Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

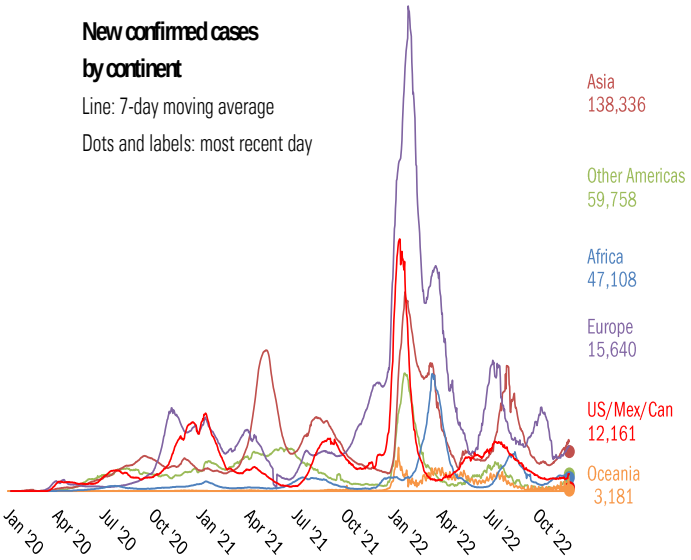
Sunday, December 4, 2022

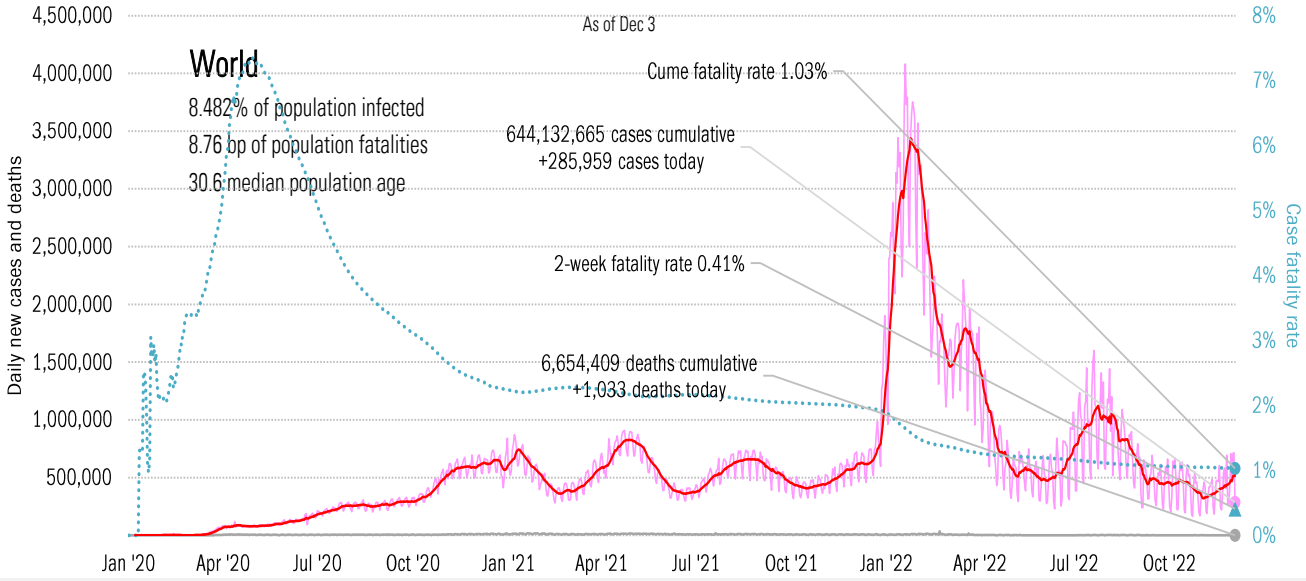
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	109,591	United States	262
United States	97,428	Japan	180
Paraguay	59,361	Canada	131
France	59,008	Brazil	129
Korea, South	46,564	Italy	91
Brazil	35,409	Germany	89
Italy	32,489	France	67
Germany	27,841	United Kingdom	64
Taiwan*	13,136	Korea, South	60
Russia	6,614	Russia	57
	487,441		1,130





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

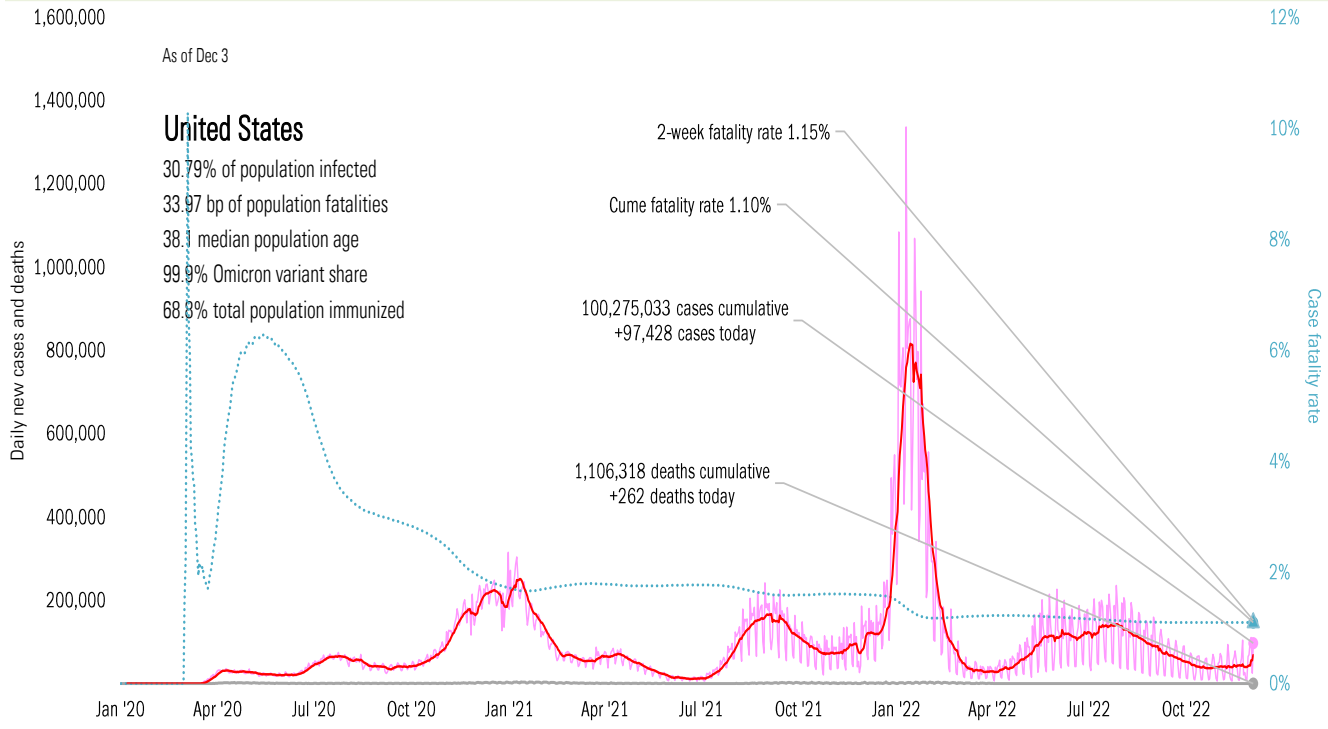
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NJ	31,022	FL	47	CA	725	CA	11,543,461	CA	97,617	TX	557,331	DE	128%	DE	134%
CA	10,268	NY	34	TX	320	TX	8,105,643	TX	91,423	CA	522,331	RI	91%	TX	89%
PA	10,213	NJ	17	FL	264	FL	7,270,410	FL	83,201	FL	505,145	MA	88%	NC	88%
MA	5,830	UT	17	OH	236	NY	6,401,124	NY	74,050	NY	322,313	WA	88%	AK	87%
FL	4,419	PA	17	GA	134	IL	3,885,398	PA	48,387	GA	230,509	NH	87%	MA	86%
UT	4,394	MI	16	PA	203	PA	3,360,797	GA	41,070	OH	228,890	MO	87%	AL	85%
IL	3,299	CA	14	NY	413	NC	3,275,343	OH	40,558	PA	214,930	MN	87%	NM	85%
NY	3,299	IL	14	AZ	192	OH	3,243,850	IL	40,339	IL	197,108	GA	86%	WA	85%
OH	2,299	MA	13	AL	65	GA	2,943,519	MI	40,085	MI	170,802	WV	86%	RI	84%
VA	1,910	NE	10	OK	60	MI	2,938,443	NJ	35,161	KY	148,231	MD	85%	GA	84%
	76,953		198		2,612		52,967,988		591,891		3,097,590				
All states	97,428		262		4,885	All states	100,275,033		1,106,318		5,627,694	All states	70%		67%
Top ten	79%		76%		53%	Top ten	53%		55%		55%	Median	81%		79%

Some states not reporting

Five most improved US states

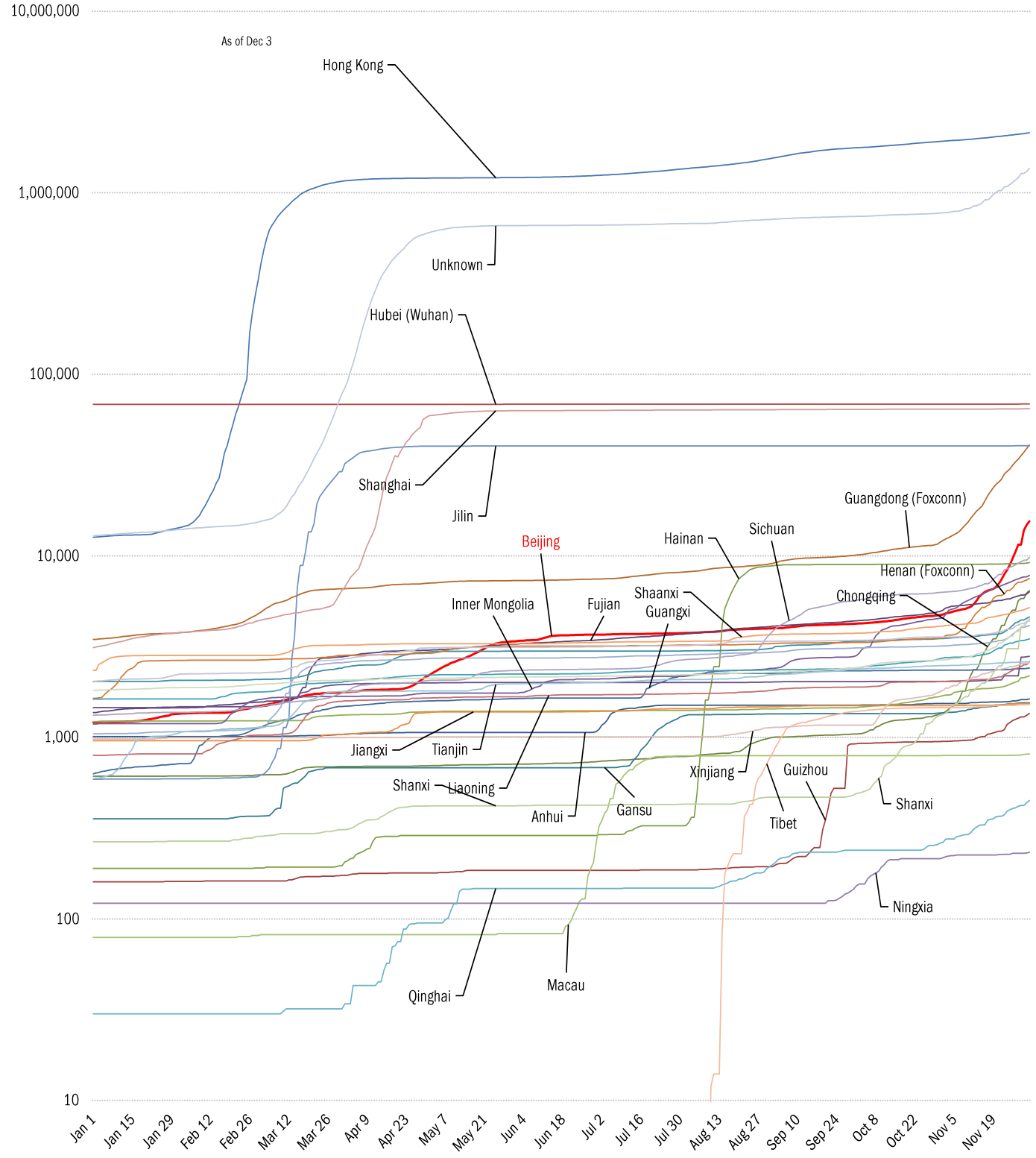
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-4,301	NY	-34	CA	-73
CT	-534	VA	-20	IL	-45
AR	-293	MD	-3	CO	-43
ME	-45	MT	-3	TN	-42
AK	0	NH	-2	KS	-32



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

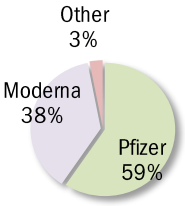
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	671,635,963				+0.328 million
				Of which boosters:	+0.325 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	275,701,442	83%	235,149,532	70%	+0.017 million
Age 12 to 17	18,361,225	73%	15,723,595	62%	+0.001 million
Age 18 to 64	183,423,335	90%	156,037,449	77%	+0.007 million
Age 65 and over	60,769,877	100%	53,226,370	97%	+0.001 million

Immunity	Full	Partial
US	68.8%	80.7%
UK	75.2%	79.7%
France	78.3%	80.5%
Spain	85.5%	86.9%
Germany	76.2%	77.8%
Italy	81.3%	86.2%
Australia	82.7%	85.0%
Israel	65.2%	71.1%
Canada	82.4%	89.2%
Japan	83.1%	84.2%
Africa	25.6%	31.7%
India	67.1%	72.5%
Brazil	80.9%	87.3%
China	89.3%	91.5%

Global data differs due to sources, timing



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

"Immunity" = two doses

Best
Middle
Worst

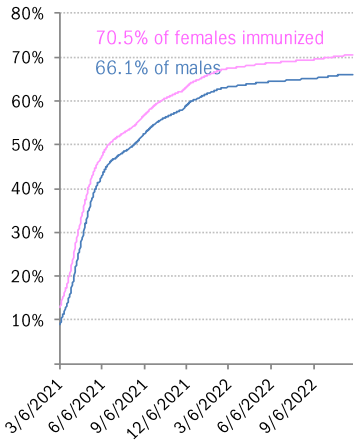
As of Dec 2

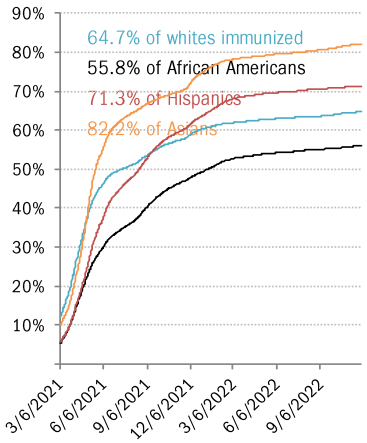
					WI					ME
					74.6%					95.0%
					67.8%					82.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.5%	63.5%	67.8%	68.8%	78.2%	78.8%	69.1%		93.7%	95.0%	86.4%
75.5%	56.1%	58.8%	58.2%	71.6%	70.9%	62.0%		80.1%	84.8%	70.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.9%	78.3%	60.5%	83.0%	70.2%	64.0%	65.3%	89.7%	93.9%	95.0%	
71.8%	63.1%	52.8%	65.7%	64.0%	57.5%	60.1%	72.5%	78.6%	83.4%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.0%	74.7%	83.1%	72.9%	68.9%	68.4%	67.1%	90.2%	90.9%	95.0%	95.0%
74.2%	66.3%	73.0%	65.8%	58.6%	59.3%	59.4%	76.1%	79.1%	82.5%	87.0%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.7%	93.3%	75.6%	69.4%	64.1%	90.9%	70.5%	95.0%	86.7%	
	65.6%	74.6%	64.8%	56.5%	56.1%	66.3%	59.5%	84.6%	72.0%	
			OK	LA	MS	AL	GA			
			74.1%	62.5%	61.4%	64.7%	67.7%			
			60.0%	54.8%	53.5%	52.9%	56.7%			
			TX					FL		PR
			75.7%					81.9%		95.0%
			62.9%					69.0%		86.7%

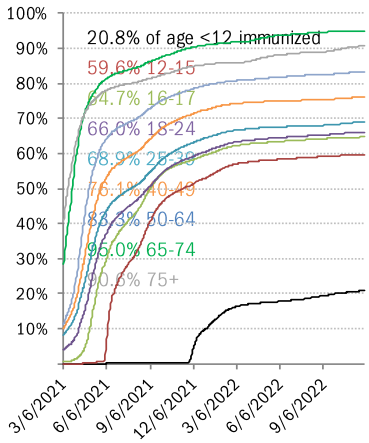
HI
90.8%
81.0%

AK
72.5%
64.8%

The demographics of US vaccination

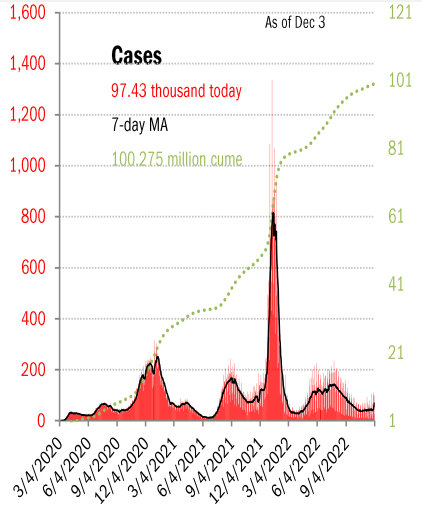


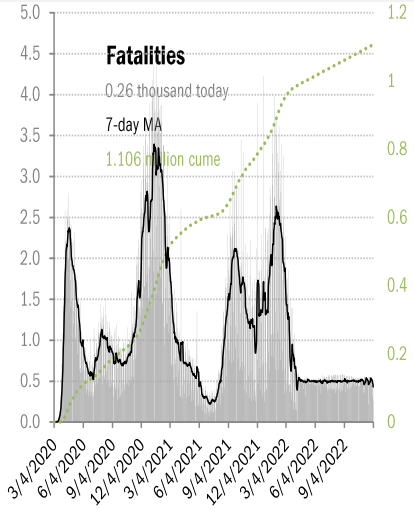


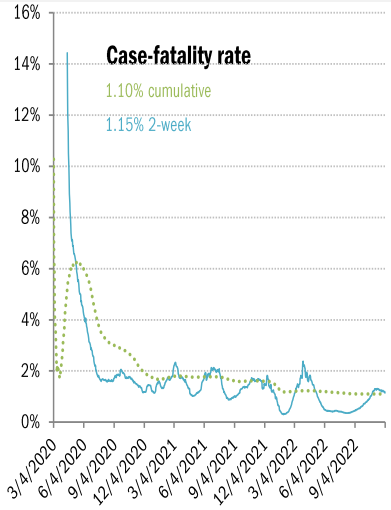


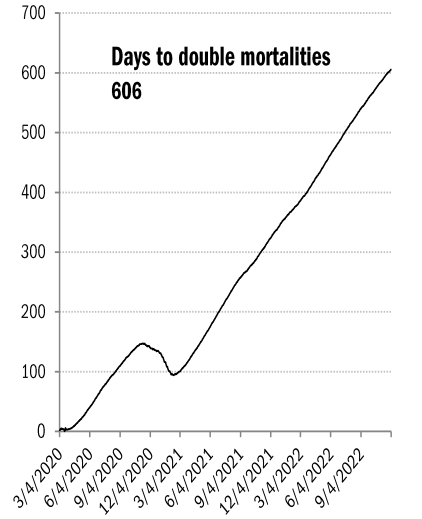
Source: CDC, CDC, Our World in Data, TrendMacro calculations

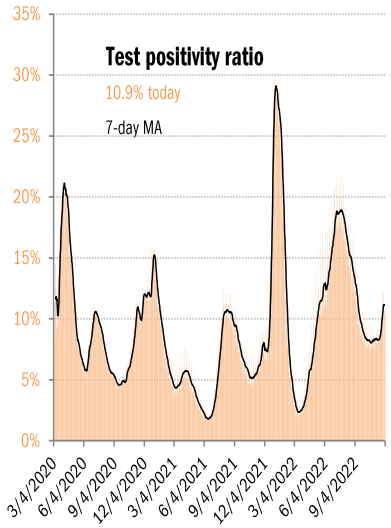
US deep-dive

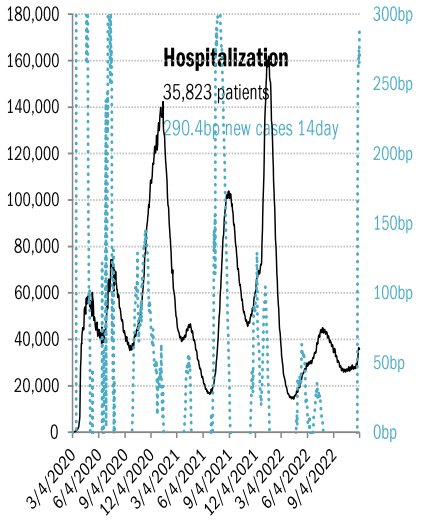


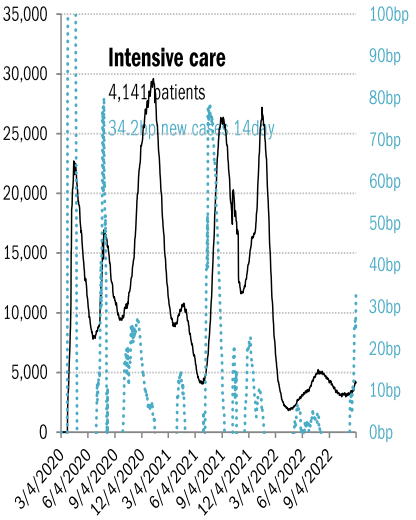


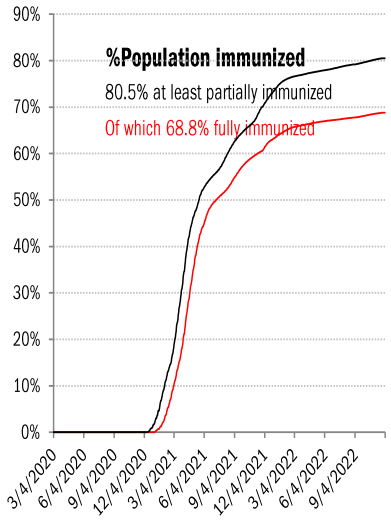












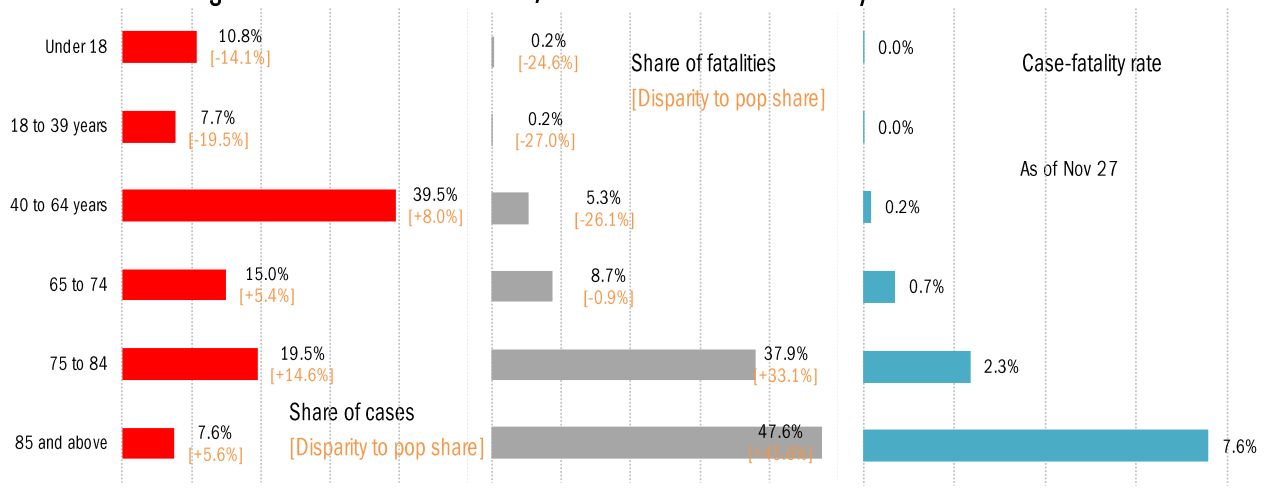
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

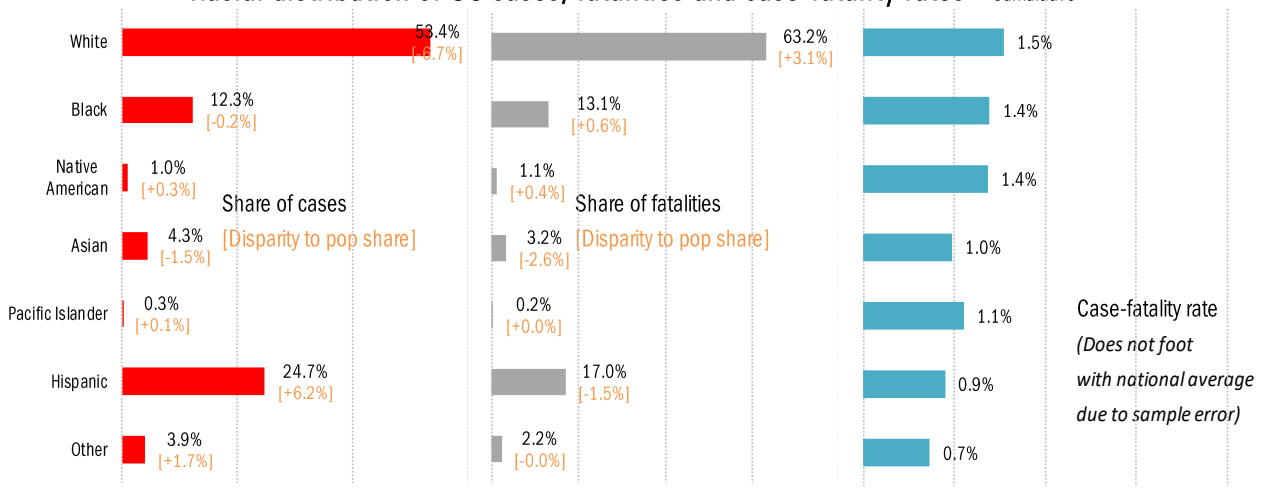
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



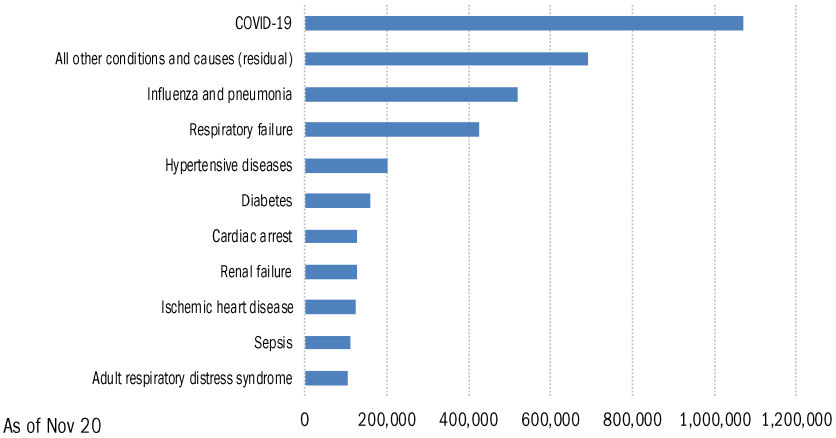
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Nov 20

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

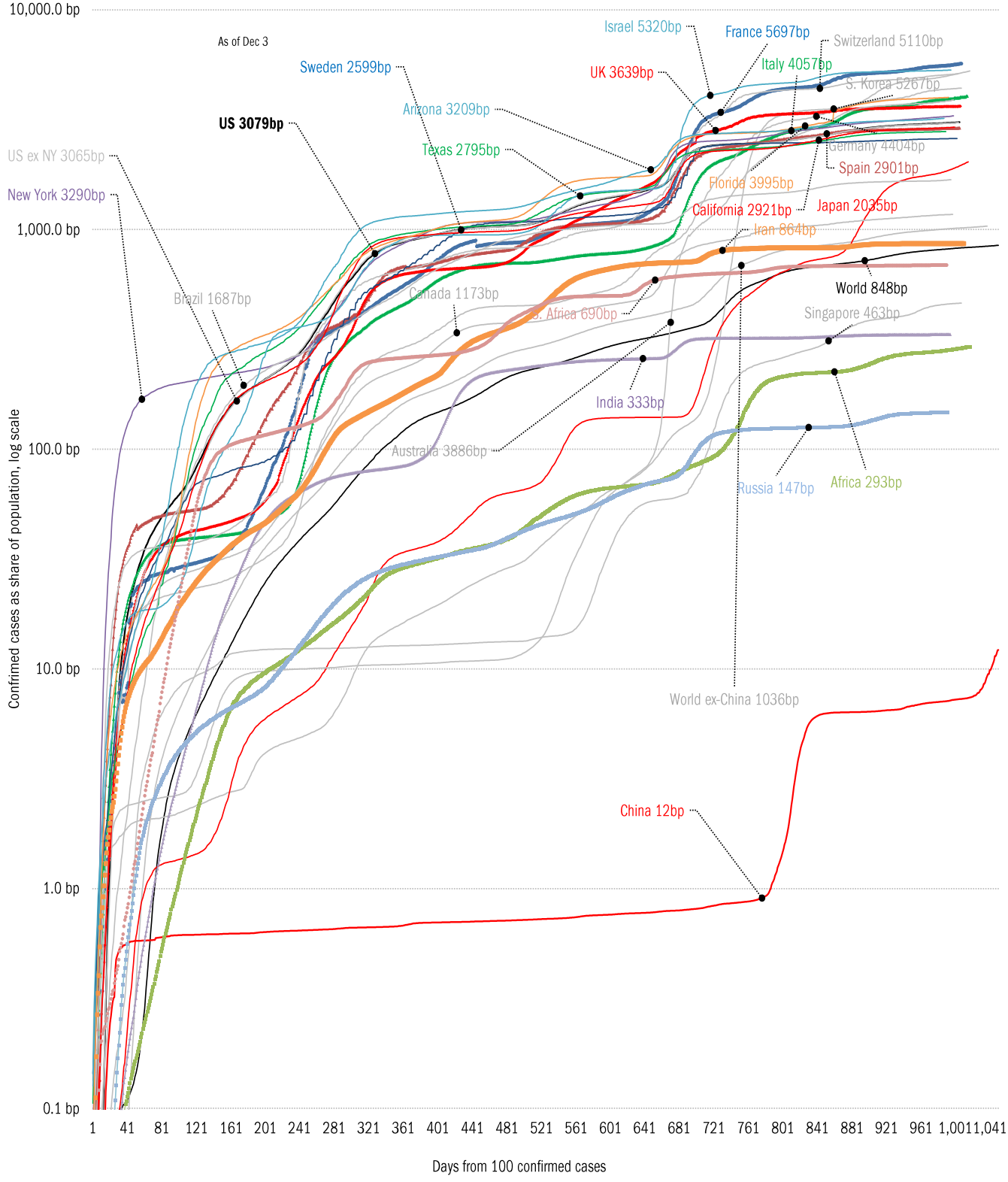
[Flu and RSV Are Sickening More Kids This Year]
Brianna Abbott
Wall Street Journal
December 2, 2022

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

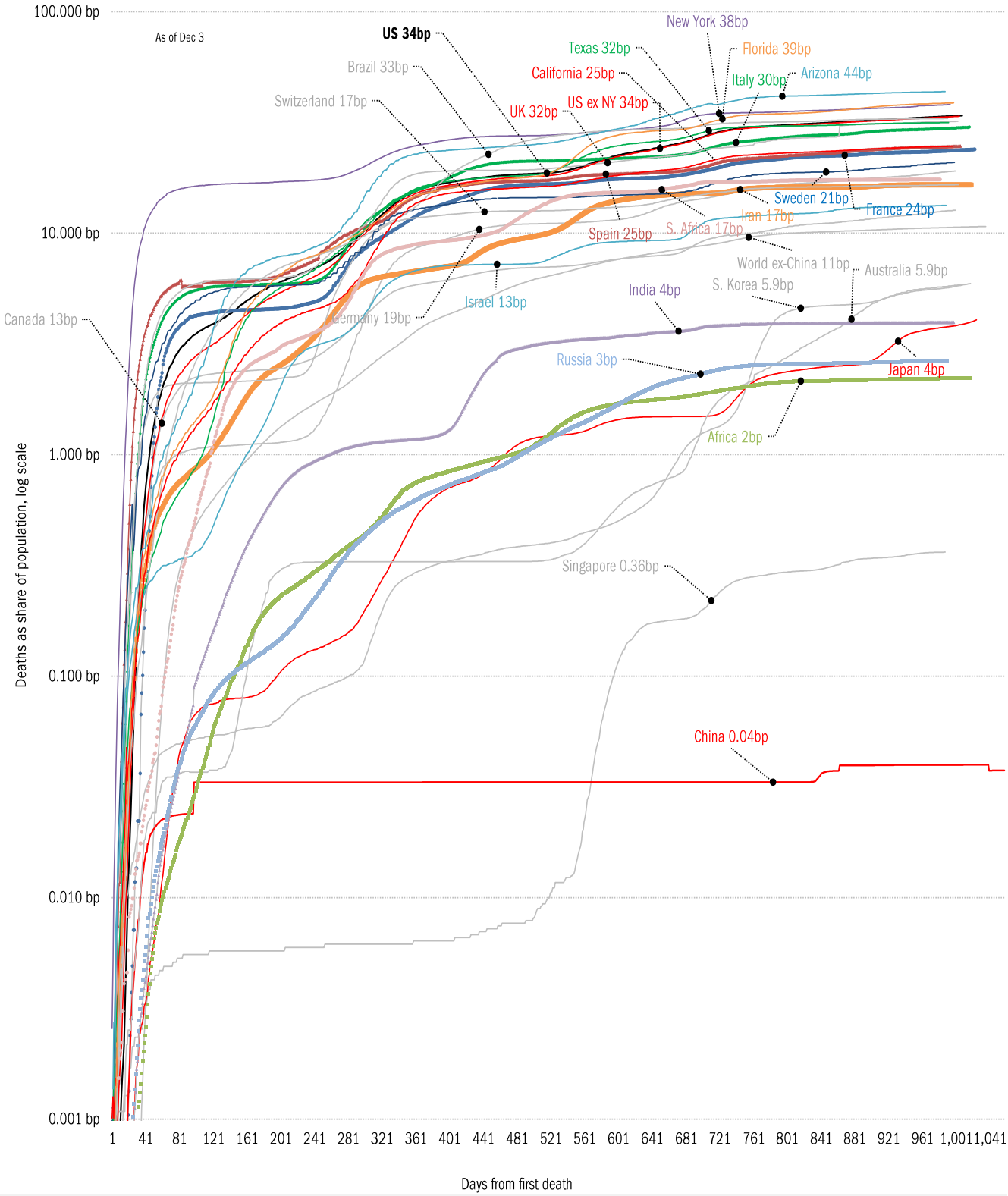
Share of infected population from first day with 100 confirmed cases, log scale



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

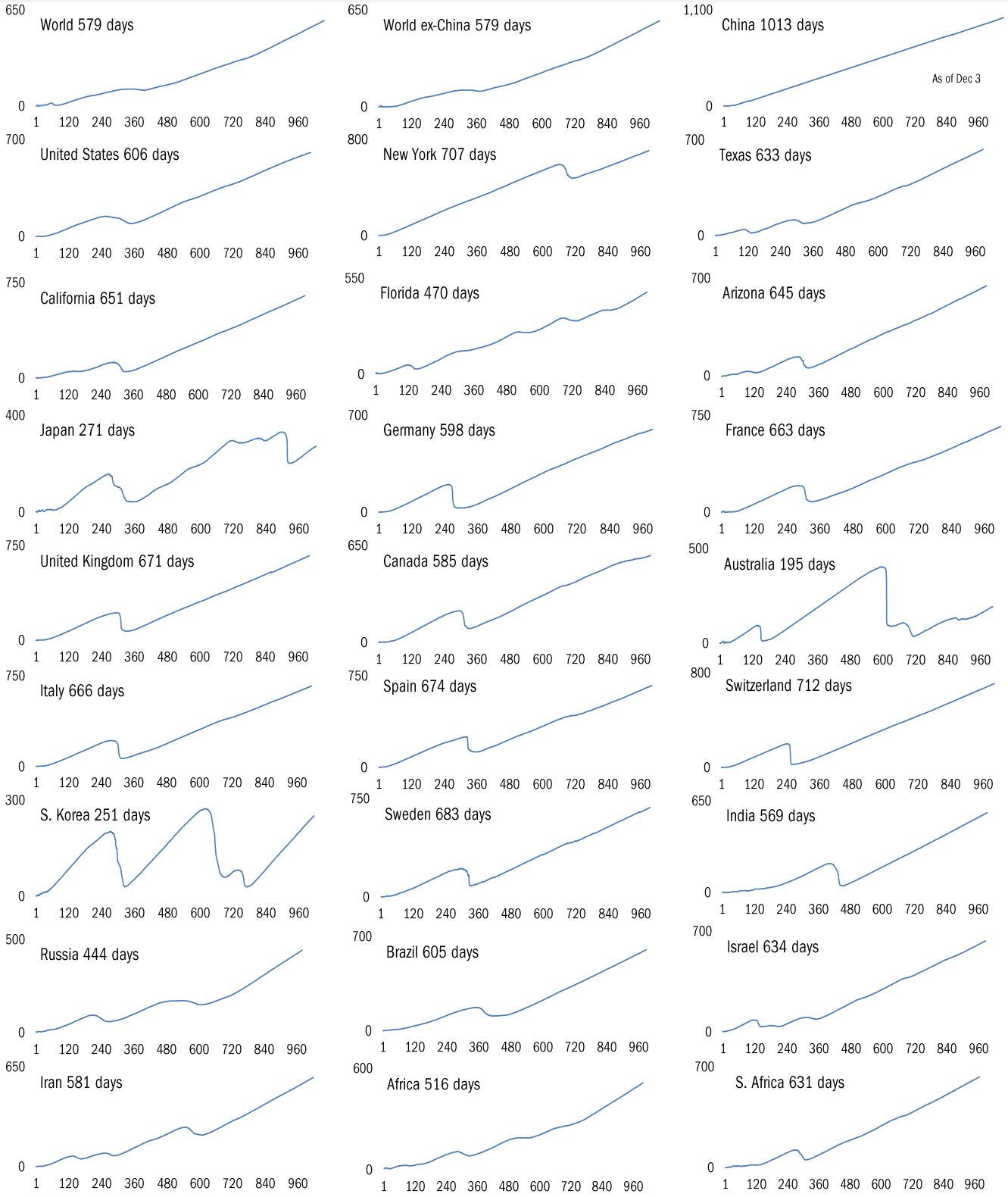


Source: Johns Hopkins, TrendMacro calculations

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

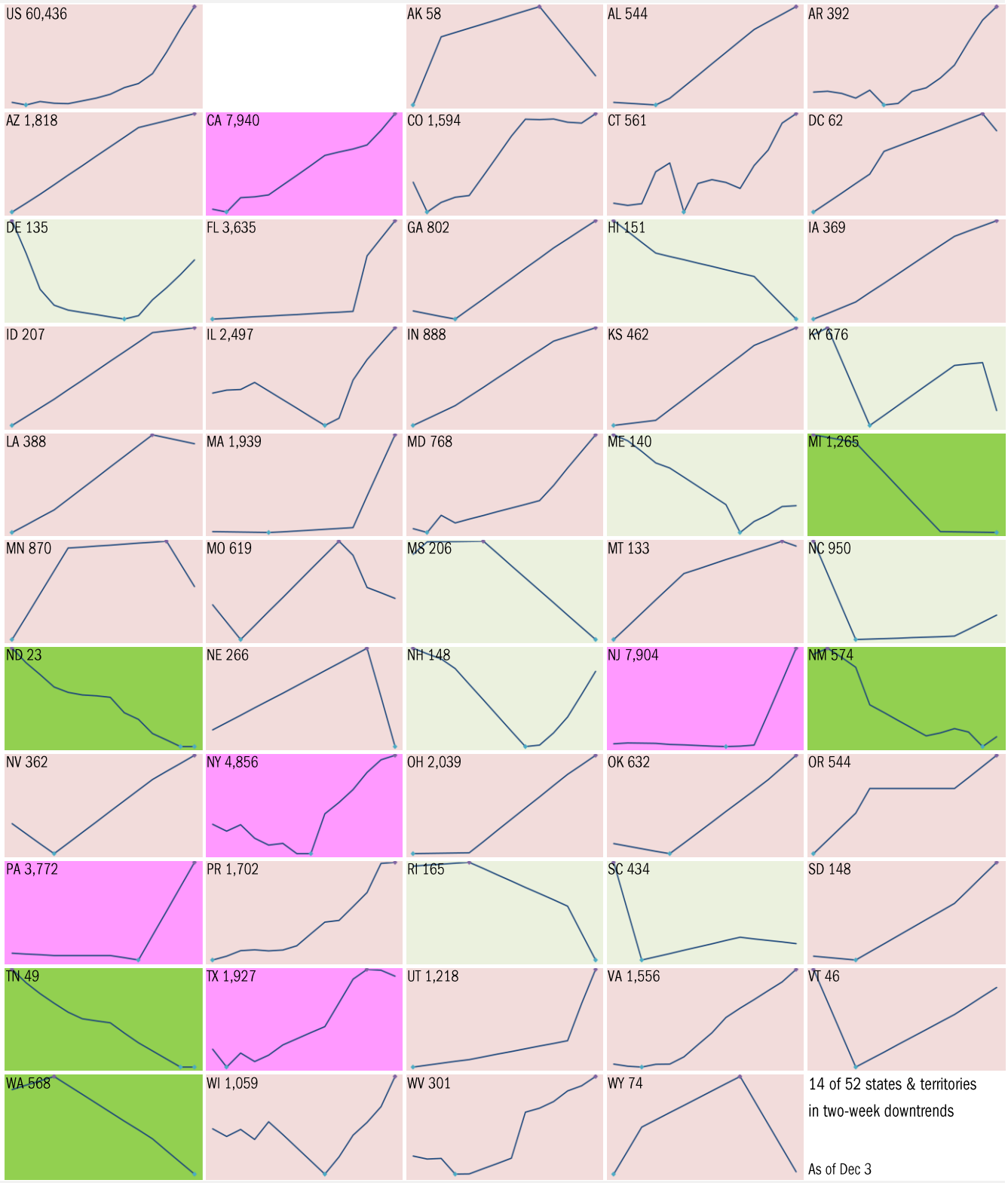


Source: Johns Hopkins, TrendMacro calculations

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

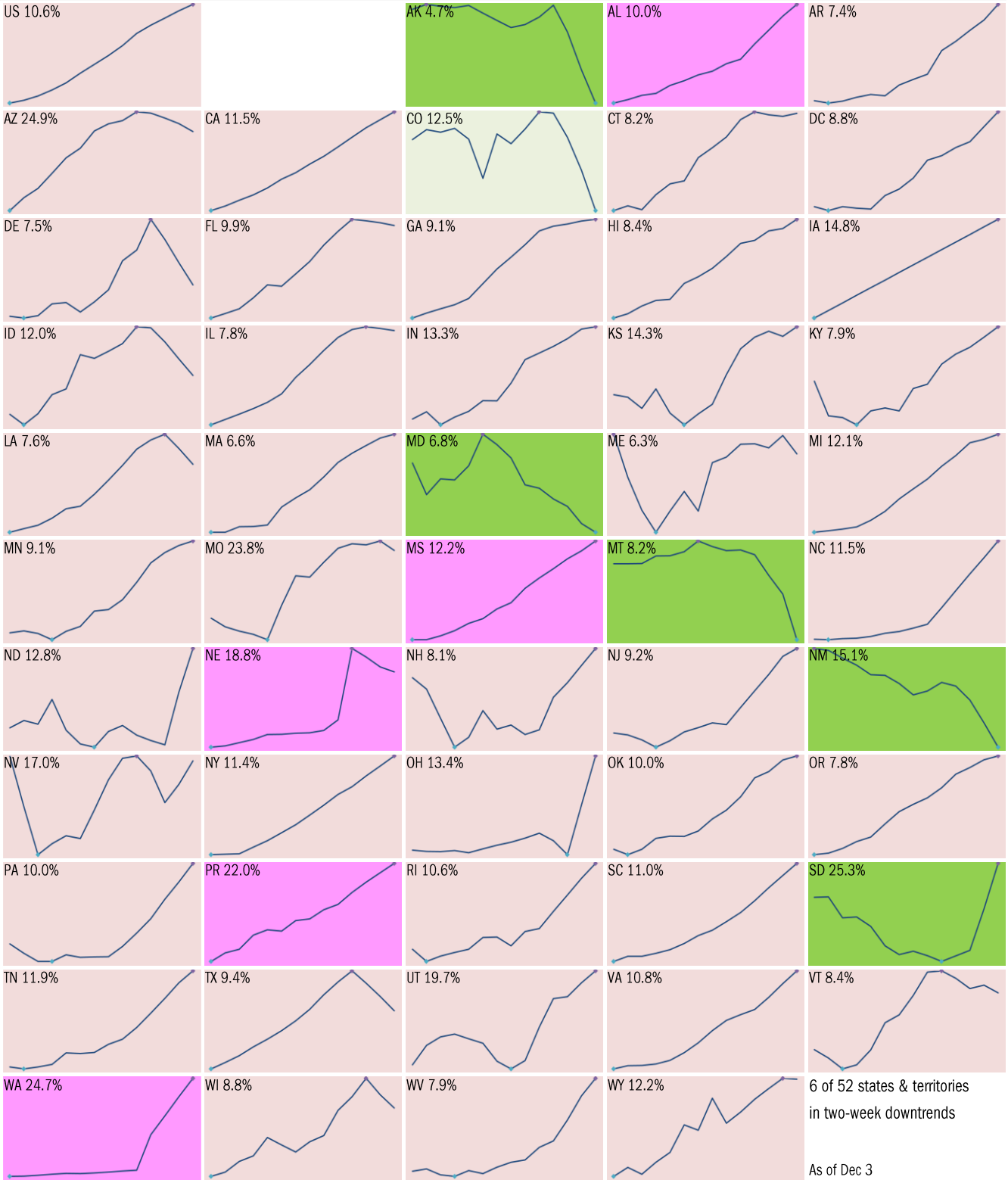


Source: Johns Hopkins, TrendMacro calculations

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

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

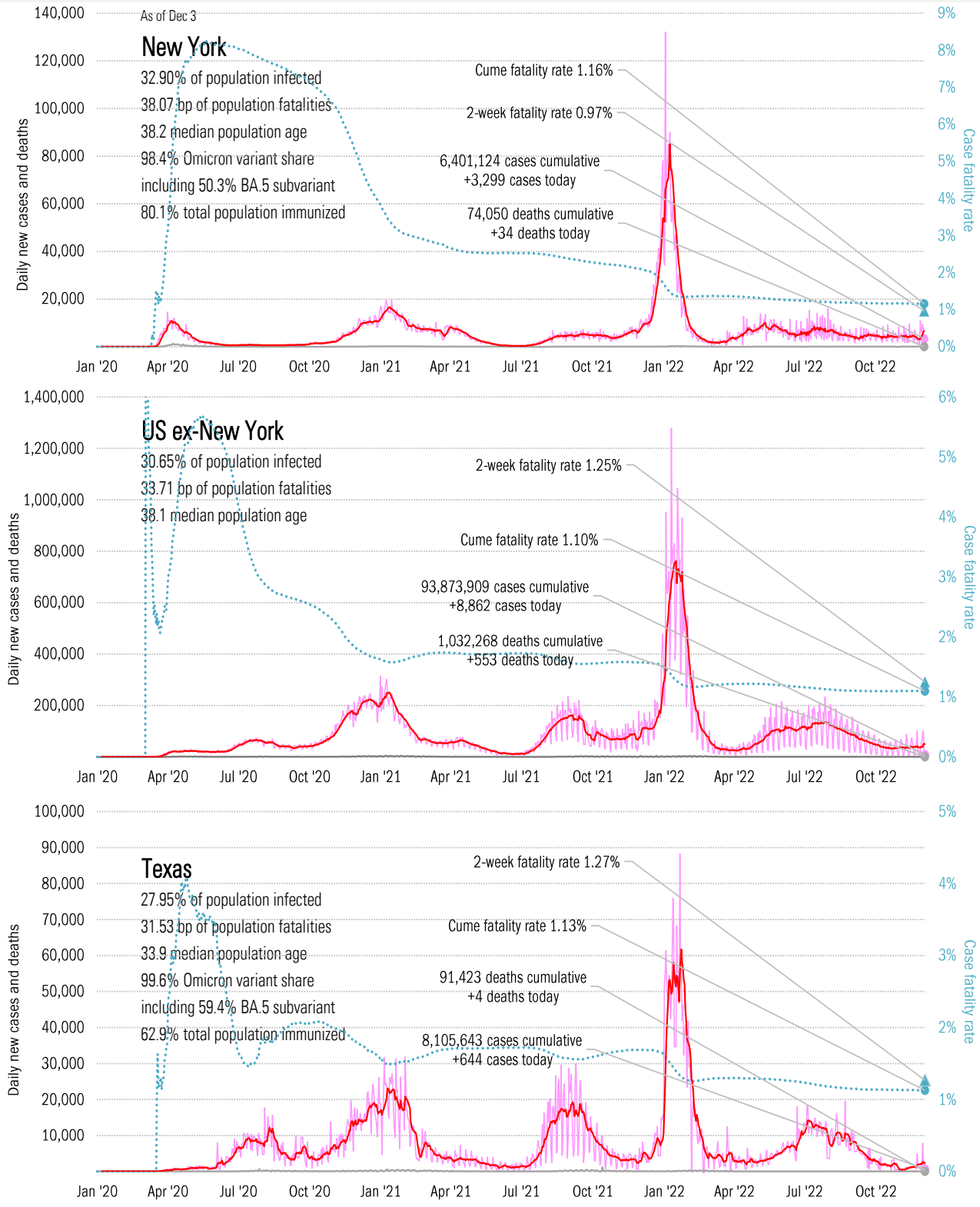
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

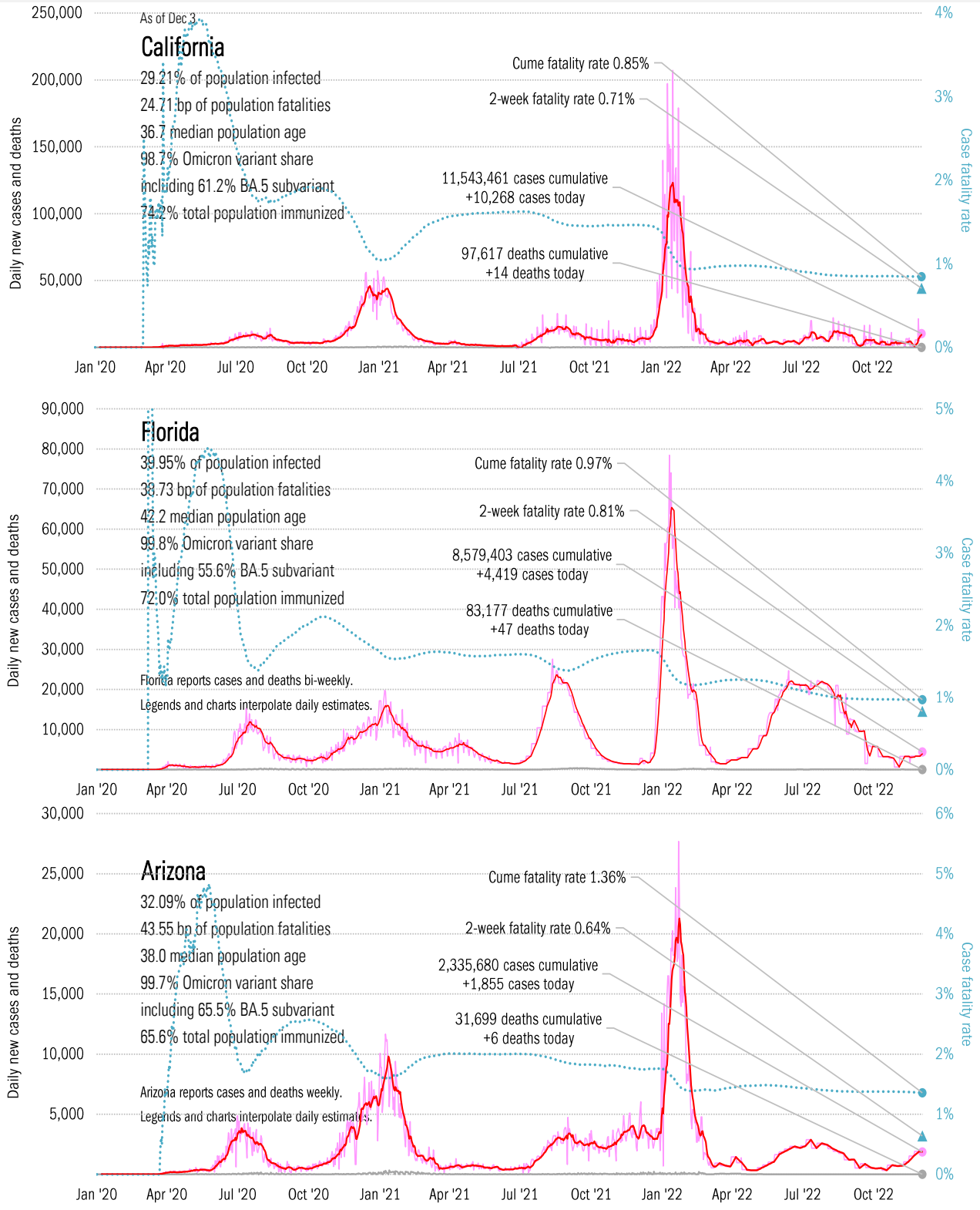
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

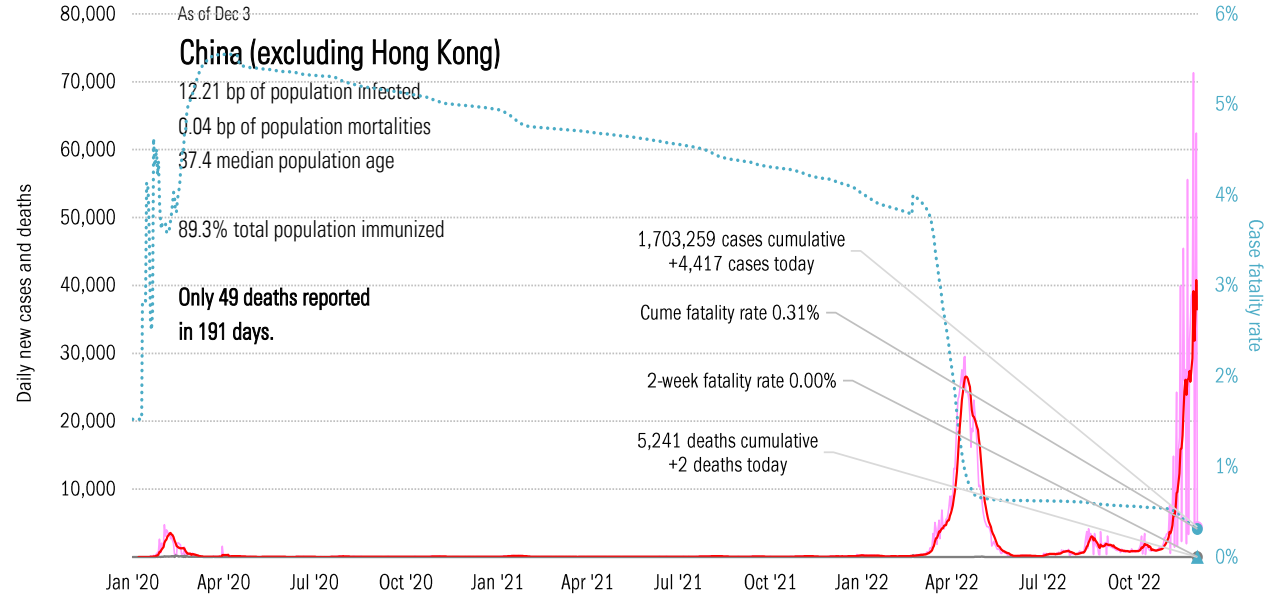
Cases: 7-day average and daily Deaths: Daily

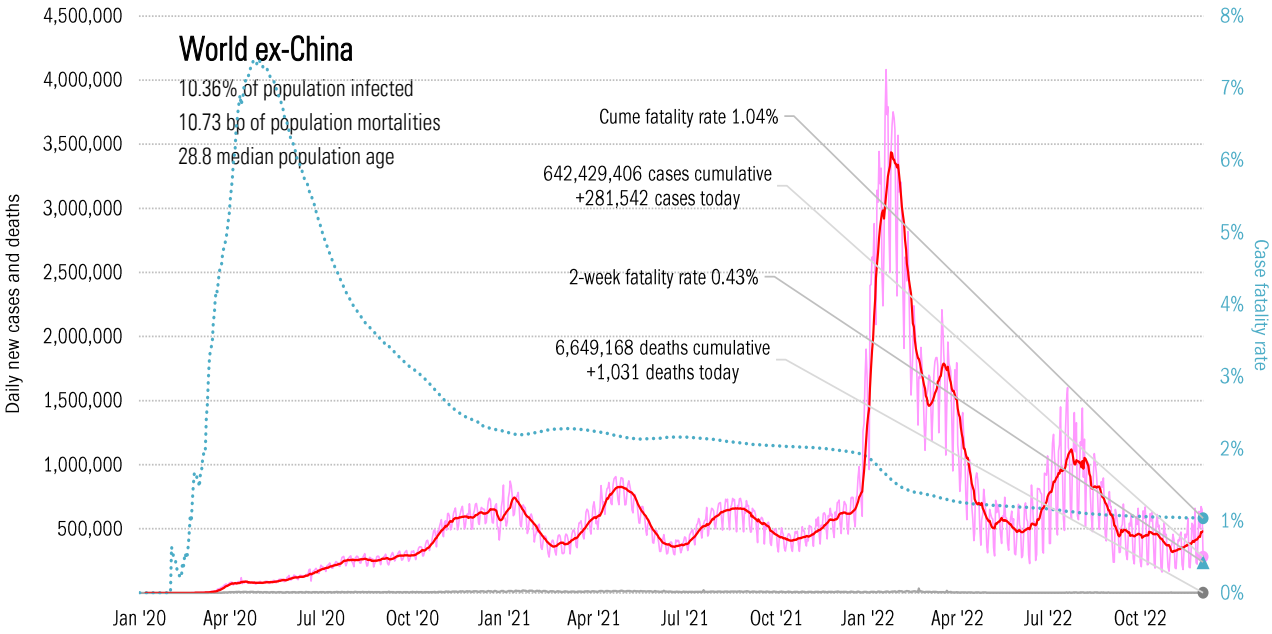


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

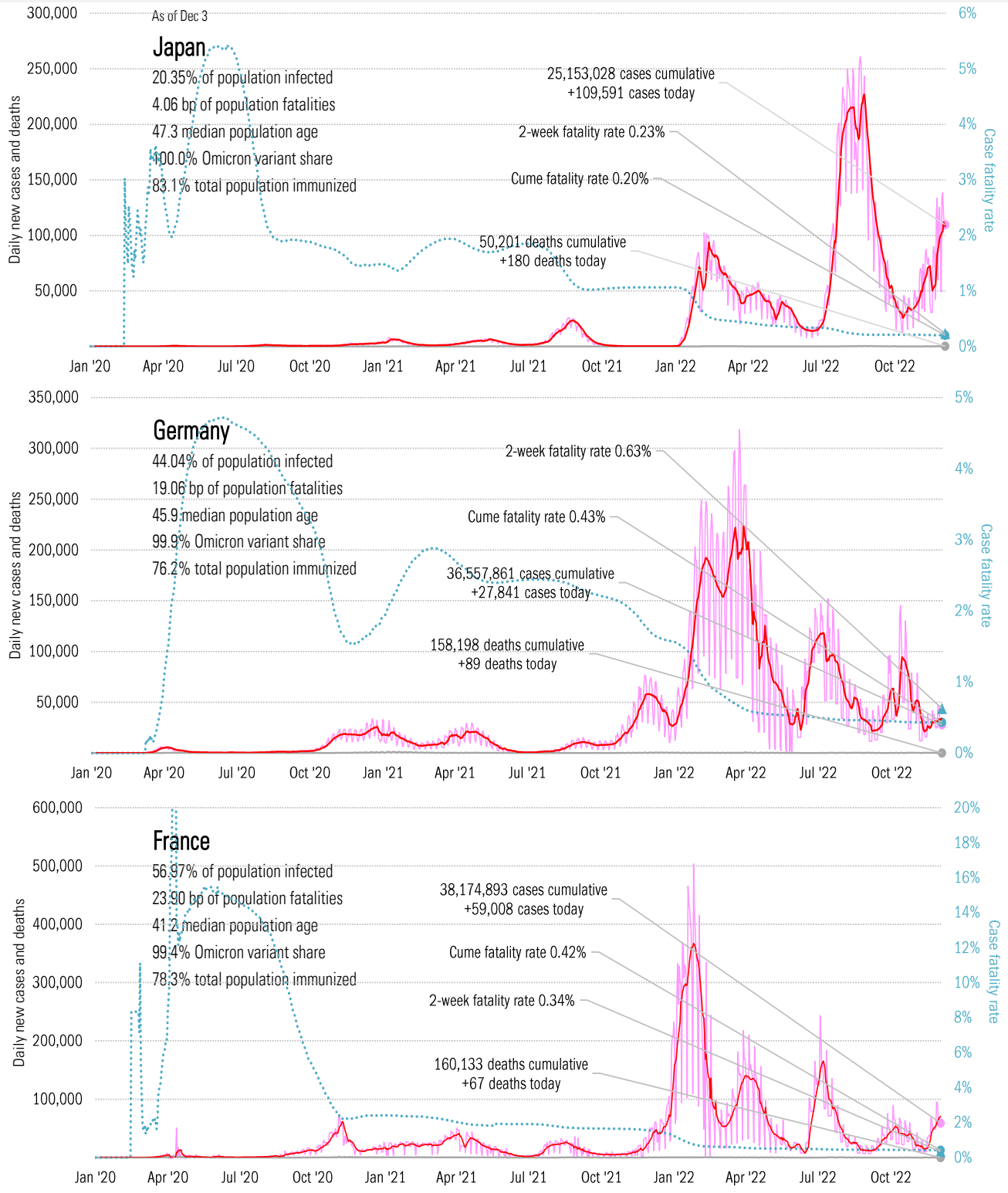




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

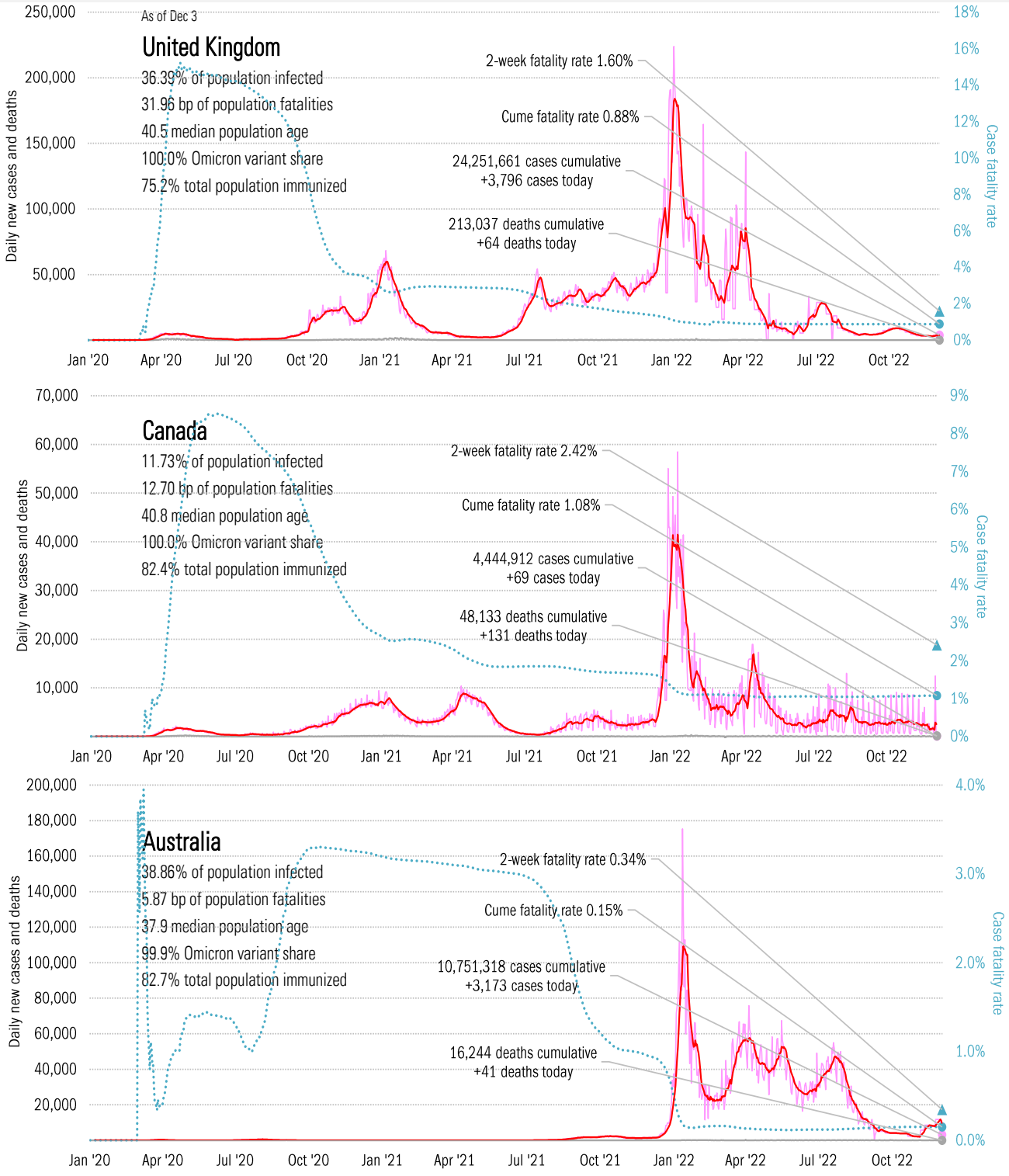
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

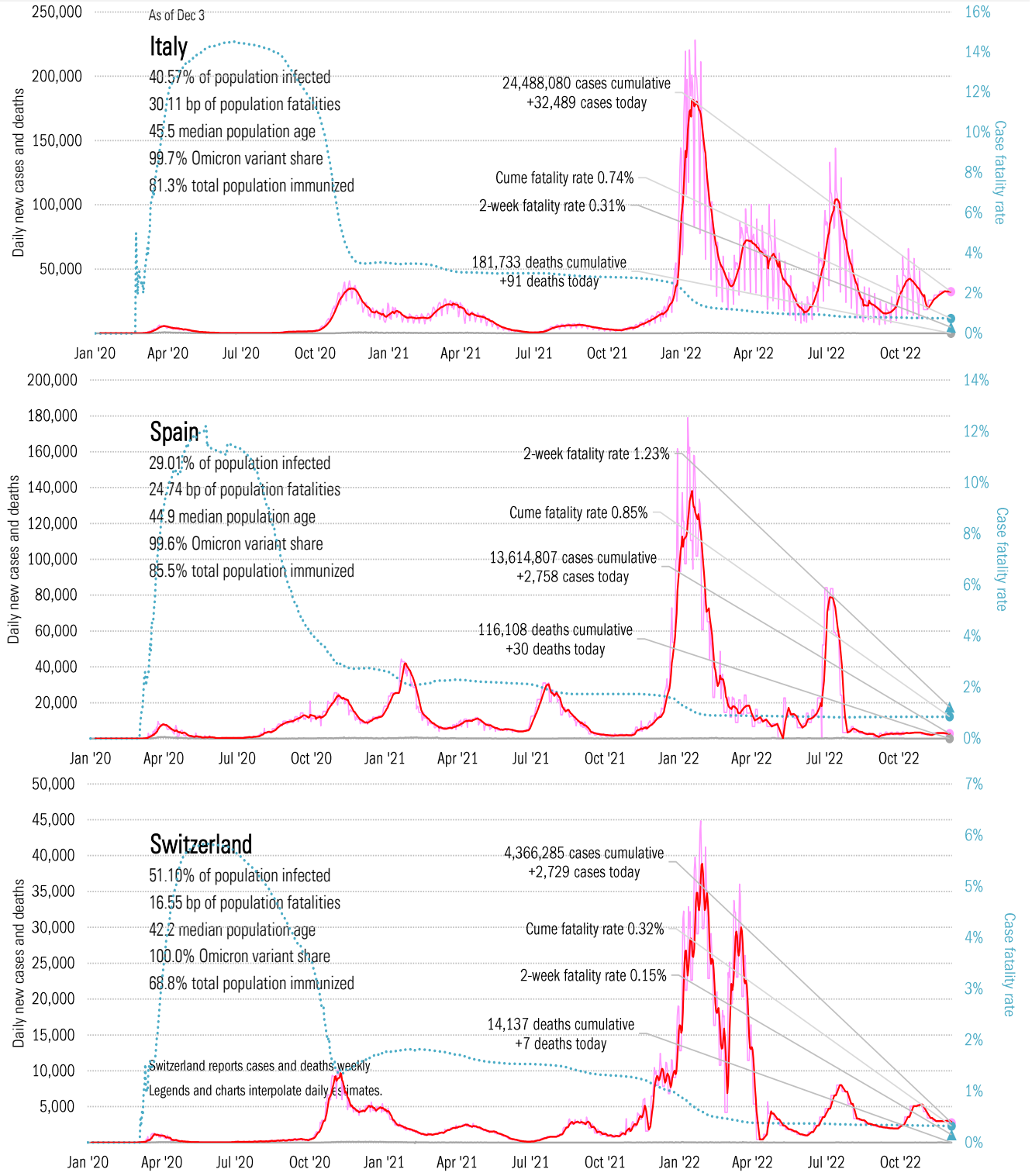
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

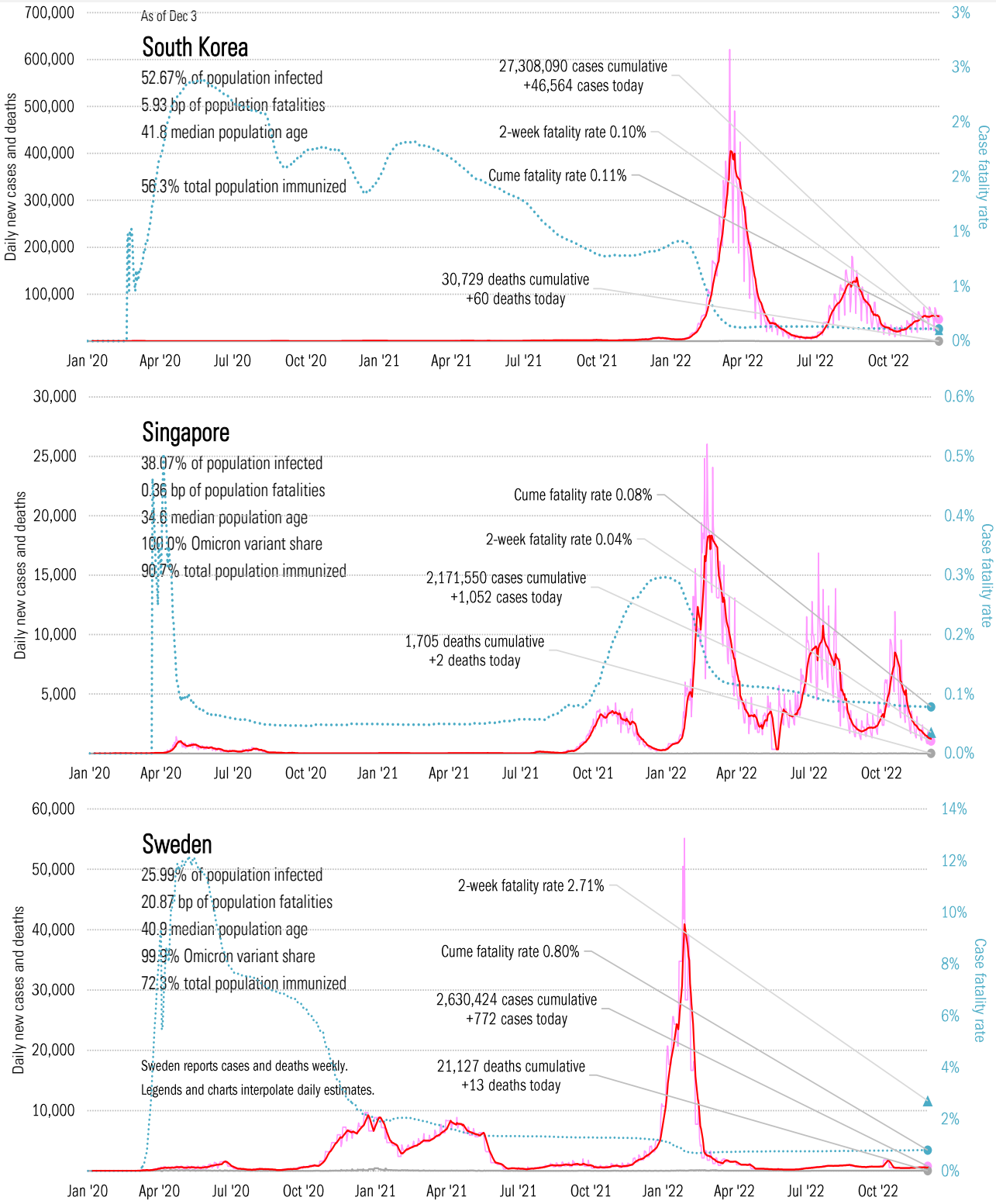
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

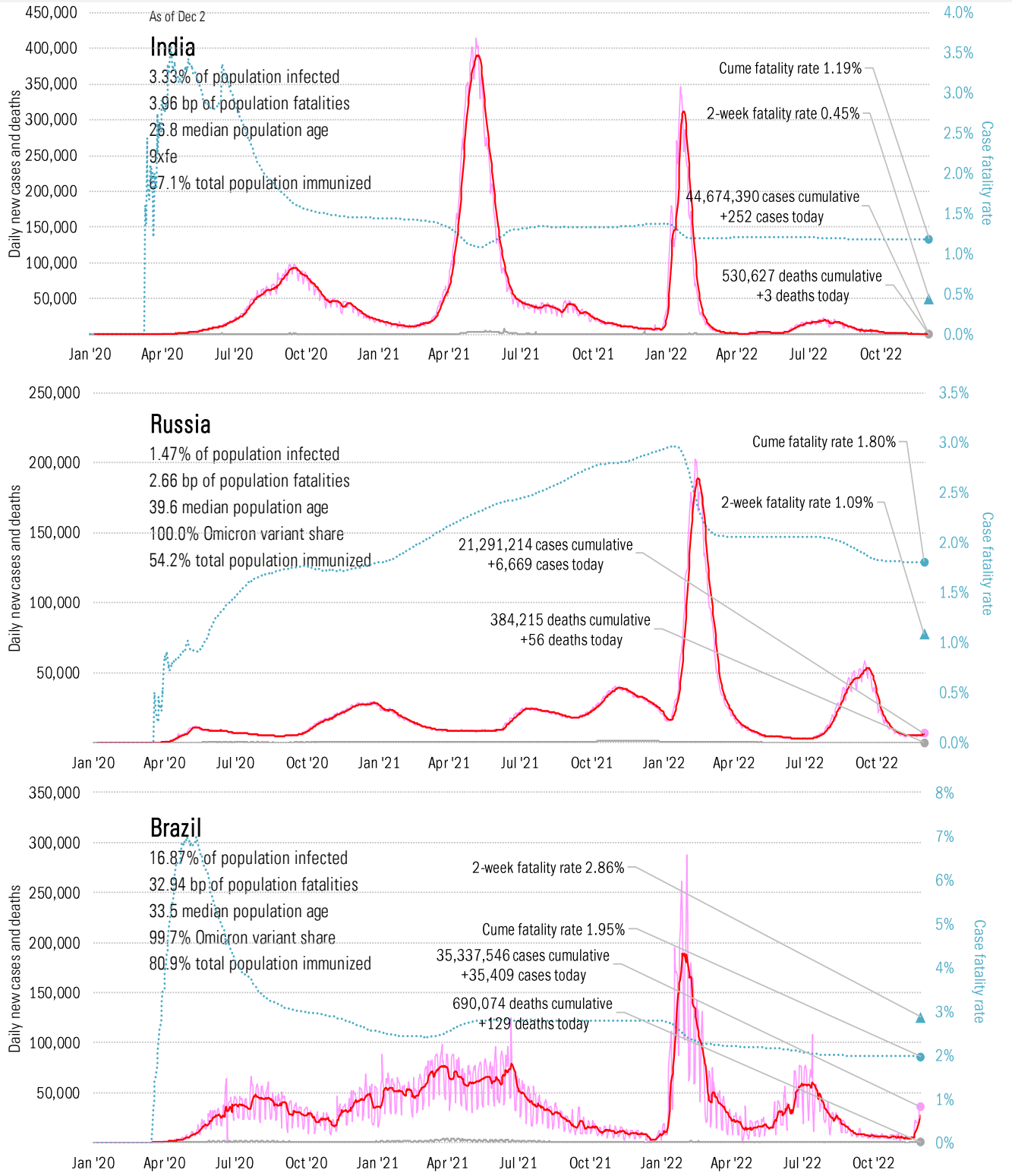
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

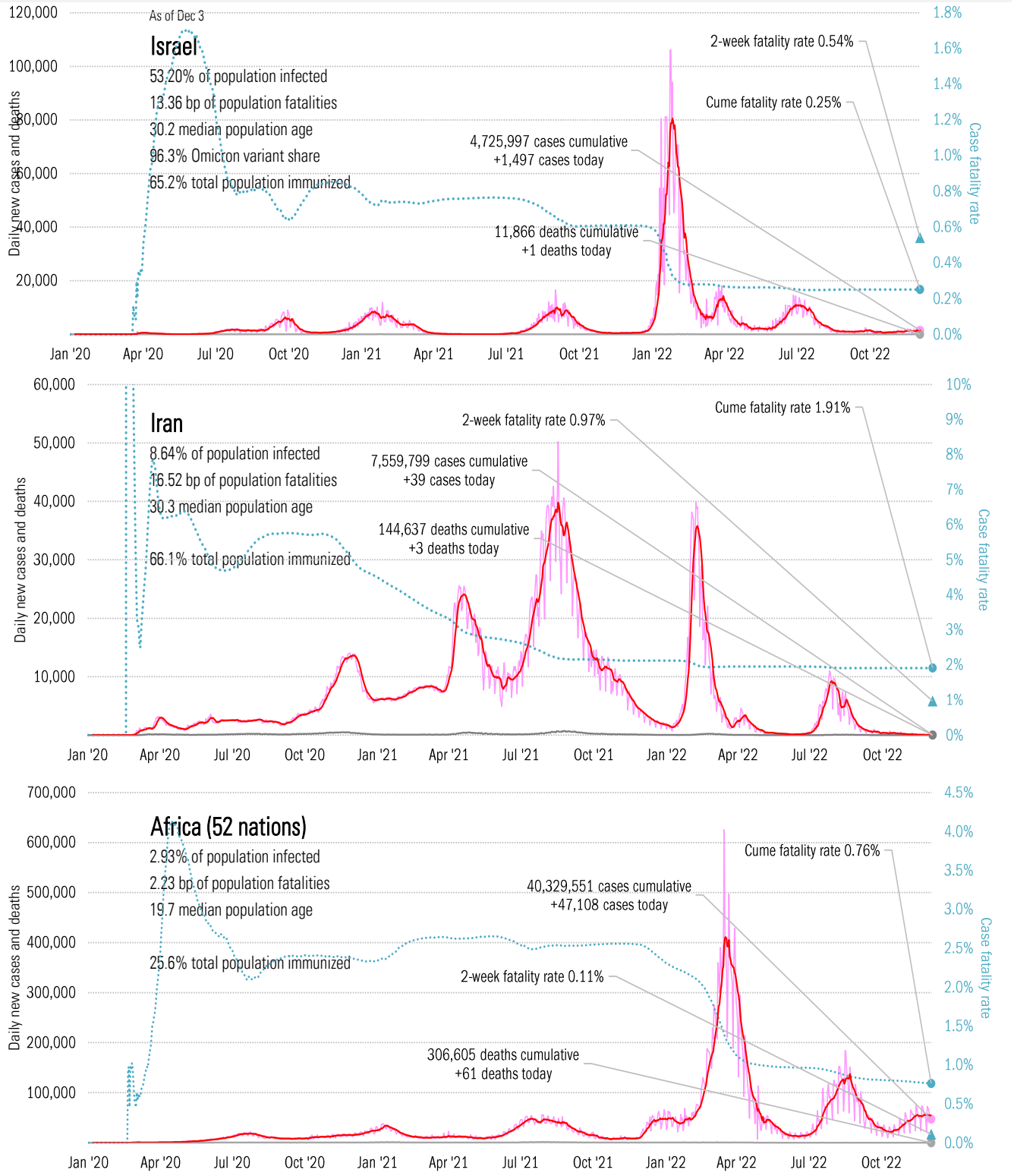
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

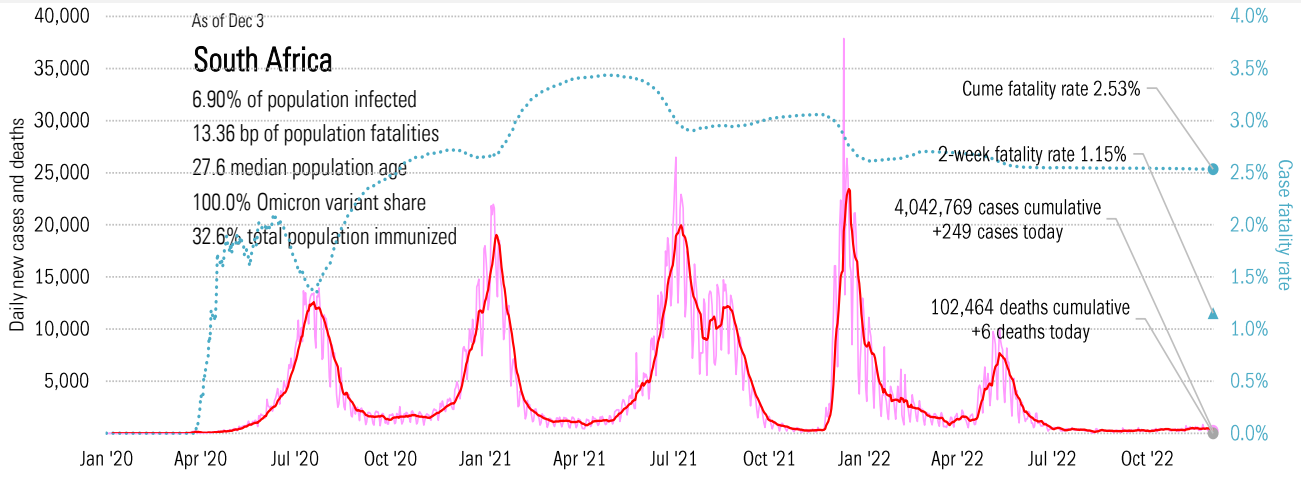
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations