Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

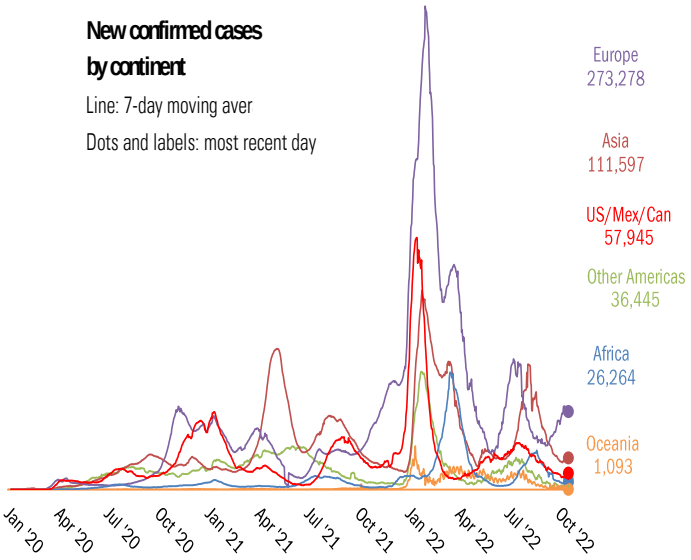
Thursday, October 20, 2022

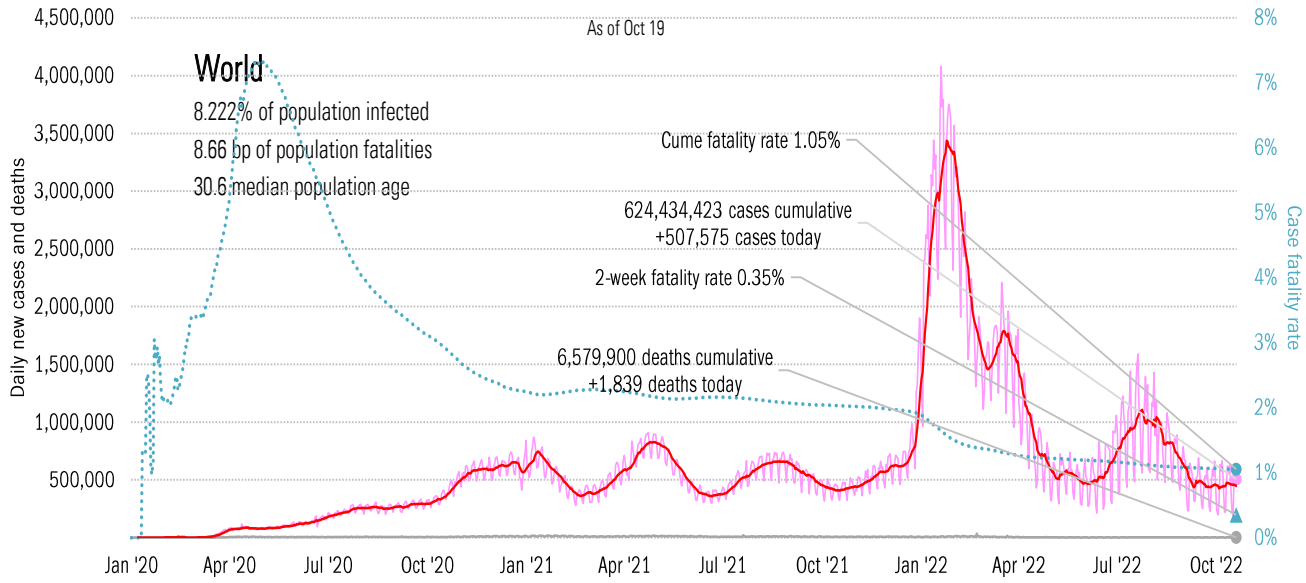
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Germany	116,806	United States	475
France	63,062	Brazil	279
Taiwan*	44,596	Germany	223
Japan	43,555	Hungary	118
Italy	41,703	France	106
United States	37,579	Russia	90
Korea, South	25,369	Italy	81
Brazil	24,858	Japan	68
Austria	13,711	Philippines	44
Hungary	11,947	Canada	42
	423,186		1,526
World	507,575	World	1,839
Top ten	83%	Top ten	83%





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

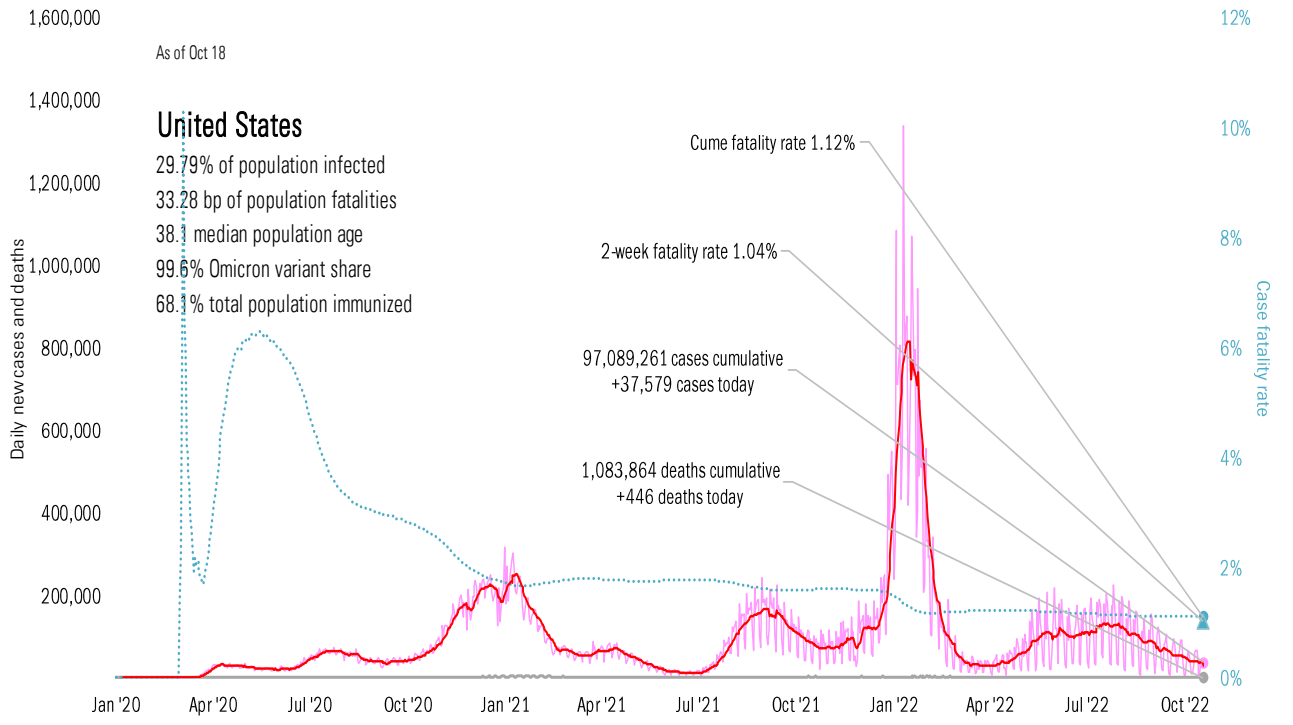
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
MI	12,414	NY	62	TX	193	CA	11,322,413	CA	96,458	TX	549,090	RI	92%	NH	89%
NY	3,549	FL	37	MA	143	TX	8,028,702	TX	91,095	CA	504,798	MA	87%	RI	87%
FL	3,227	MO	29	MD	65	FL	7,179,341	FL	82,099	FL	497,001	MN	85%	TX	87%
NJ	1,944	MI	25	AK	21	NY	6,196,506	NY	72,285	NY	306,210	MO	84%	VT	87%
KY	1,875	CA	21	MI	158	IL	3,789,532	PA	47,442	GA	227,006	WV	83%	MA	86%
CA	1,570	TX	18	NH	27	PA	3,280,746	GA	40,448	OH	220,866	WA	83%	AL	86%
MD	1,549	PA	17	MN	71	NC	3,220,858	OH	40,037	PA	207,238	NH	83%	NC	82%
NC	1,432	MD	16	AZ	39	OH	3,162,278	IL	39,867	IL	189,185	MI	82%	AK	82%
IL	1,333	VA	16	NC	75	GA	2,913,382	MI	39,092	MI	165,103	MD	82%	DC	81%
WA	1,287	DE	15	SD	15	MI	2,874,009	NJ	34,834	KY	145,941	DE	82%	MI	80%
	30,180		256		807		51,967,767		583,657		3,012,438				
All states	46,848		463		3,280	All states	97,033,559		1,083,418		5,467,123	All states	70%		67%
Top ten	64%		55%		25%	Top ten	54%		55%		55%	Median	77%		73%

Some states not reporting

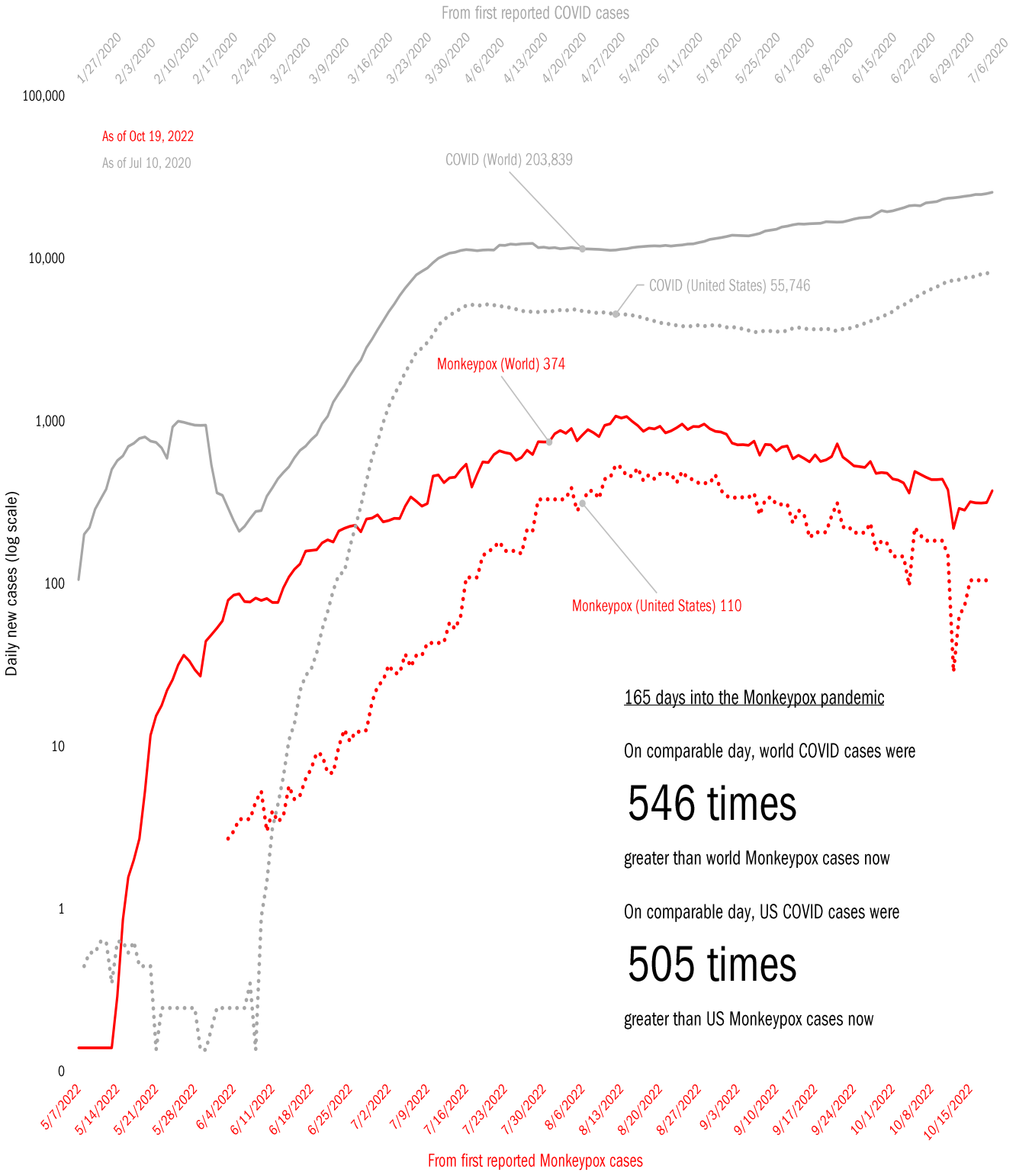
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-5,696	FL	-14	CA	-81
OH	-1,219	WI	-6	OH	-59
TX	-915	WV	-3	PA	-59
NH	-197	CO	-2	NJ	-37
OK	-104	IL	-2	CO	-34



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

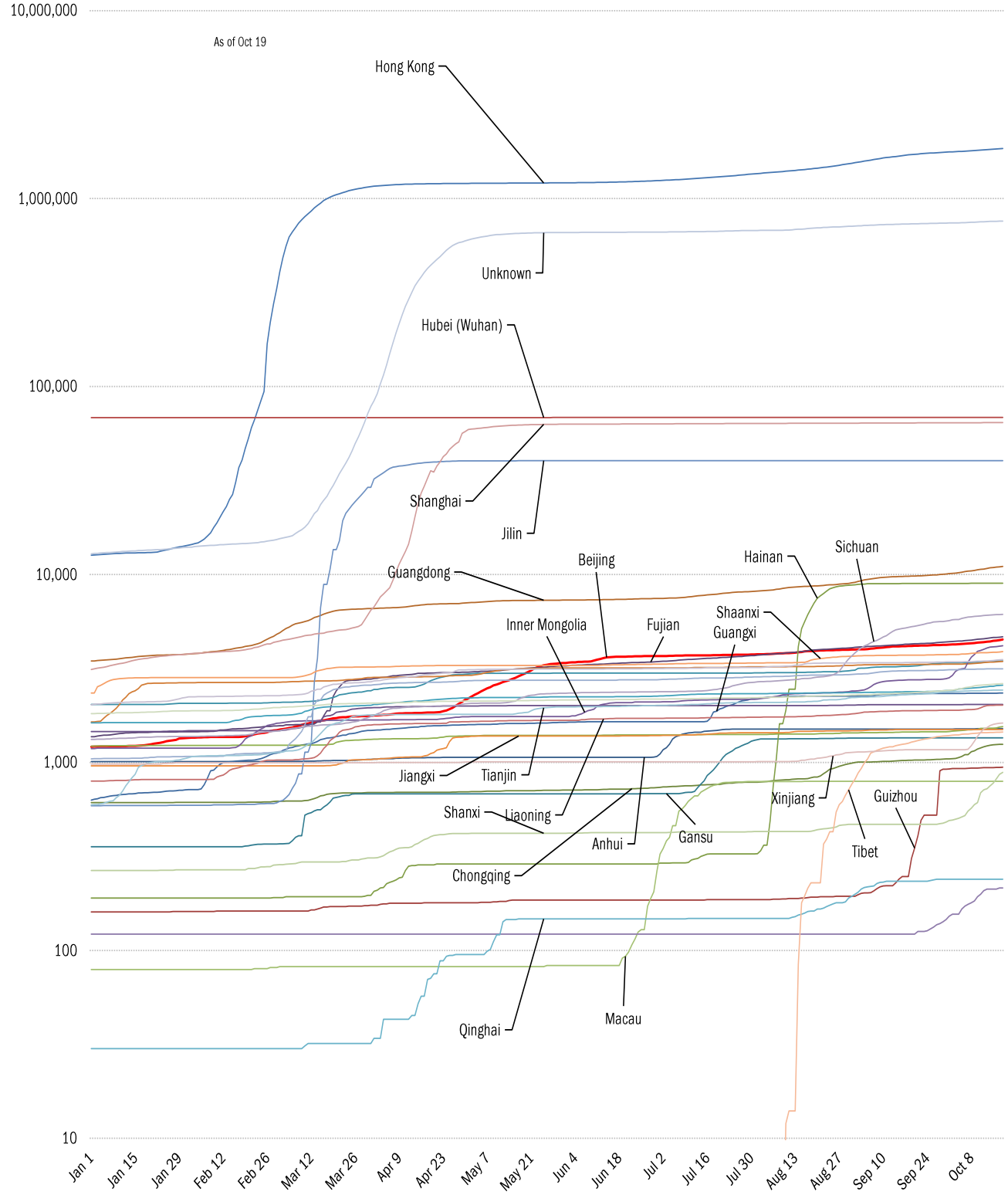
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

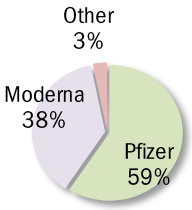
Rolling out the vaccines in the US and the world

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

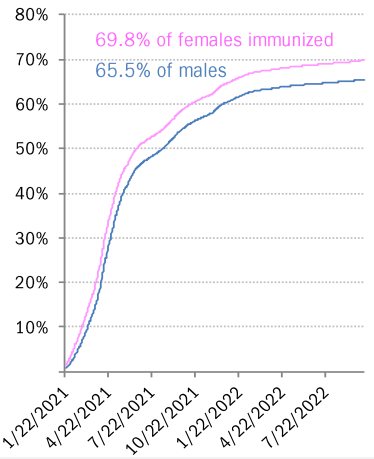
Best
Middle
Worst

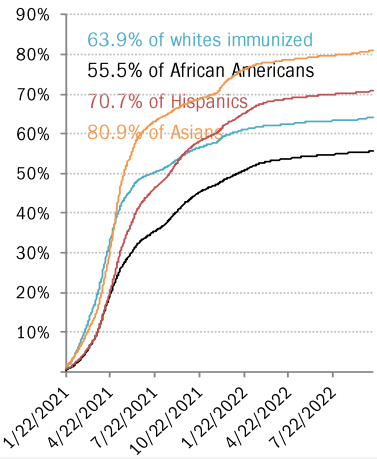
As of Oct 14

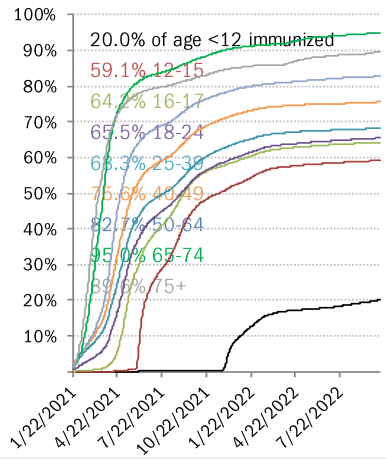
					WI					ME
					73.8%					94.3%
					67.2%					81.9%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
83.6%	62.9%	67.0%	67.8%	77.4%	78.0%	68.6%		92.7%	95.0%	84.7%
74.7%	55.6%	58.3%	57.3%	70.9%	70.3%	61.5%		79.3%	83.7%	69.6%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.0%	77.5%	59.7%	80.5%	69.6%	63.5%	64.8%	88.2%	93.1%	95.0%	
71.2%	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

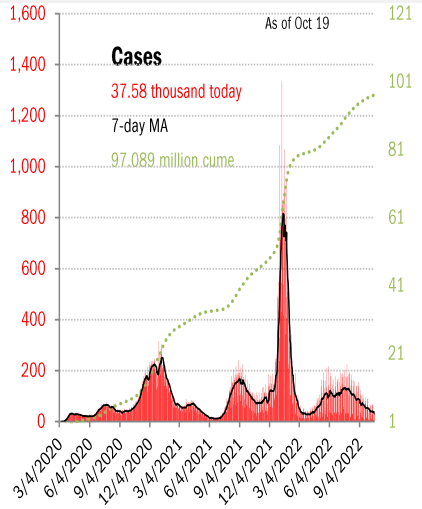


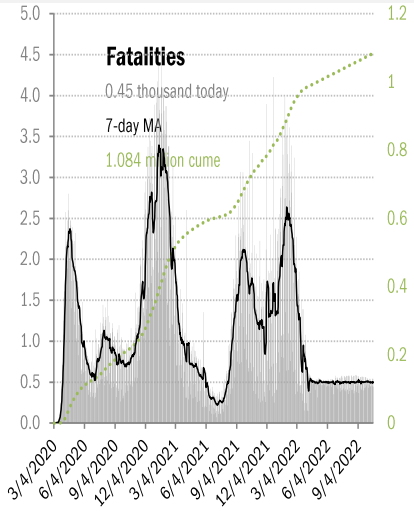


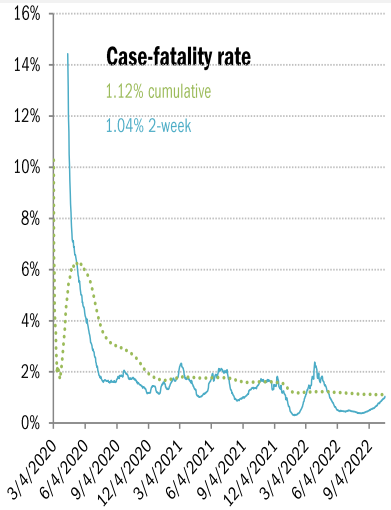


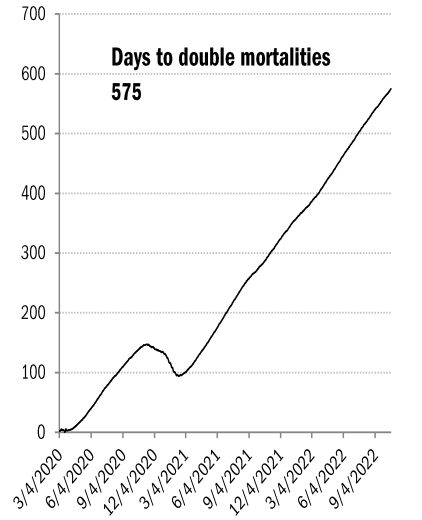
Source: CDC, CDC, Our World in Data, TrendMacro calculations

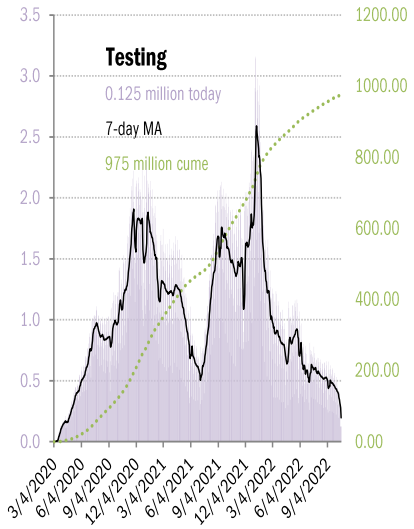
US deep-dive

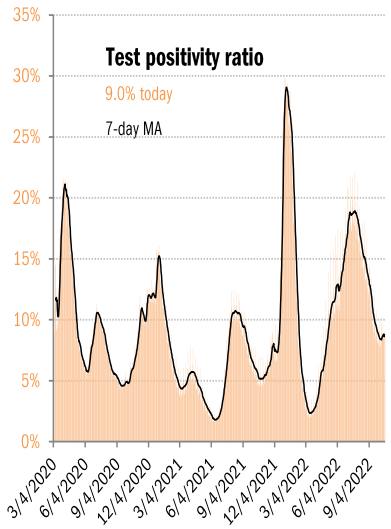


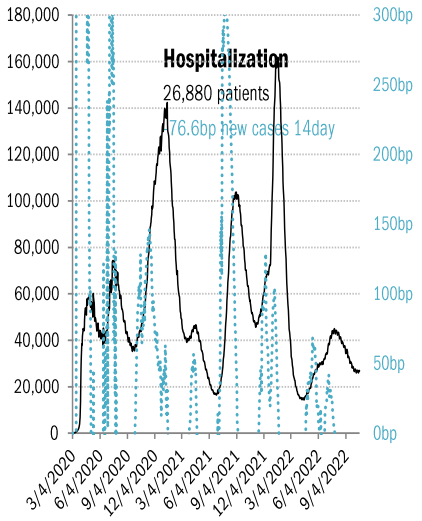


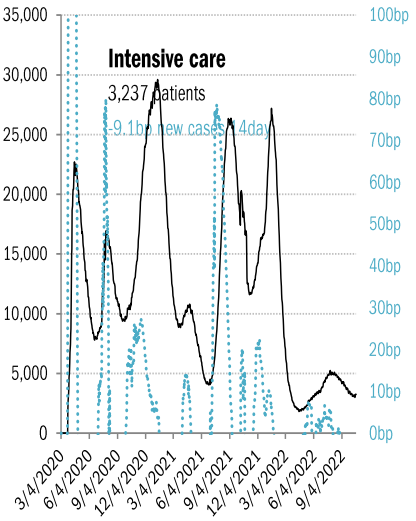


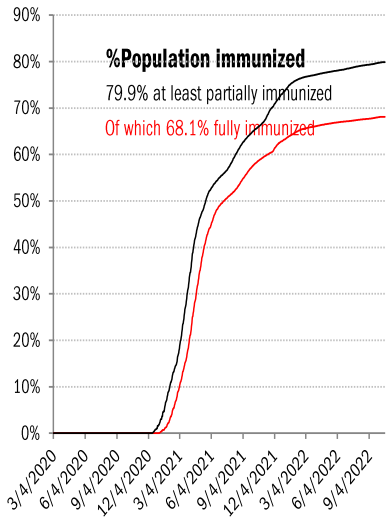












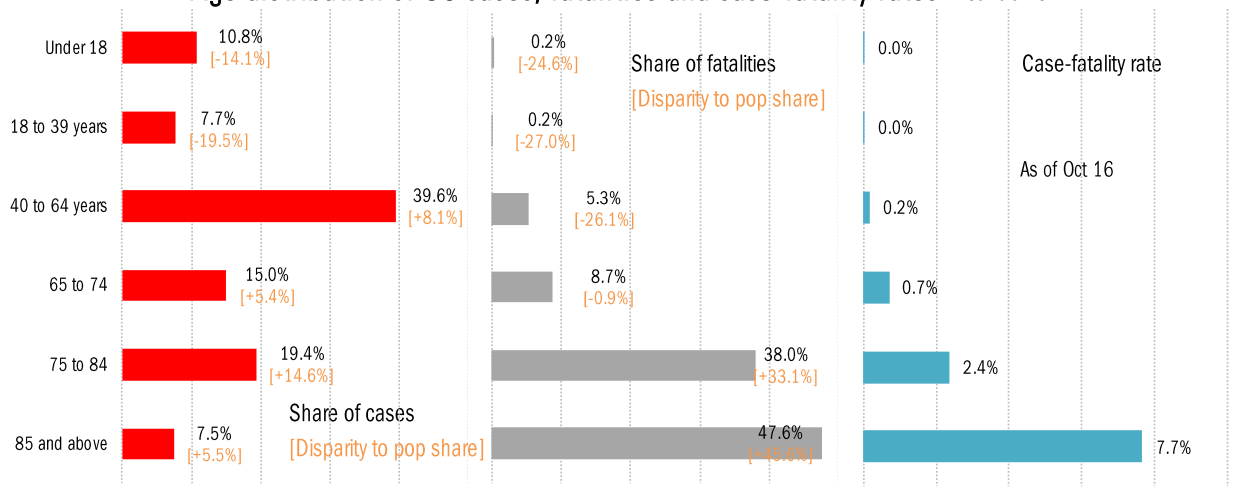
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

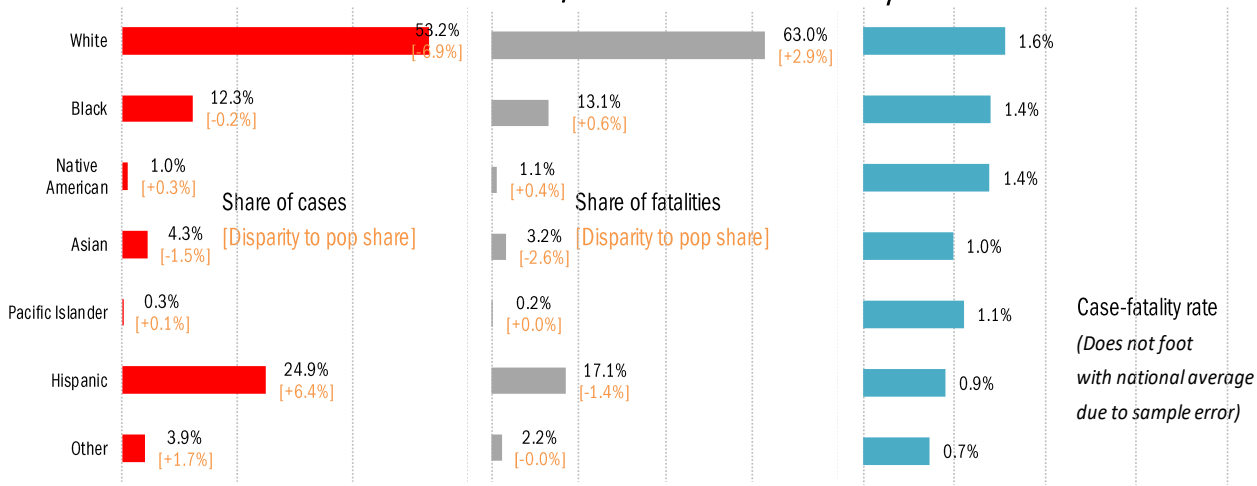
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



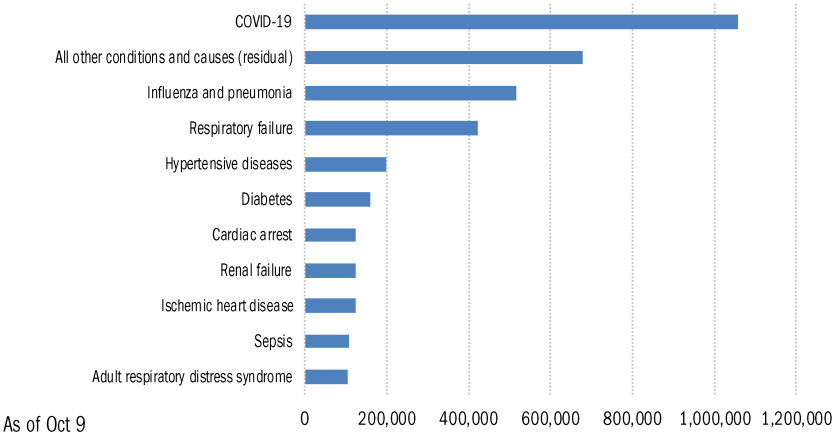
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 9

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

[Global development WHO forced to ration vaccine as cholera cases surge worldwide](#)
Lizzy Davies
The Guardian
October 19, 2022

[As Covid Hit, Washington Officials Traded Stocks With Exquisite Timing](#)
Rebecca Ballhaus, Joe Palazzolo, Brody Mullins, Chad Day and John West
Wall Street Journal
October 19, 2022

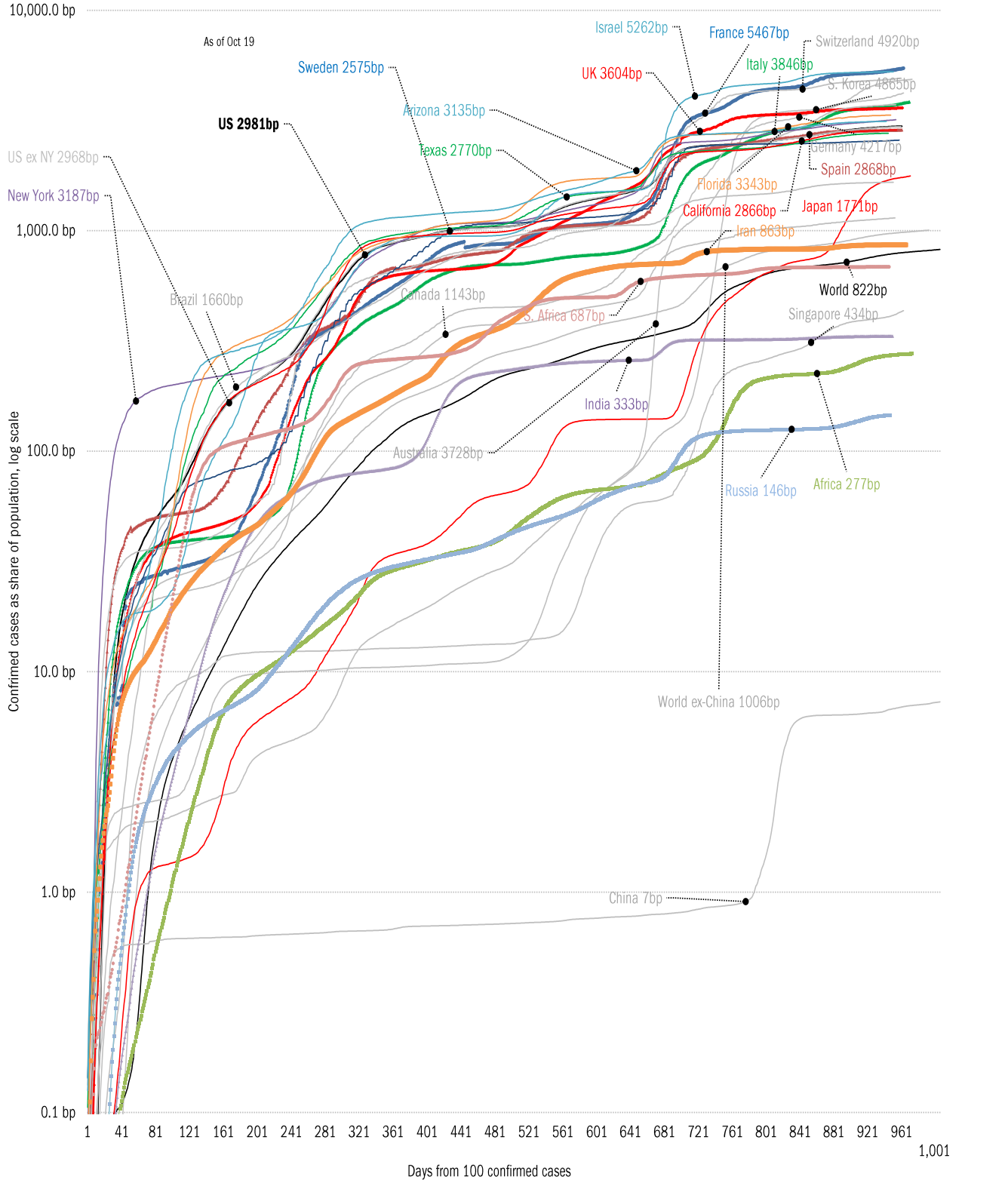
[On the simmering fury in the blue states](#)
Alex Berenson
Unreported Truths
October 19, 2022

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

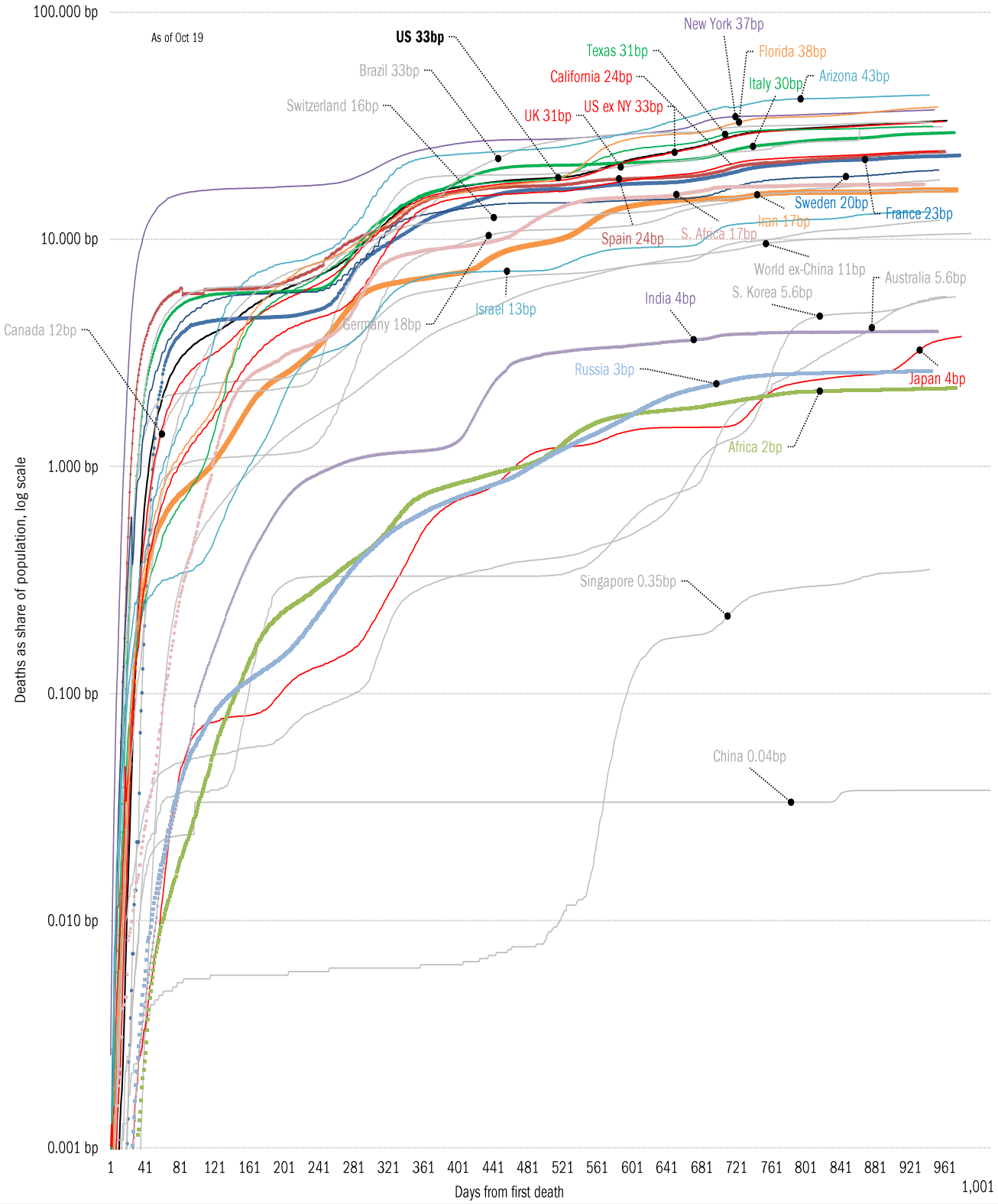
Share of infected population from first day with 100 confirmed cases, log scale



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

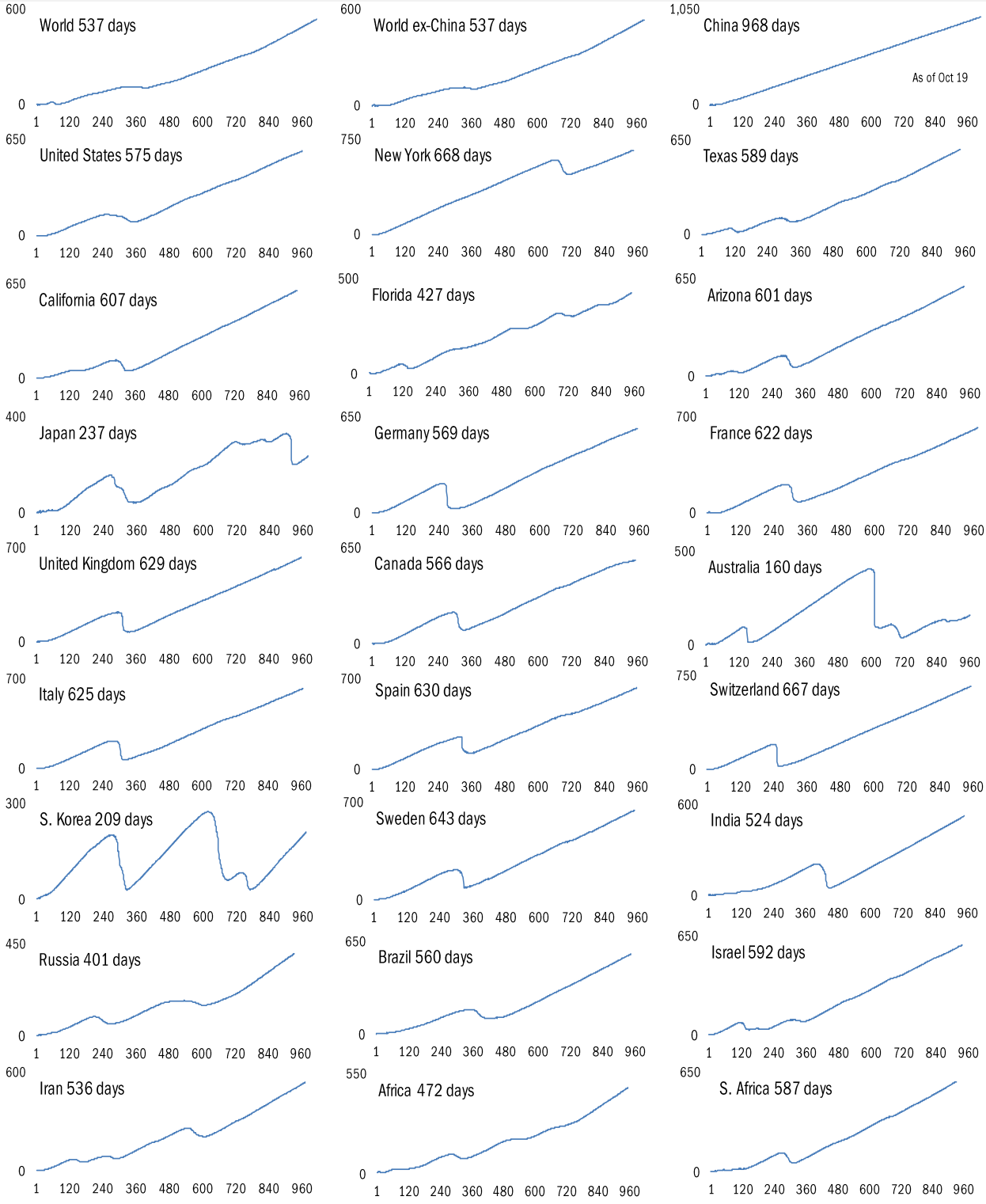


Source: Johns Hopkins, TrendMacro calculations

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

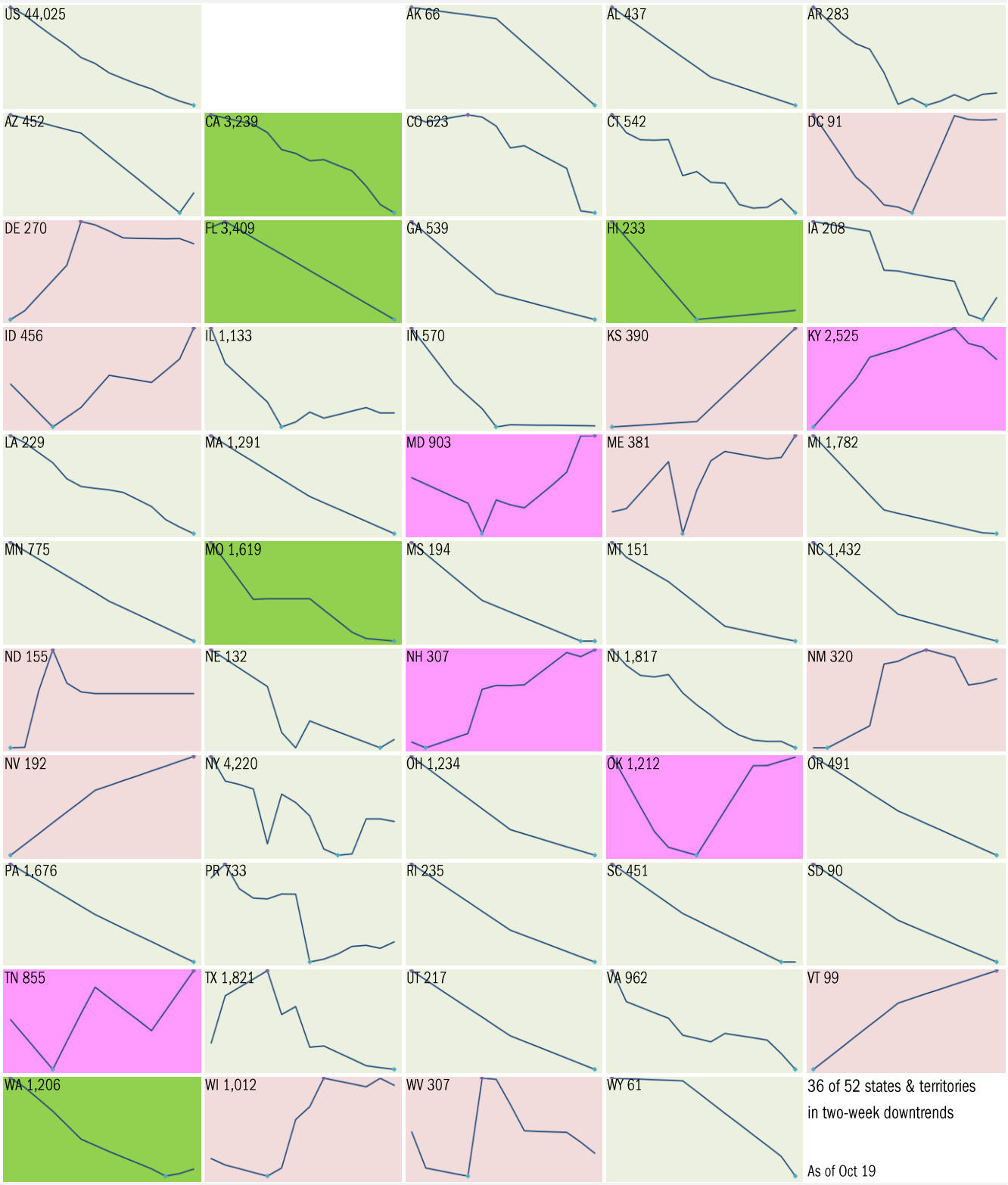


Source: Johns Hopkins, TrendMacro calculations

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

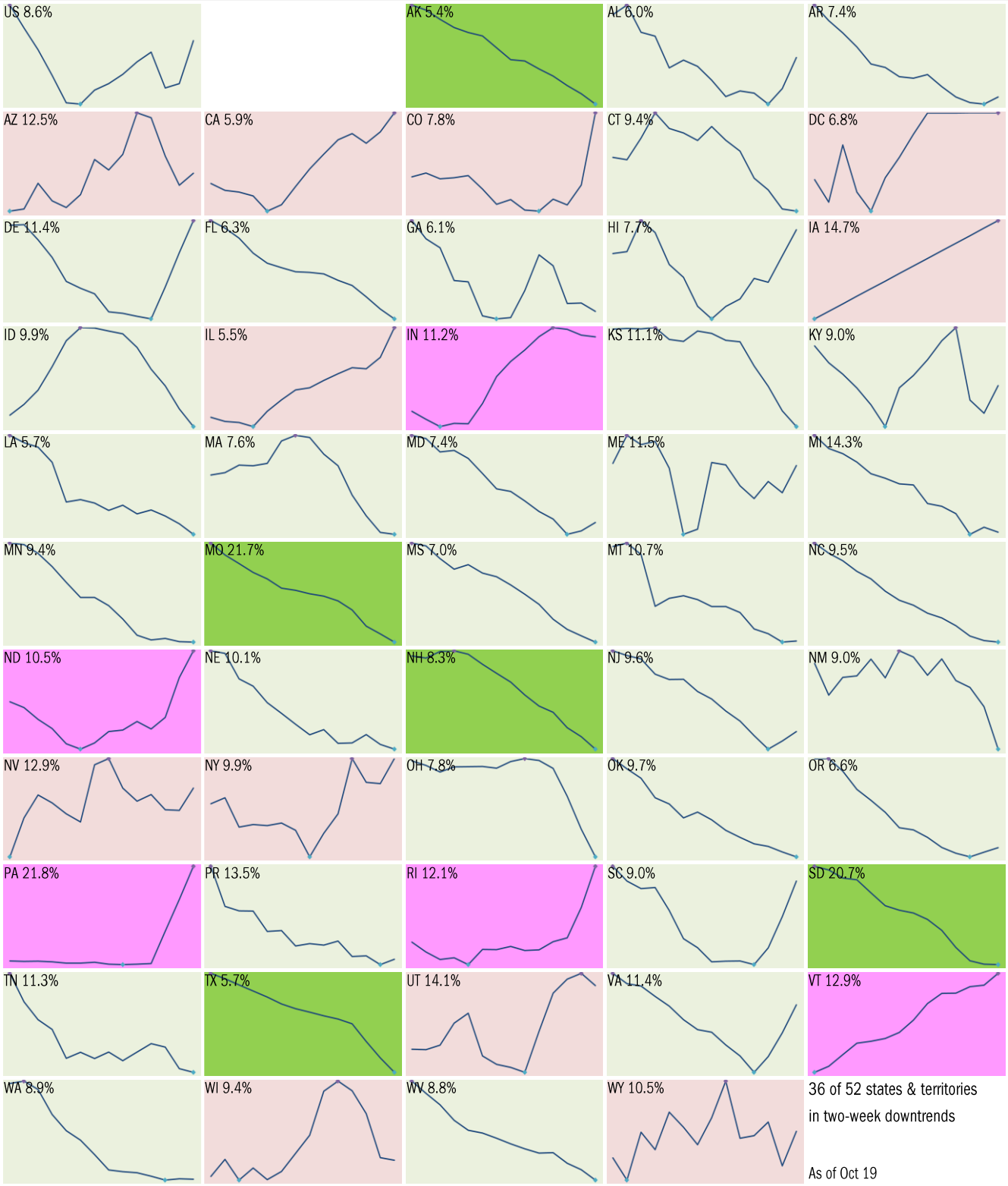


Source: Johns Hopkins, TrendMacro calculations

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

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

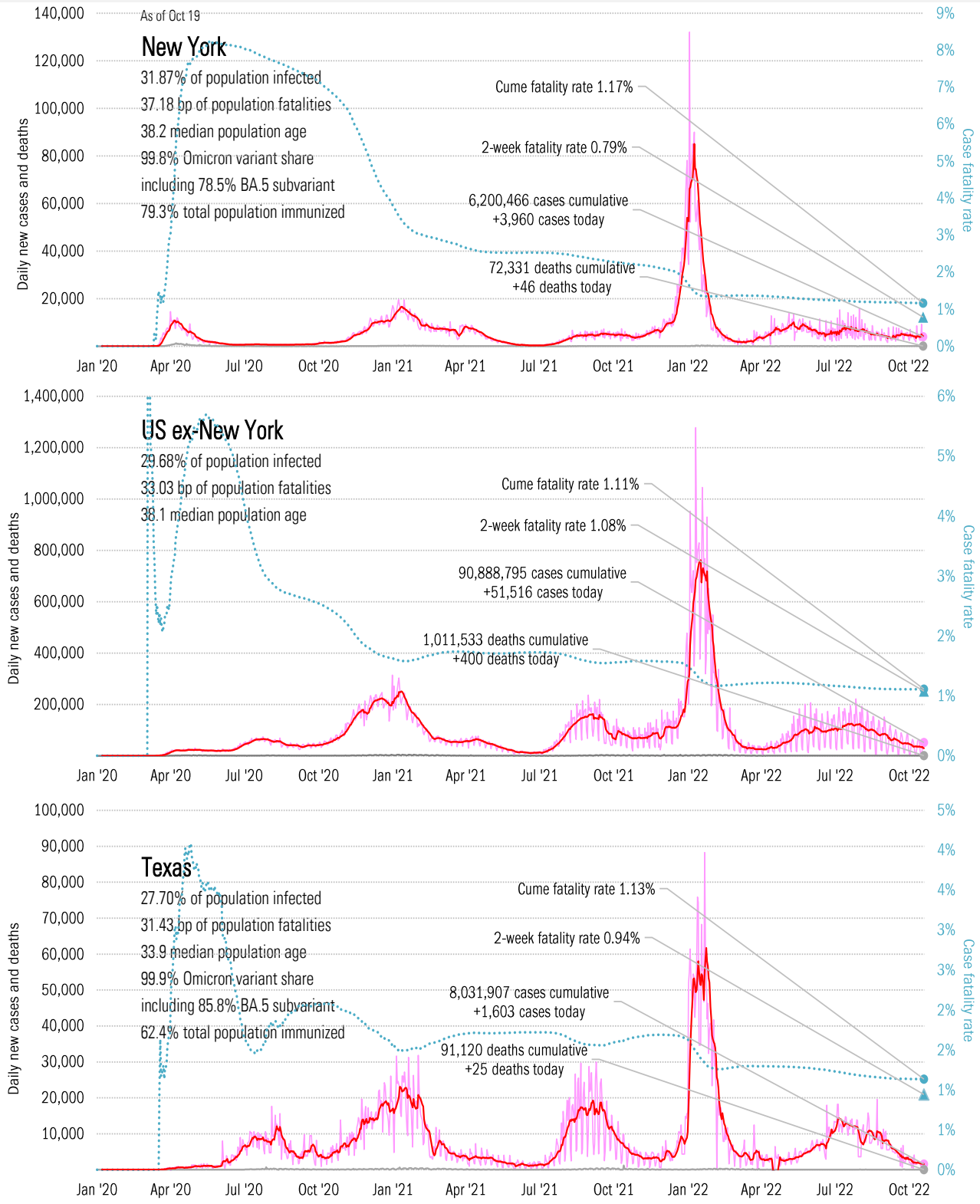
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

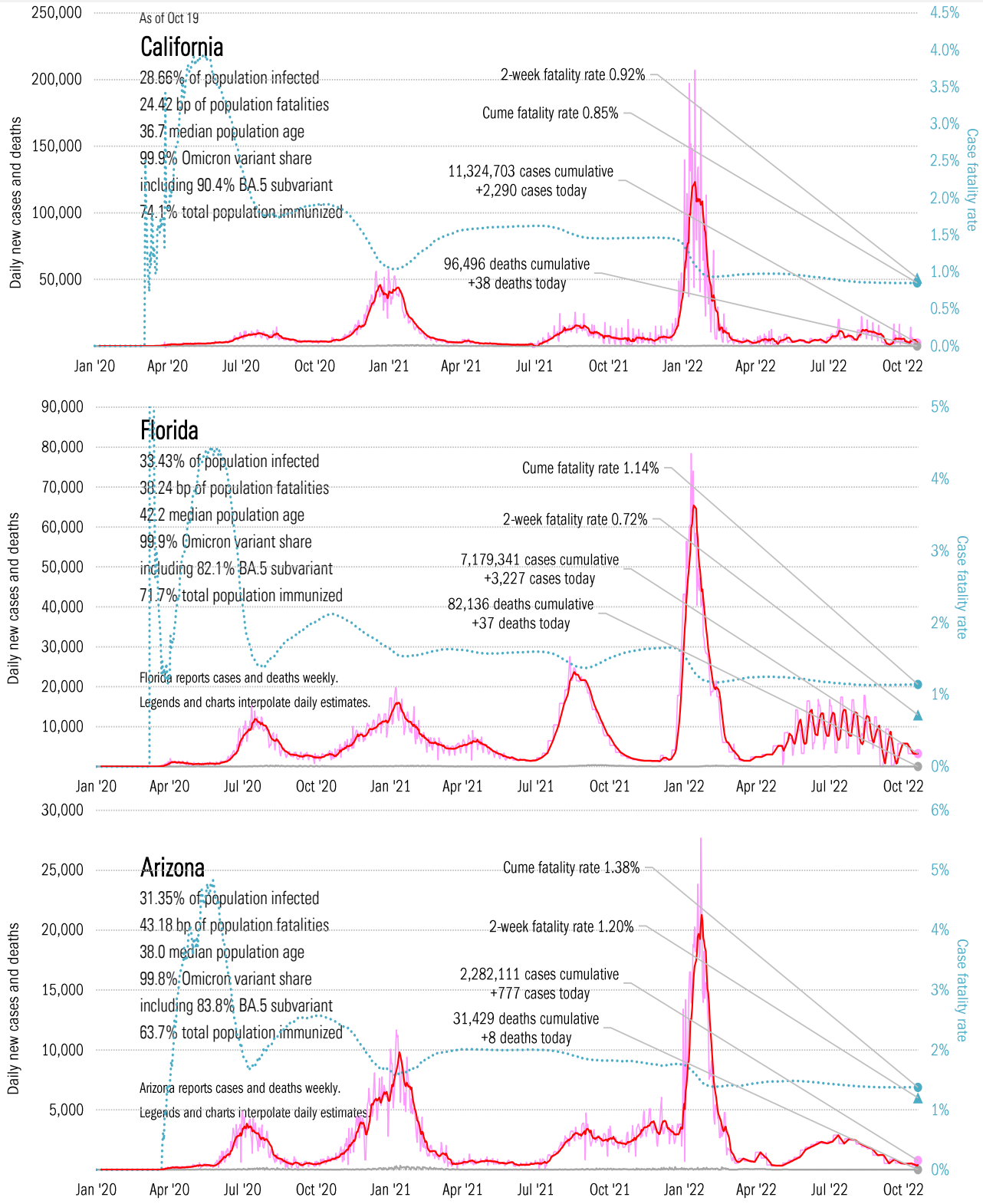
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

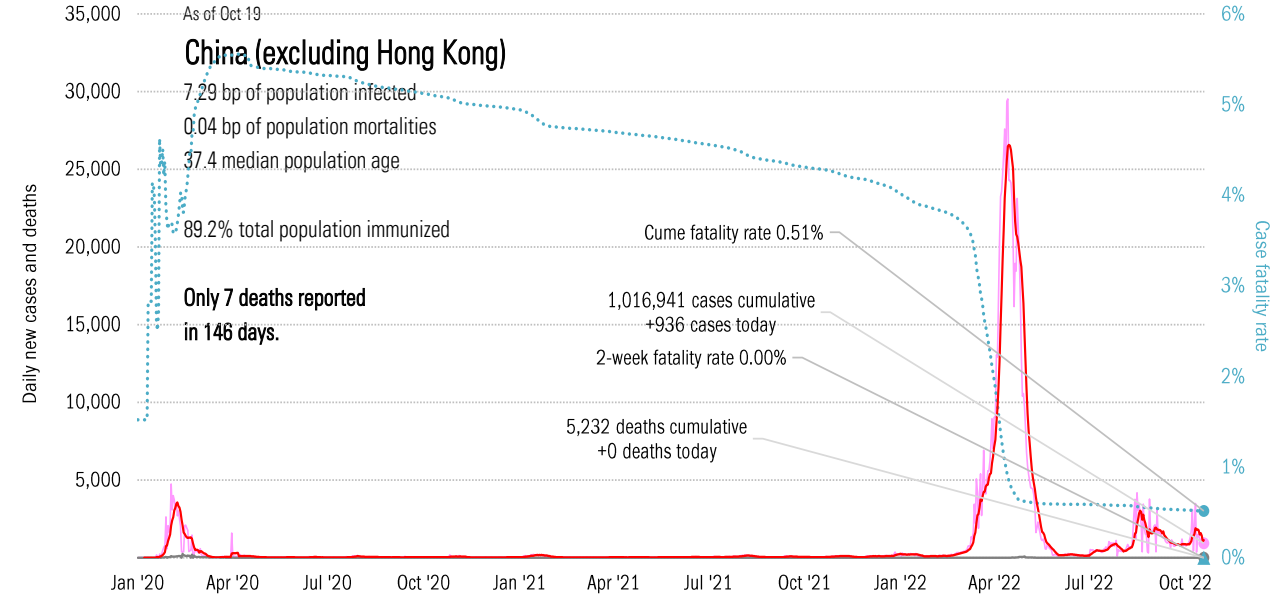
Cases: 7-day average and daily Deaths: Daily

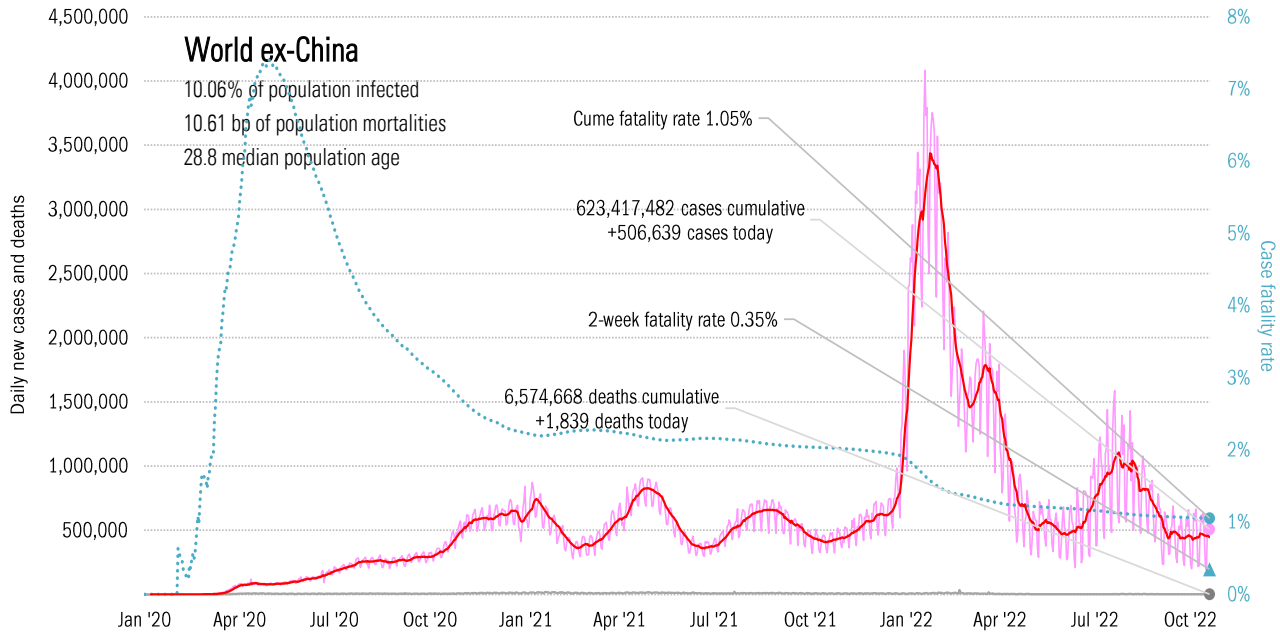


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

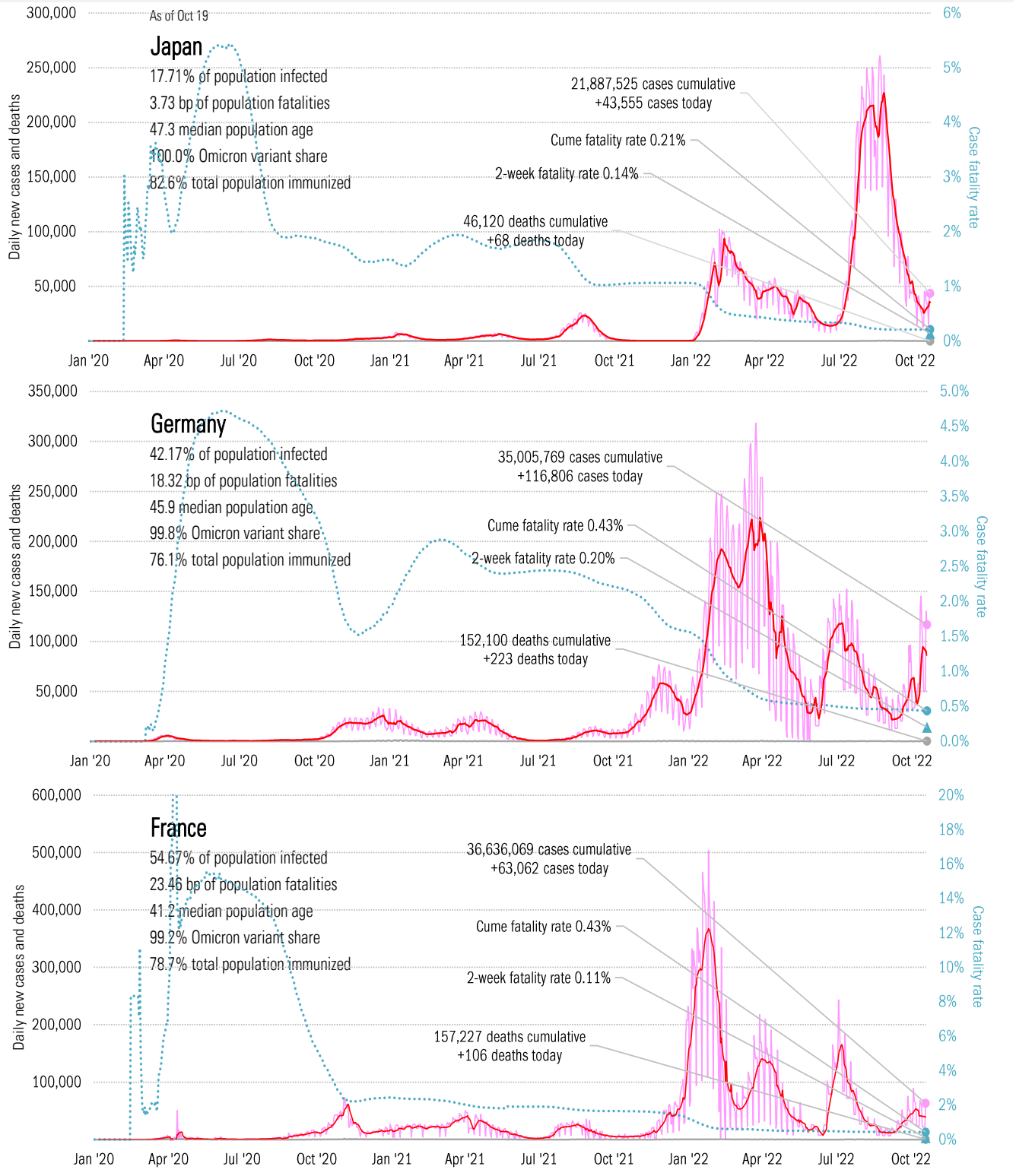




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

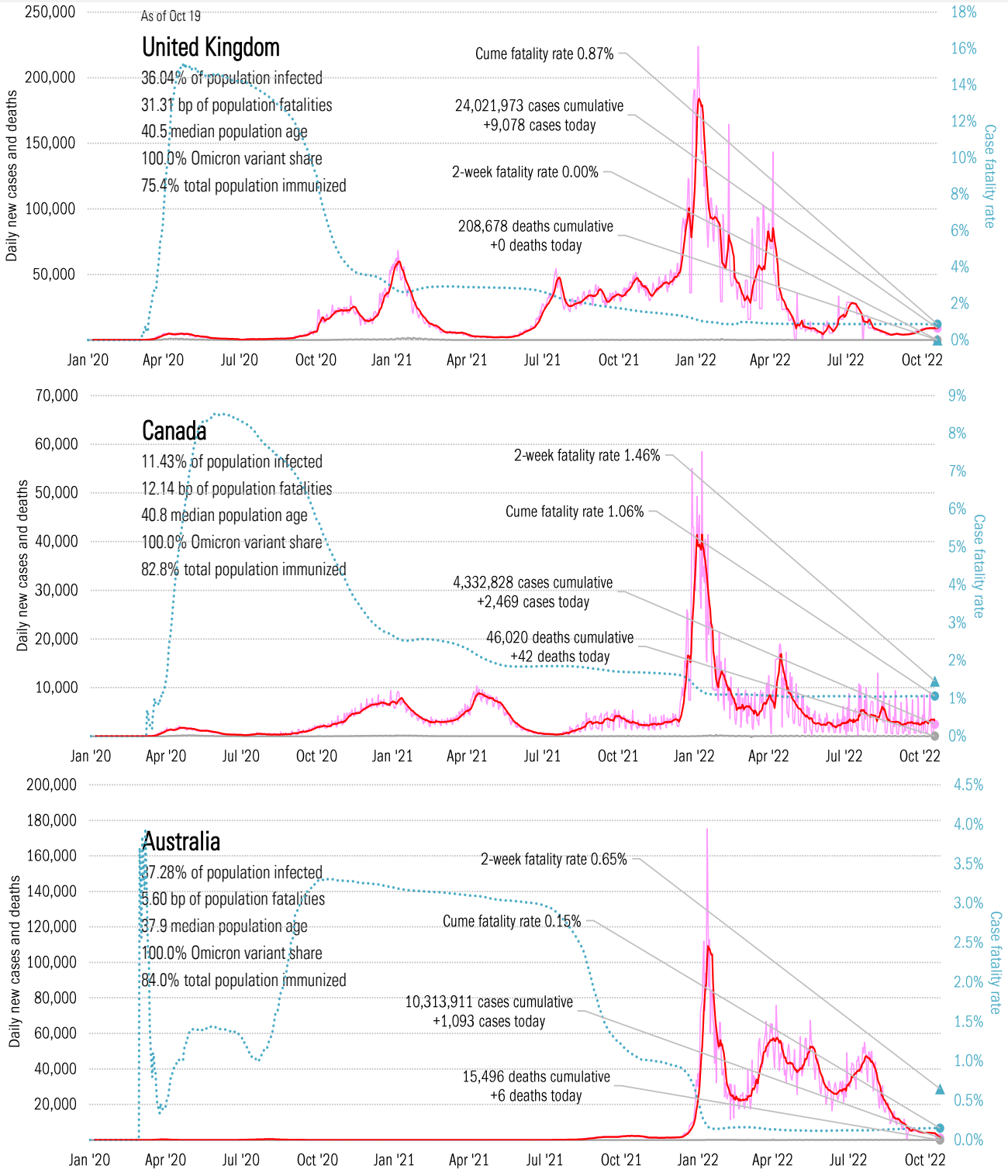
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

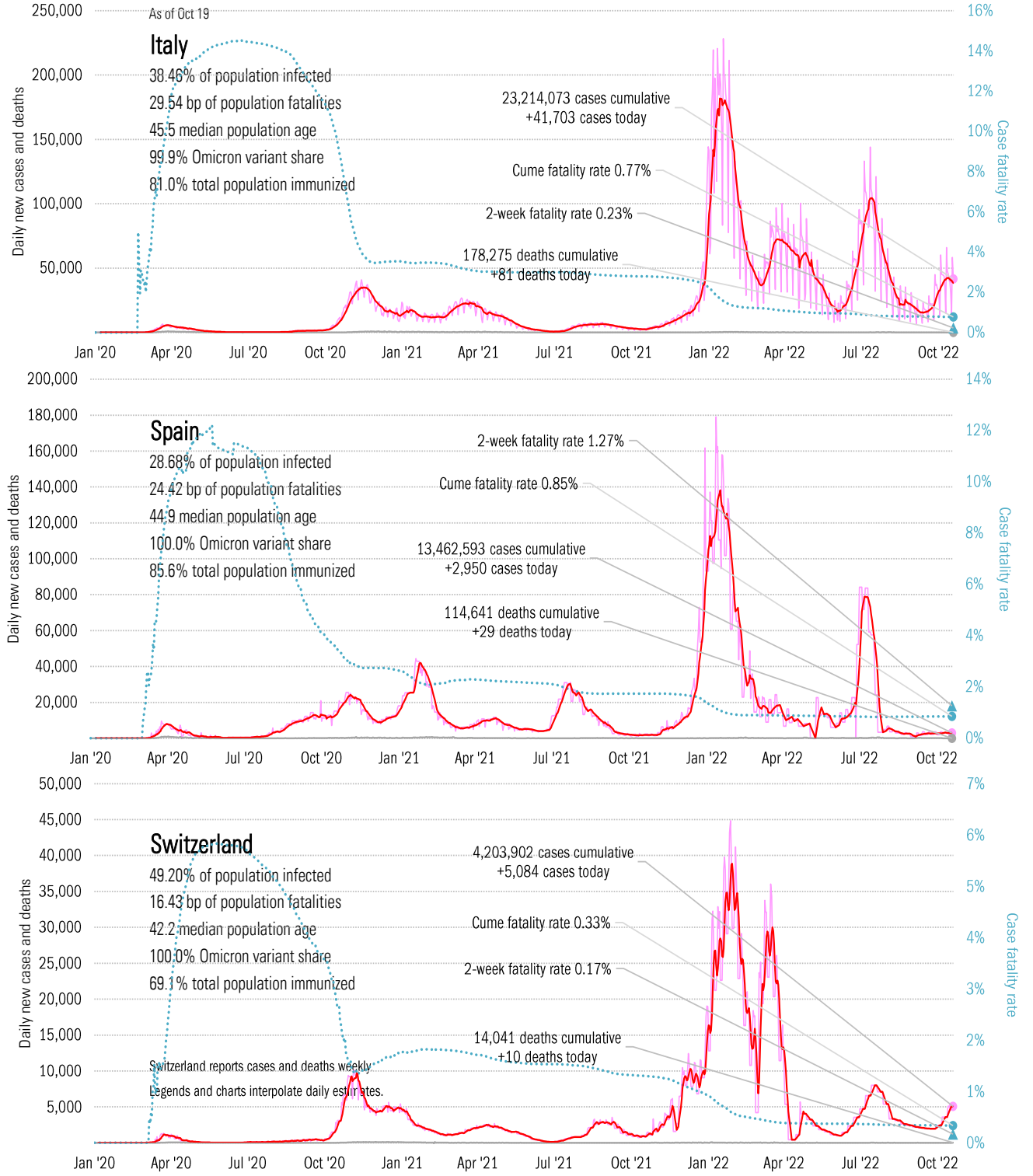
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

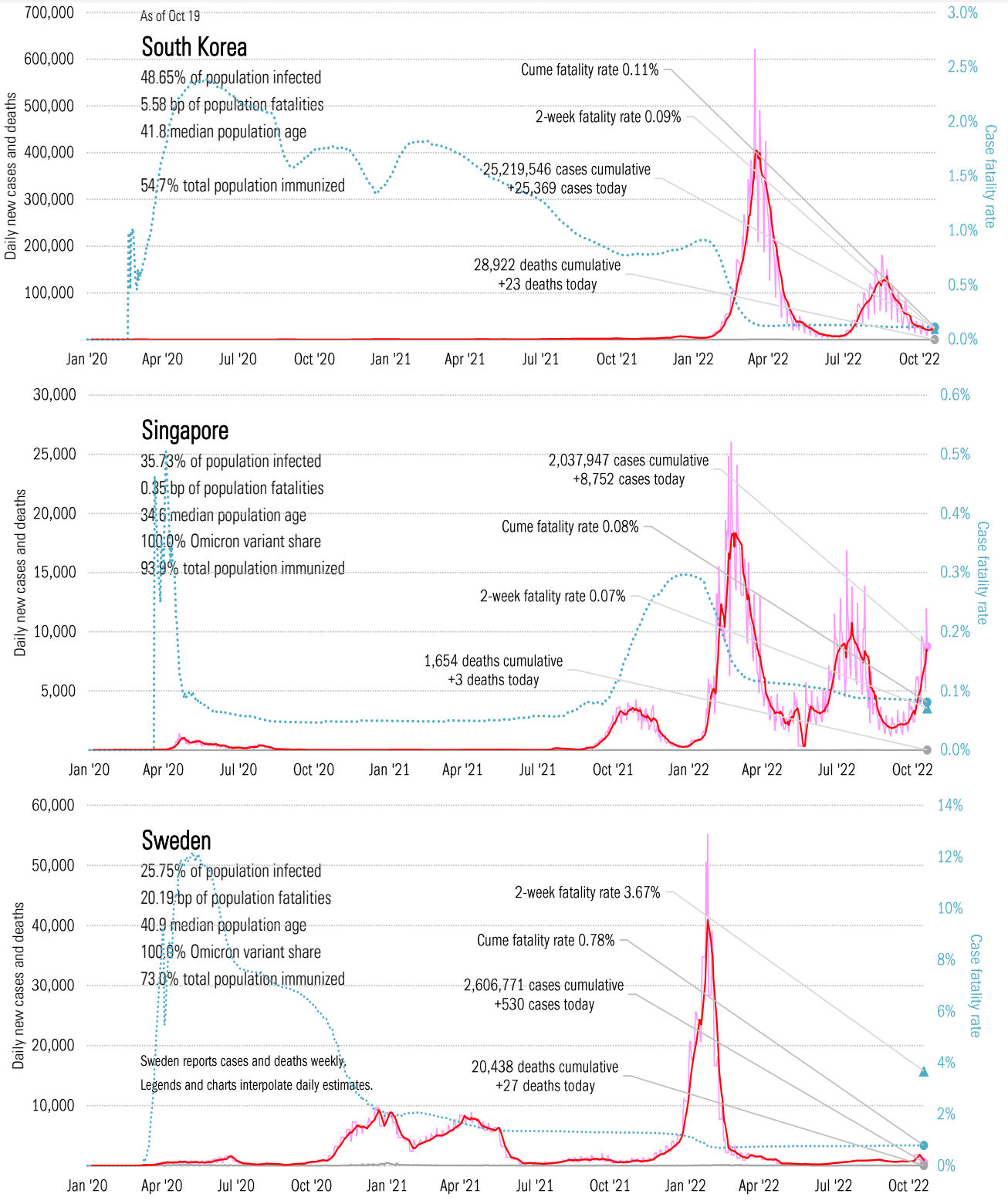
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

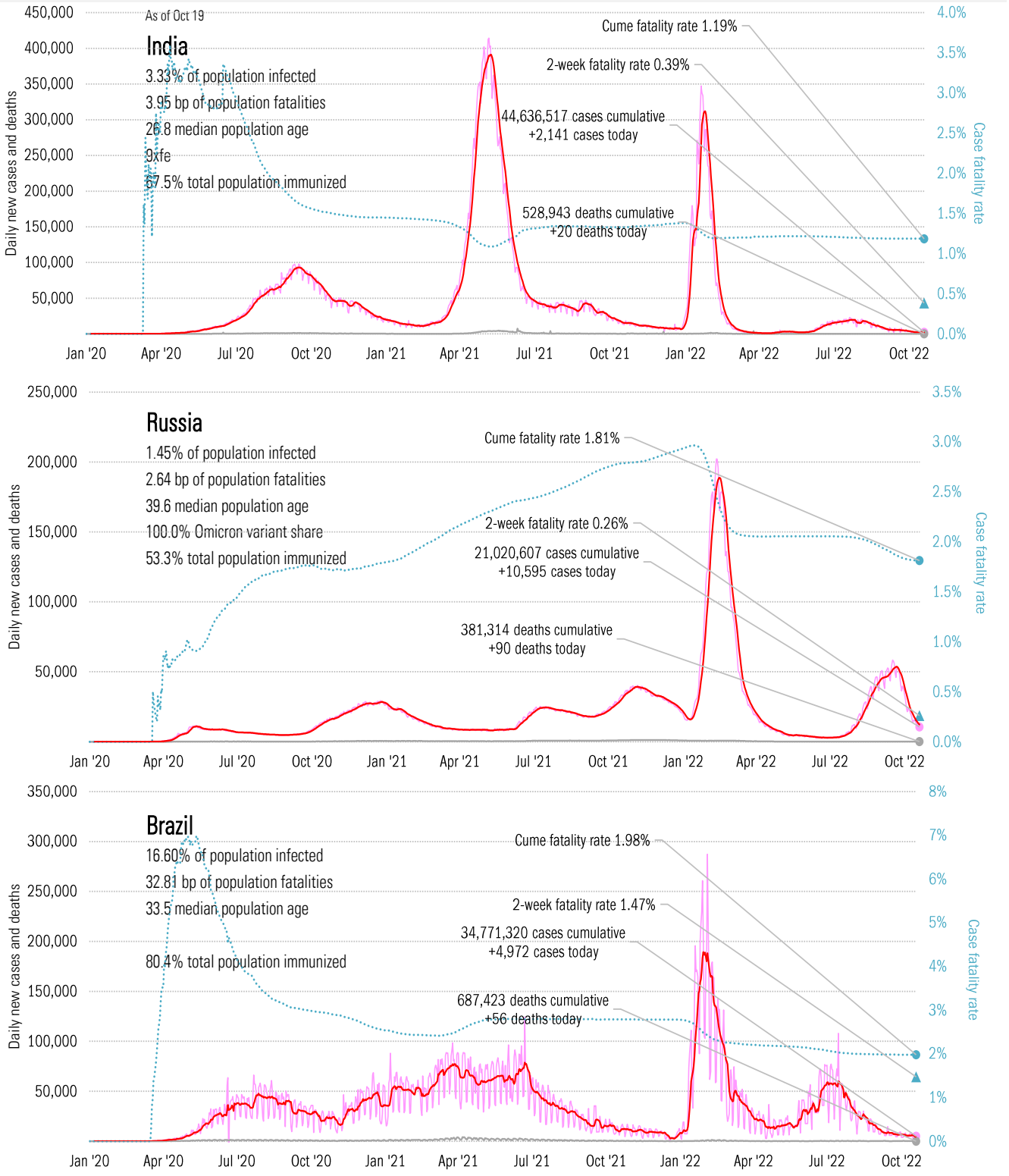
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

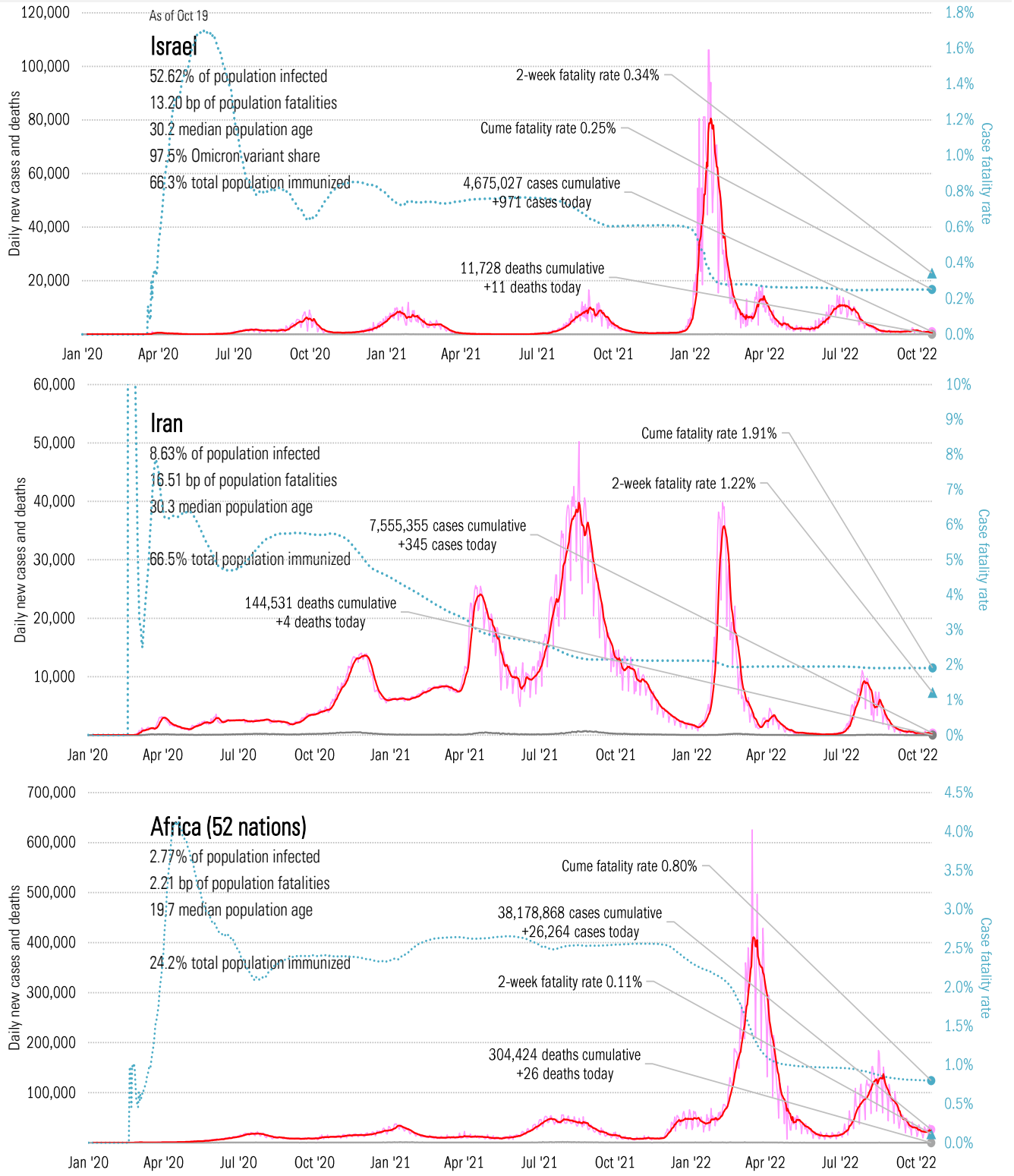
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

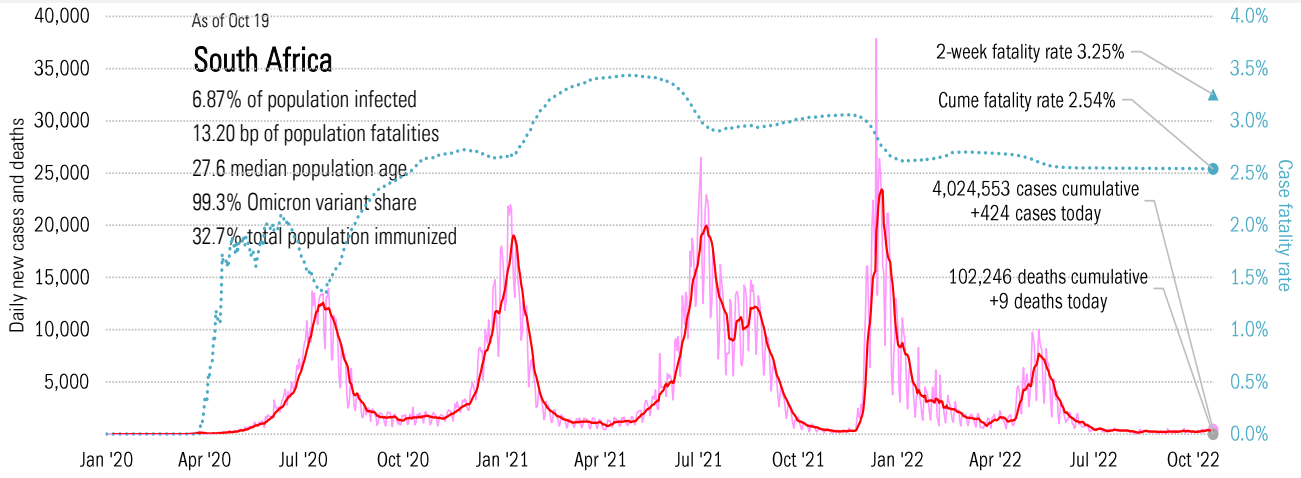
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations