Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

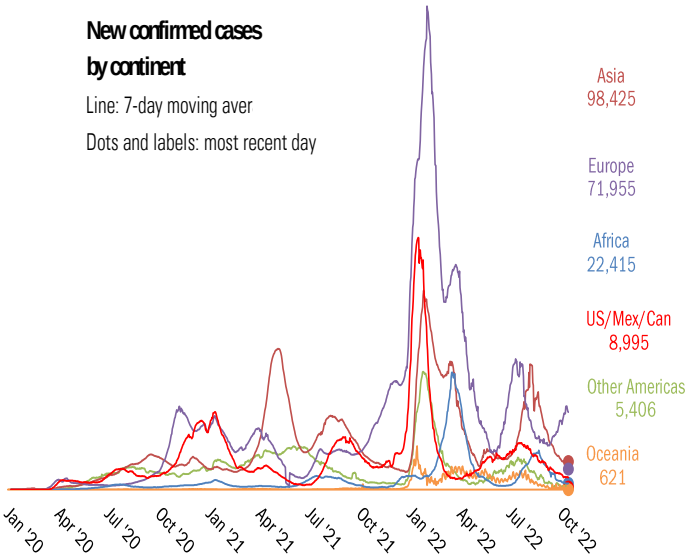
Sunday, October 16, 2022

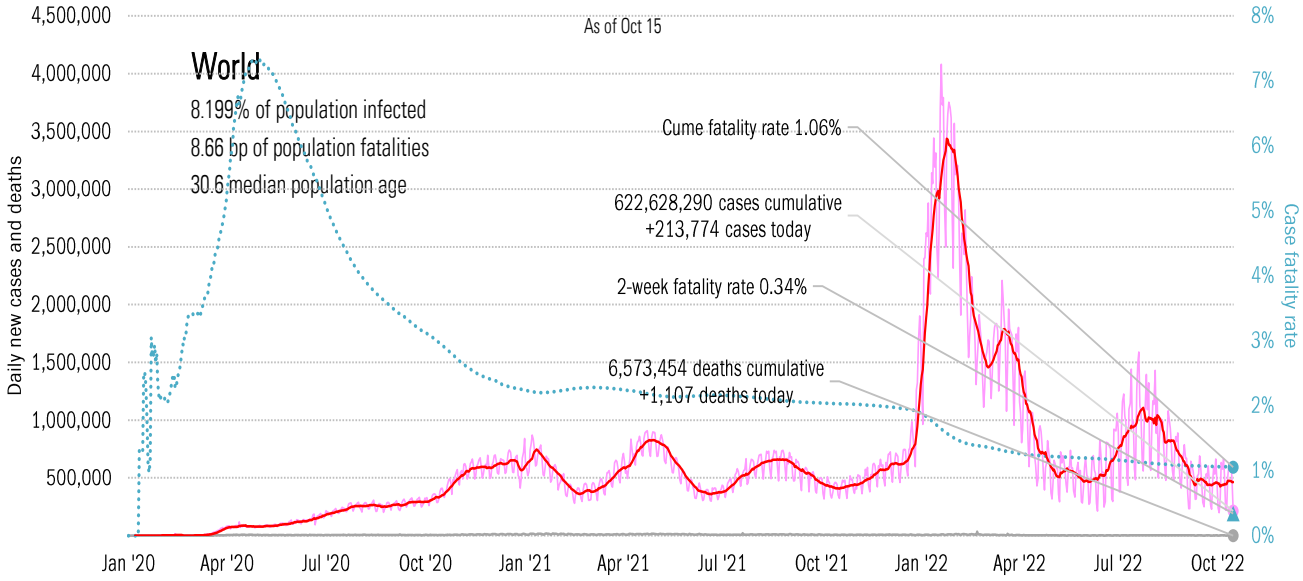
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	46,589	United States	408
Taiwan*	43,448	Russia	96
Italy	38,968	Taiwan*	77
Japan	35,138	Italy	73
Korea, South	21,469	Japan	67
Russia	13,257	Philippines	38
Austria	11,850	Korea, South	32
Singapore	8,037	Poland	31
Chile	4,970	Mexico	23
India	2,401	India	21
	226,127		866
World	213,774	World	1,107
Top ten	106%	Top ten	78%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

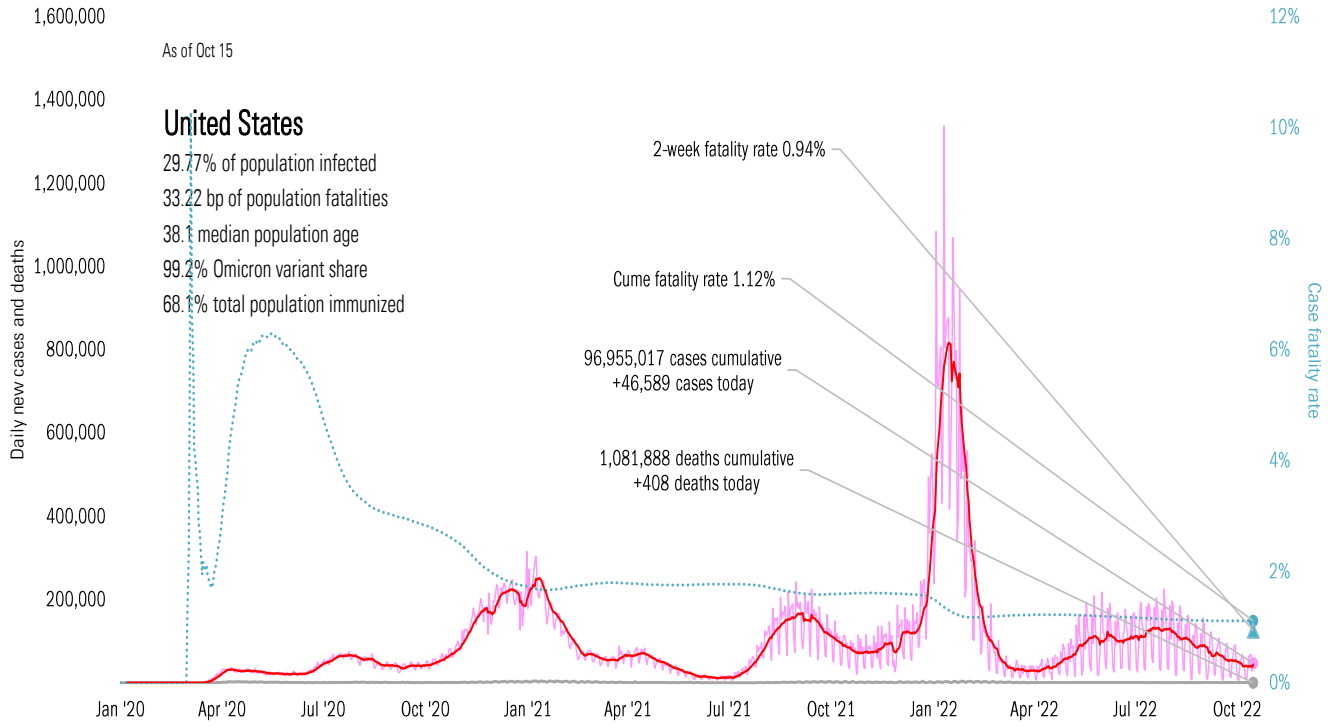
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	3,730	FL	36	GA	99	CA	11,320,843	CA	96,437	TX	548,413	DE	120%	DE	125%
MO	3,326	MO	29	IL	161	TX	8,023,908	TX	91,077	CA	503,876	RI	91%	VT	88%
FL	3,227	MI	22	MI	152	FL	7,179,341	FL	81,975	FL	496,338	MA	89%	RI	86%
CA	2,862	IL	20	IN	63	NY	6,181,213	NY	72,177	NY	304,855	MN	86%	MA	86%
NY	2,529	VA	20	MO	80	IL	3,784,083	PA	47,442	GA	226,772	MO	85%	TX	84%
KY	2,374	WA	20	NY	377	PA	3,280,190	GA	40,448	OH	220,320	WA	84%	AK	83%
NJ	2,009	PA	17	MA	155	NC	3,220,858	OH	40,037	PA	206,412	MD	84%	NC	83%
IL	1,832	DE	15	NH	30	OH	3,162,278	IL	39,843	IL	188,684	DC	84%	NE	82%
OK	1,815	NY	13	OH	147	GA	2,913,382	MI	38,919	MI	164,593	GA	82%	WA	81%
PA	1,803	WV	13	FL	185	MI	2,861,595	NJ	34,822	KY	145,786	MI	82%	DC	81%
	25,507		204		1,449		51,927,691		583,177		3,006,049				
All states	46,589		408		3,390	All states	96,955,017		1,081,888		5,455,052	All states	70%		67%
Top ten	55%		50%		43%	Top ten	54%		55%		55%	Median	77%		74%

Some states not reporting

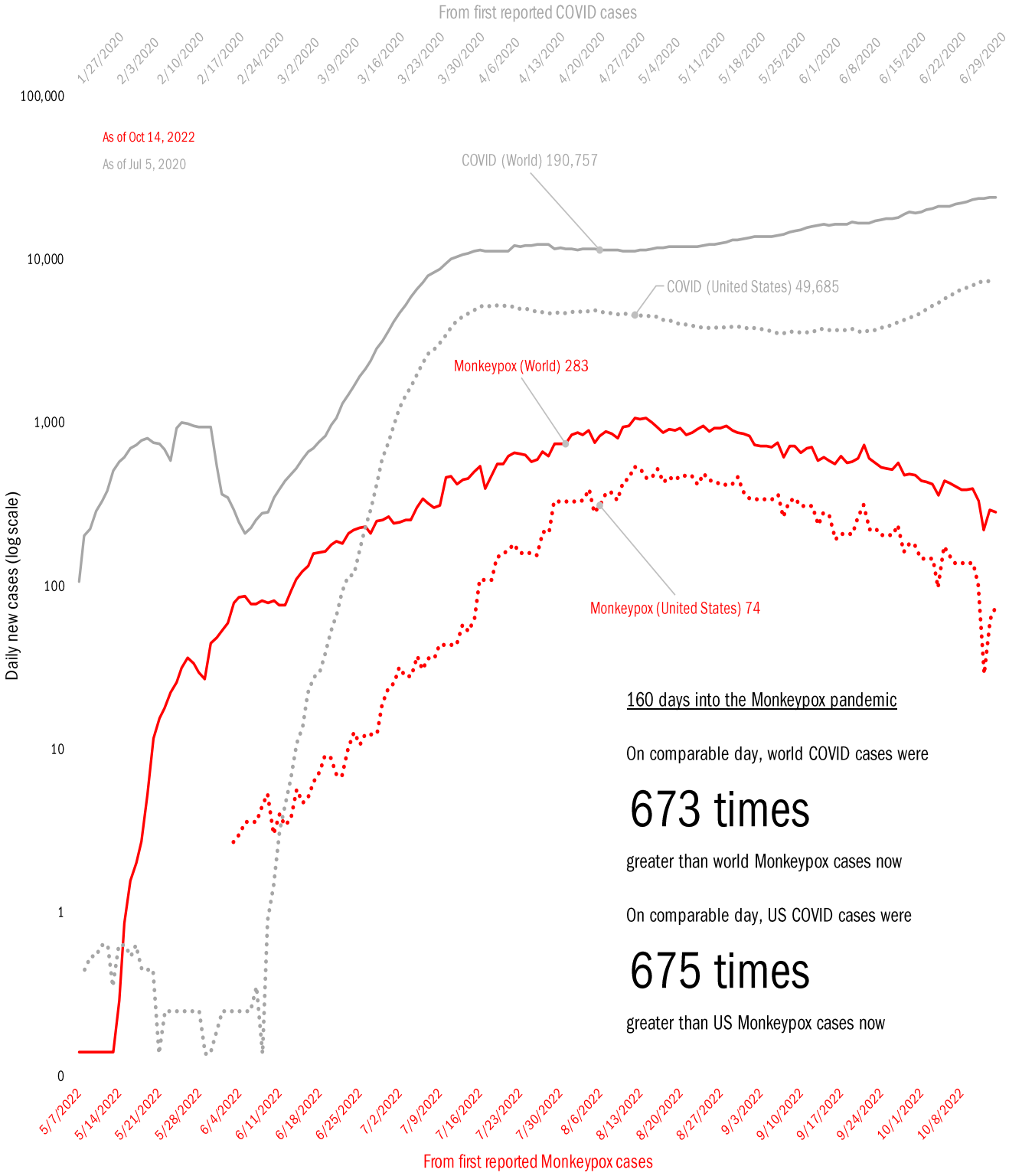
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-771	TX	-30	NY	-49
AL	-431	ME	-2	SC	-35
CT	-296	AK	0	PA	-32
ME	-131	AL	0	MT	-23
AR	-30	AR	0	MA	-19



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

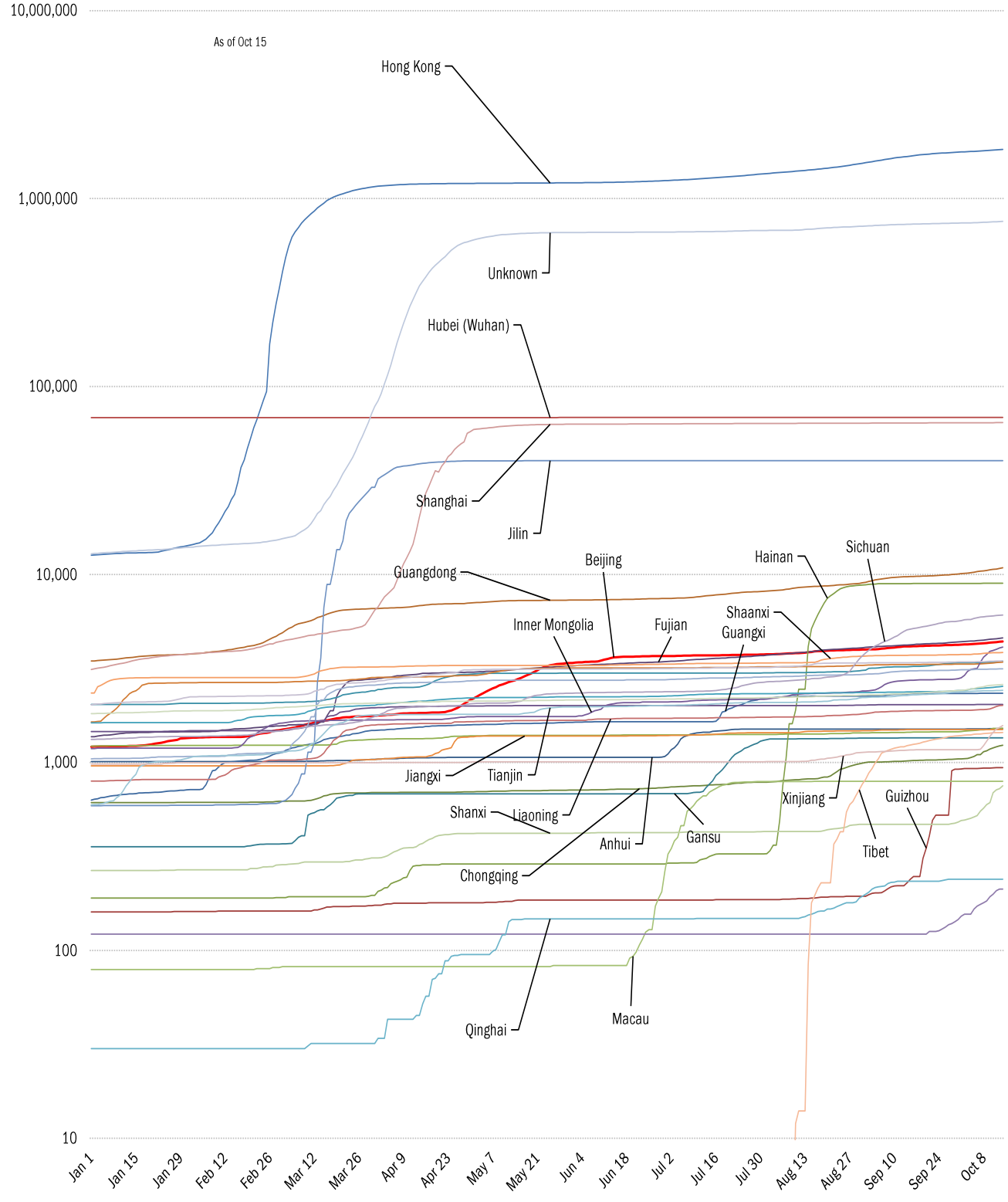
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

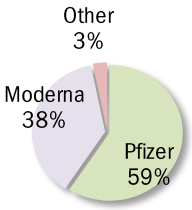
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	643,583,151				+0.536 million
of which boosters	113,097,158				+0.042 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	273,344,554	82%	232,908,646	70%	+0.049 million
Age 12 to 17	18,261,175	72%	15,609,028	62%	+0.002 million
Age 18 to 64	182,139,977	90%	154,856,290	76%	+0.024 million
Age 65 and over	60,207,686	100%	52,698,897	96%	+0.016 million

Immunity	Full	Partial
US	68.1%	79.9%
UK	75.4%	80.0%
France	78.7%	81.0%
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	82.8%	87.8%
Japan	82.6%	83.7%
Africa	24.1%	30.1%
India	67.4%	72.9%
Brazil	80.4%	87.4%
China	89.2%	91.4%

Global data differs due to sources, timing



State
At least partial immunity as % population
Full immunity as % population
"Immunity" = two doses

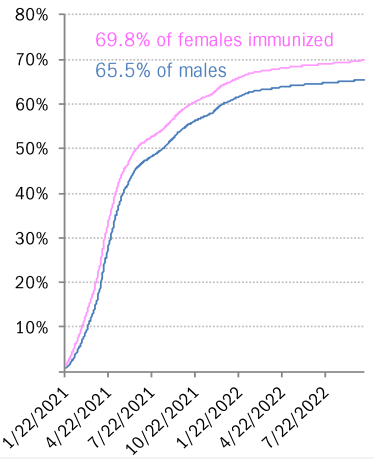
Best
Middle
Worst

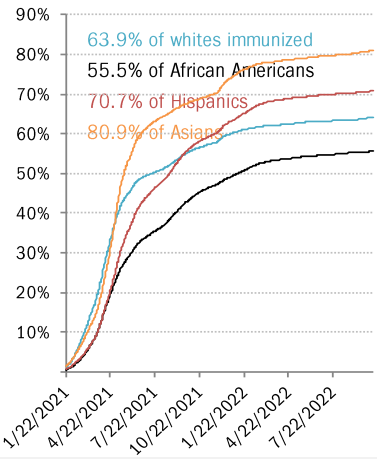
As of Oct 14

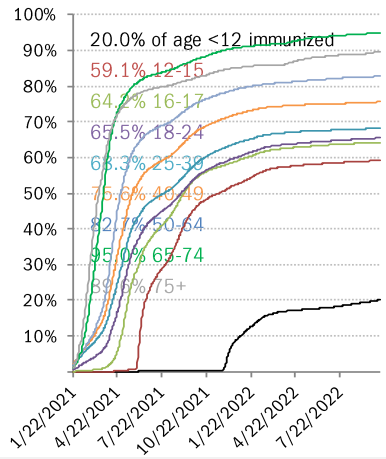
					WI					ME
					73.8%					94.3%
					67.2%					81.9%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
83.6%	62.9%	67.0%	67.8%	77.4%	78.0%	68.6%		92.7%	95.0%	84.7%
74.7%	55.6%	58.3%	57.3%	70.9%	70.3%	61.5%		79.3%	83.7%	69.6%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.0%	77.5%	59.7%	80.5%	69.6%	63.5%	64.8%	88.2%	93.1%	95.0%	
71.2%	62.5%	52.2%	64.4%	63.4%	57.1%	59.7%	71.3%	77.8%	82.0%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.0%	74.1%	82.1%	72.2%	68.1%	67.8%	66.6%	88.7%	89.8%	95.0%	95.0%
74.1%	65.8%	72.3%	65.2%	57.9%	58.8%	59.0%	75.3%	78.2%	81.5%	85.9%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.2%	91.5%	74.8%	68.7%	63.7%	88.9%	69.8%	95.0%	86.2%	
	63.7%	73.5%	64.0%	56.0%	55.7%	64.8%	58.9%	81.7%	71.7%	
			OK	LA	MS	AL	GA			
			73.3%	62.3%	61.1%	64.2%	67.3%			
			59.3%	54.6%	53.2%	52.4%	56.4%			
HI			TX					FL		PR
90.1%			74.9%					81.3%		95.0%
80.4%			62.4%					68.6%		85.7%

AK
71.9%
64.4%

The demographics of US vaccination

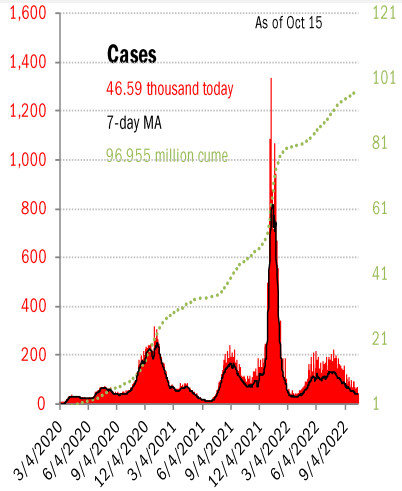


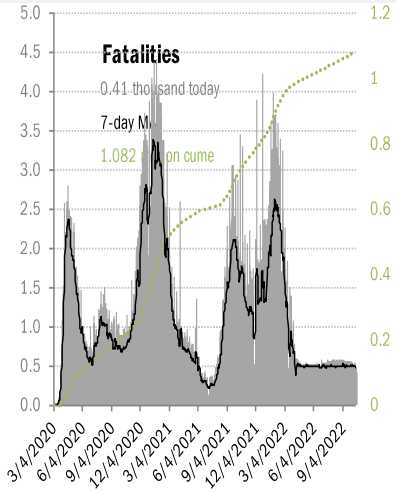


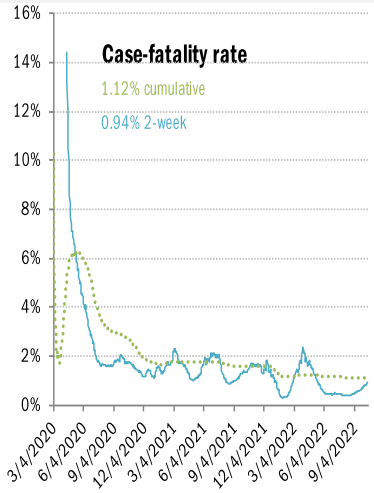


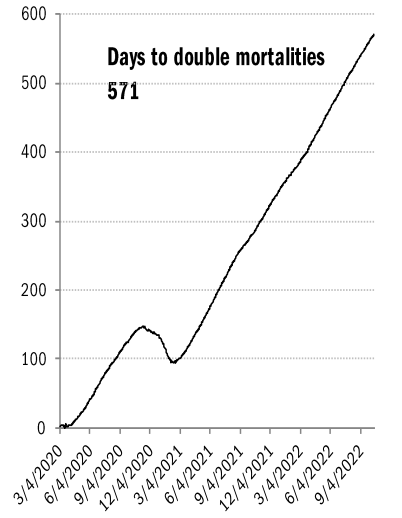
Source: CDC, CDC, Our World in Data, TrendMacro calculations

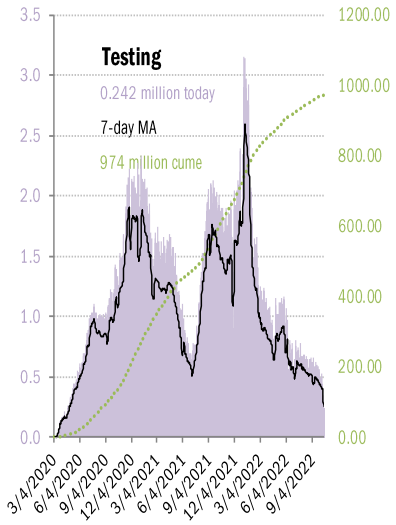
US deep-dive

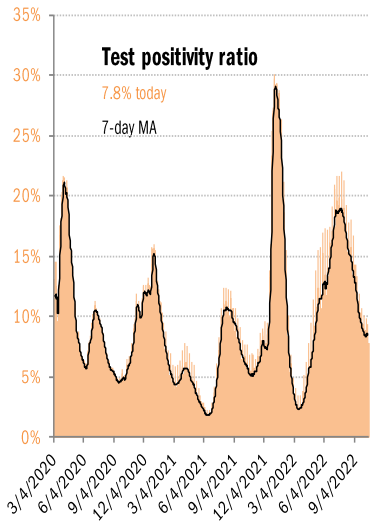


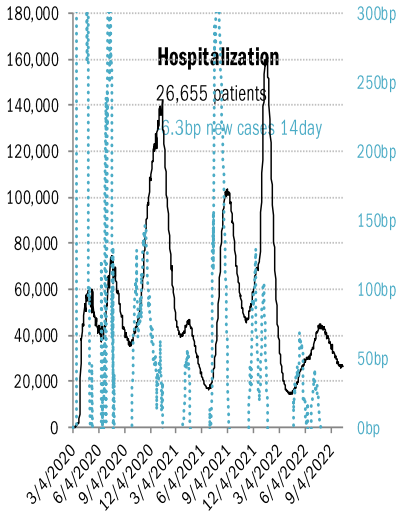


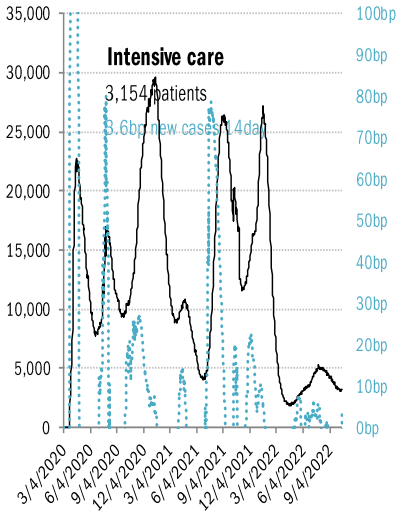


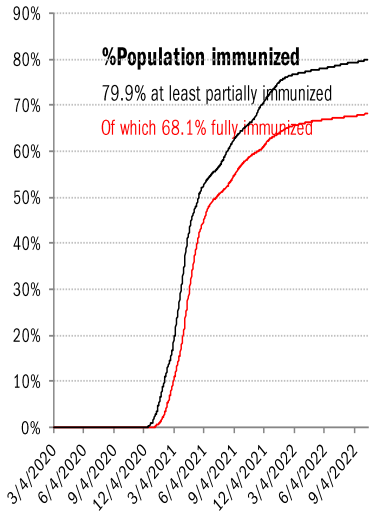












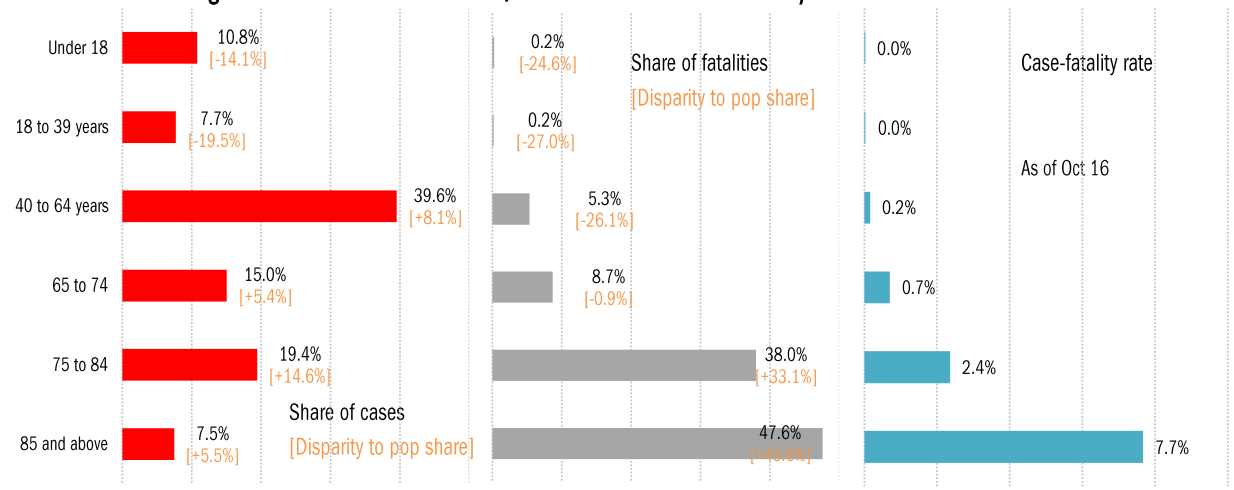
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

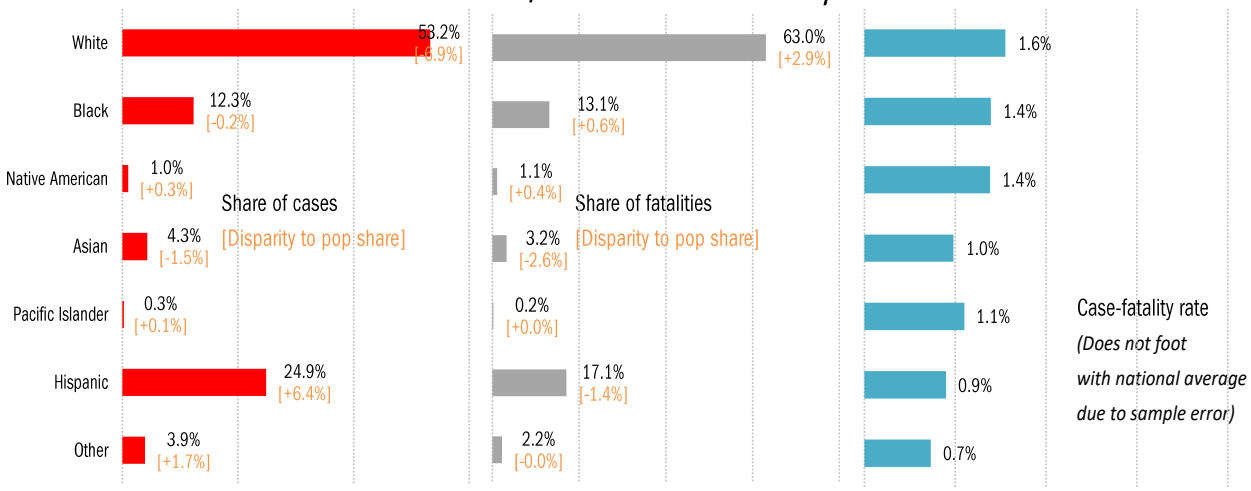
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



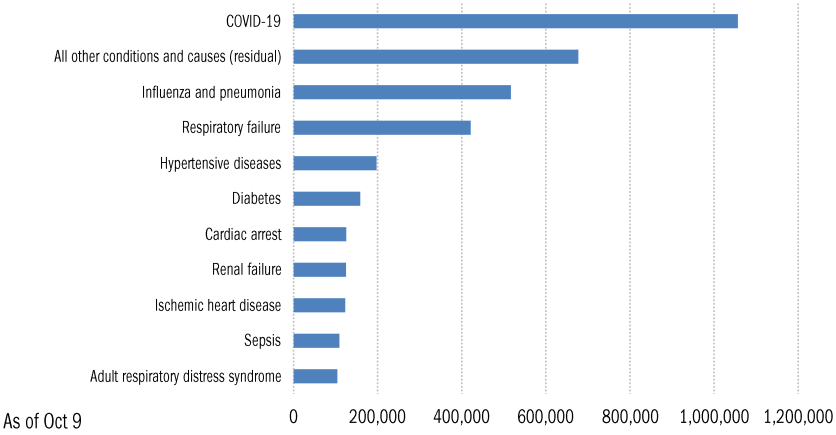
Racial distribution of US cases, fatalities and case-fatality rates

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

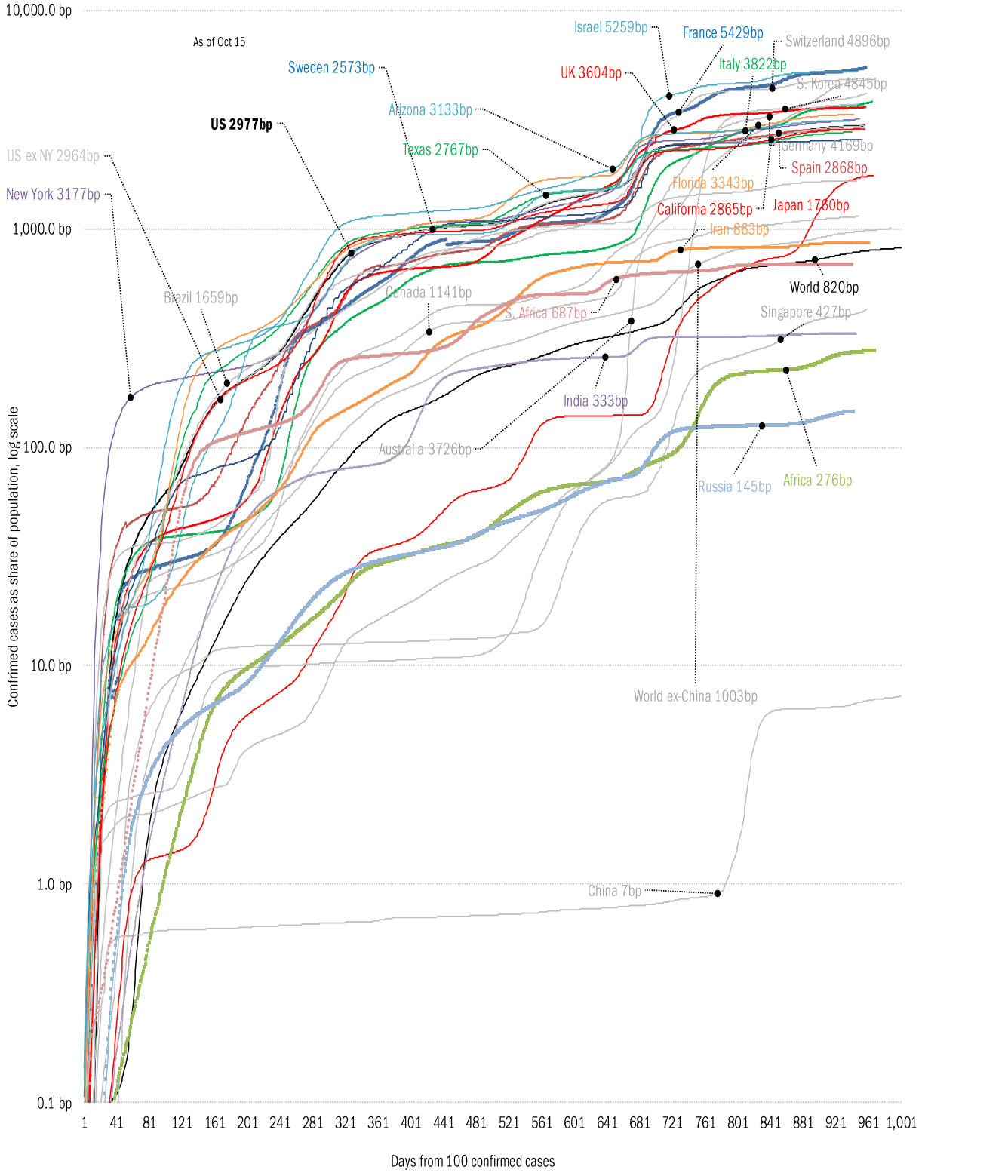
What the data tells us
Steve Kirsch
Vaccine Safety Research Foundation
October 15, 2022

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

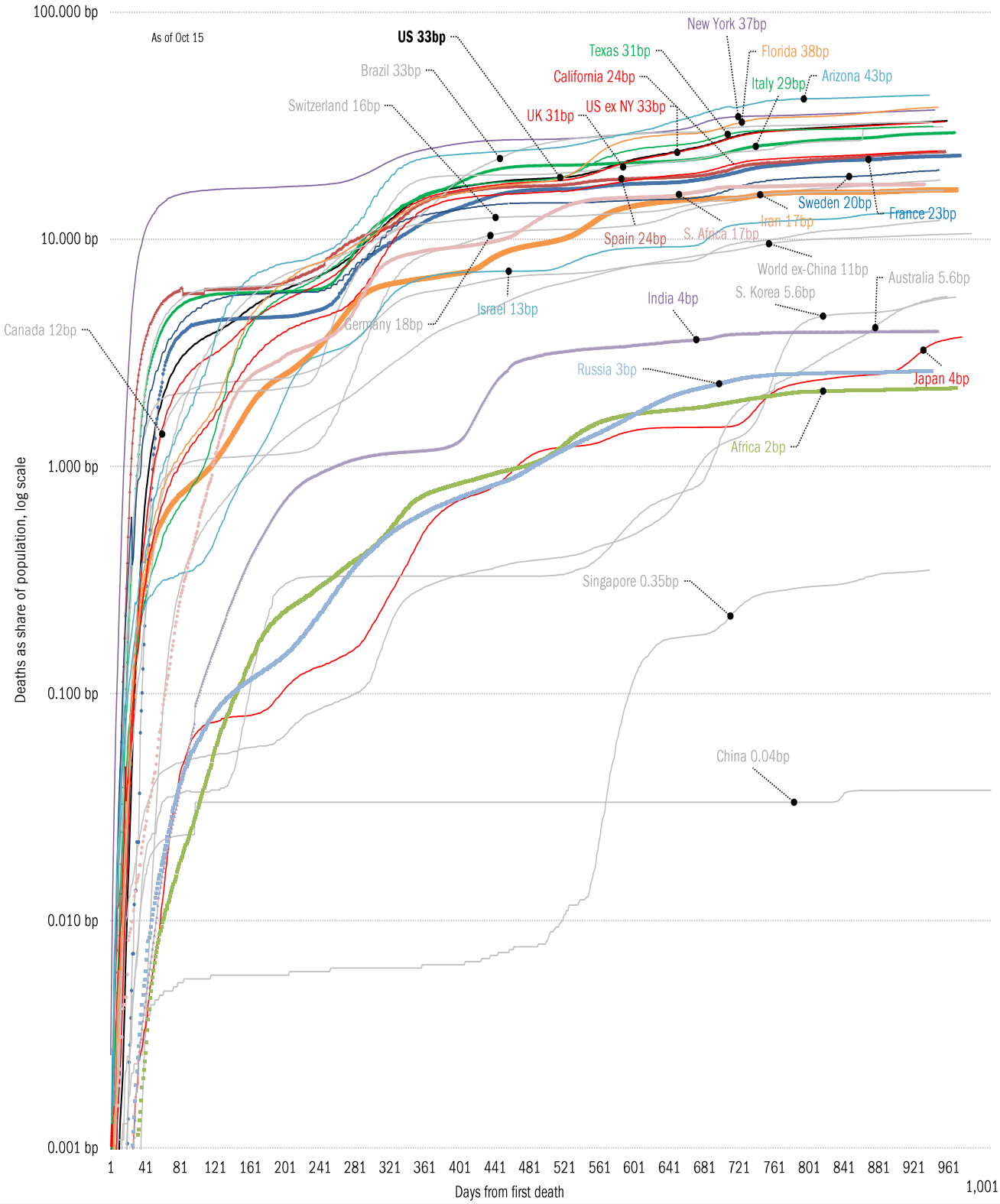
Share of infected population from first day with 100 confirmed cases, log scale



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

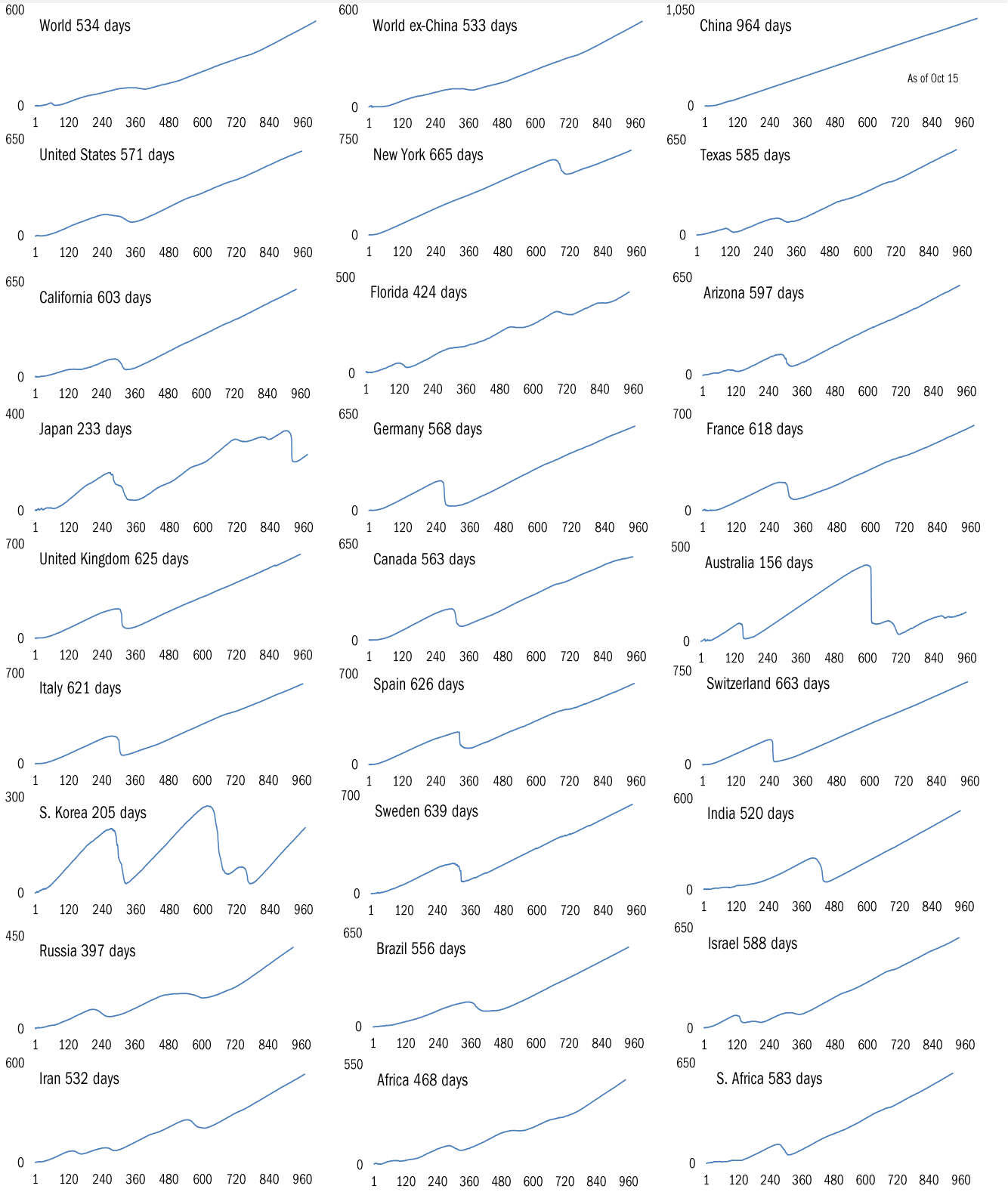


Source: Johns Hopkins, TrendMacro calculations

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

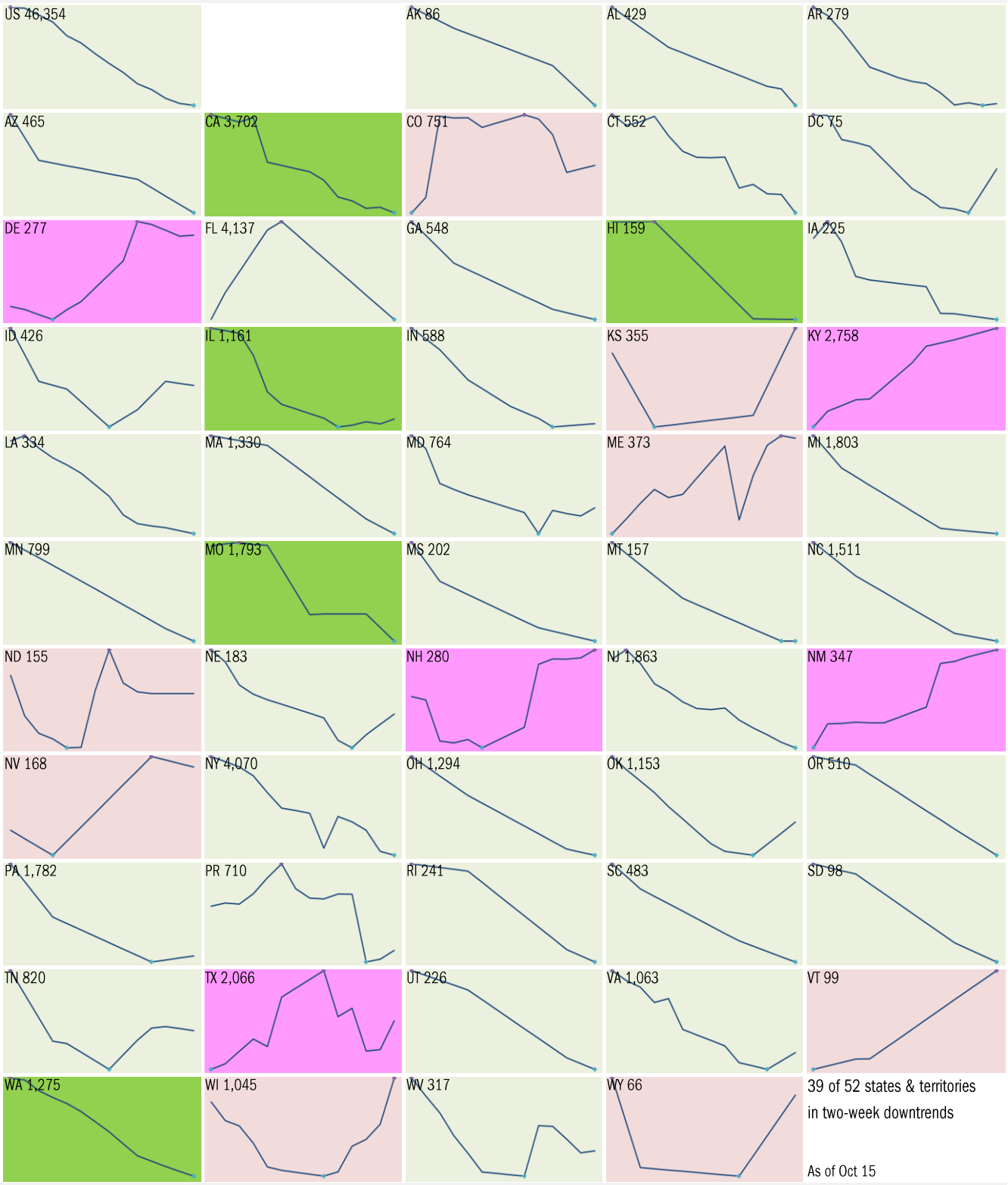


Source: Johns Hopkins, TrendMacro calculations

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

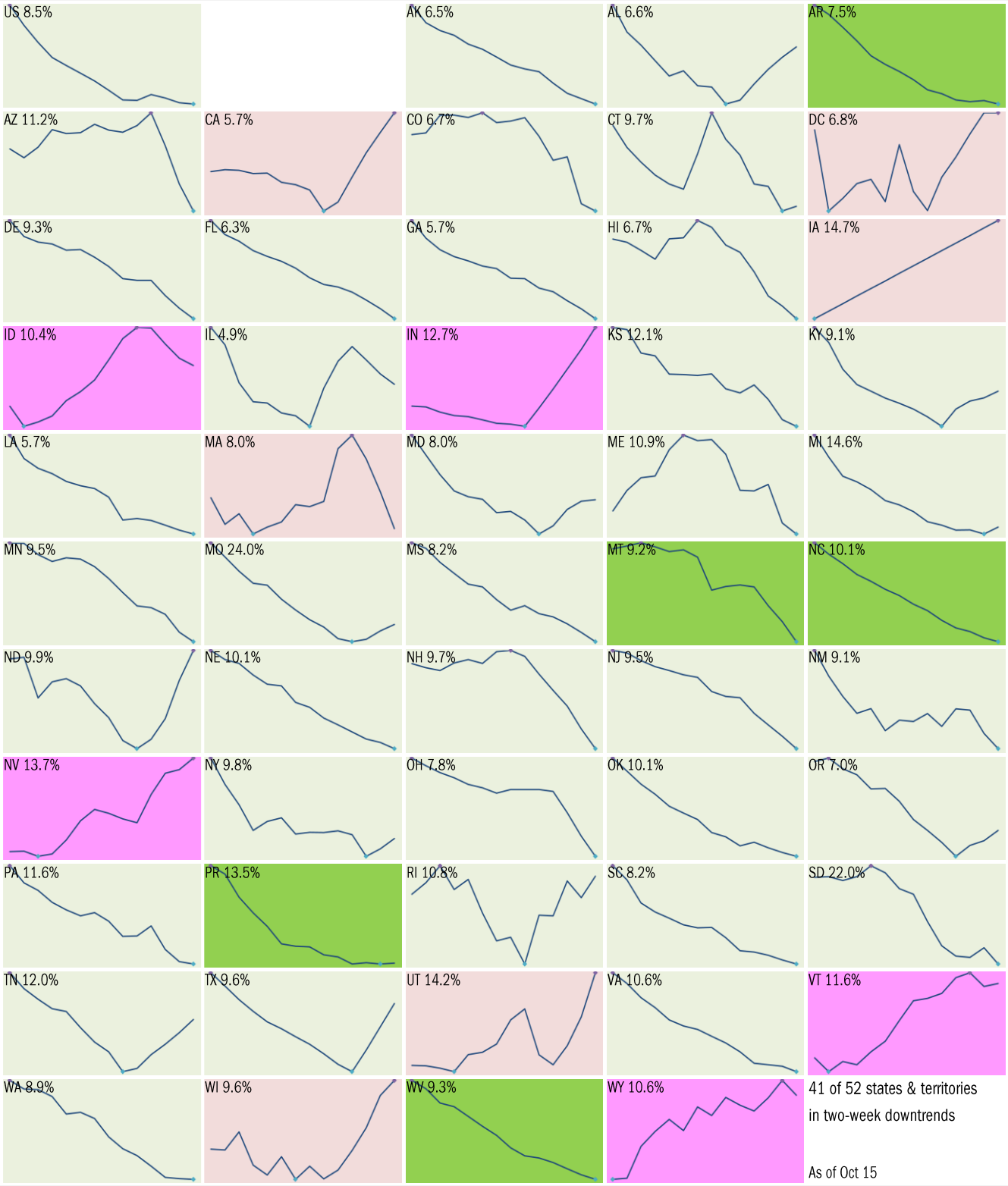


Source: Johns Hopkins, TrendMacro calculations

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

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

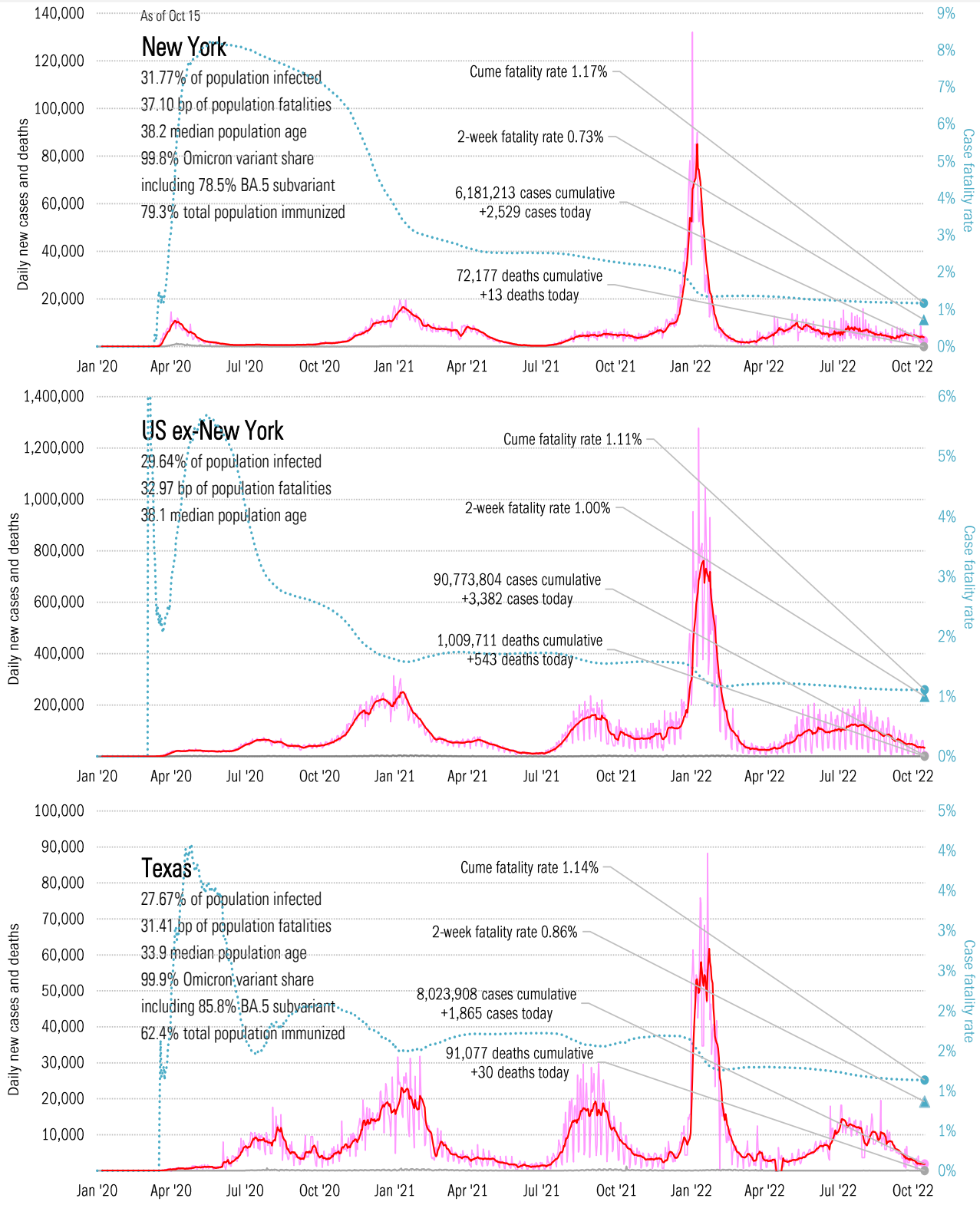
Downward trajectory | Five best | Upward trajectory | Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

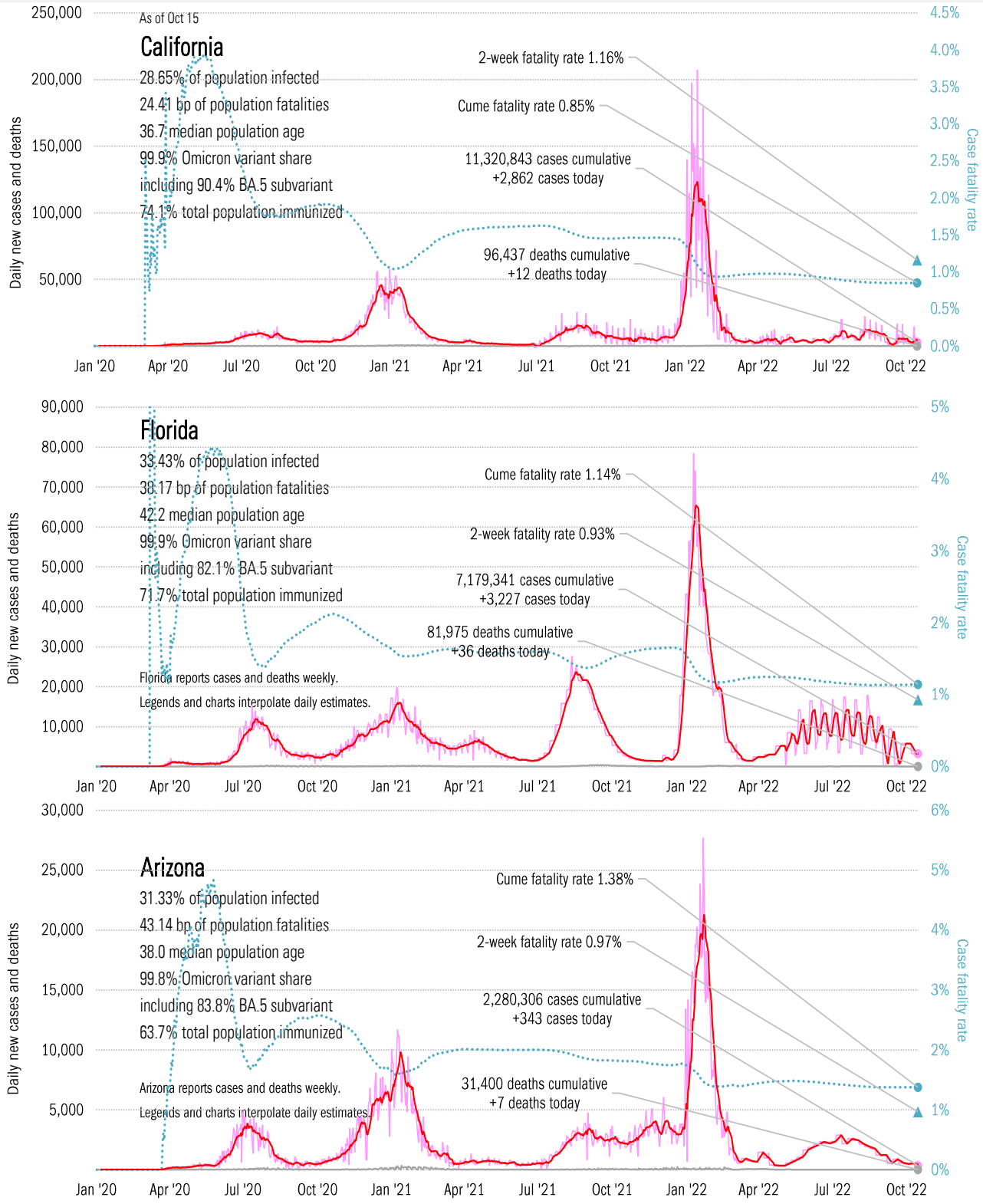
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

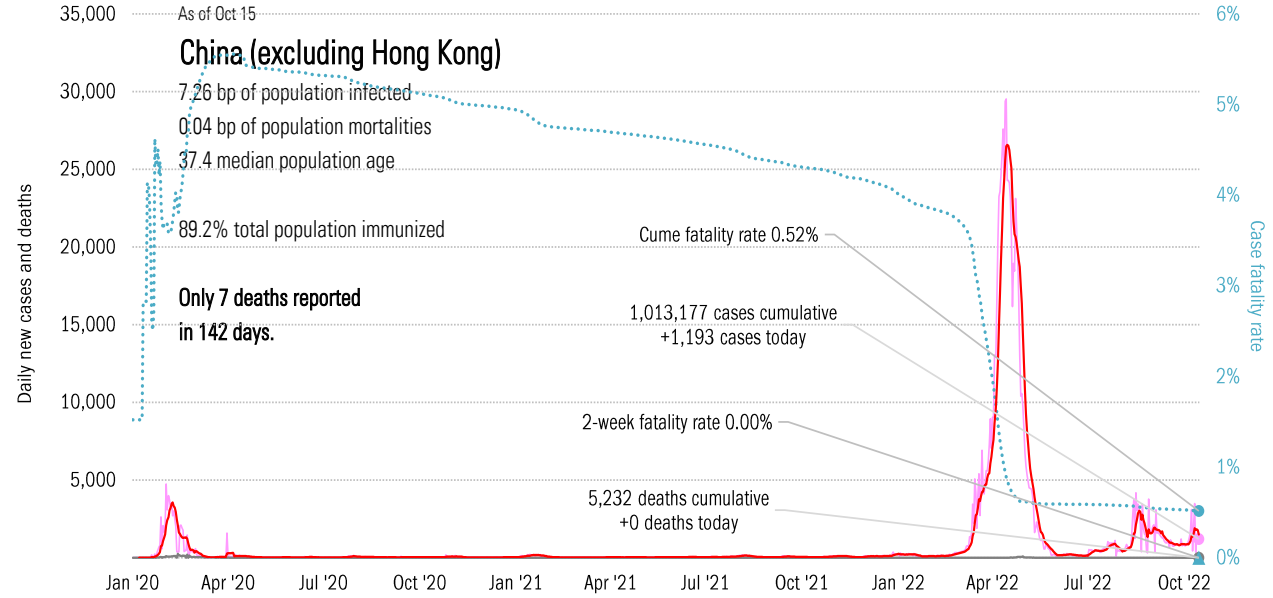
Cases: 7-day average and daily Deaths: Daily

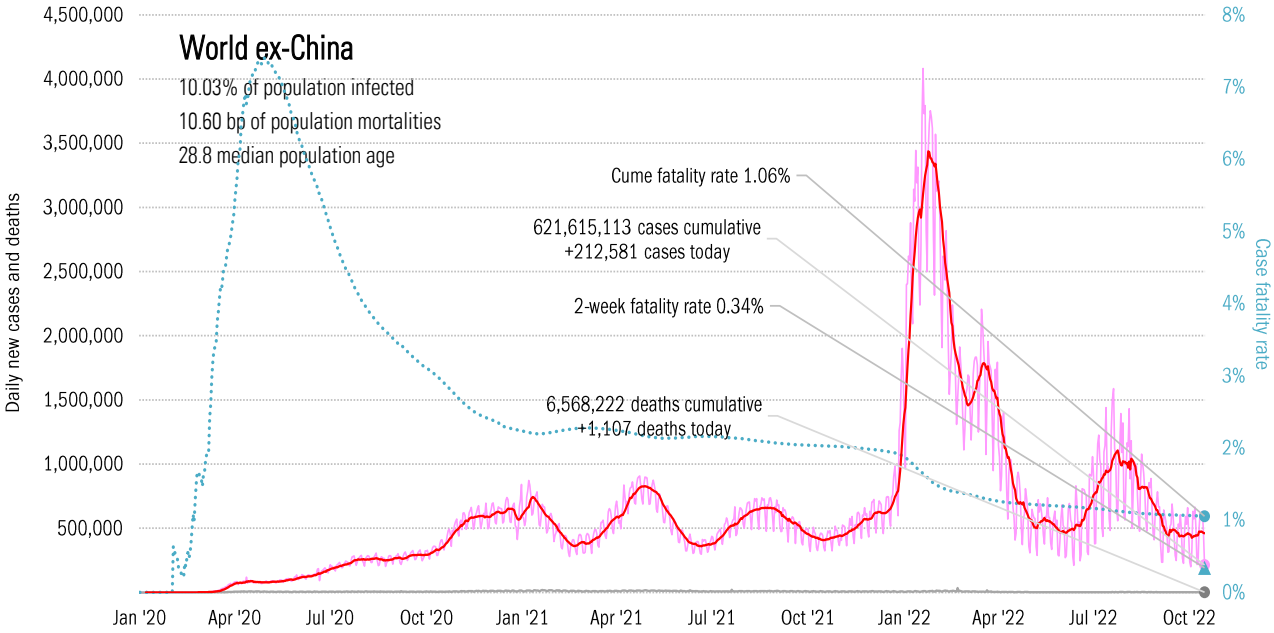


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

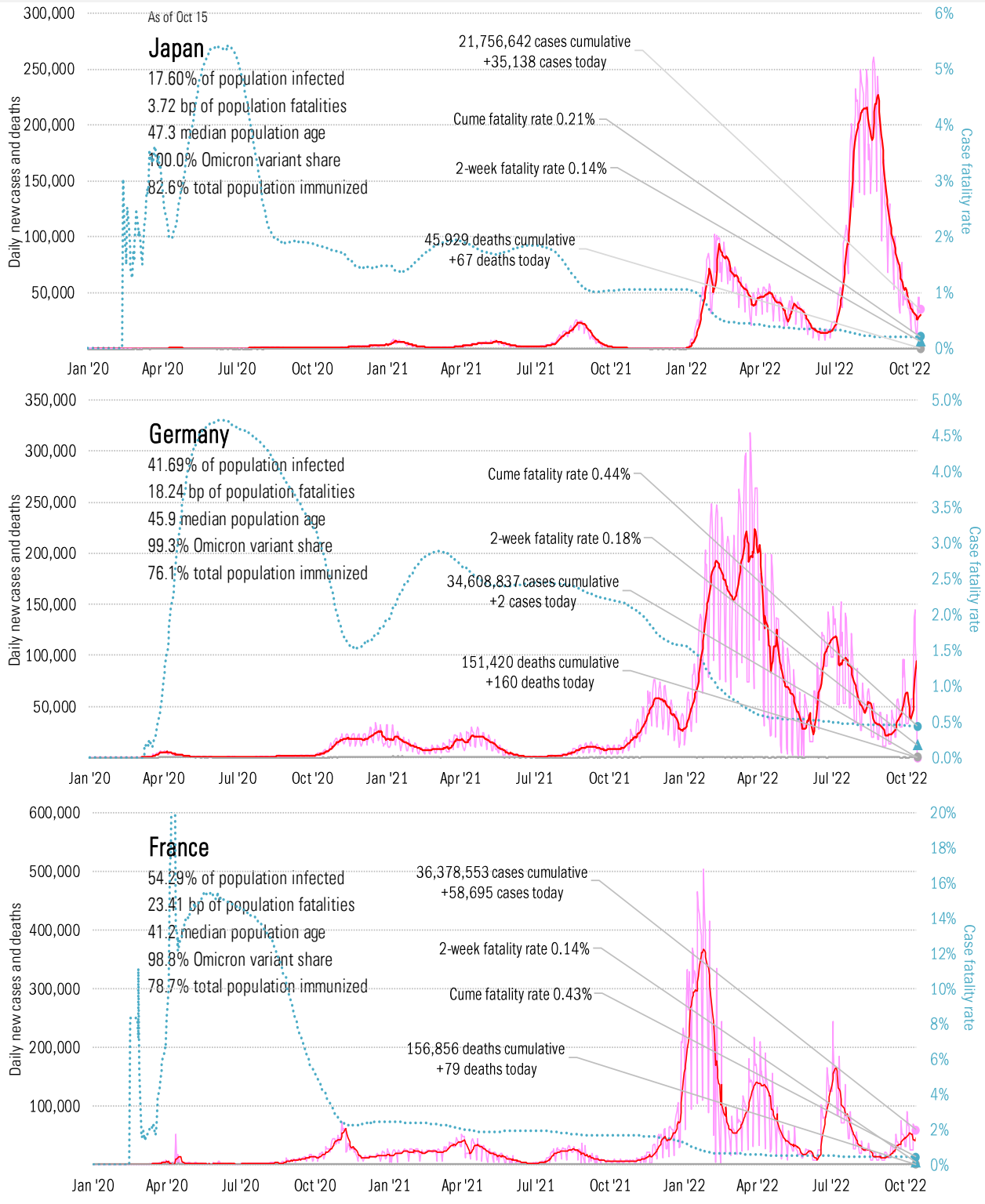




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

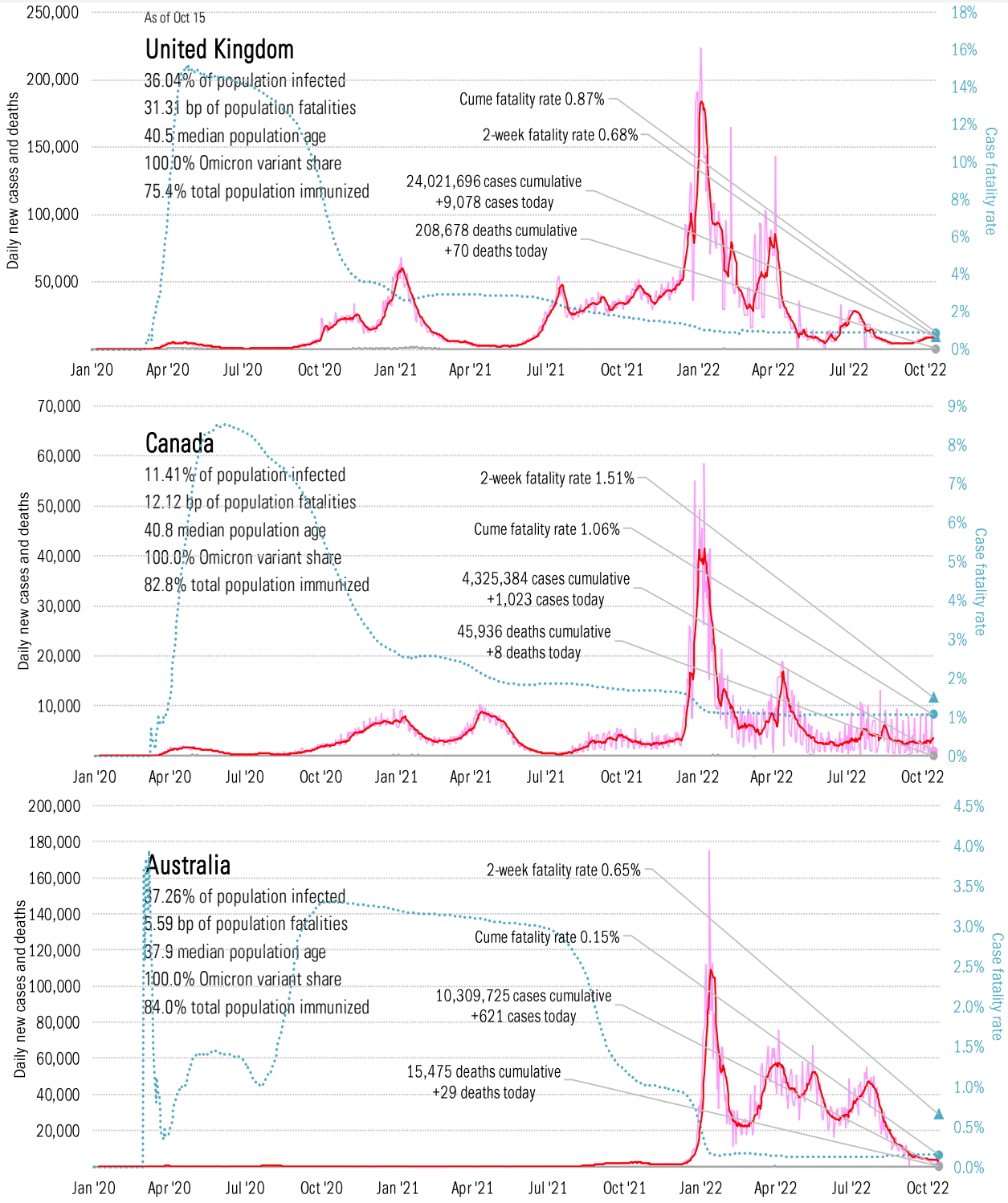
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

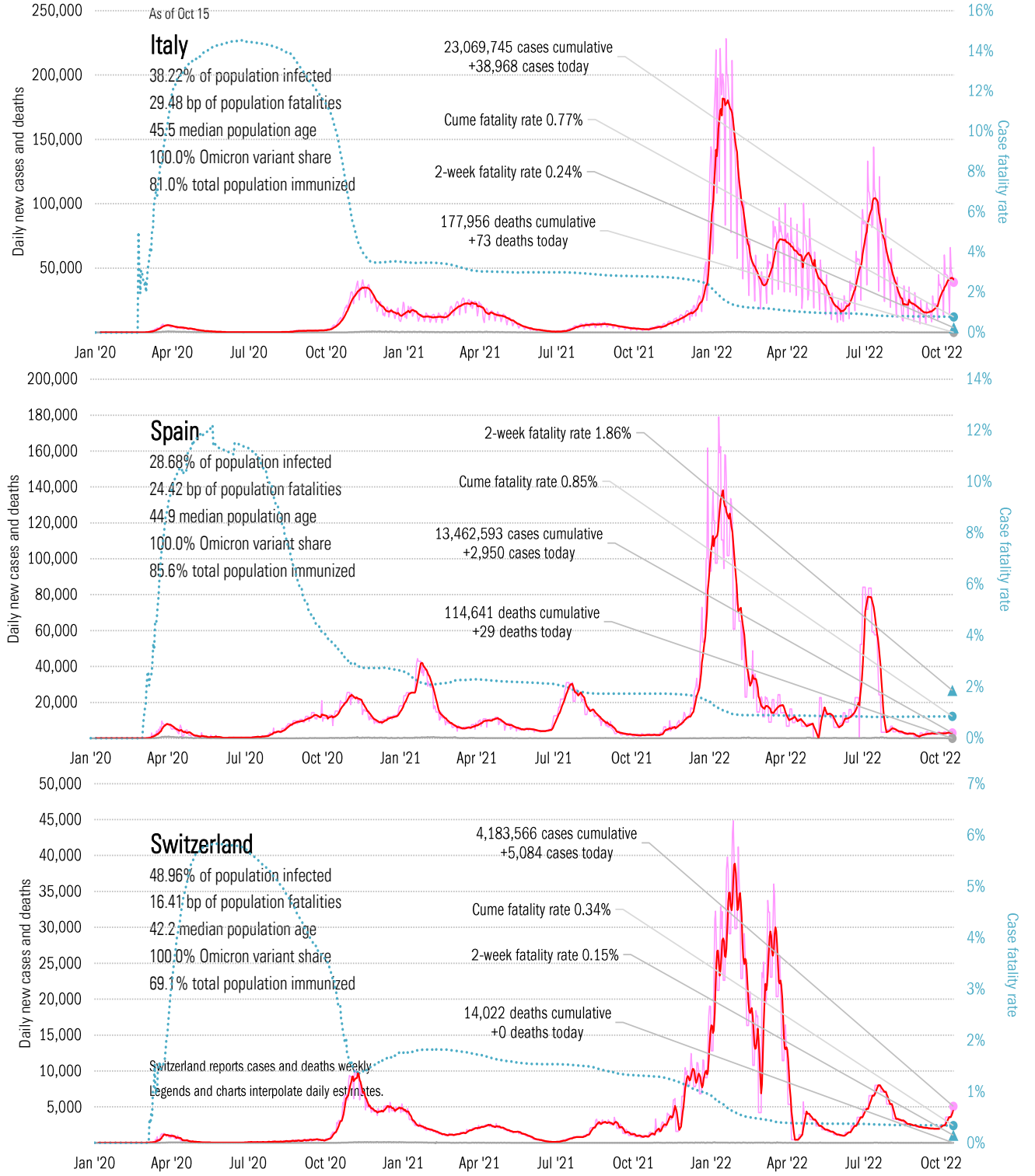
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

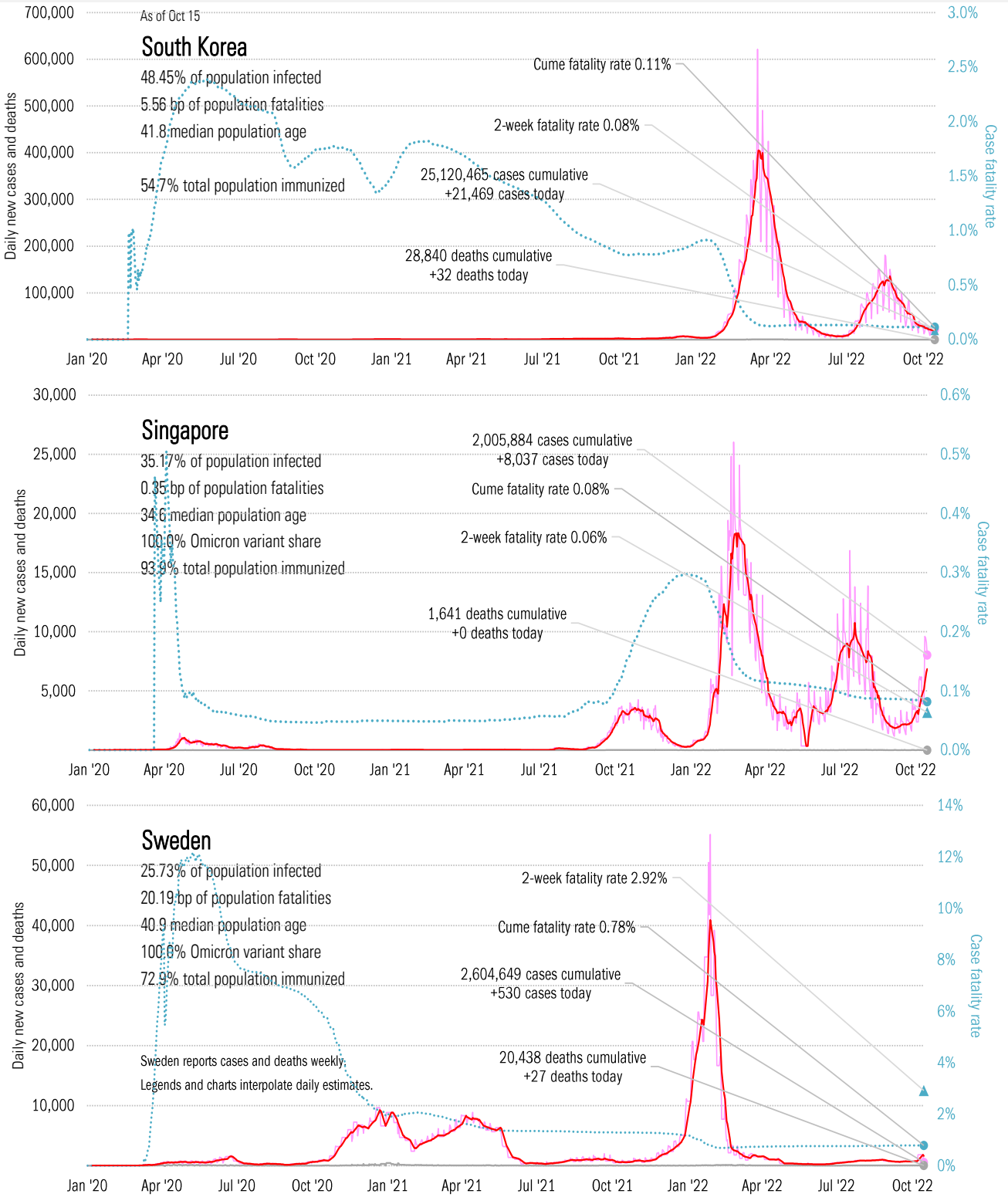
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

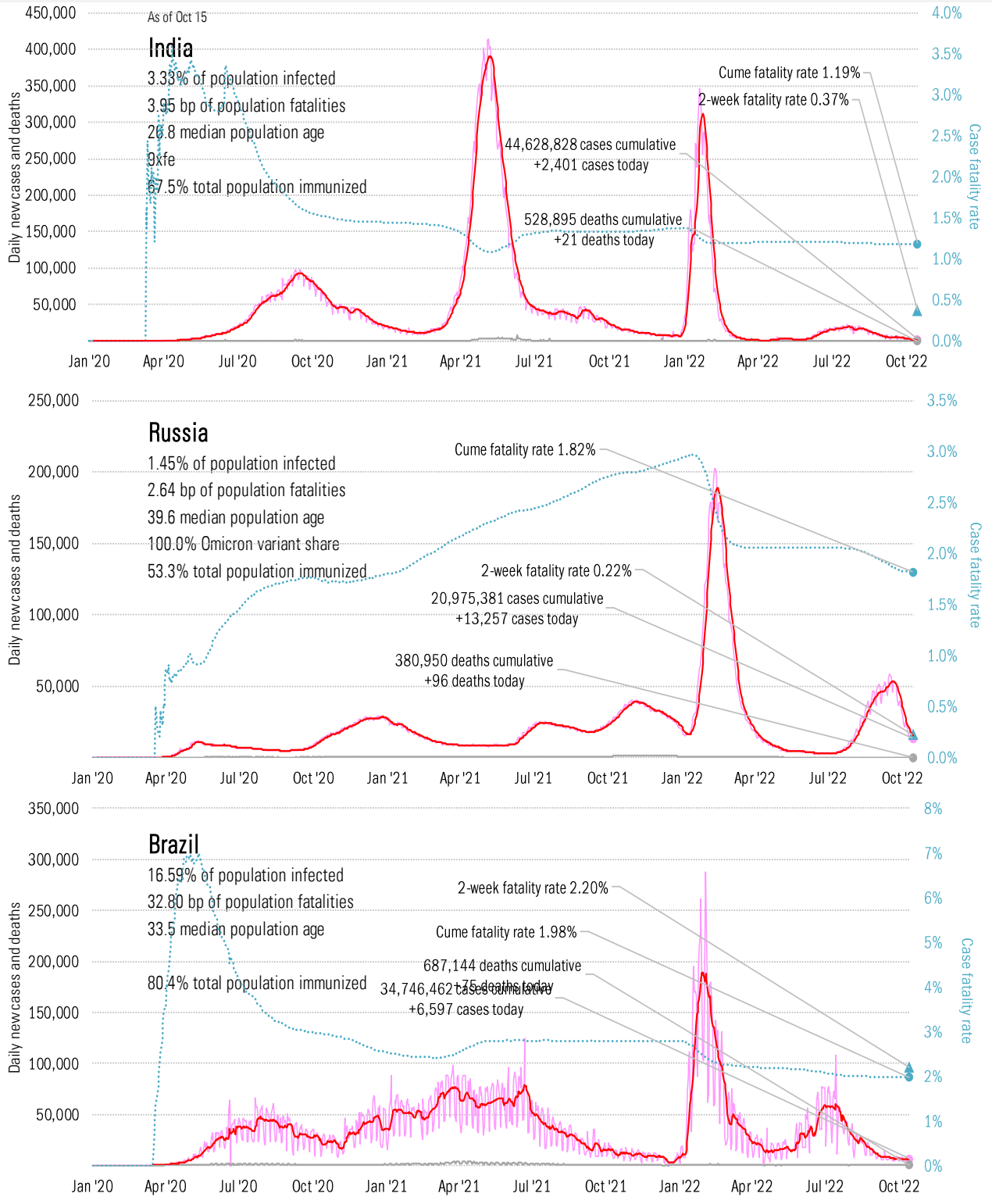
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

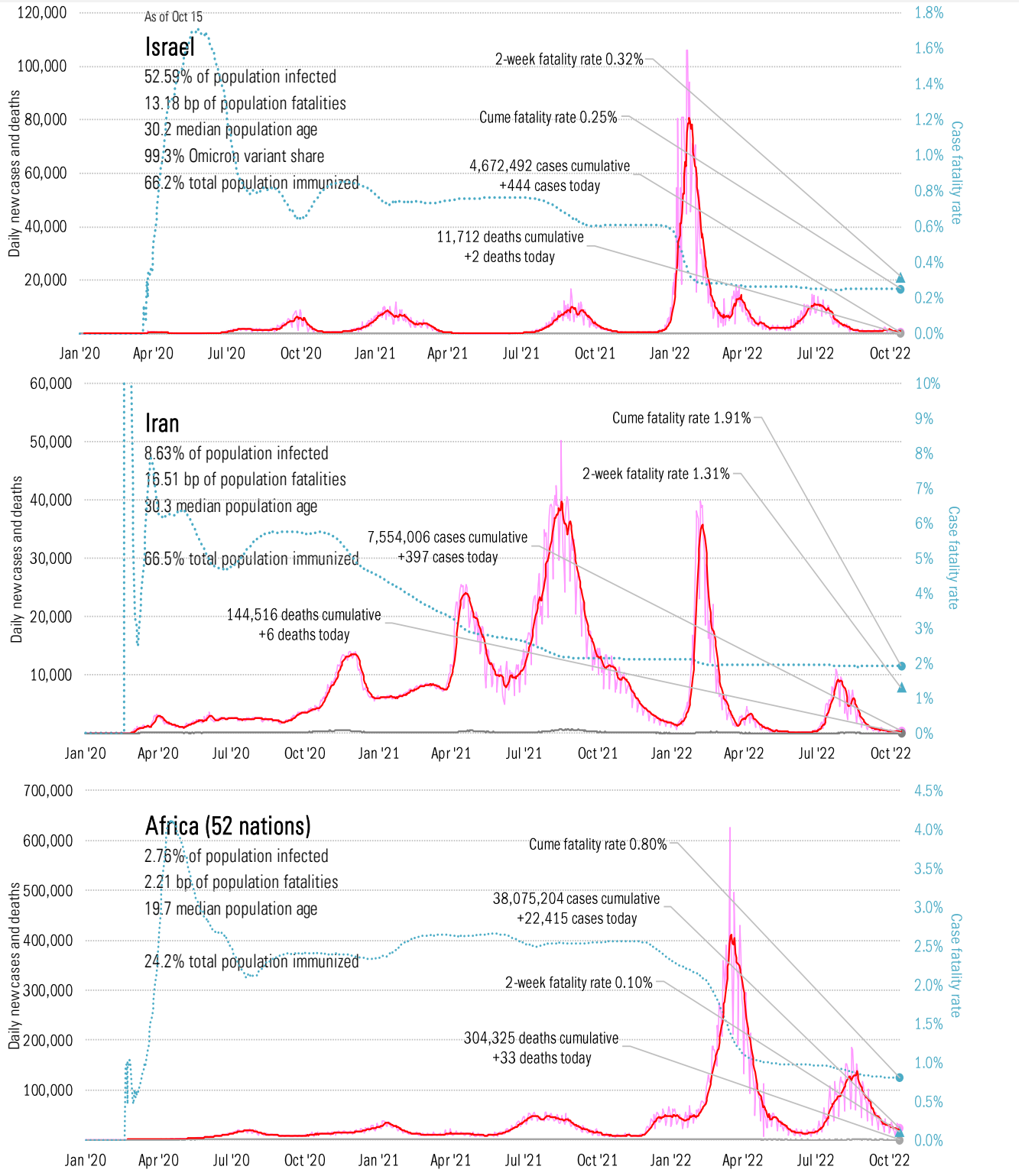
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

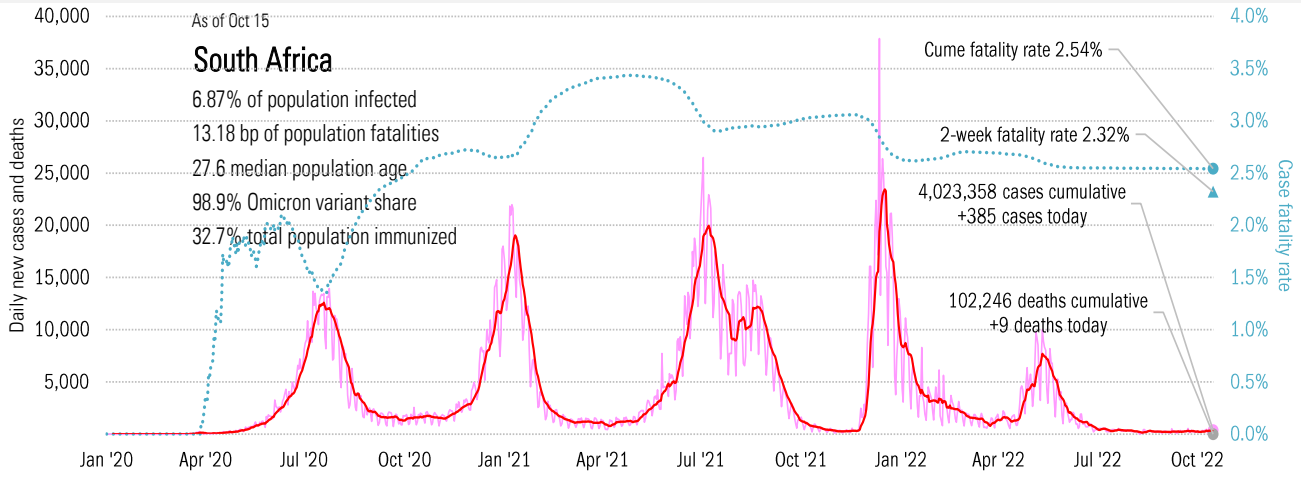
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations