Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

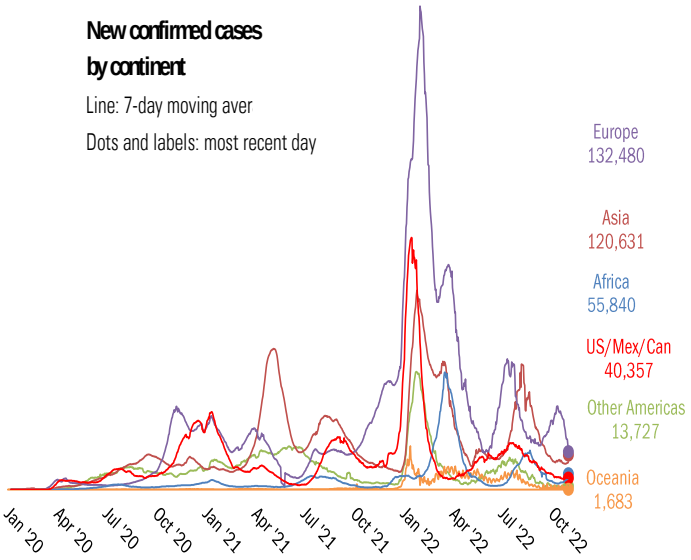
Wednesday, November 2, 2022

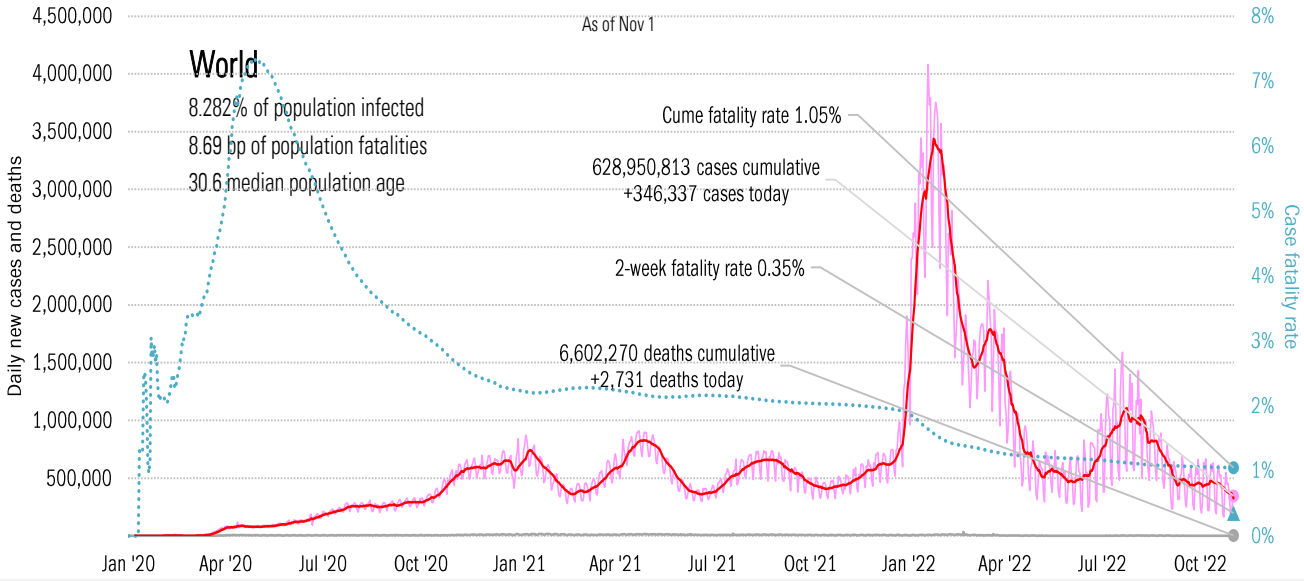
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	65,280	India	1,375
Korea, South	54,740	United States	366
Greece	53,690	Greece	176
United States	36,585	Germany	120
Taiwan*	34,243	Russia	70
Germany	29,961	Brazil	62
Switzerland	23,869	Japan	52
Brazil	8,286	Taiwan*	45
Netherlands	5,844	Philippines	35
Singapore	5,652	Indonesia	32
	318,150		2,333
World	346,337	World	2,731
Top ten	92%	Top ten	85%





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

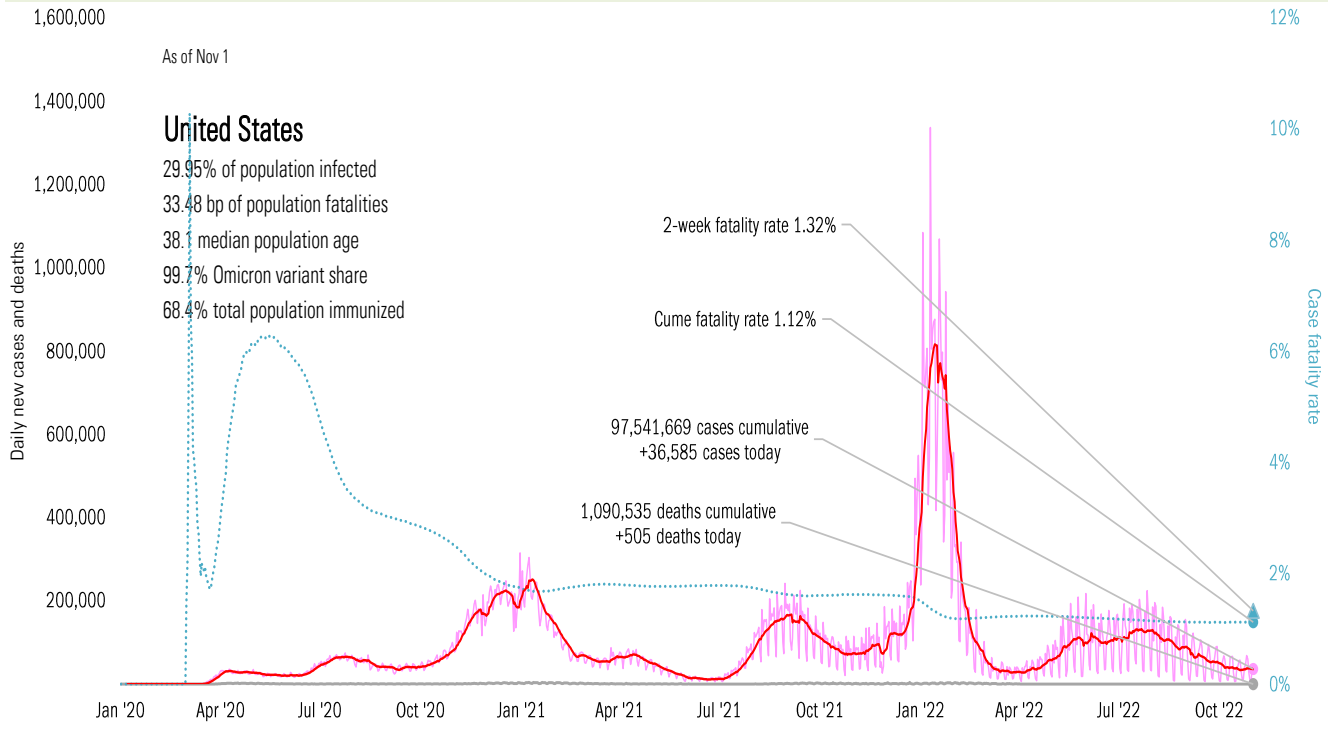
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	3,434	WA	27	GA	100	CA	11,368,939	CA	96,896	TX	550,968	RI	90%	TX	85%
FL	2,865	IL	25	IA	52	TX	8,040,256	TX	91,178	CA	507,980	MA	85%	MA	84%
NC	2,369	MI	22	KY	44	FL	7,199,396	FL	82,354	FL	499,149	WA	83%	AK	84%
IL	1,927	PA	18	NM	22	NY	6,255,597	NY	73,186	NY	310,699	MN	83%	AL	83%
OH	1,666	MO	17	SD	12	IL	3,816,575	PA	47,705	GA	228,110	GA	83%	RI	81%
MI	1,664	WI	17	ID	16	PA	3,305,389	GA	40,626	OH	223,137	MO	82%	NC	80%
KY	1,592	FL	16	NE	21	NC	3,237,440	OH	40,178	PA	209,414	DE	80%	DC	80%
NJ	1,570	CT	15	HI	14	OH	3,185,038	IL	40,022	IL	191,259	AK	80%	WA	80%
MO	1,427	MA	14	ME	11	GA	2,920,663	MI	39,406	MI	166,943	HI	80%	GA	80%
NE	1,390	AR	13	WA	44	MI	2,897,827	NJ	34,911	KY	146,516	WV	80%	NM	78%
	19,904		184		336		52,227,120		586,462		3,034,175				
All states	36,585		366		2,862	All states	97,541,669		1,090,535		5,508,447	All states	70%		67%
Top ten	54%		50%		12%	Top ten	54%		55%		55%	Median	74%		72%

Some states not reporting

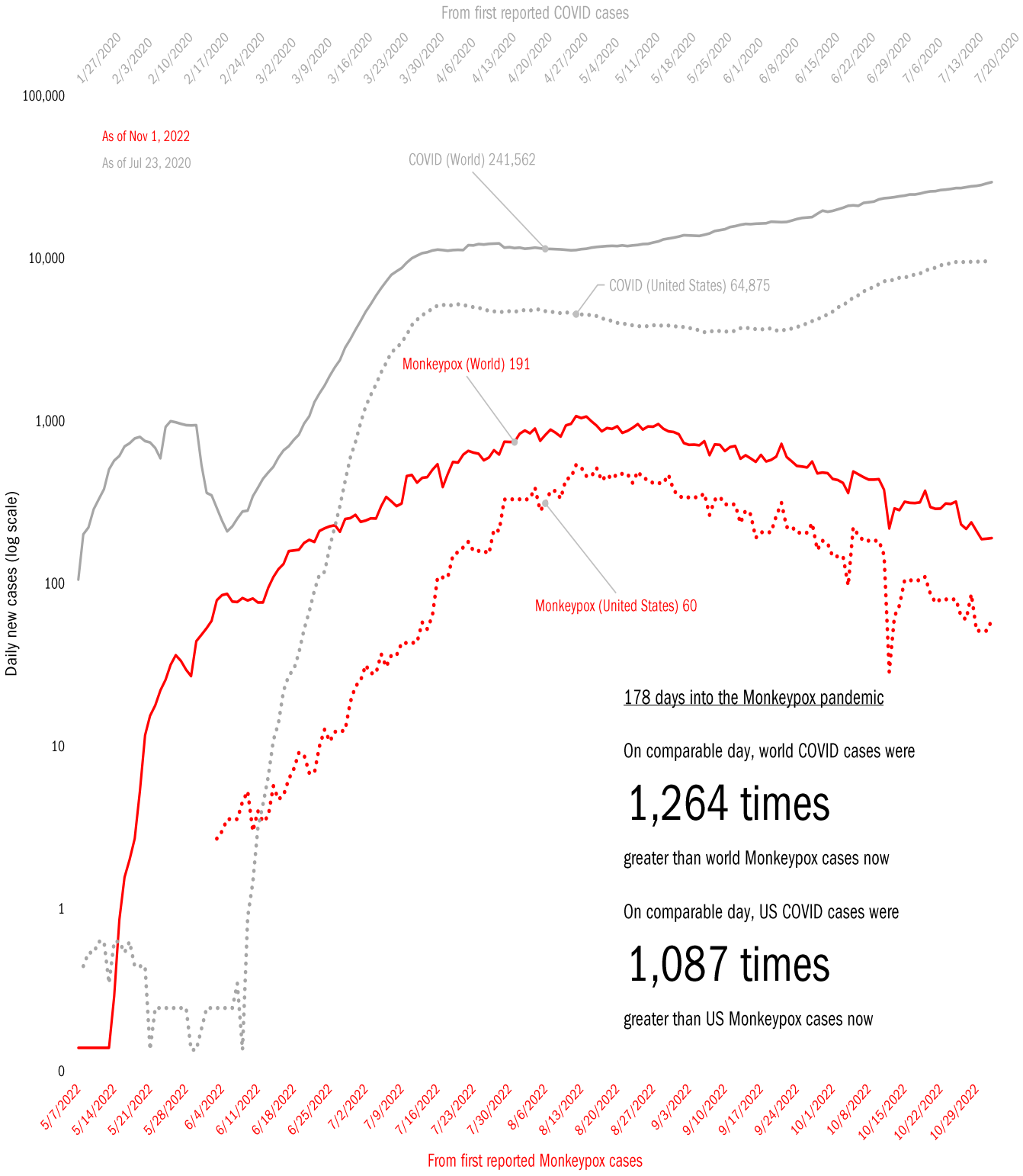
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-4,752	TX	-12	NY	-82
NJ	-1,083	VA	-5	IN	-64
TX	-816	MS	-3	OH	-64
CA	-563	NH	-3	VA	-58
KS	-274	MT	-1	CT	-53



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

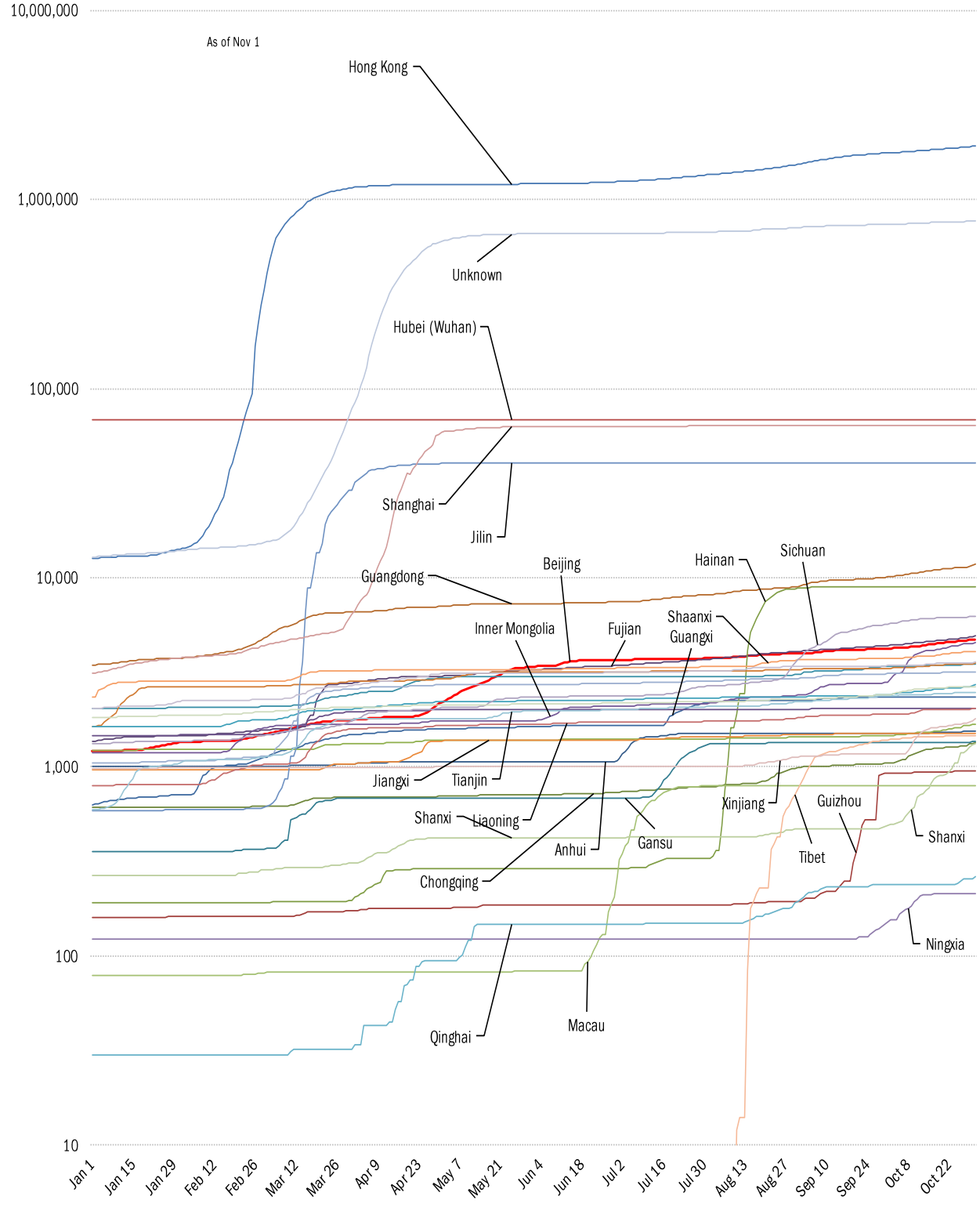
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

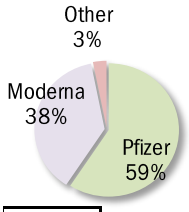
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	648,750,535				+0.738 million
of which boosters	113,645,892				+0.078 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	273,846,111	82%	233,314,181	70%	+0.058 million
Age 12 to 17	18,280,111	72%	15,624,127	62%	+0.002 million
Age 18 to 64	182,419,383	90%	155,060,039	76%	+0.029 million
Age 65 and over	60,341,000	100%	52,811,521	96%	+0.016 million

Immunity	Full	Partial
US	68.3%	80.0%
UK	75.5%	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	66.3%	72.3%
Canada	82.9%	88.1%
Japan	82.6%	83.7%
Africa	24.2%	30.1%
India	67.5%	73.0%
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

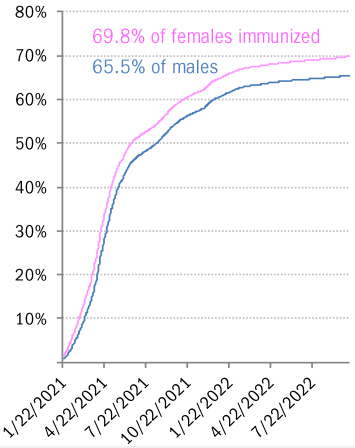
"Immunity" = two doses

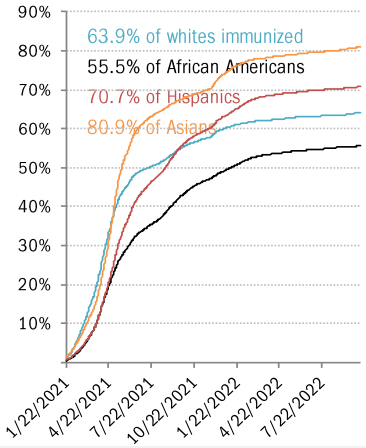
Best
Middle
Worst

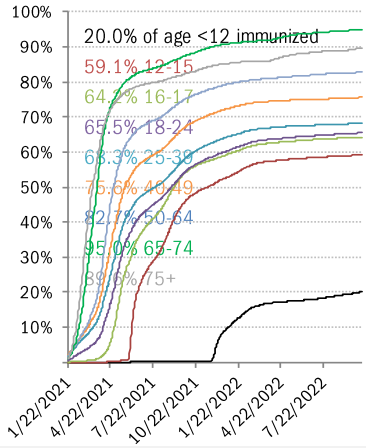
As of Oct 21

					WI					ME
					73.9%					94.6%
					67.3%					82.1%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
83.7%	63.0%	67.2%	68.0%	77.5%	78.1%	68.6%		92.9%	95.0%	84.8%
74.8%	55.7%	58.4%	57.4%	71.0%	70.3%	61.6%		79.4%	83.9%	69.7%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.2%	77.6%	59.8%	81.0%	69.7%	63.6%	64.9%	88.5%	93.2%	95.0%	
71.3%	62.6%	52.3%	64.6%	63.5%	57.2%	59.7%	71.5%	77.9%	82.2%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.2%	74.3%	82.2%	72.3%	68.2%	67.9%	66.7%	88.9%	90.0%	95.0%	95.0%
74.2%	65.9%	72.4%	65.3%	58.0%	58.9%	59.1%	75.4%	78.3%	81.8%	86.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.4%	91.7%	74.9%	68.8%	63.8%	89.2%	69.9%	95.0%	86.3%	
	63.8%	73.7%	64.1%	56.1%	55.8%	65.0%	59.0%	82.1%	71.8%	
			OK	LA	MS	AL	GA			
			73.4%	62.3%	61.1%	64.3%	67.3%			
			59.4%	54.6%	53.3%	52.5%	56.4%			
HI			TX					FL		PR
90.2%			75.0%					81.4%		95.0%
80.5%			62.4%					68.6%		85.9%

The demographics of US vaccination

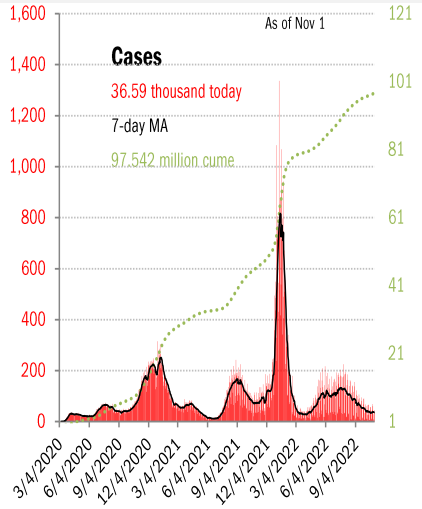


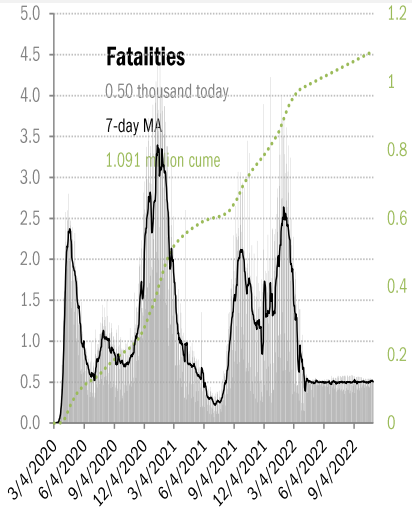


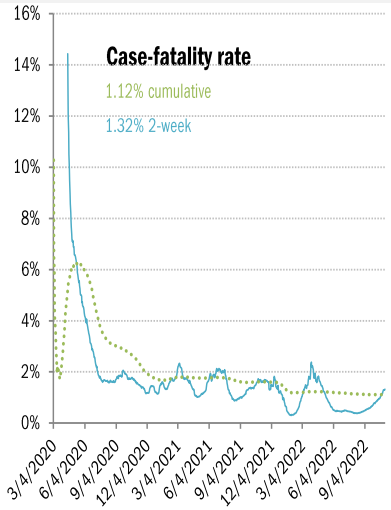


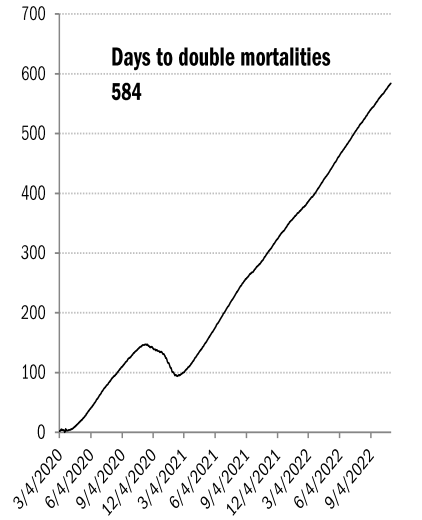
Source: CDC, CDC, Our World in Data, TrendMacro calculations

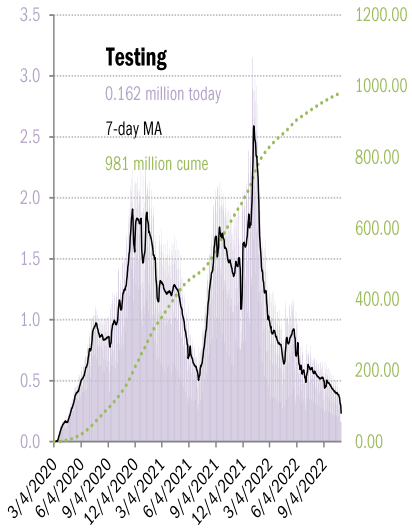
US deep-dive

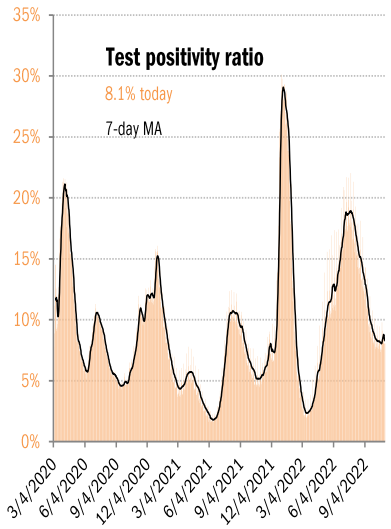


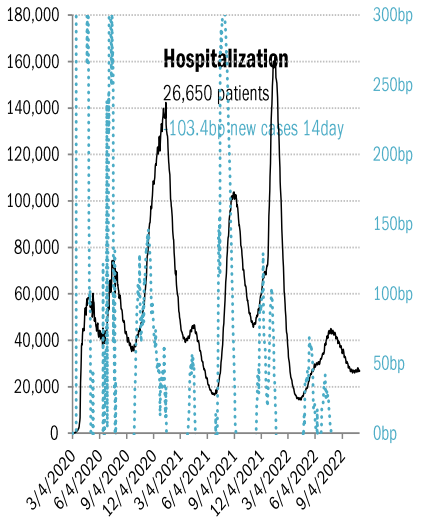


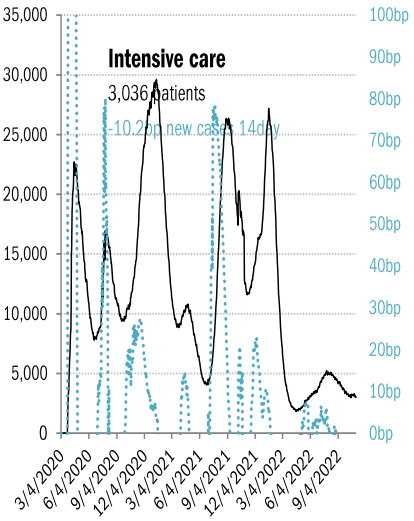


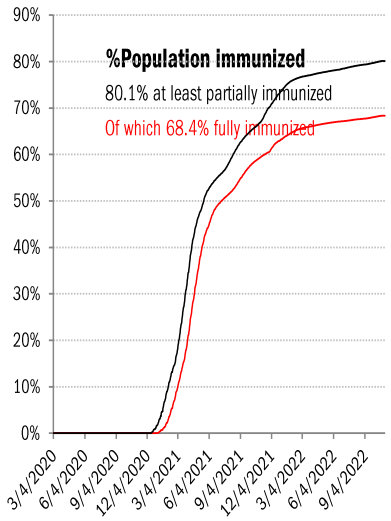












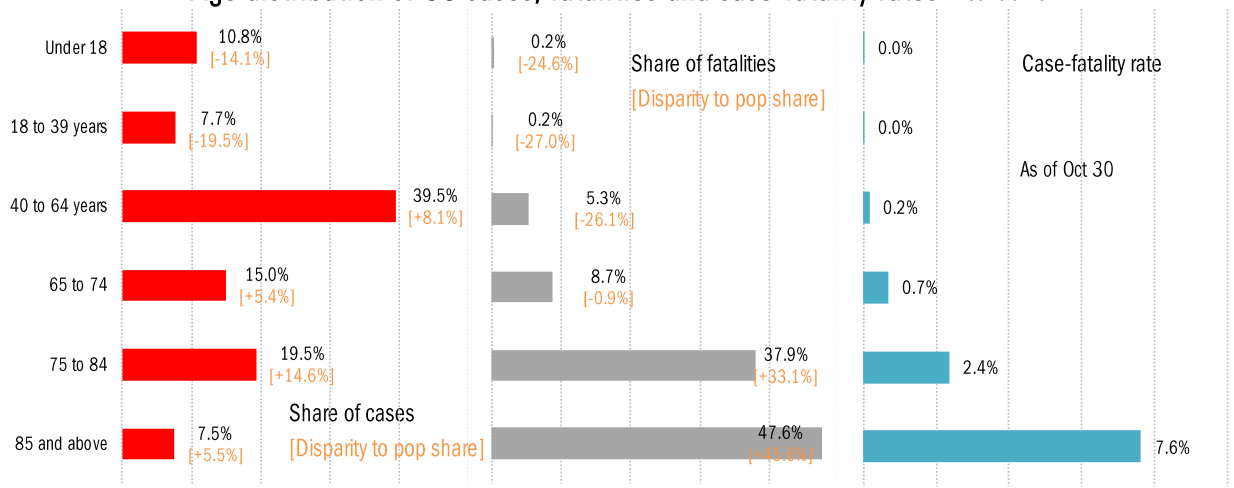
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

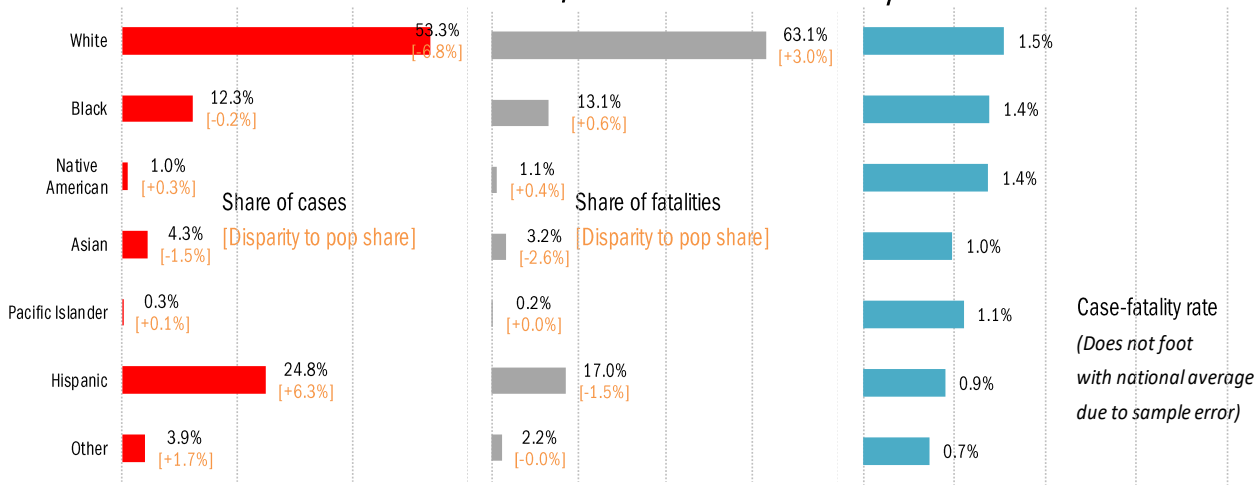
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



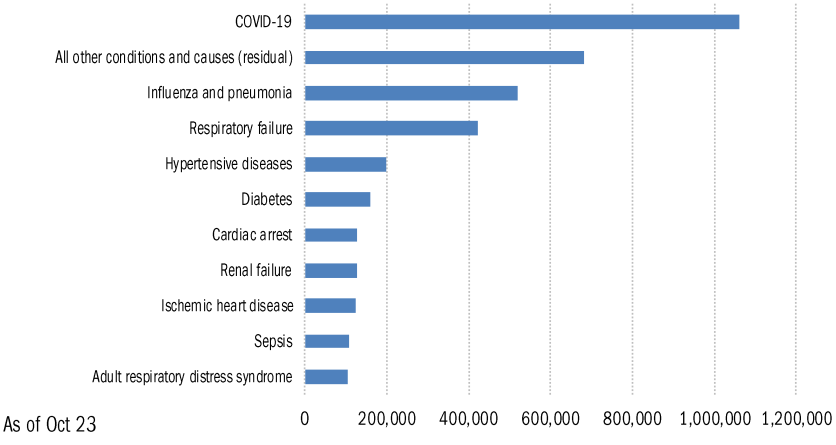
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 23

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

[Shanghai Disney: Visitors unable to leave without negative Covid test as park shuts]
Alex Binley
BBC
October 31, 2022

[Shanghai Disney shuts over COVID, visitors unable to leave]
Brenda Goh and Albee Zhang
Reuters
October 31, 2022

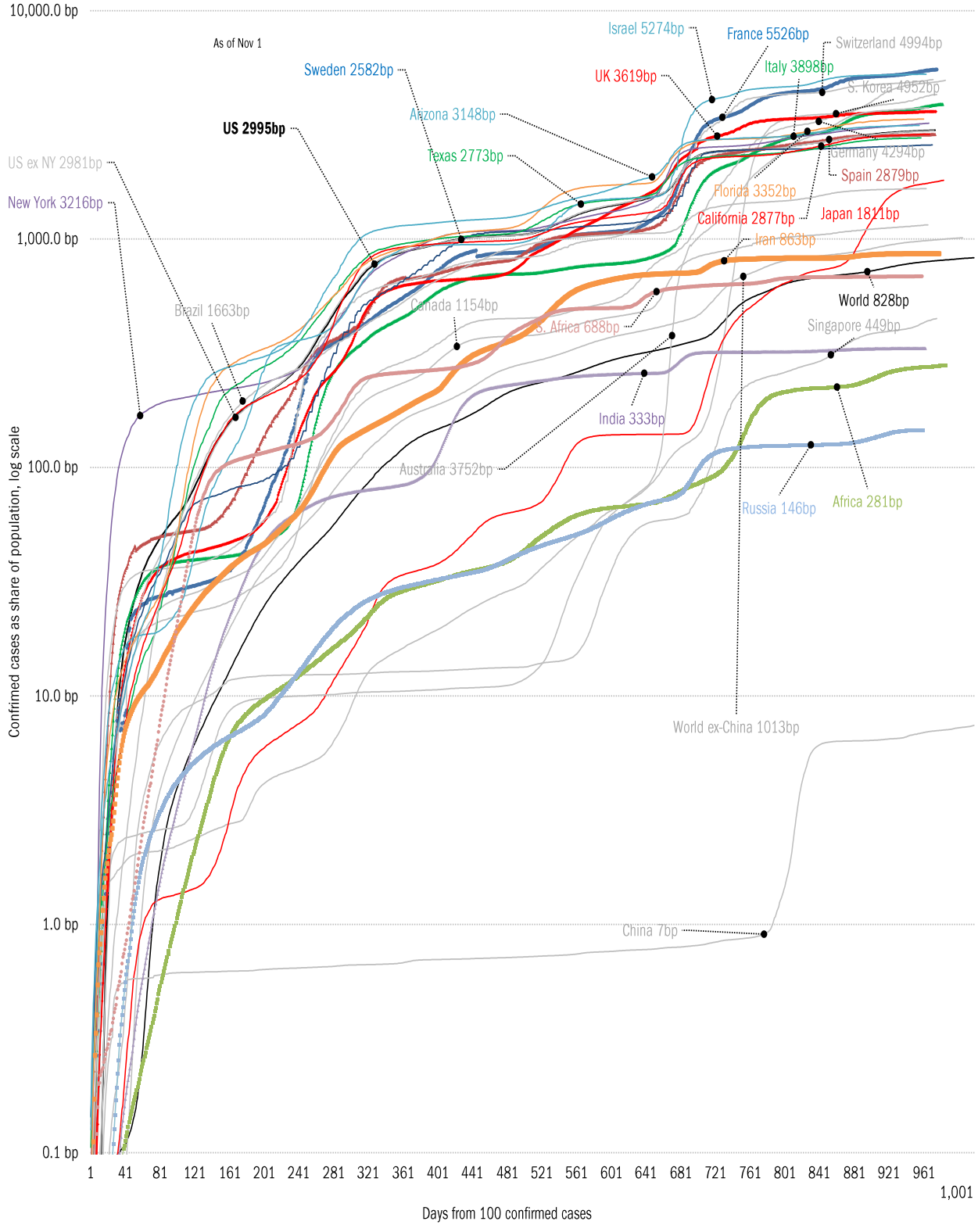
[Apple iPhone maker Foxconn slams 'maliciously edited' video that claims Covid deaths at China plant]
Arjun Kharpal
CNBC
November 1, 2022

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

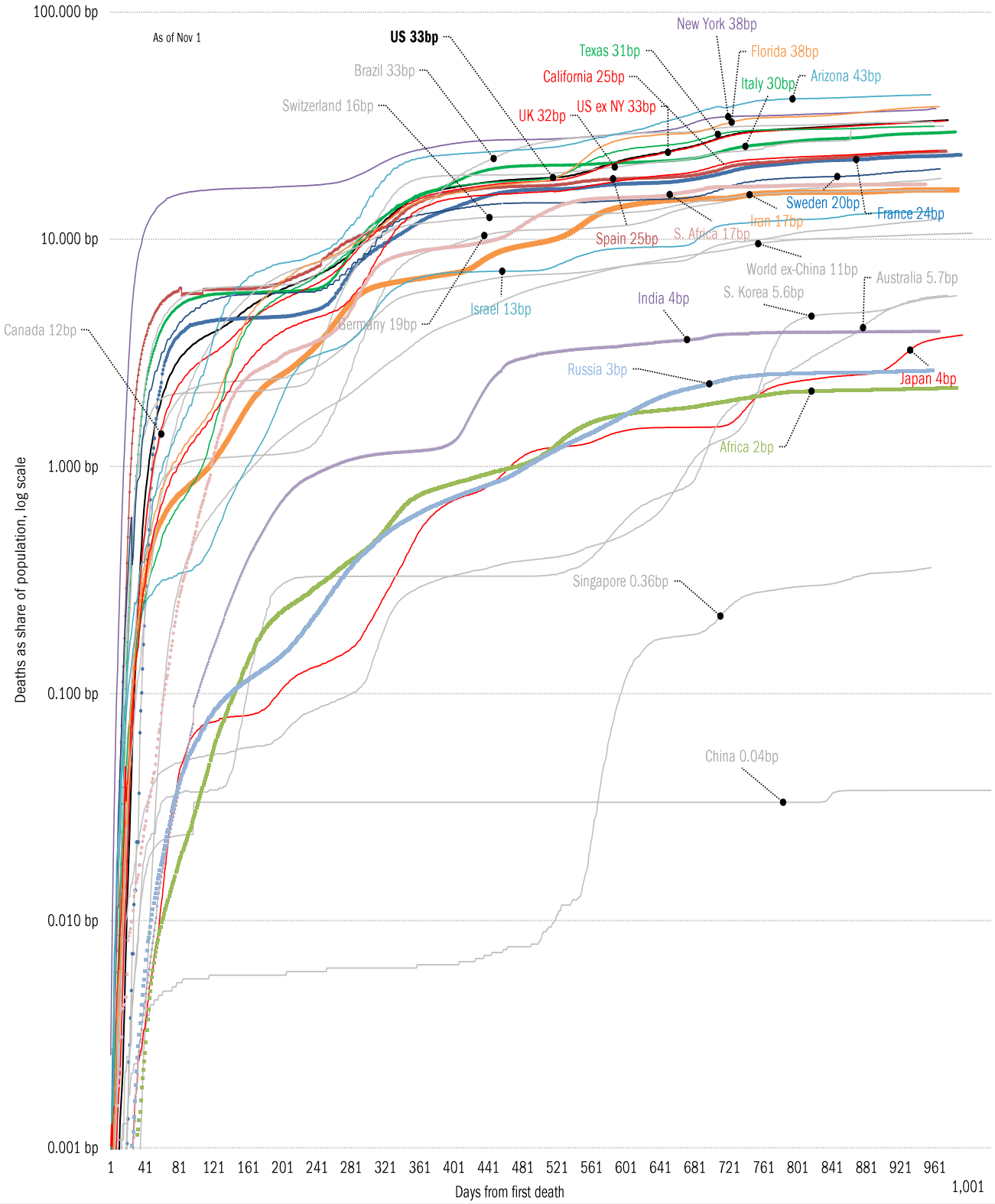
Share of infected population from first day with 100 confirmed cases, log scale



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

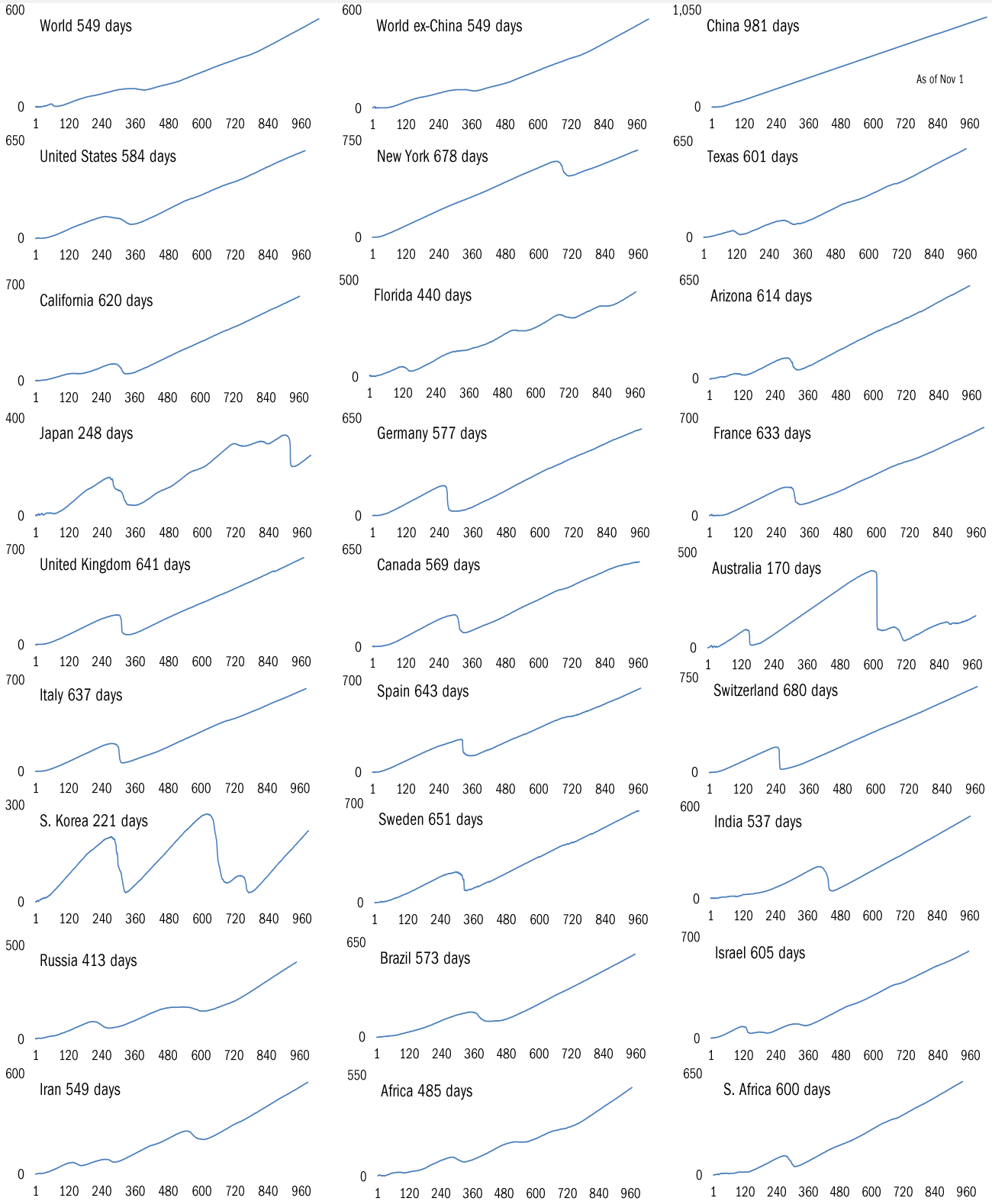


Source: Johns Hopkins, TrendMacro calculations

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

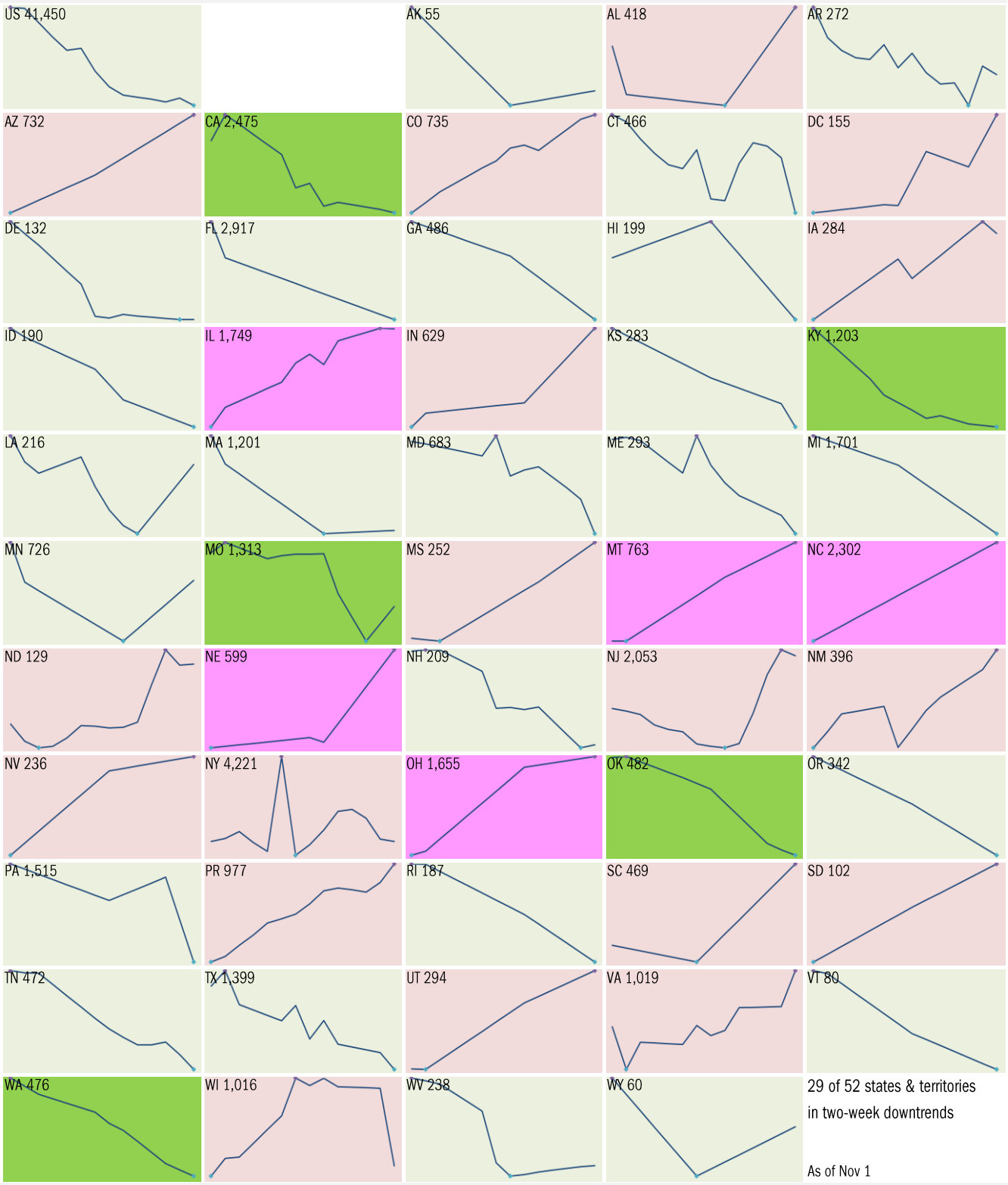


Source: Johns Hopkins, TrendMacro calculations

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

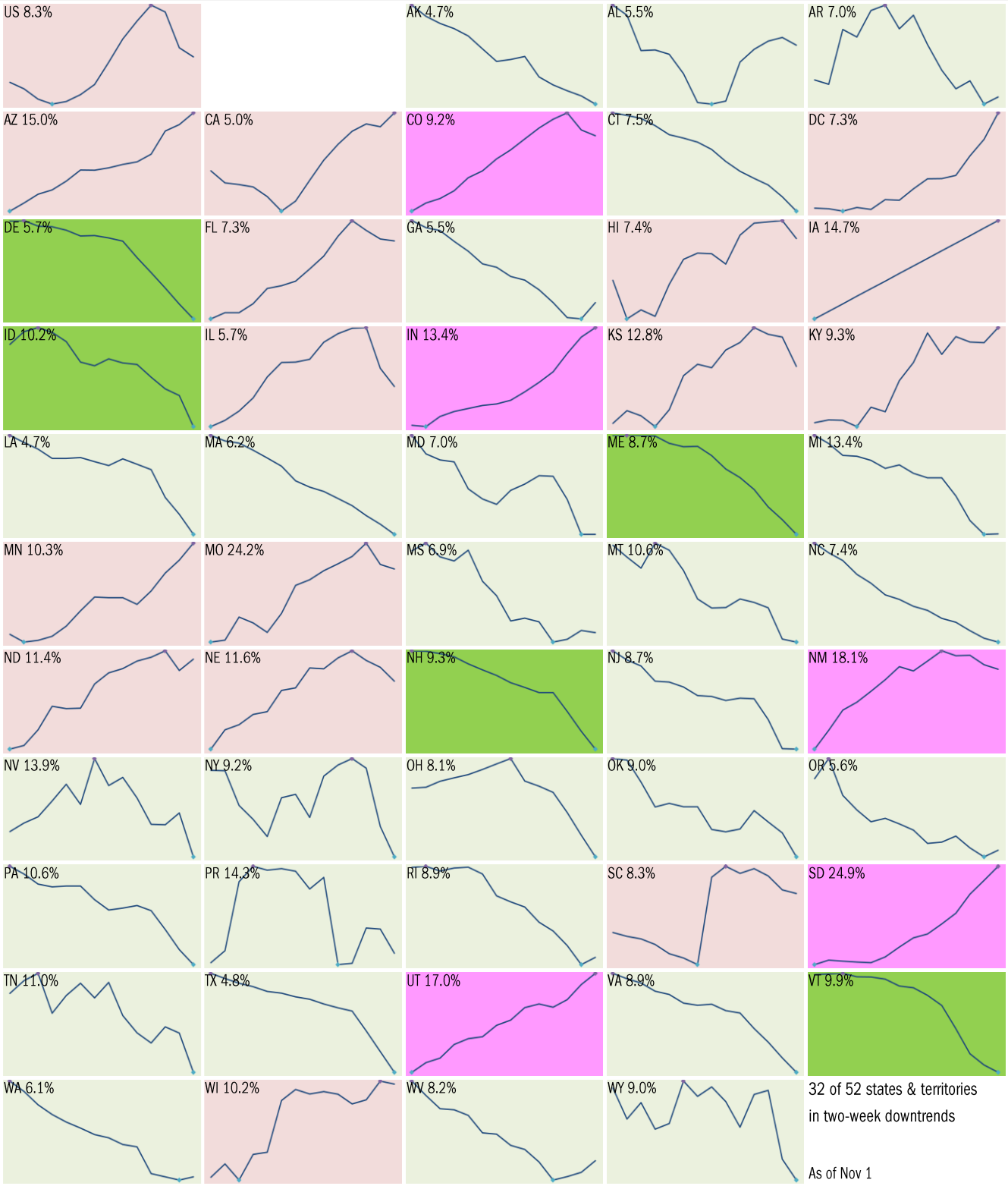


Source: Johns Hopkins, TrendMacro calculations

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

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

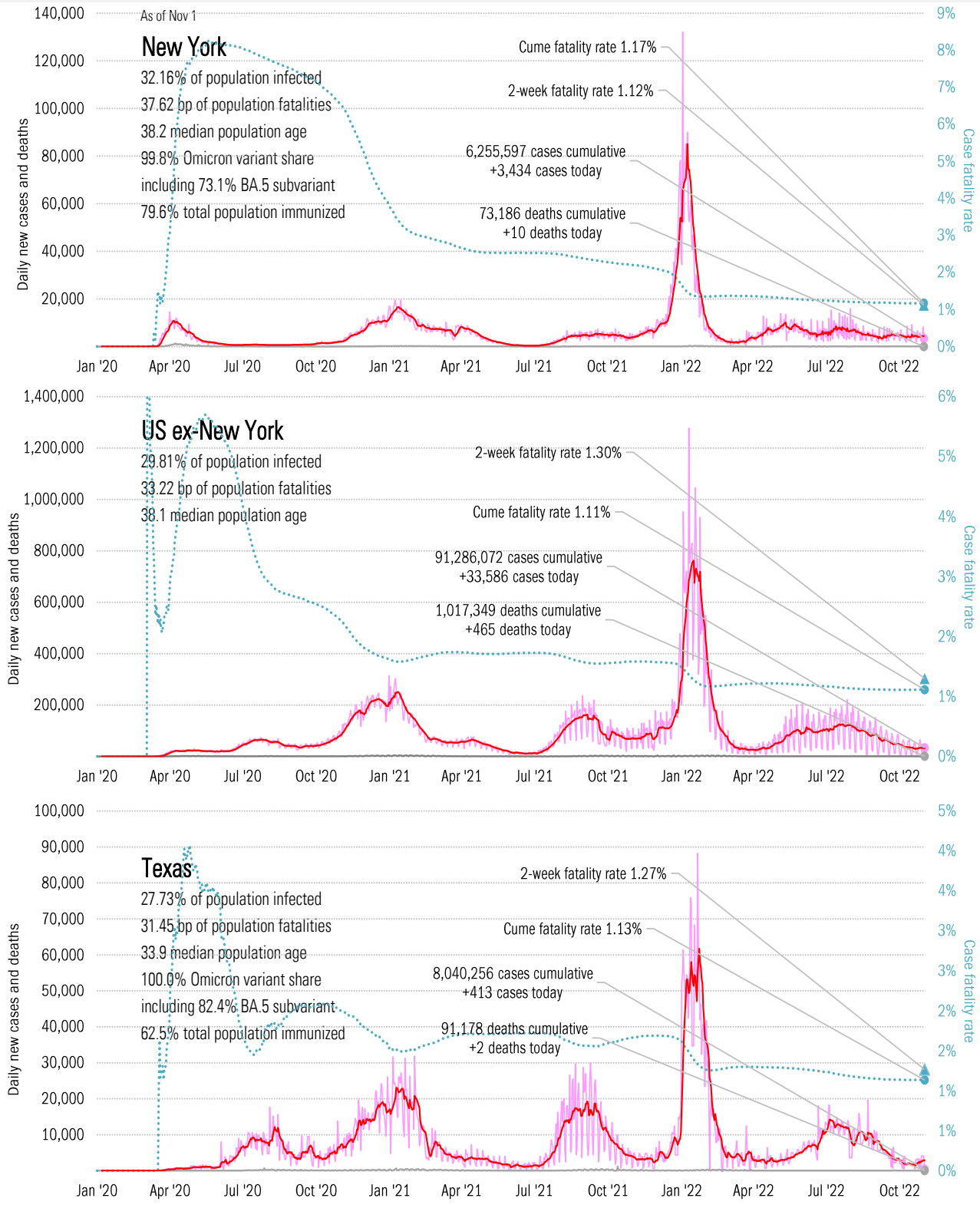
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

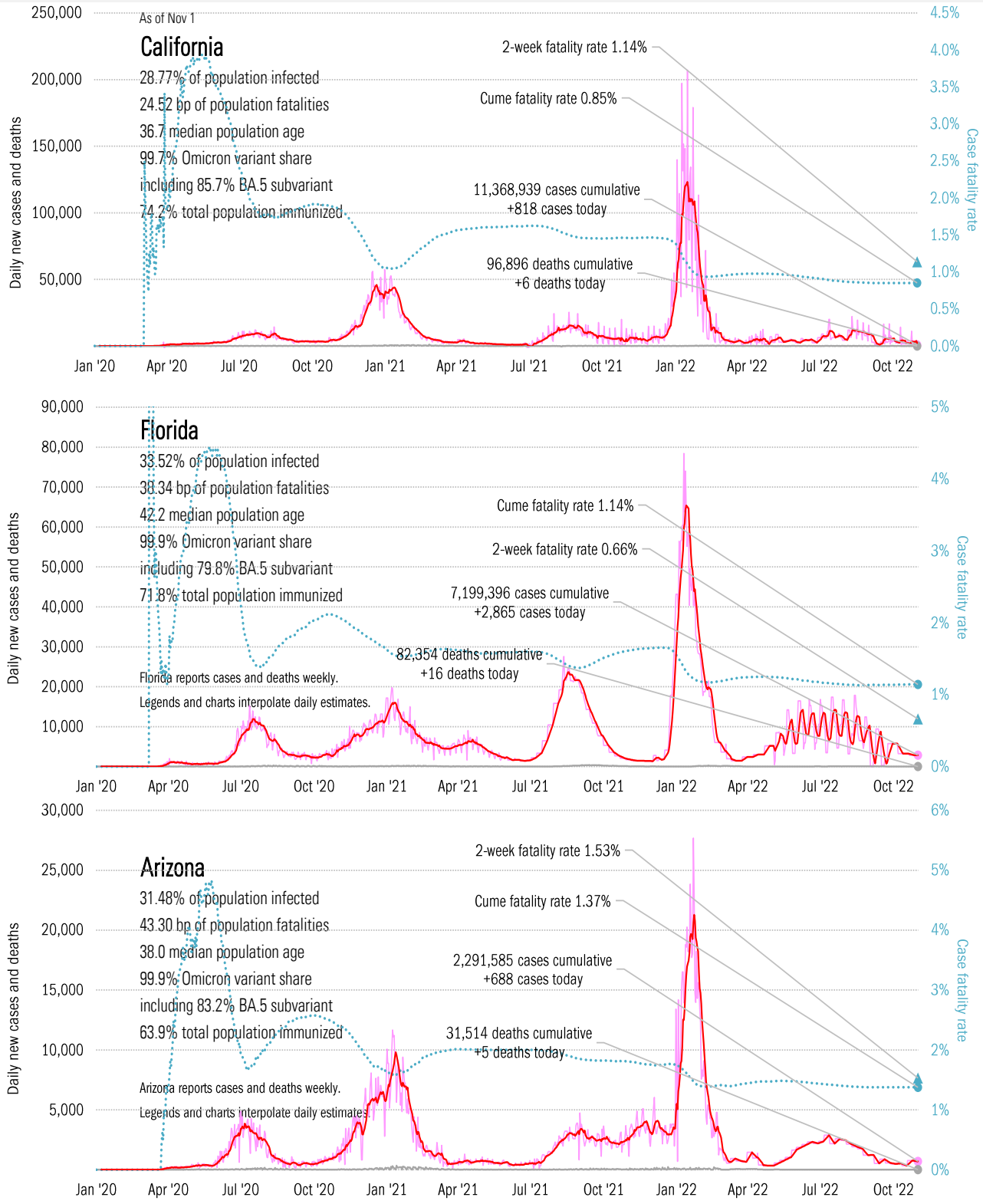
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

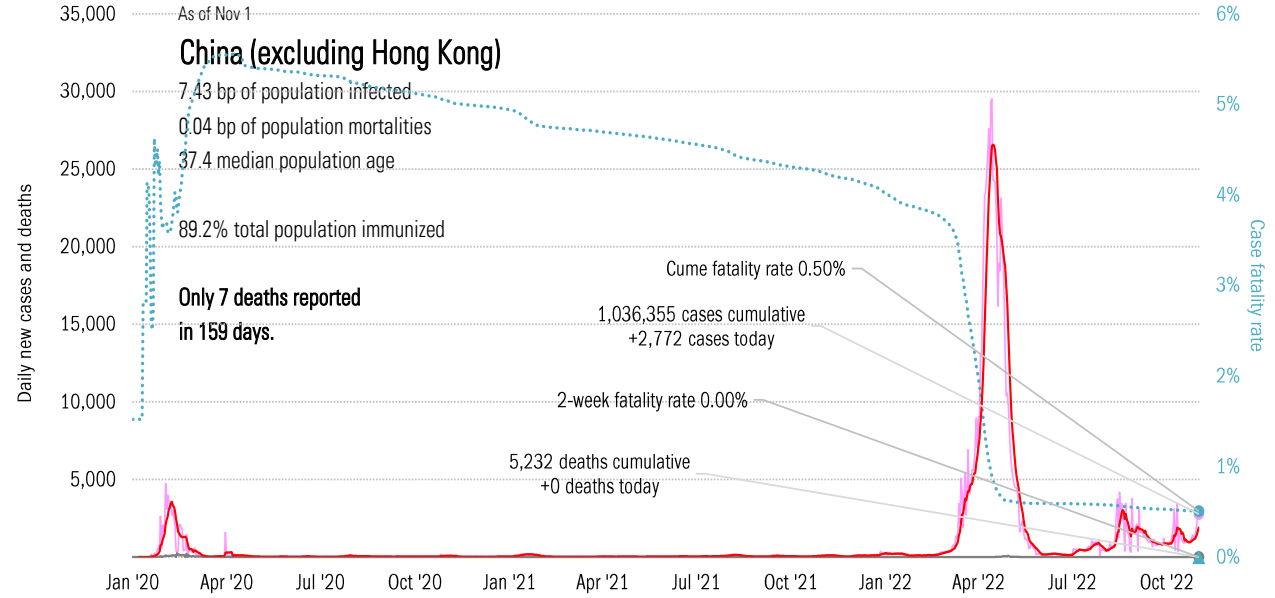
Cases: 7-day average and daily Deaths: Daily

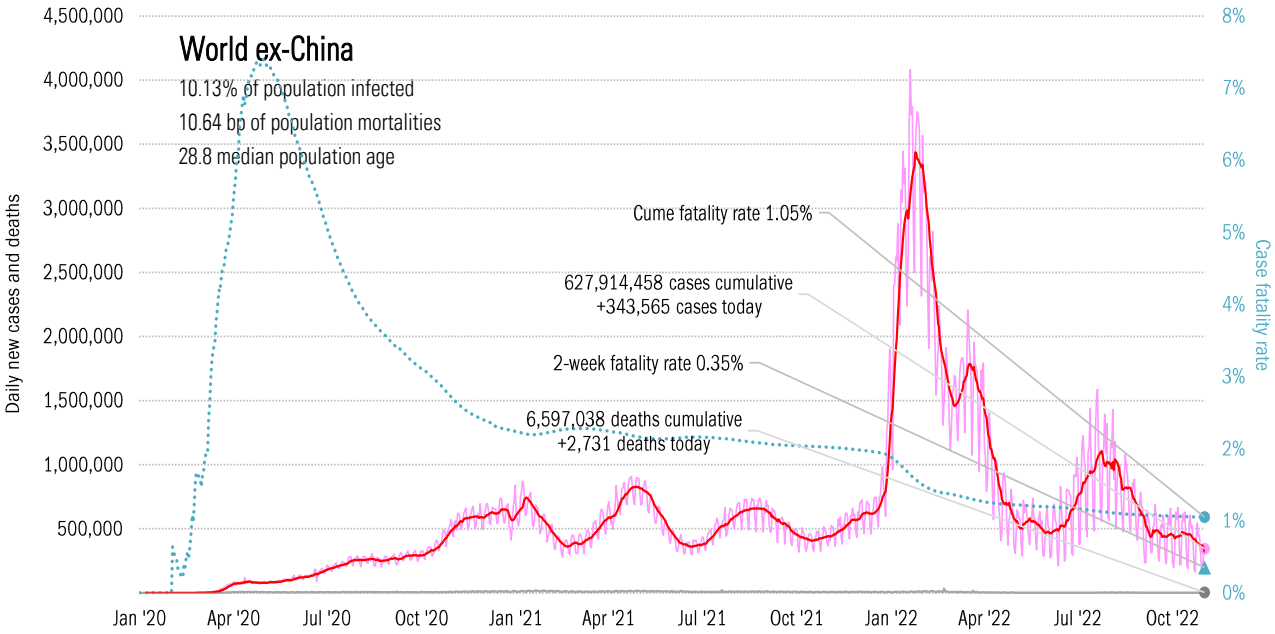


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

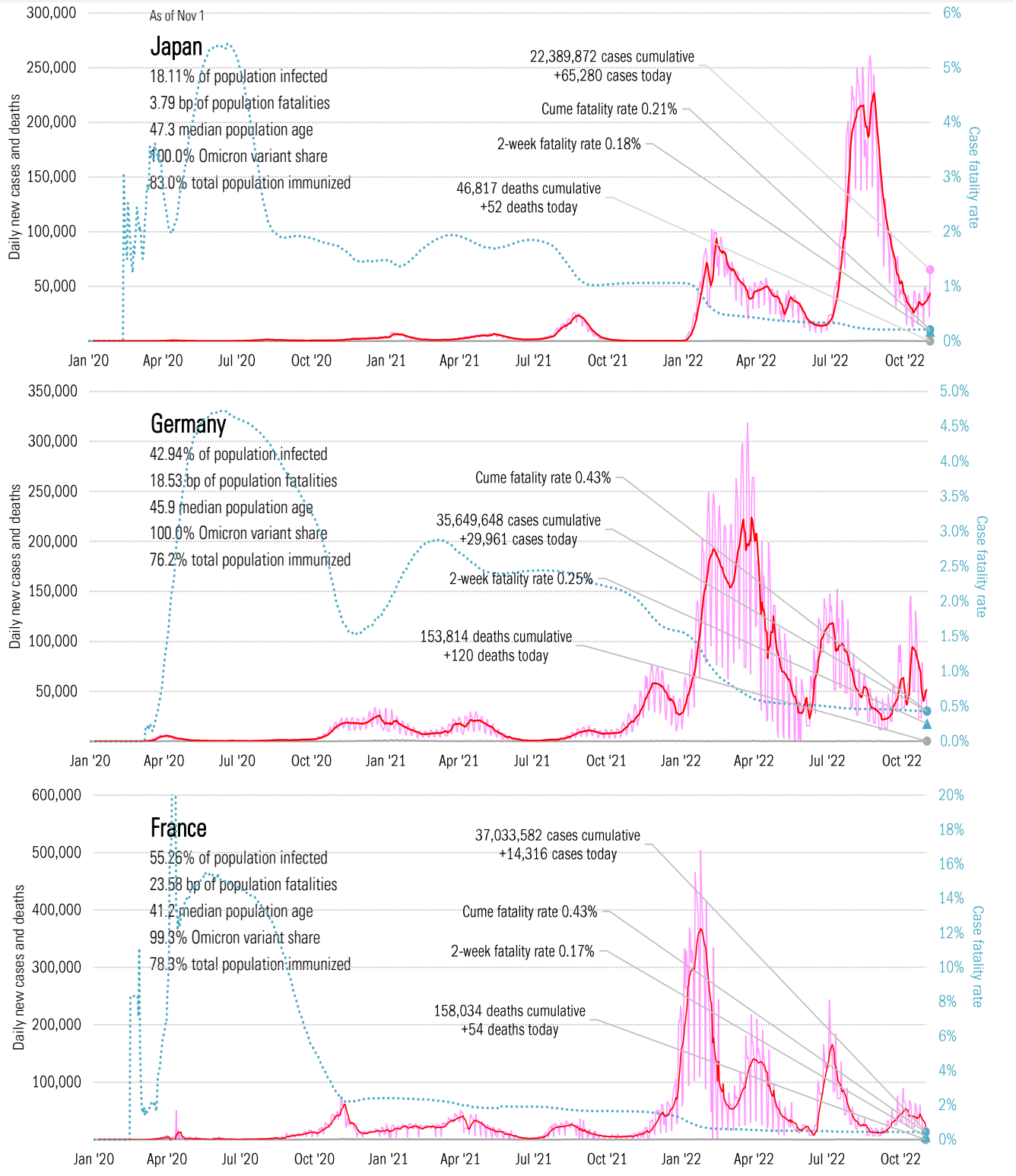




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

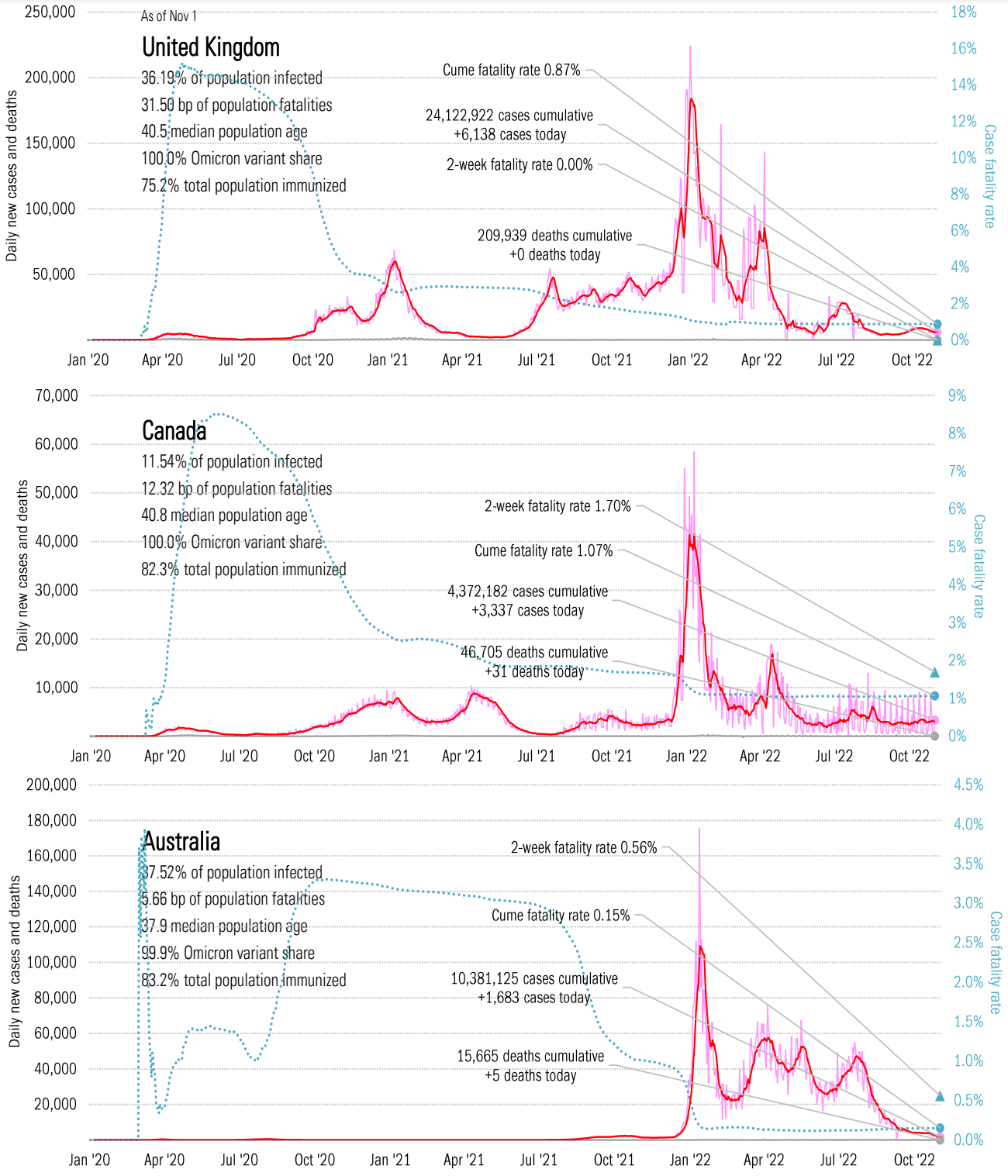
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

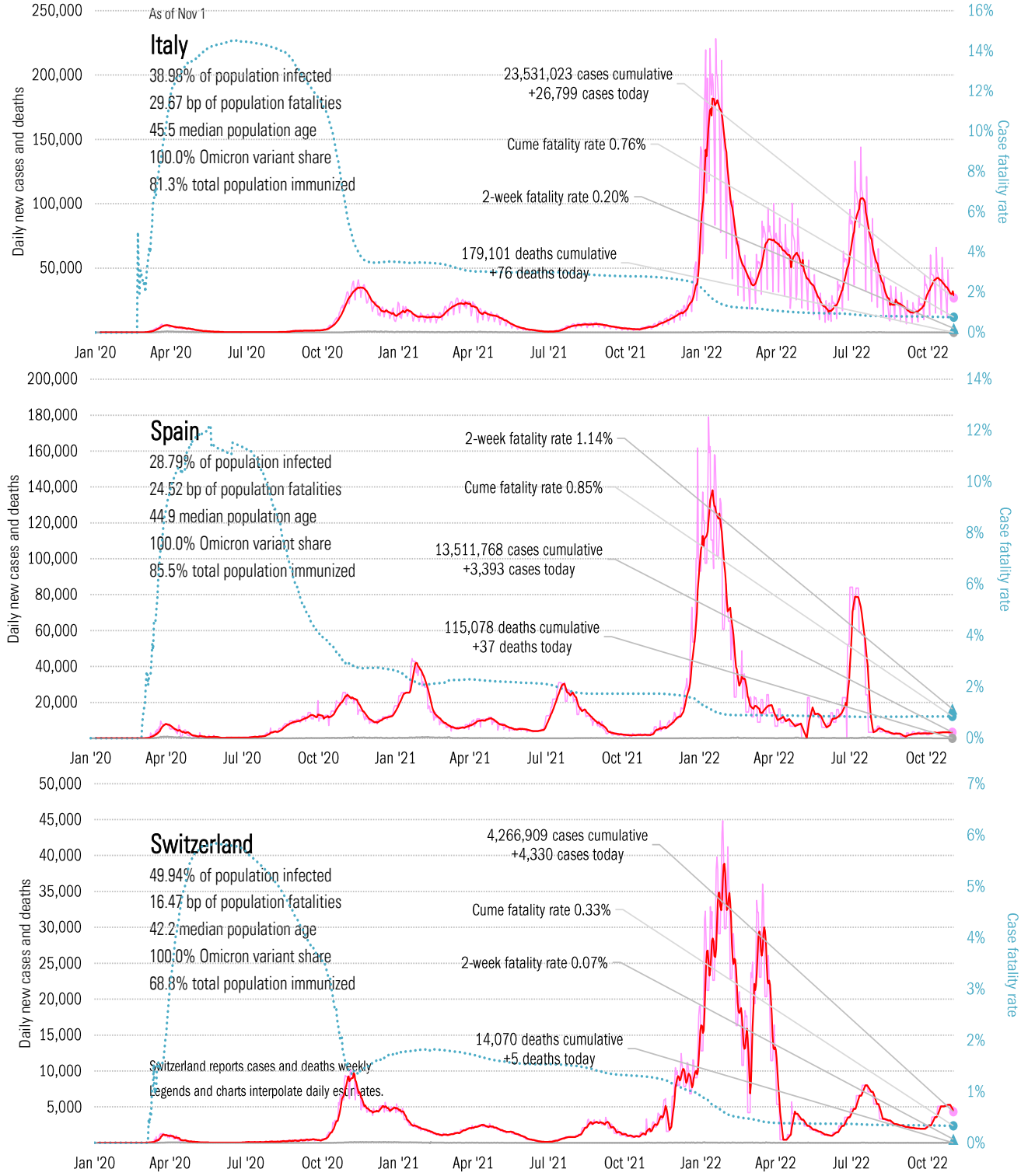
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

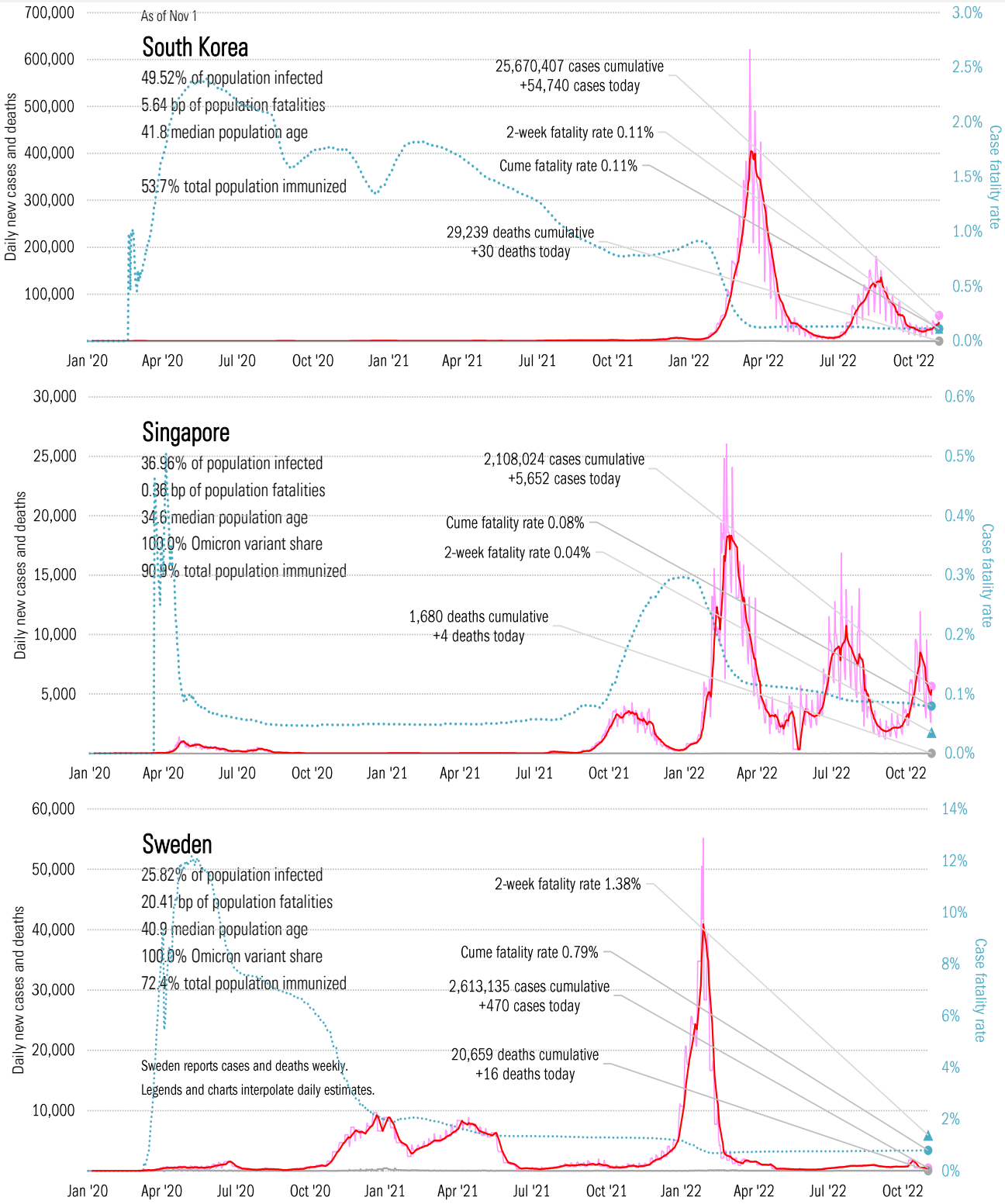
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

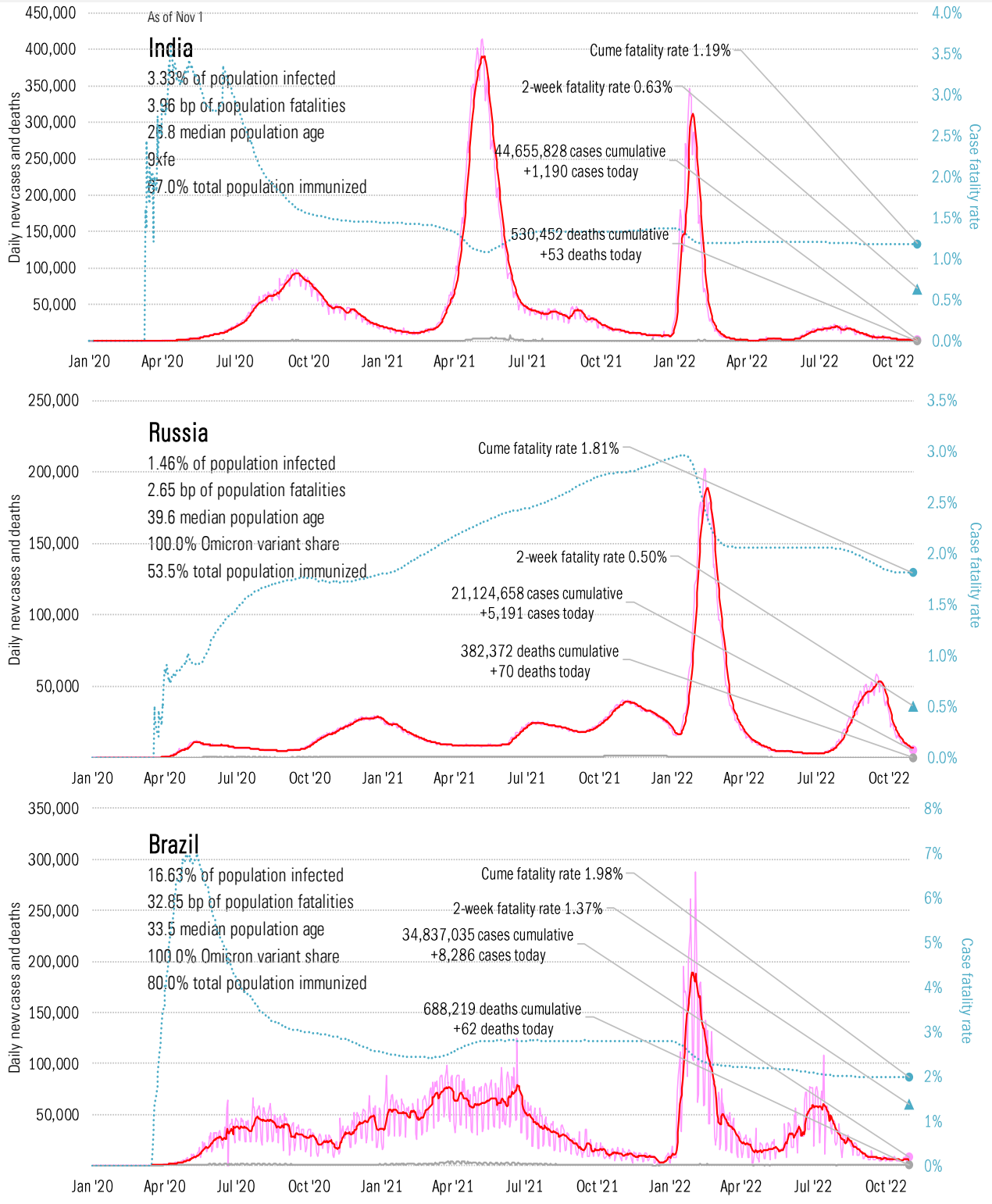
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

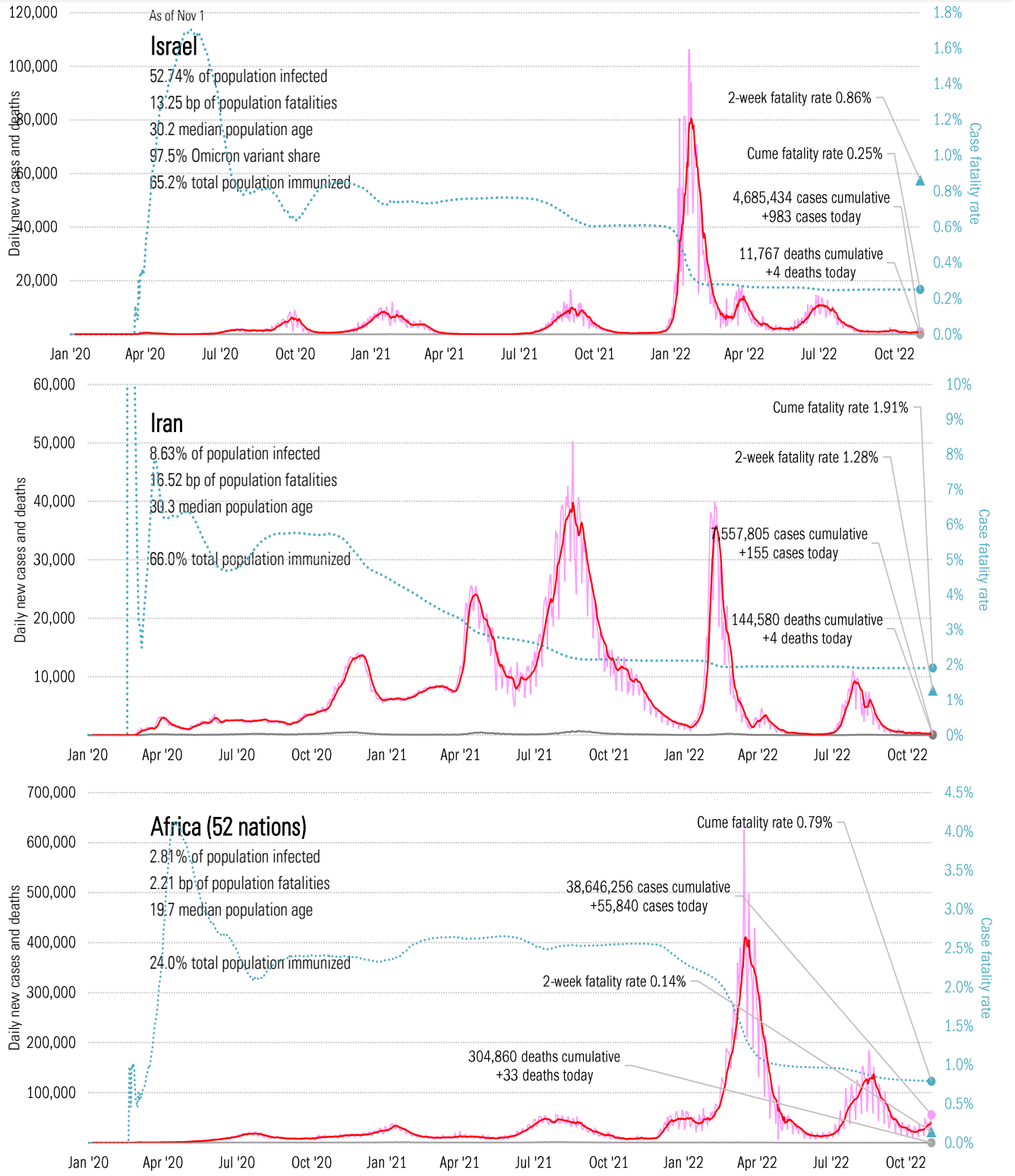
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

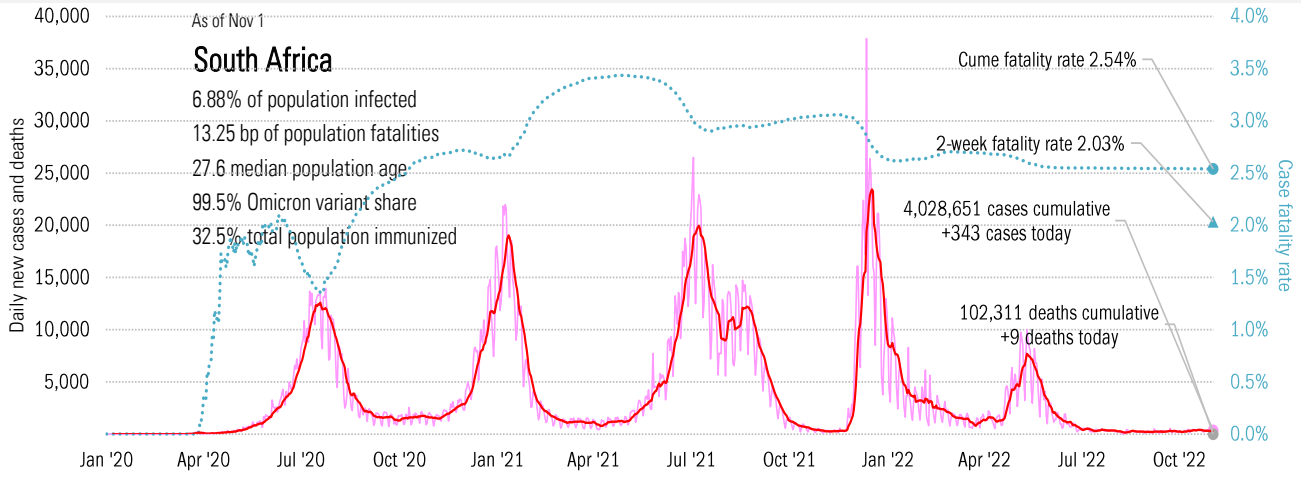
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations