Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

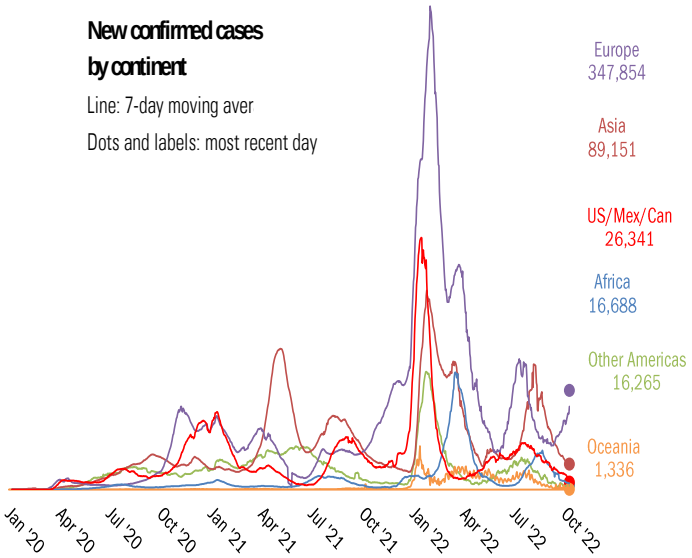
Tuesday, October 11, 2022

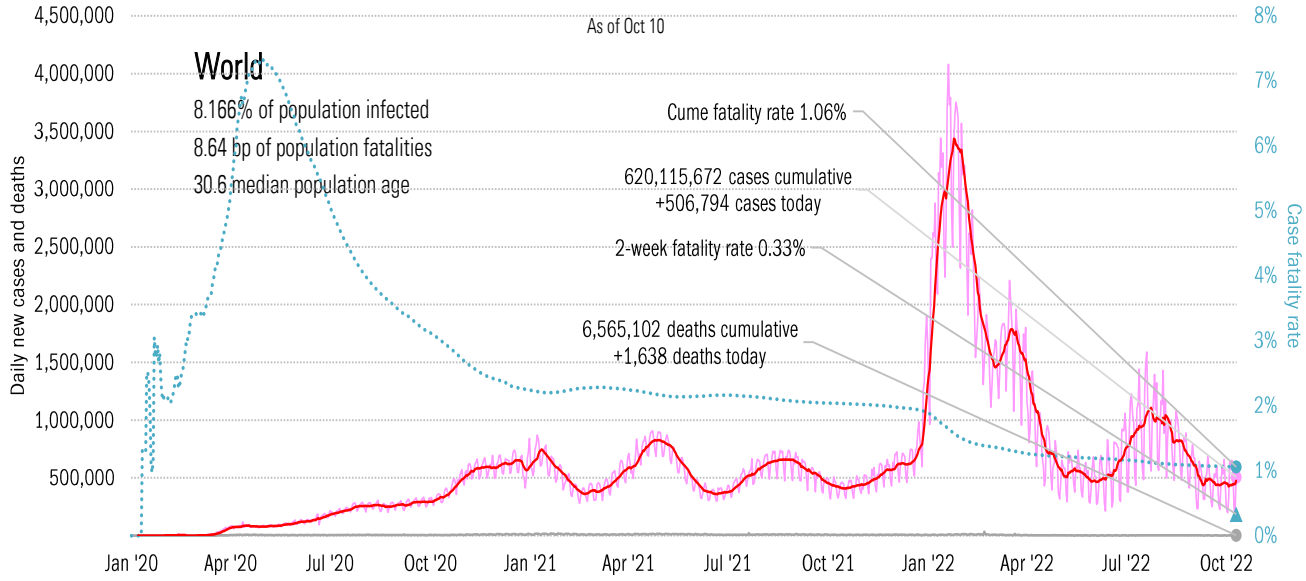
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	172,536	United States	551
France	109,269	Germany	185
United States	42,880	Brazil	171
Taiwan*	32,072	France	113
Turkey	23,116	Russia	95
Brazil	16,956	Thailand	58
Russia	15,501	Taiwan*	57
Korea, South	15,476	Italy	51
Italy	15,089	Japan	50
Japan	13,038	Czechia	41
	455,933		1,372





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

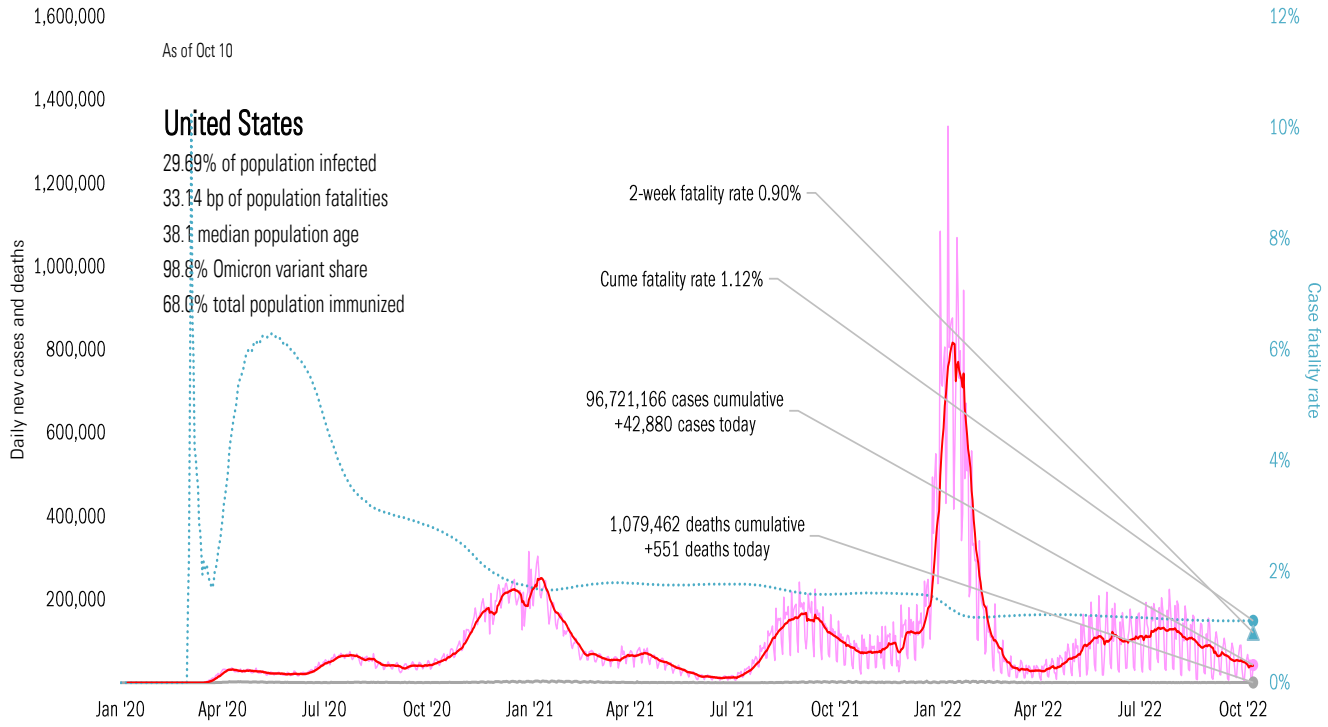
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	7,388	CA	84	CT	85	CA	11,296,781	CA	96,217	TX	547,580	RI	91%	RI	87%
KY	3,951	TN	54	MN	73	TX	8,014,961	TX	91,047	CA	502,469	MA	88%	TX	87%
FL	3,227	NC	47	PA	199	FL	7,169,659	FL	81,785	FL	495,345	MN	85%	MA	87%
IL	1,922	IN	40	AR	33	NY	6,157,936	NY	71,986	NY	302,820	GA	84%	AK	87%
NY	1,849	NY	32	AL	49	IL	3,773,667	PA	47,323	GA	226,411	WA	84%	AL	83%
MI	1,840	TX	30	WI	70	PA	3,267,569	GA	40,374	OH	219,541	DE	83%	NC	83%
NC	1,710	FL	30	CA	283	NC	3,210,837	OH	39,950	PA	205,516	WV	82%	ND	81%
TX	1,498	MI	20	WA	60	OH	3,153,743	IL	39,777	IL	187,923	MO	82%	NH	80%
OH	1,428	AR	20	IA	28	GA	2,909,760	MI	38,767	MI	163,829	AK	81%	DC	79%
MA	1,420	IL	17	ME	25	MI	2,849,047	NJ	34,792	KY	145,534	DC	81%	WA	79%
	26,234		374		905		51,803,960		582,018		2,996,968				
All states	42,880		551		3,017	All states	96,721,166		1,079,462		5,438,623	All states	70%		67%
Top ten	61%		68%		30%	Top ten	54%		55%		55%	Median	75%		73%

Some states not reporting

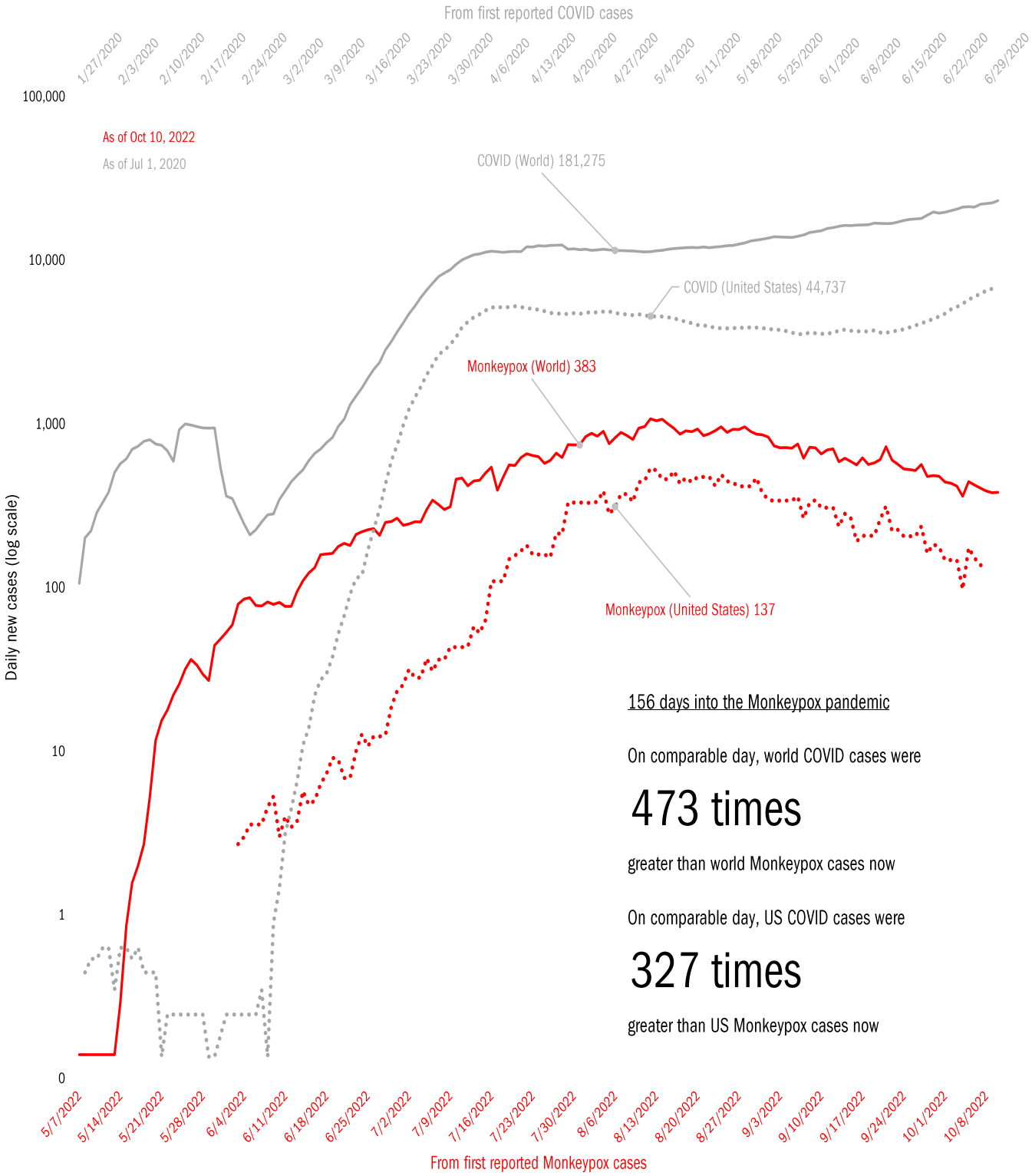
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MO	-3,329	WA	-19	MI	-59
PA	-1,096	MO	-14	MD	-42
NY	-567	CO	-9	NY	-41
NJ	-380	FL	-5	SC	-31
CT	-49	AR	-5	IL	-27



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

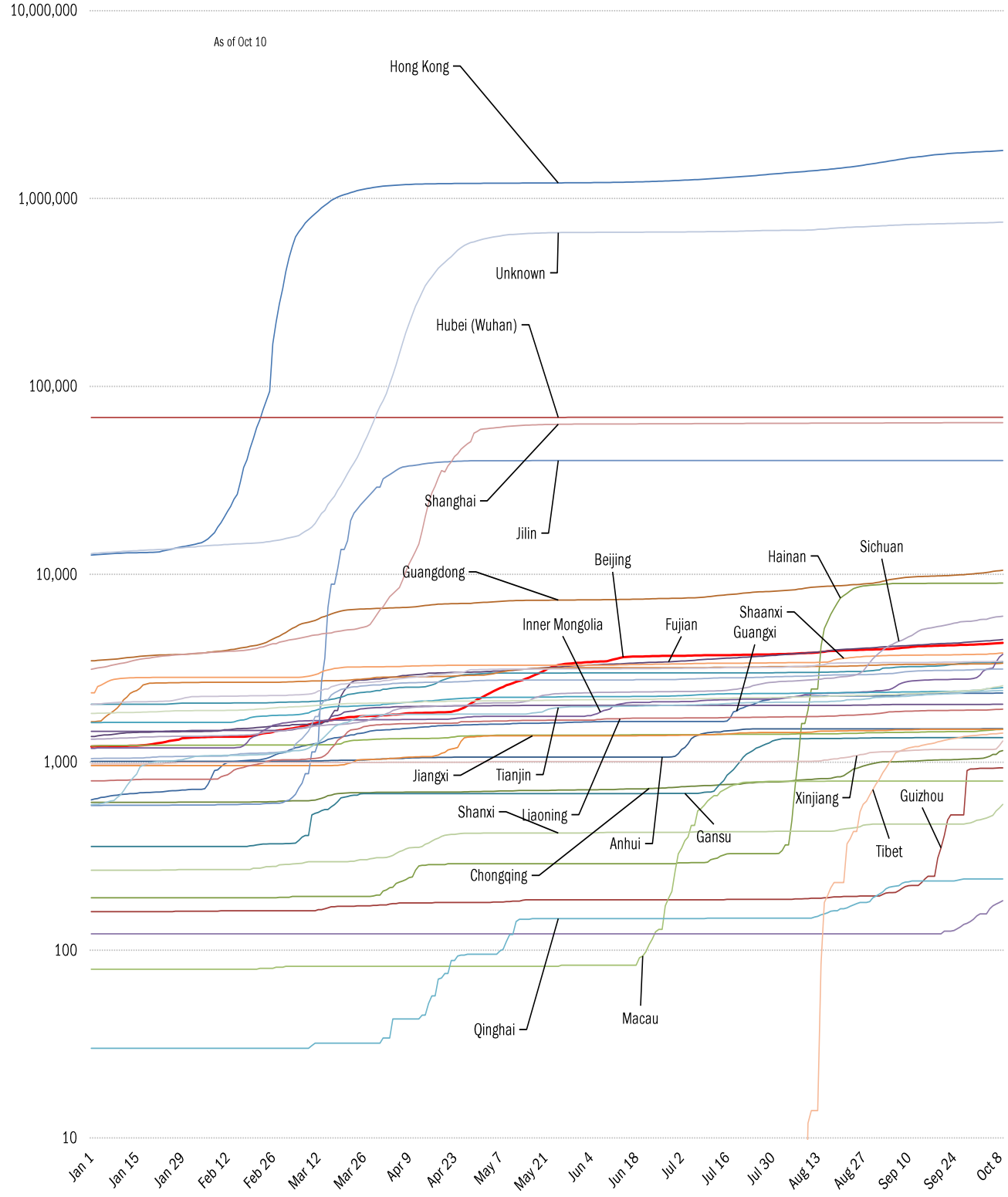
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

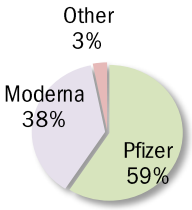
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	639,829,441				+0.646 million
of which boosters	112,806,473				+0.097 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	272,769,462	82%	232,566,440	70%	+0.103 million
Age 12 to 17	18,239,142	72%	15,598,069	62%	+0.005 million
Age 18 to 64	181,807,769	89%	154,688,903	76%	+0.070 million
Age 65 and over	60,054,982	100%	52,589,623	96%	+0.018 million

Immunity	Full	Partial
US	68.0%	79.7%
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	82.8%	87.6%
Japan	82.6%	83.6%
Africa	23.3%	29.4%
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

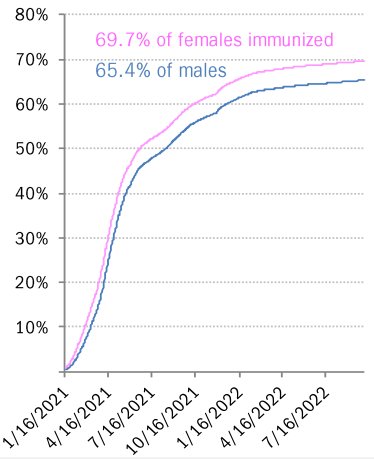
"Immunity" = two doses

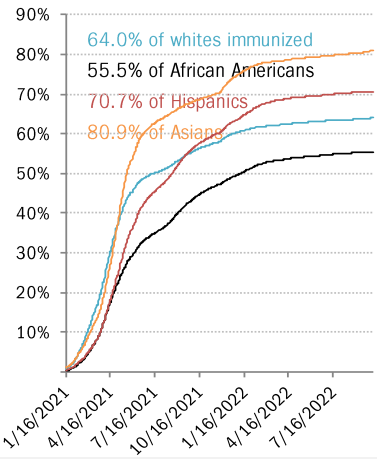
Best
Middle
Worst

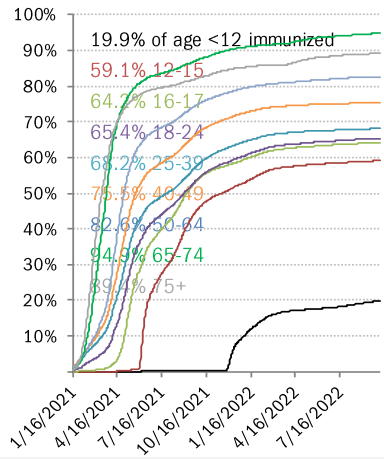
As of Oct 7

AK					WI					ME
71.8%					73.6%					93.8%
64.3%					67.0%					81.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
83.4%	62.8%	66.9%	67.6%	77.3%	77.9%	68.5%		92.6%	95.0%	84.4%
74.5%	55.5%	58.2%	57.2%	70.8%	70.2%	61.4%		79.1%	83.5%	69.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
79.9%	77.4%	59.6%	80.4%	69.5%	63.4%	64.8%	88.1%	93.0%	95.0%	
71.1%	62.4%	52.2%	64.4%	63.3%	57.1%	59.6%	71.2%	77.7%	81.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.6%	74.1%	82.0%	72.1%	68.0%	67.8%	66.6%	88.5%	89.6%	95.0%	95.0%
74.0%	65.7%	72.1%	65.1%	57.8%	58.7%	59.0%	75.2%	78.0%	81.4%	85.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.1%	91.2%	74.6%	68.6%	63.7%	88.6%	69.7%	95.0%	86.0%	
	63.6%	73.3%	63.9%	55.9%	55.7%	64.5%	58.8%	81.1%	71.6%	
			OK	LA	MS	AL	GA			
			73.2%	62.2%	61.1%	64.2%	67.2%			
			59.2%	54.6%	53.2%	52.4%	56.3%			
HI			TX					FL		PR
89.9%			74.9%					81.3%		95.0%
80.3%			62.3%					68.5%		85.5%

The demographics of US vaccination

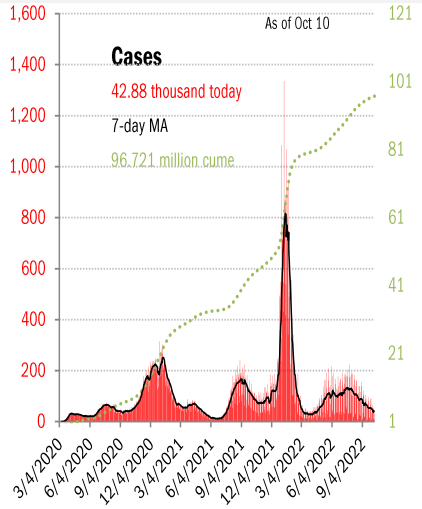


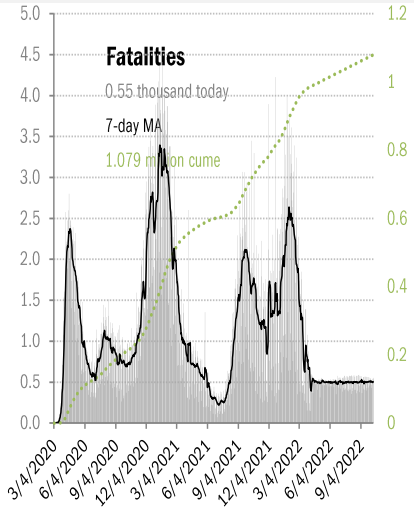


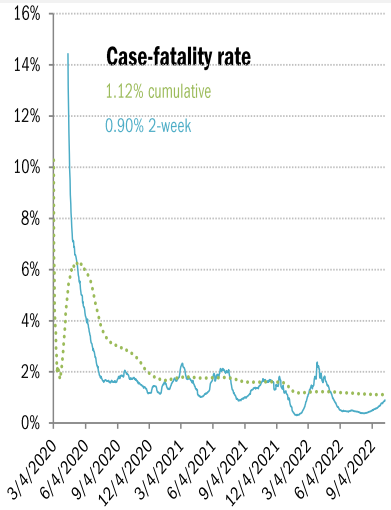


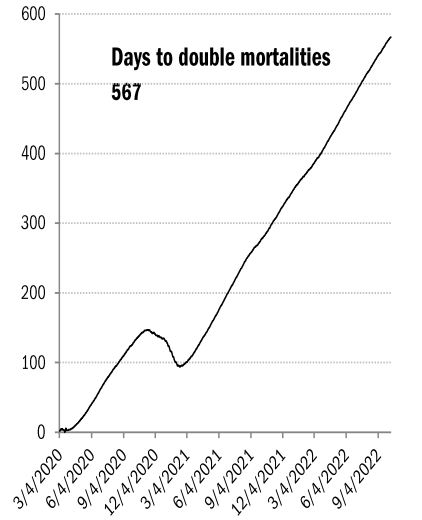
Source: CDC, CDC, Our World in Data, TrendMacro calculations

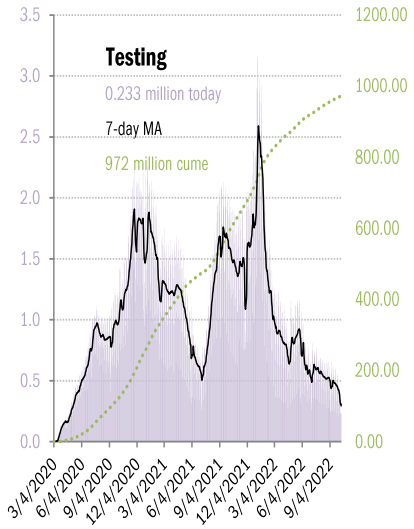
US deep-dive

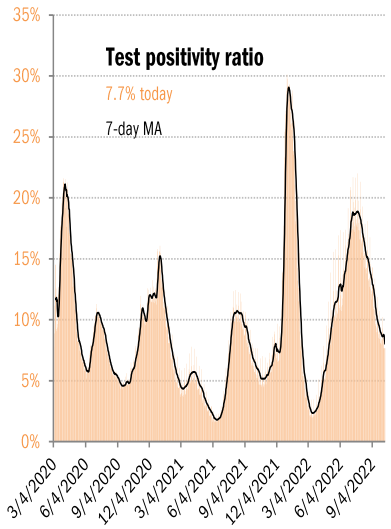


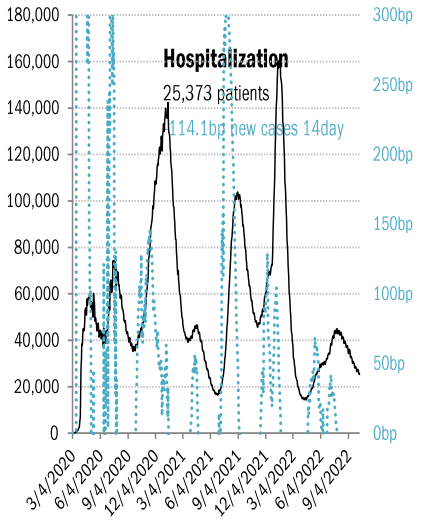


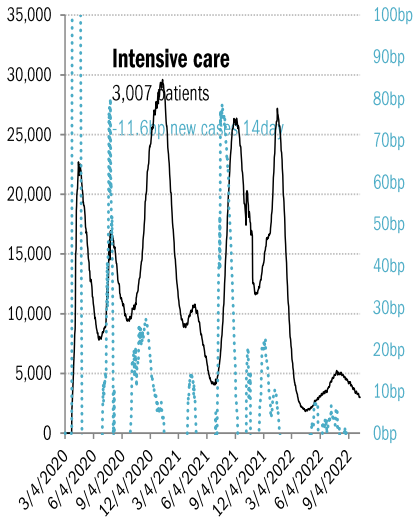


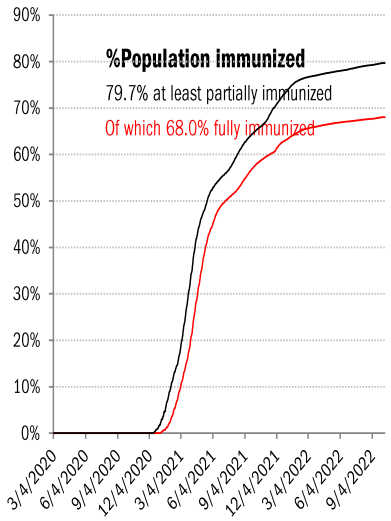












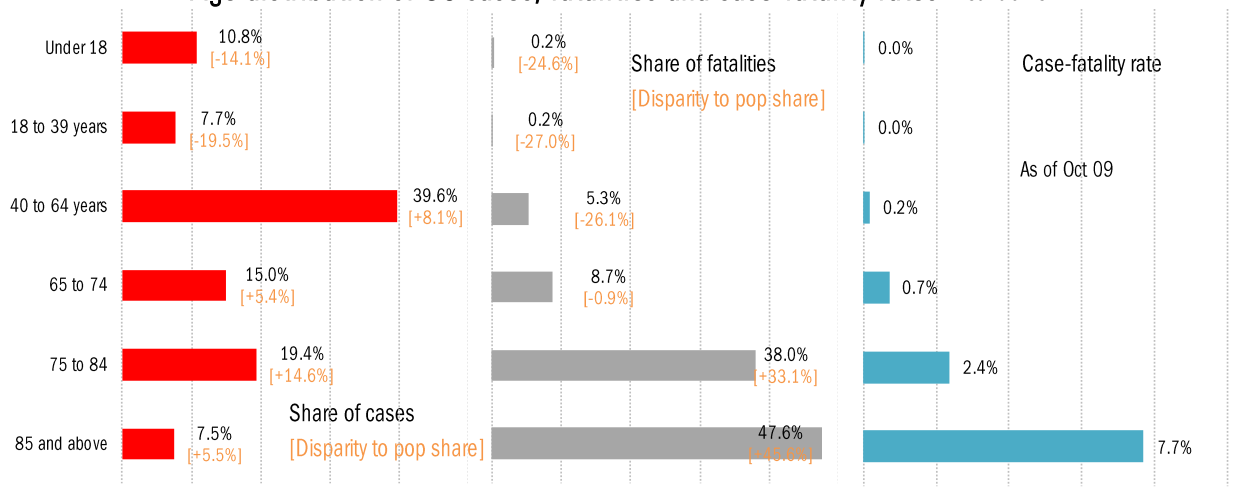
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

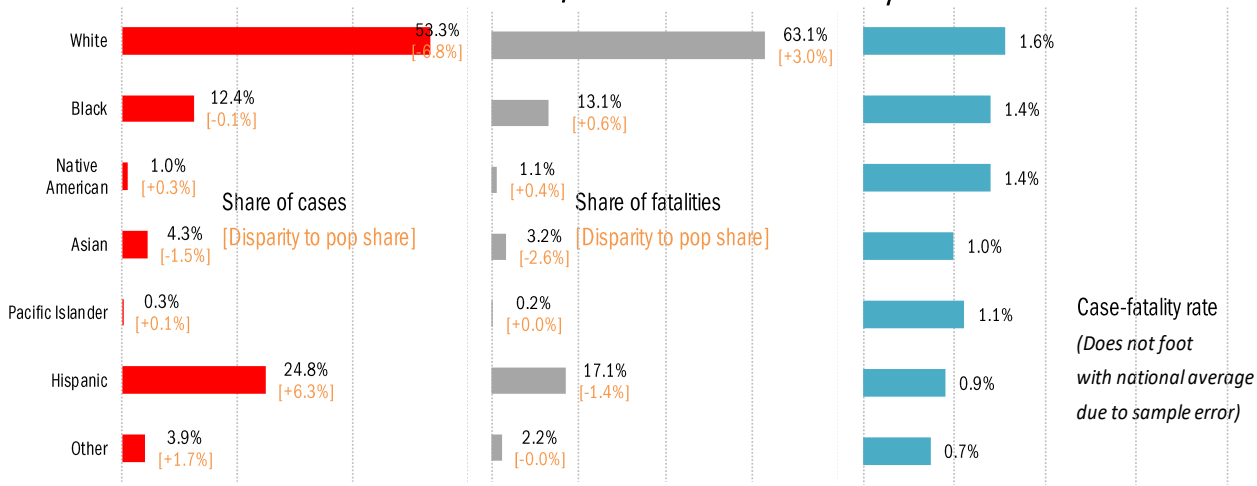
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



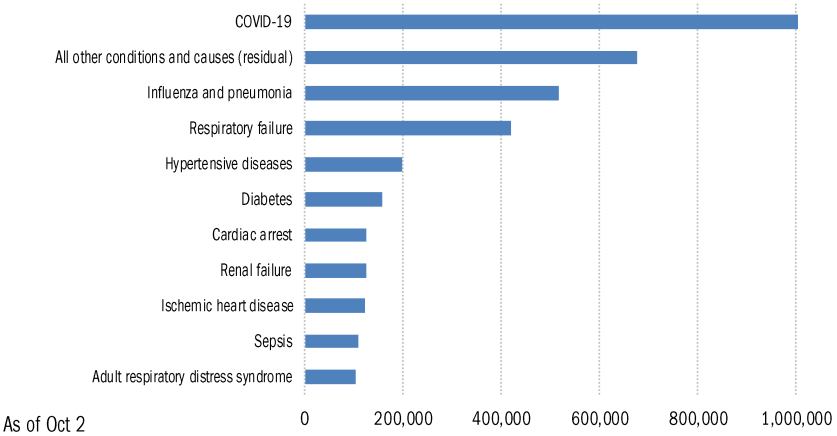
Racial distribution of US cases, fatalities and case-fatality rates

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

Long Covid Disables Millions Worldwide, Even as Rates Ease, Study Shows
Jason Gale
Bloomberg
October 10, 2022

Stop the Money, Stop the Madness
White Coat Waste Project
October 10, 2022

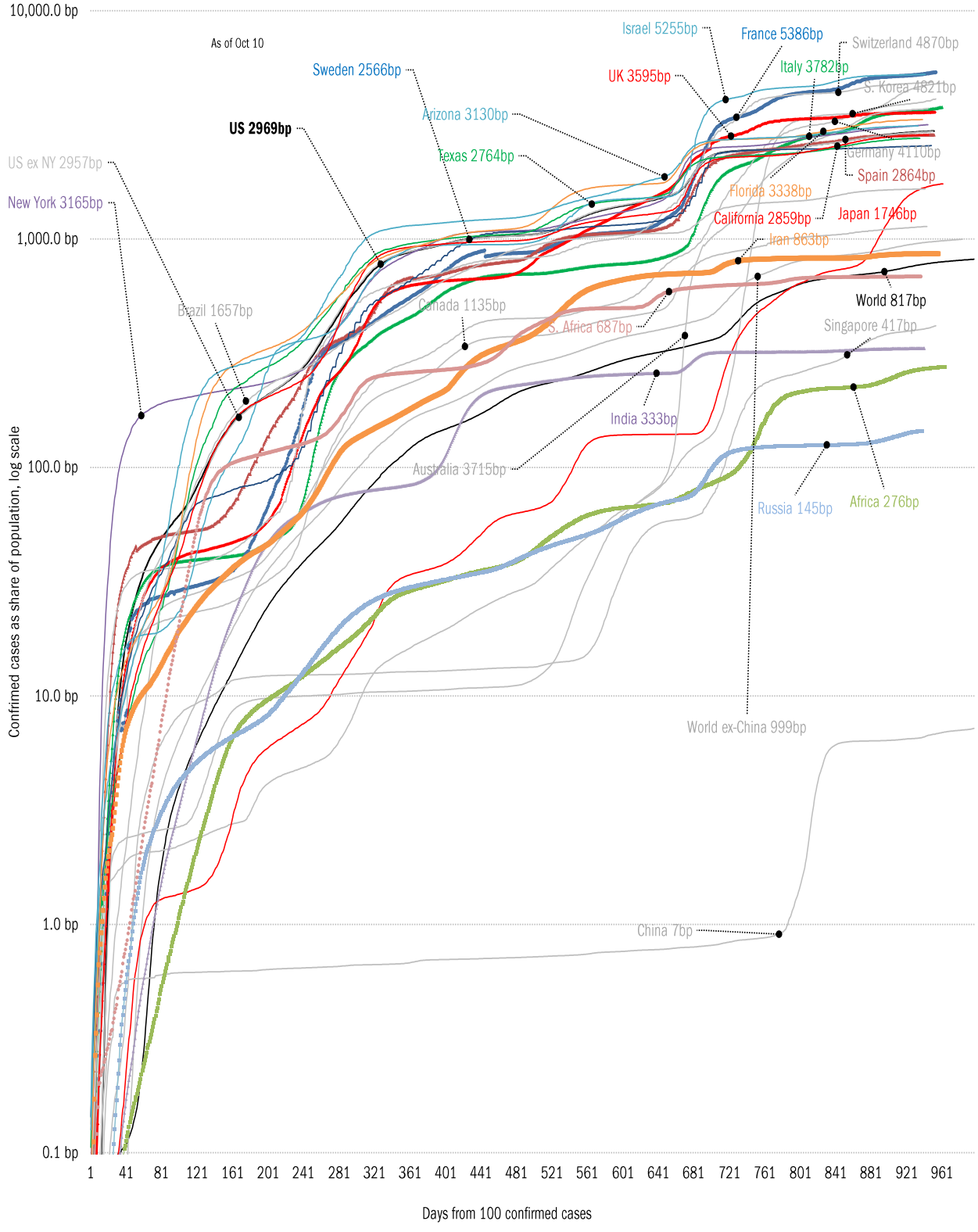
White House touts vaccine benefits amid faltering booster rollout
Joseph Choi
The Hill
October 7, 2022

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

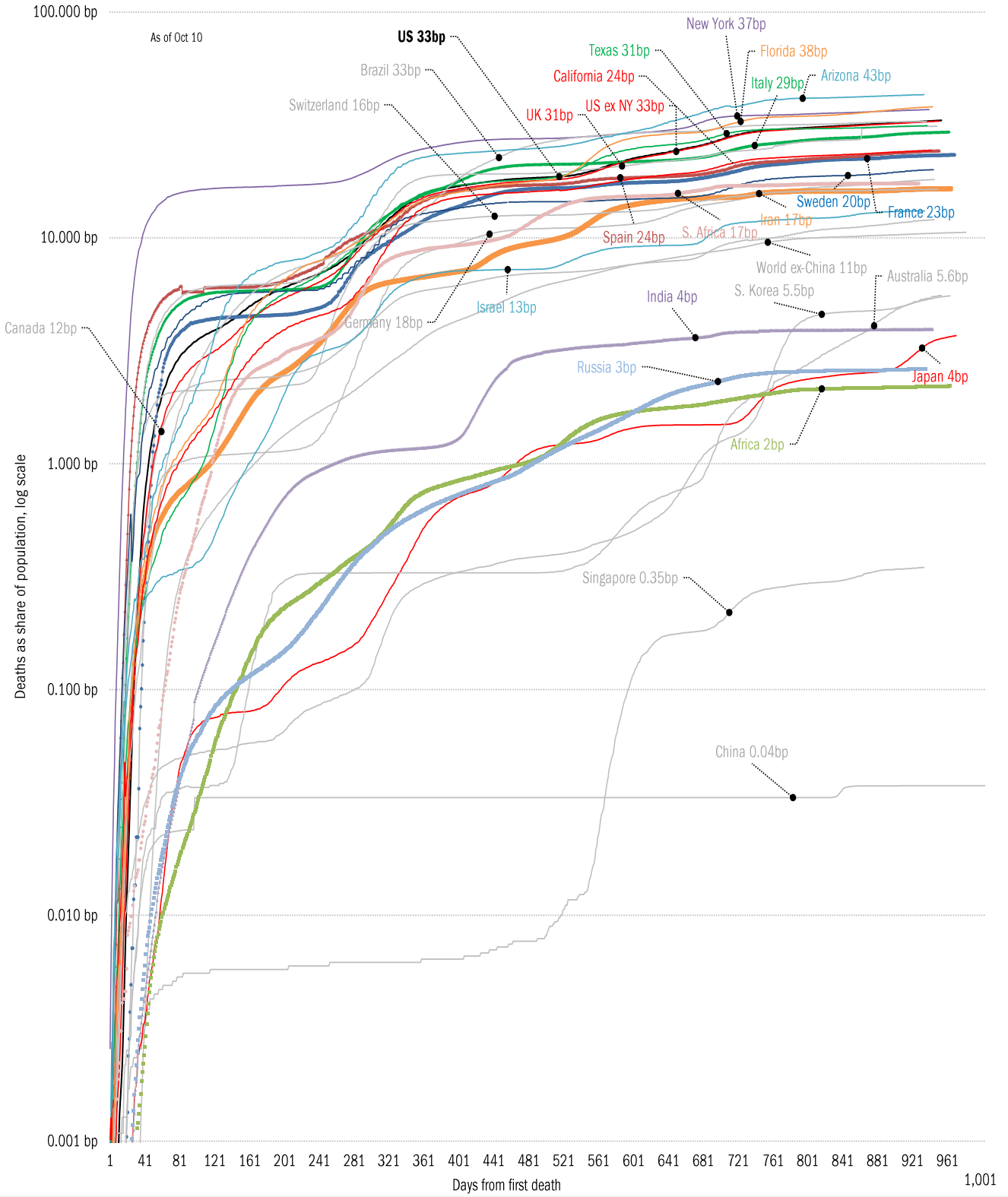
Share of infected population from first day with 100 confirmed cases, log scale



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

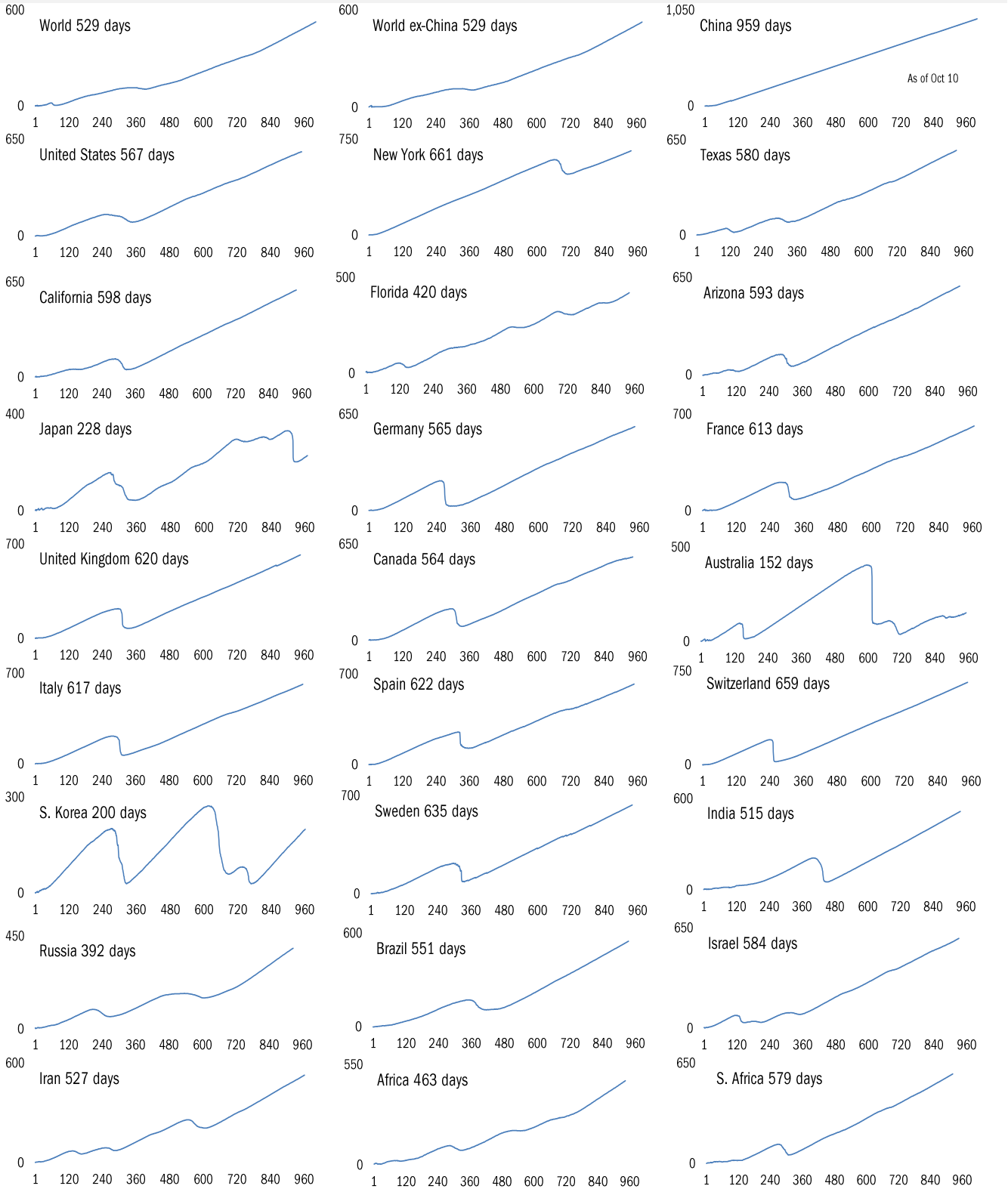


Source: Johns Hopkins, TrendMacro calculations

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

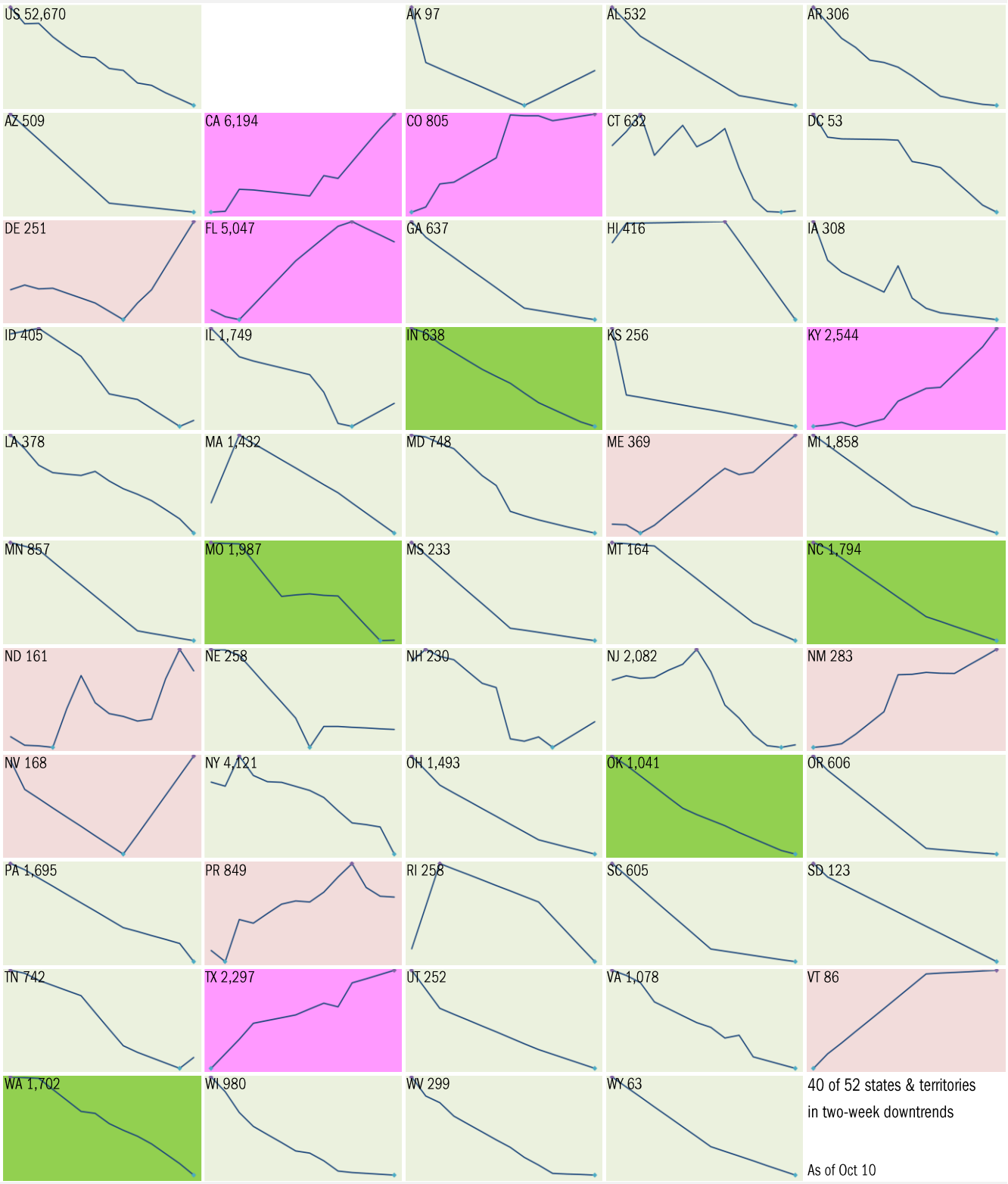


Source: Johns Hopkins, TrendMacro calculations

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

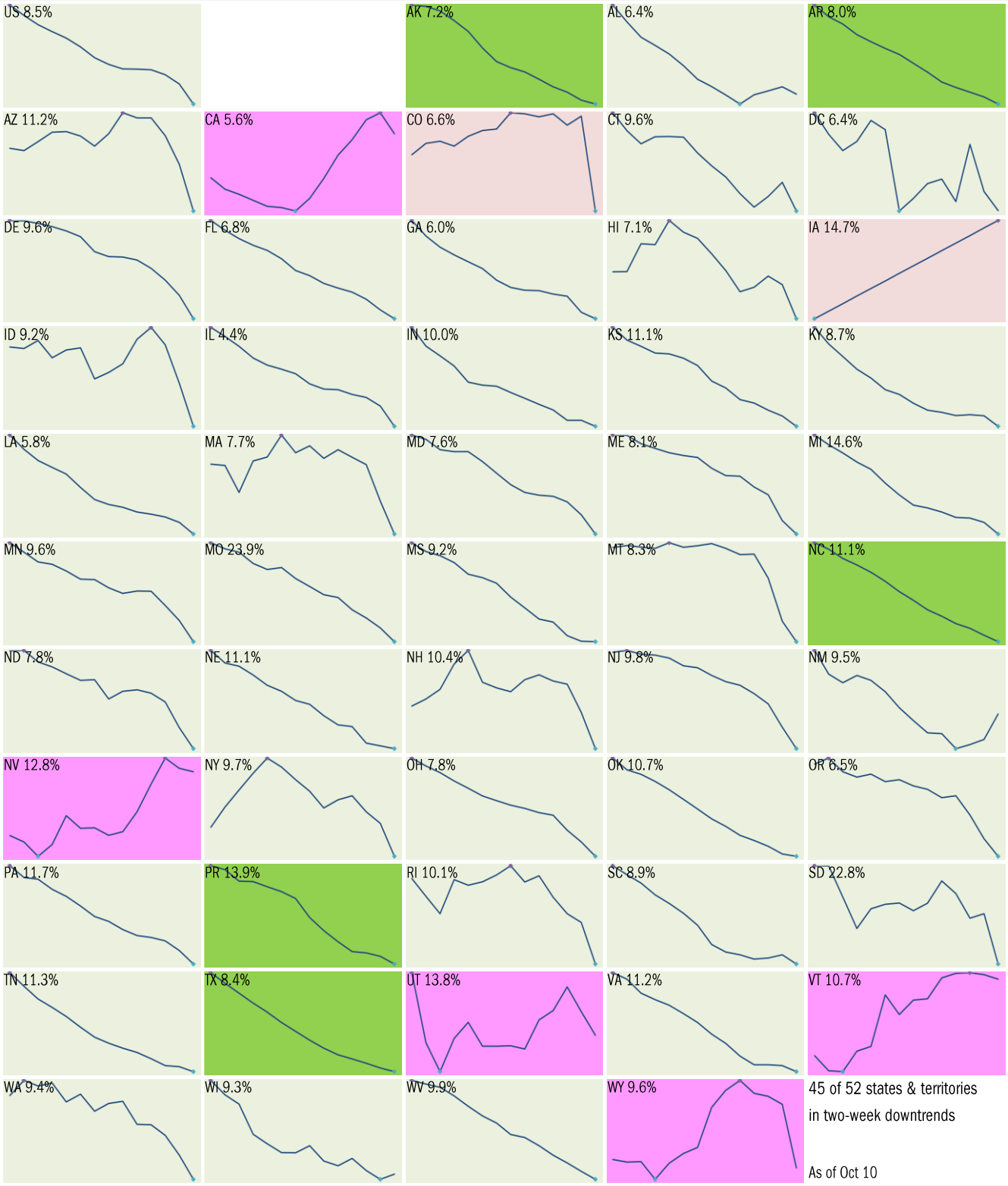


Source: Johns Hopkins, TrendMacro calculations

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

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

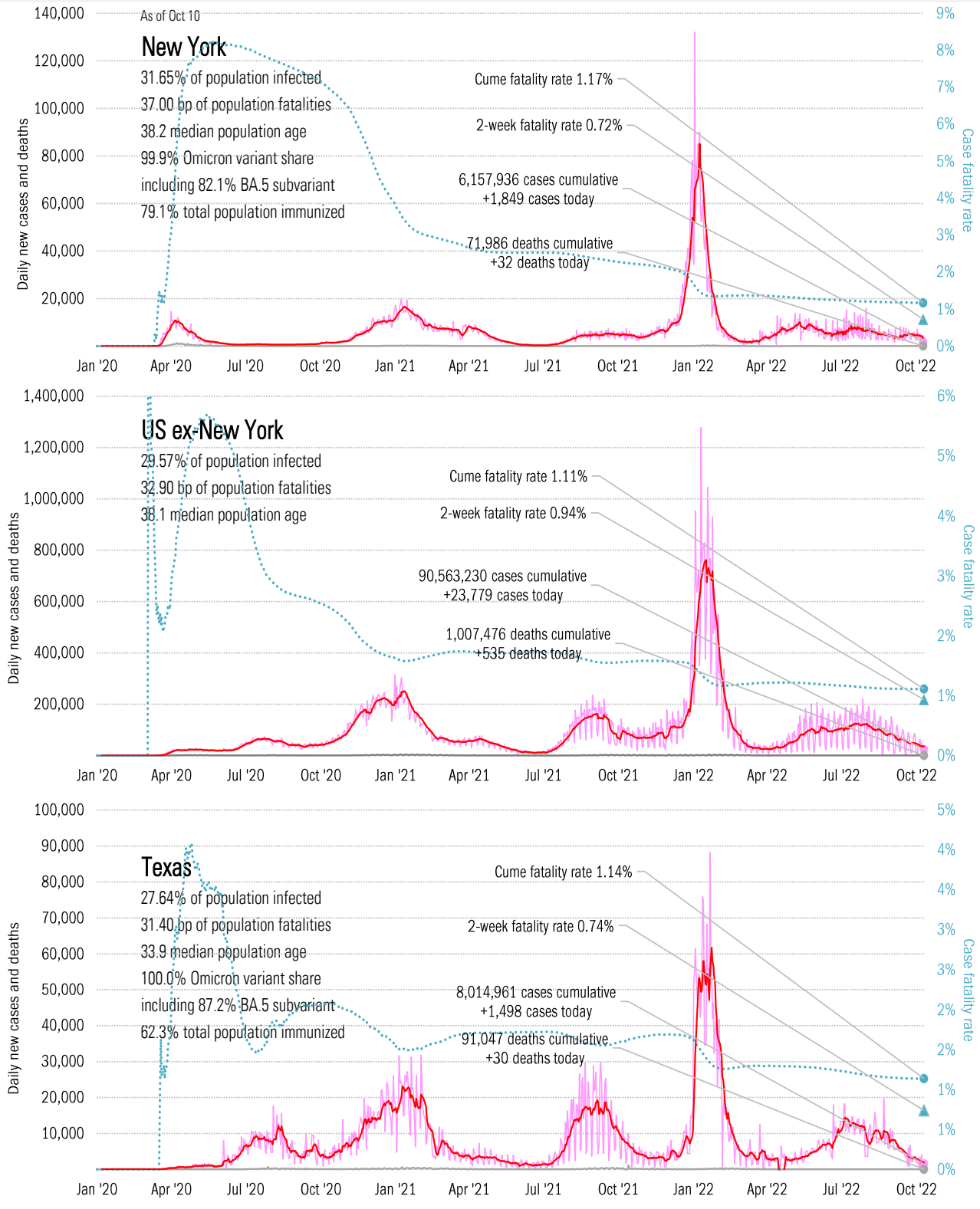
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

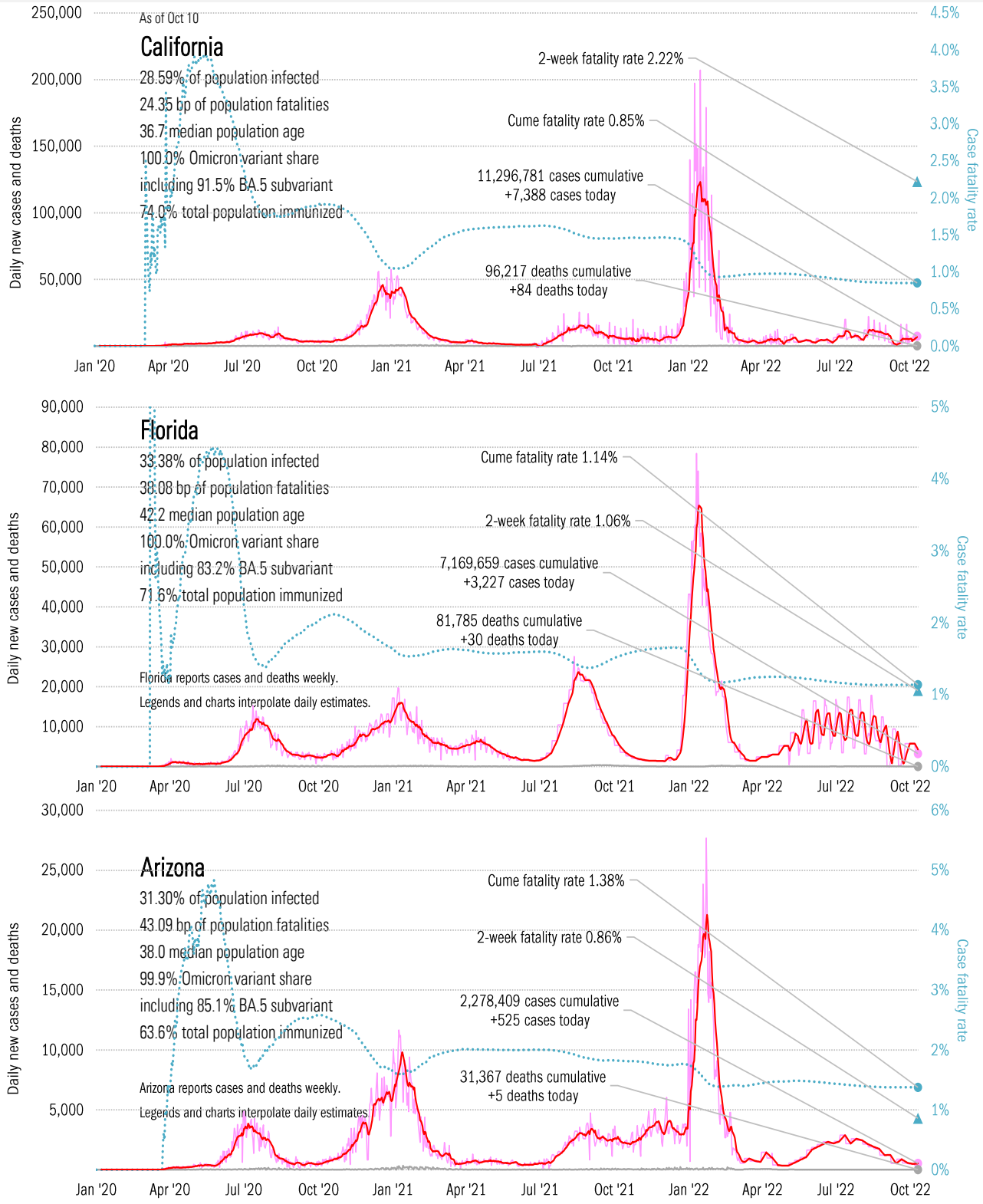
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

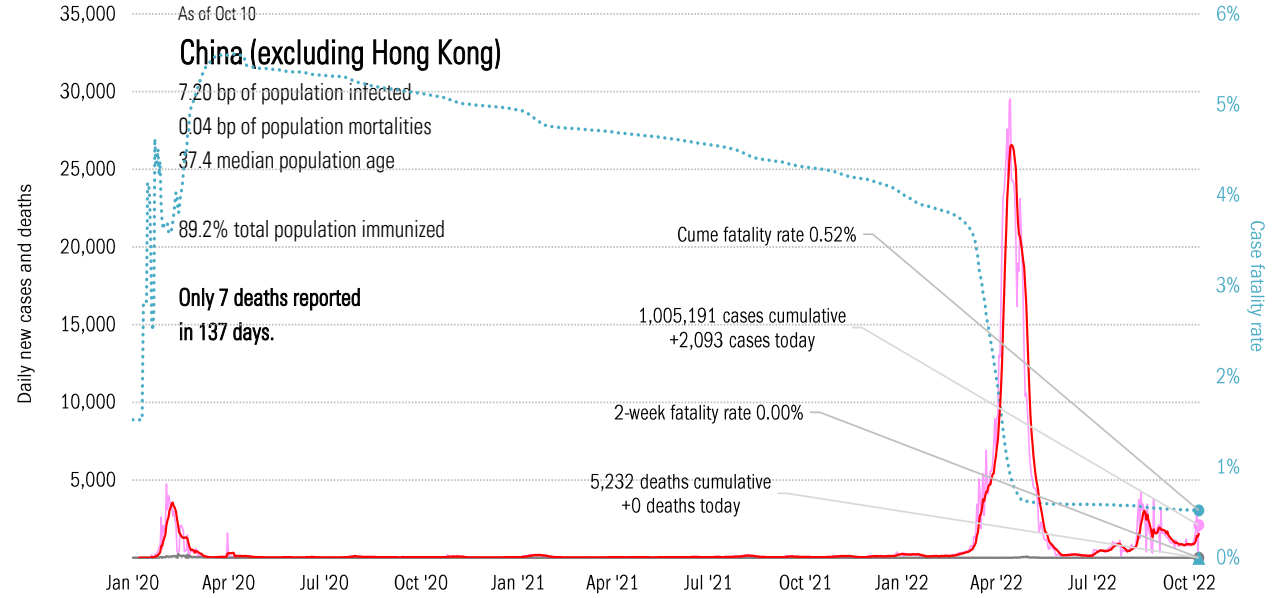
Cases: 7-day average and daily Deaths: Daily

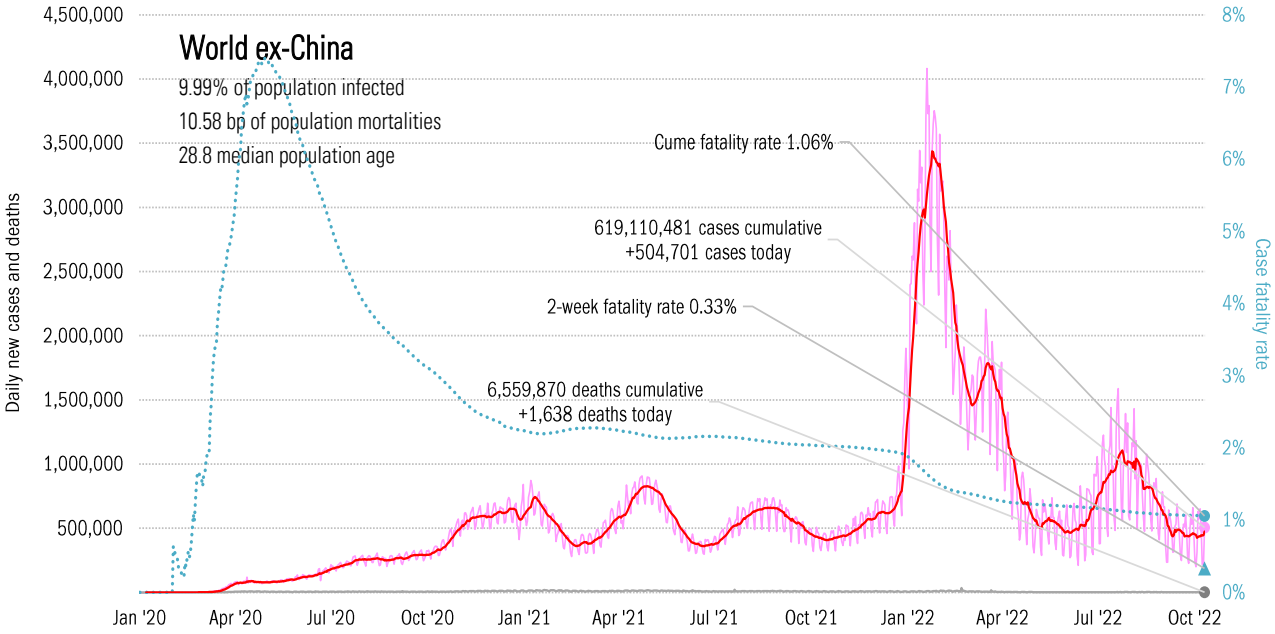


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

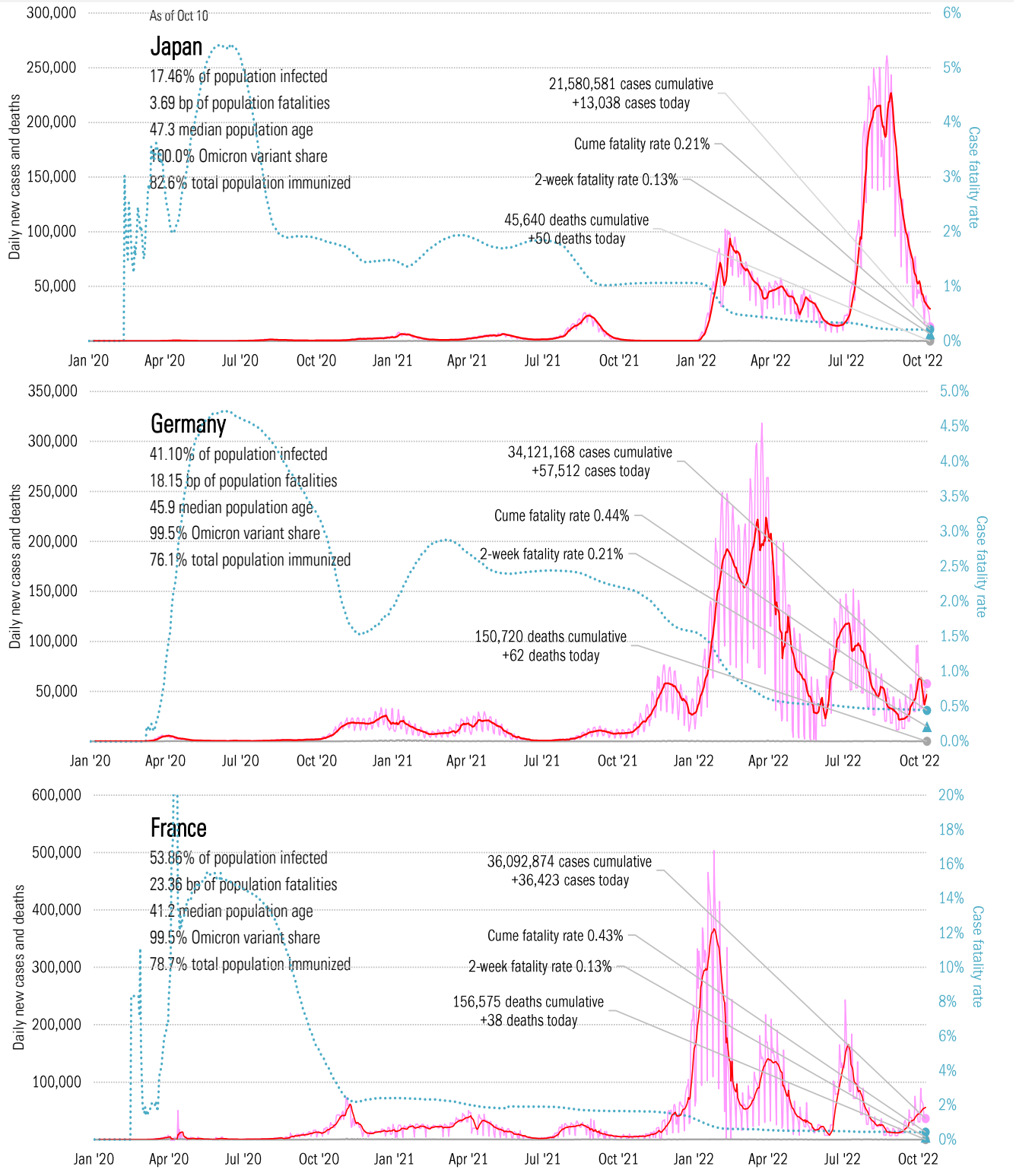




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

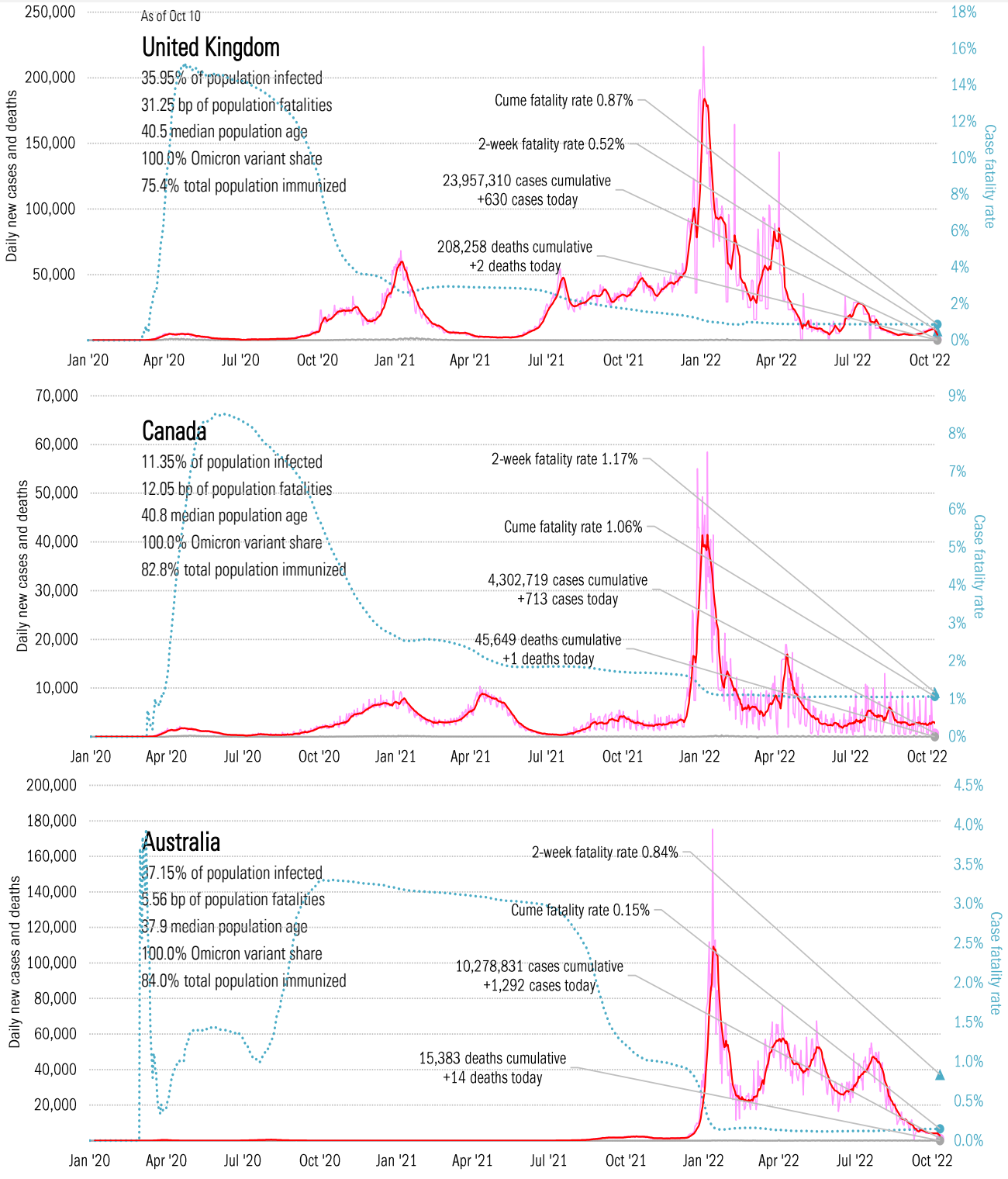
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

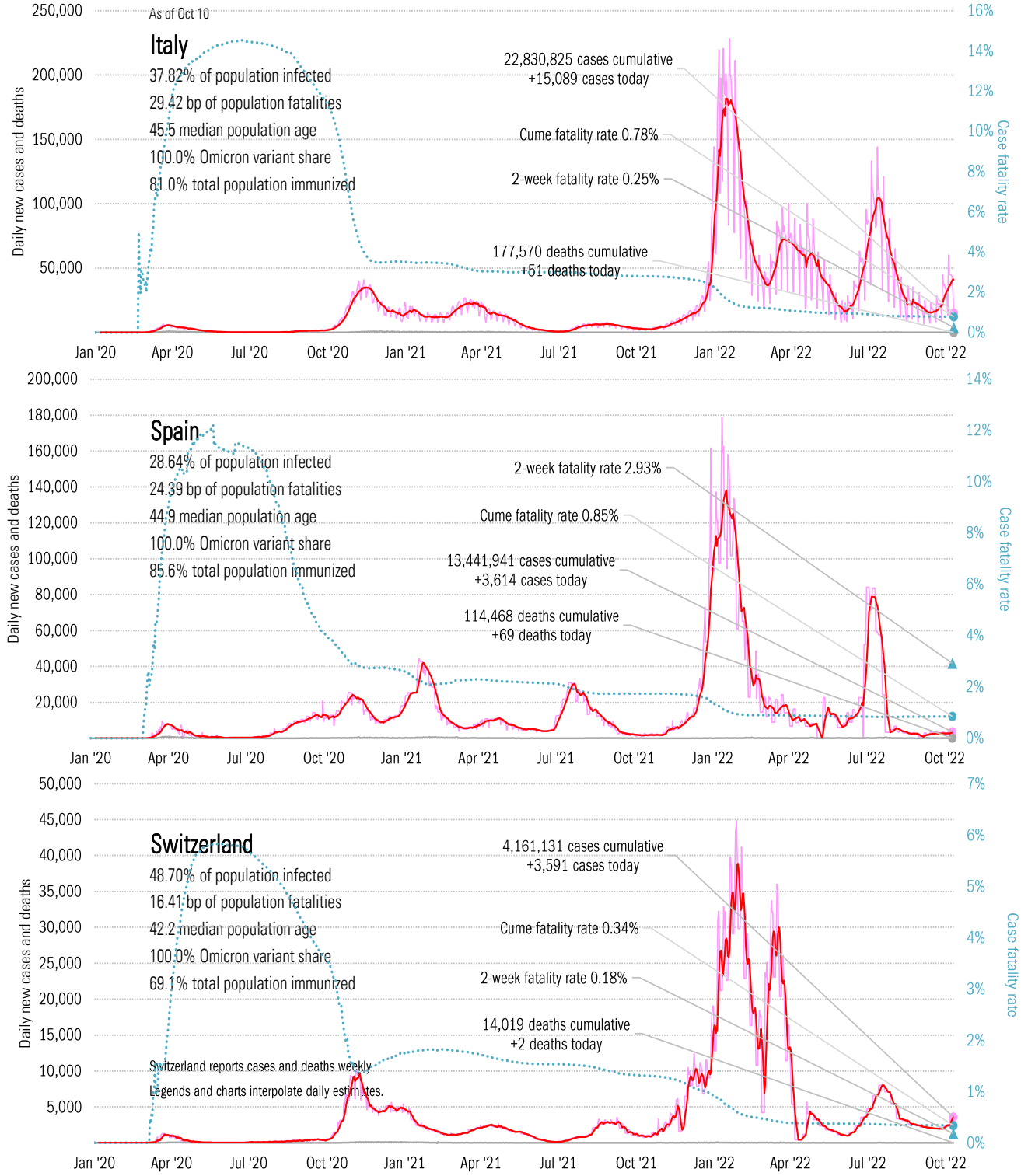
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

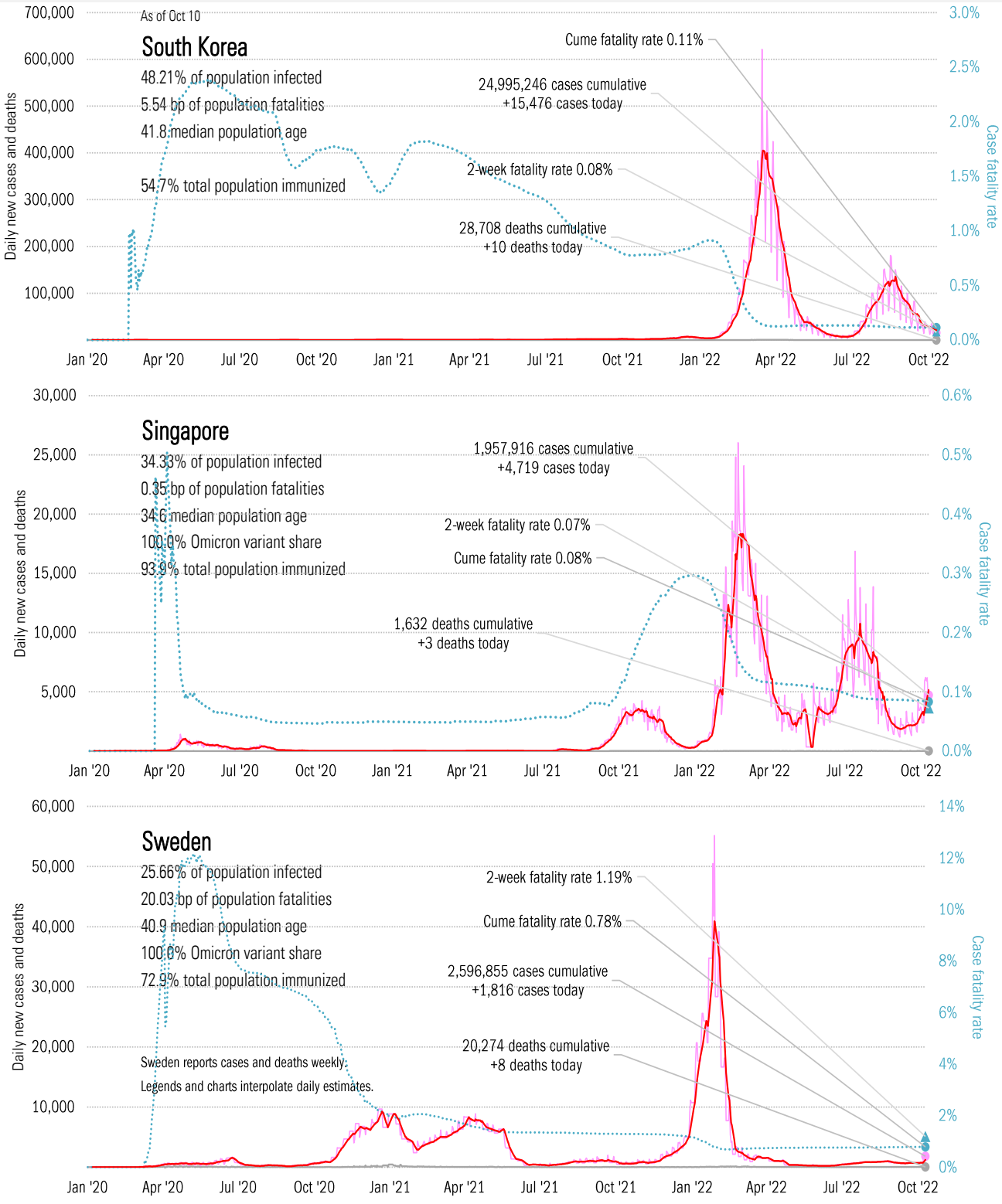
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

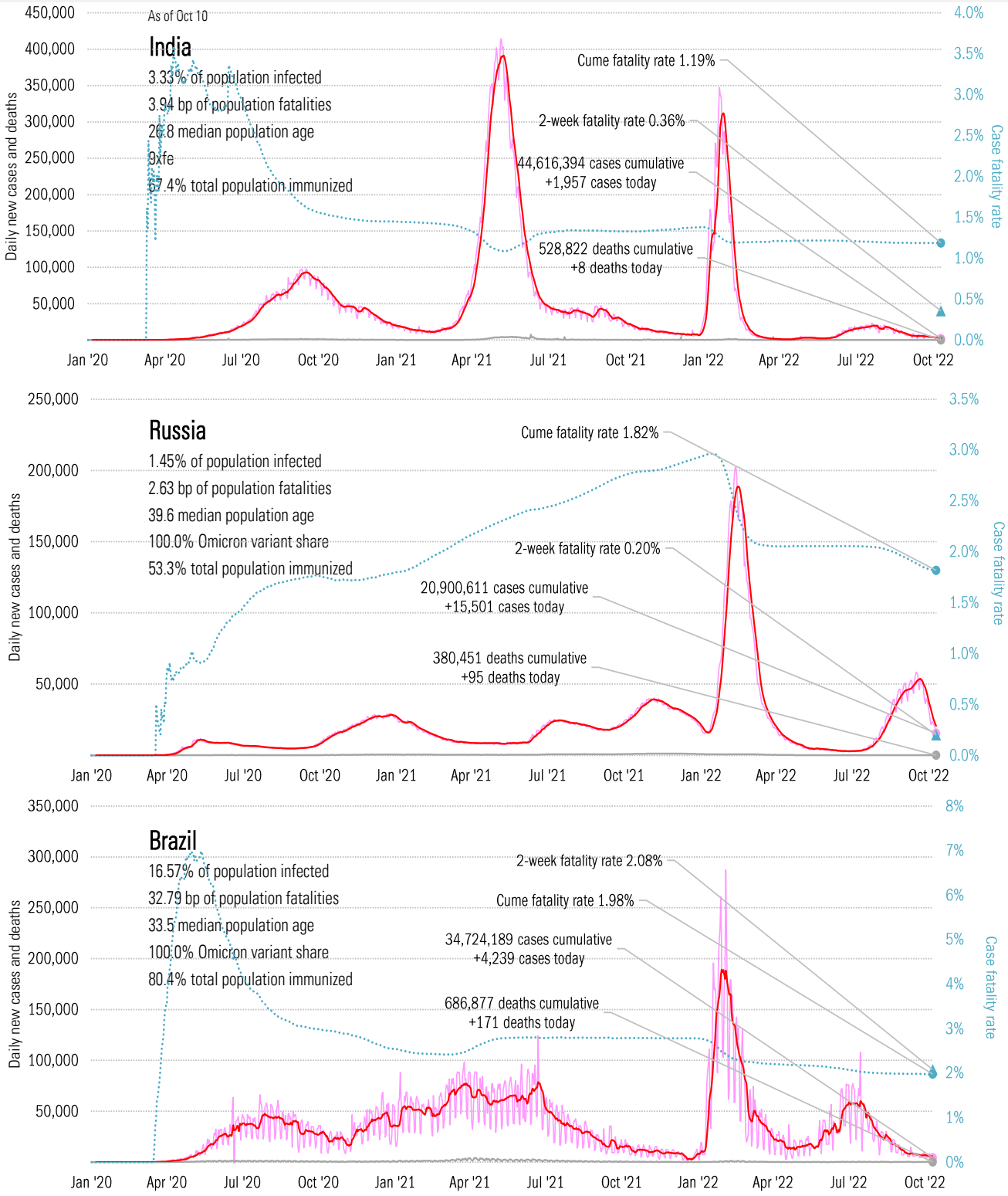
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

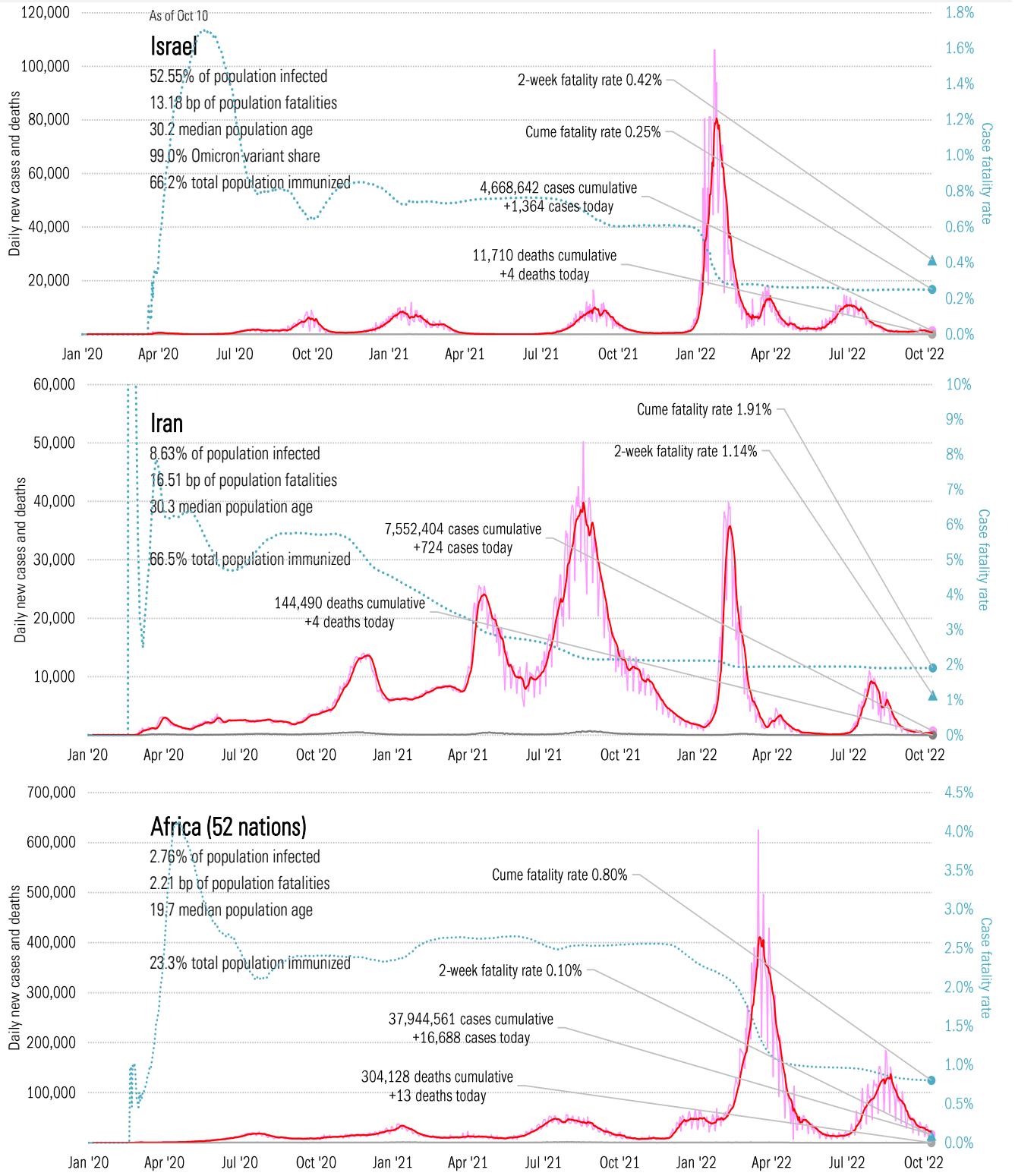
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

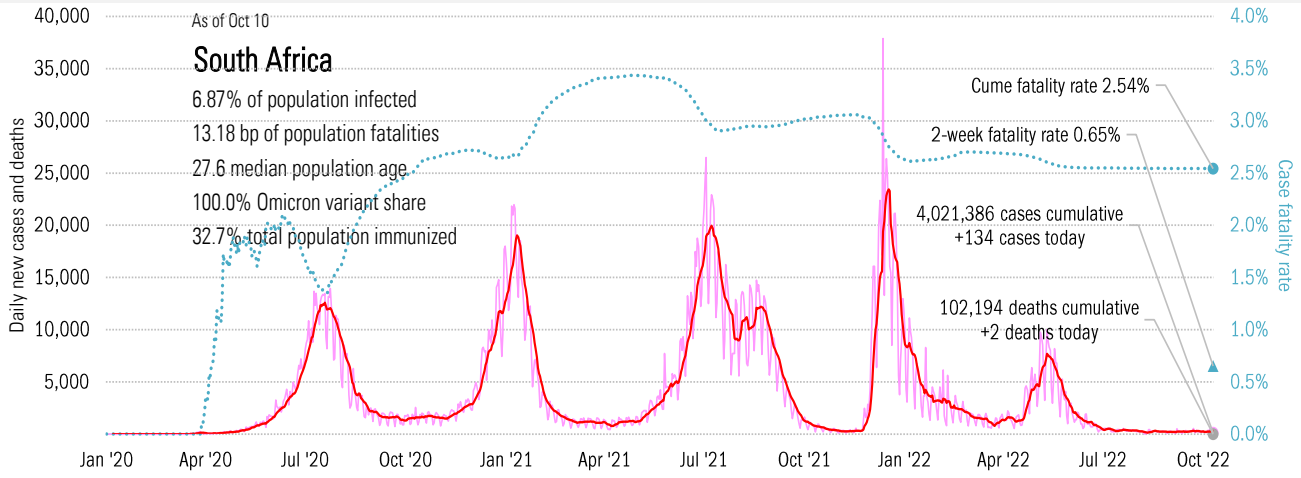
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations