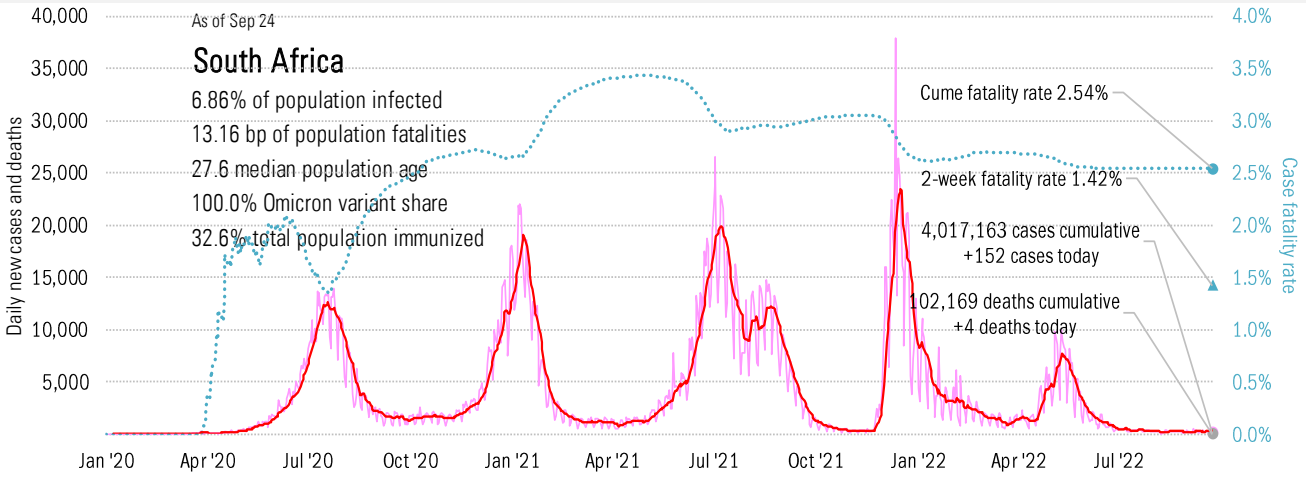
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations