Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

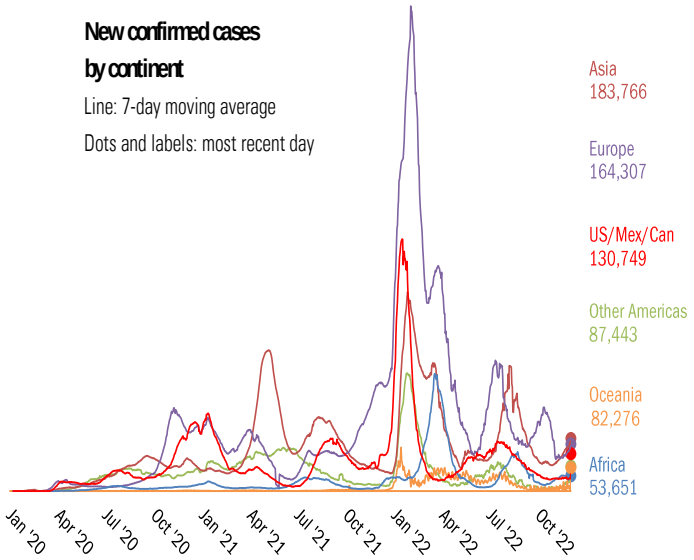
Friday, December 2, 2022

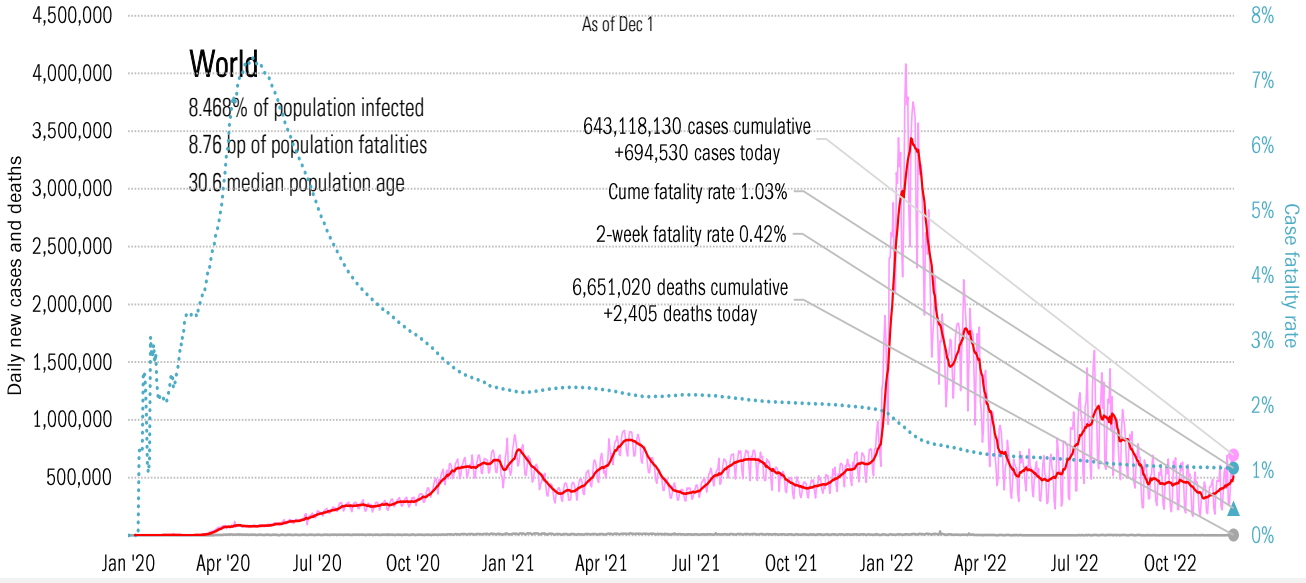
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	118,201	United Kingdom	64
United States	107,580	United States	368
France	69,437	Brazil	280
Korea, South	52,987	Finland	183
Brazil	37,269	Japan	182
China	35,394	Germany	166
Italy	32,732	Canada	131
Germany	30,420	Sweden	13
Taiwan*	15,642	France	76
Canada	12,417	Australia	66
	512,079		1,529
World	694,530	World	2,405
Top ten	74%	Top ten	64%





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

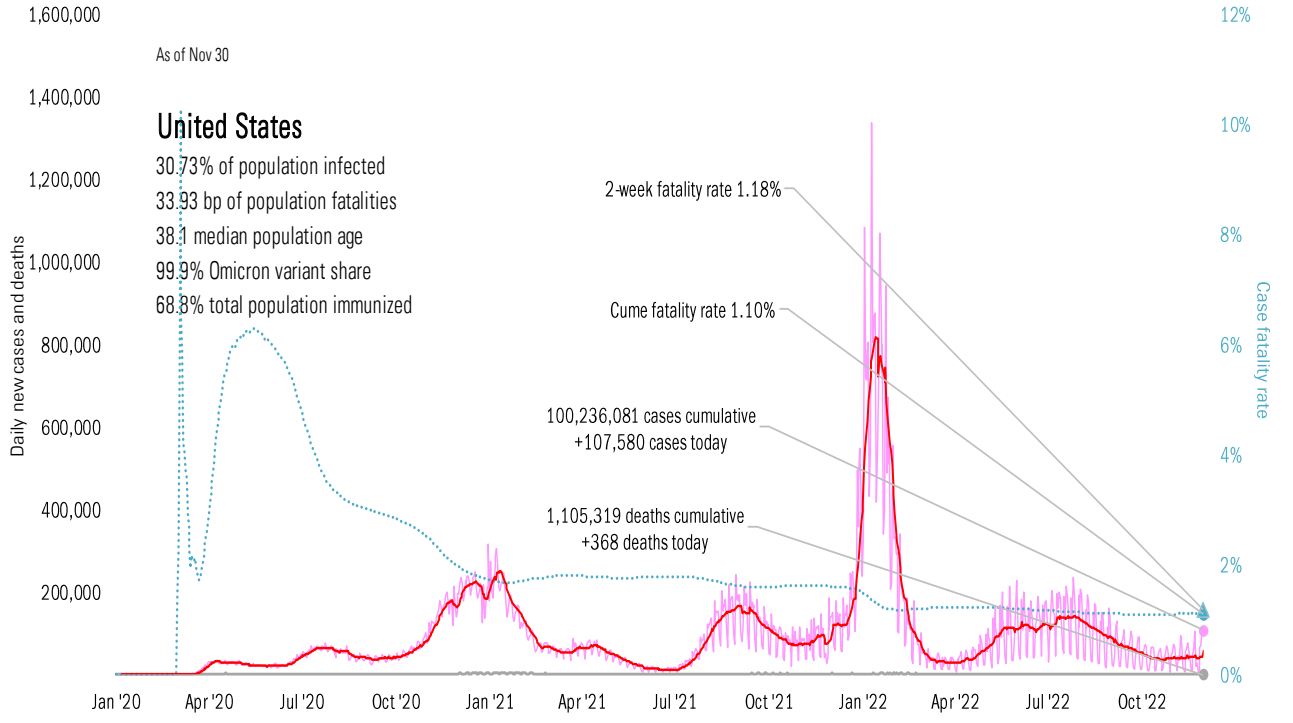
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
PA	10,213	FL	48	CA	715	CA	11,505,424	CA	97,529	TX	556,727	RI	91%	DE	132%
TX	7,907	NY	36	TX	386	TX	8,102,937	TX	91,419	CA	520,880	MN	88%	TX	91%
NY	6,923	VA	25	NY	471	FL	7,239,478	FL	82,875	FL	504,601	MA	88%	AL	87%
IL	5,723	IL	21	OH	268	NY	6,380,782	NY	73,983	NY	321,496	GA	88%	OK	87%
CA	4,735	UT	21	PA	209	IL	3,877,441	PA	48,387	GA	230,243	NH	87%	NC	87%
FL	3,355	NJ	19	GA	133	PA	3,360,797	GA	41,070	OH	228,450	WA	87%	AK	86%
NJ	3,009	PA	17	FL	223	NC	3,275,343	OH	40,466	PA	214,530	WV	87%	NM	86%
AZ	1,855	MI	16	AL	76	OH	3,227,759	IL	40,303	IL	196,572	MO	86%	MA	86%
VA	1,832	MA	16	IL	234	GA	2,943,519	MI	40,085	MI	170,571	CT	86%	KY	85%
CO	1,773	OH	15	KY	85	MI	2,938,443	NJ	35,129	KY	148,124	KY	85%	RI	85%
	47,325		233		2,800		52,851,923		591,246		3,092,194				
All states	68,272		402		5,141	All states	##########		1,104,999		5,617,924	All states	70%		67%
Top ten	69%		58%		54%	Top ten	53%		55%		55%	Median	81%		79%

Some states not reporting

Five most improved US states

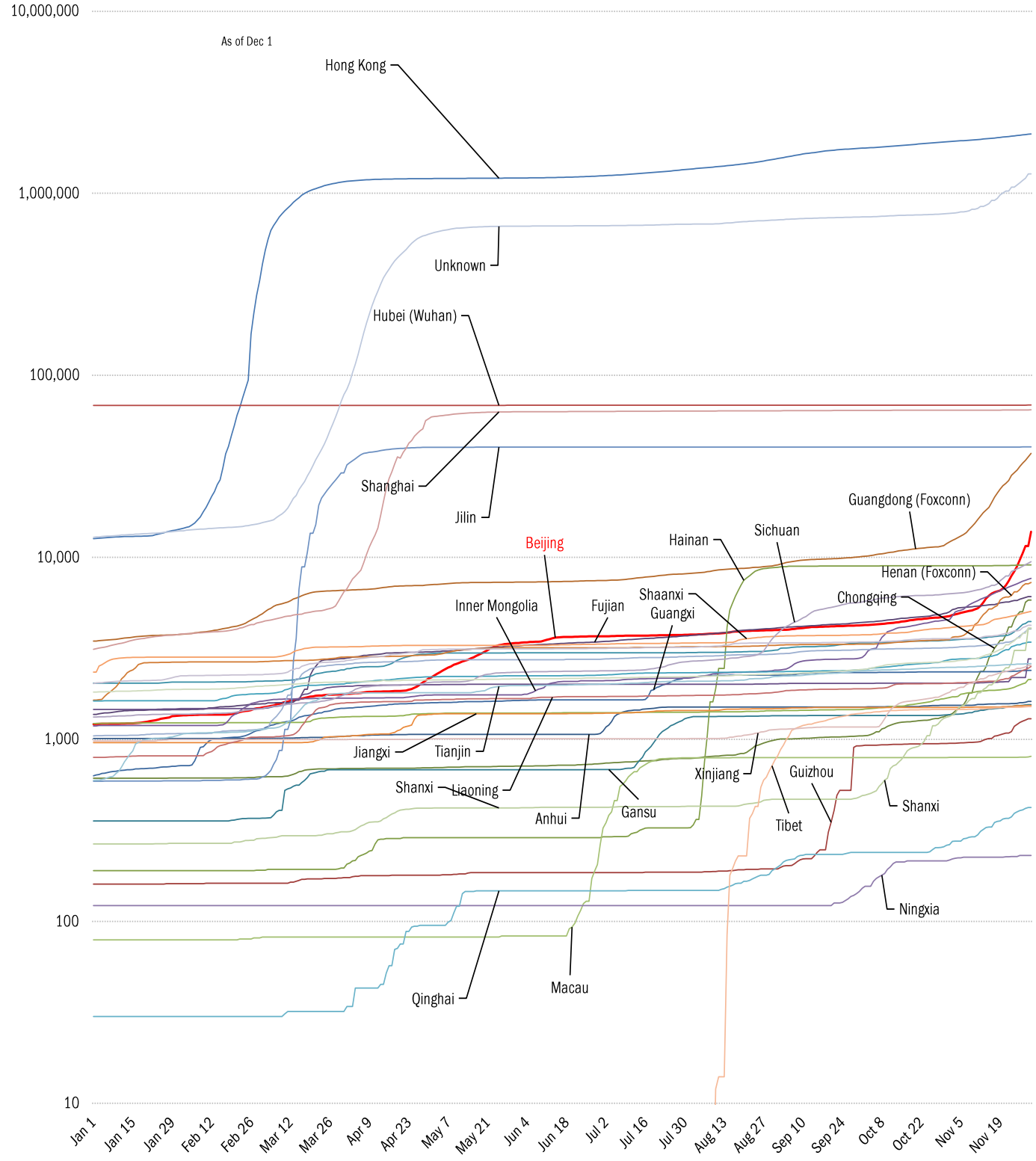
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MO	-384	NY	-40	OR	-27
AZ	-60	NV	-18	AZ	-25
AK	0	MD	-13	MA	-18
AL	0	SD	-5	VA	-18
DC	0	AZ	-3	IA	-16



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

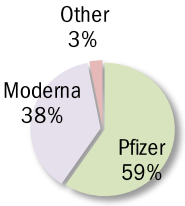
Rolling out the vaccines in the US and the world

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

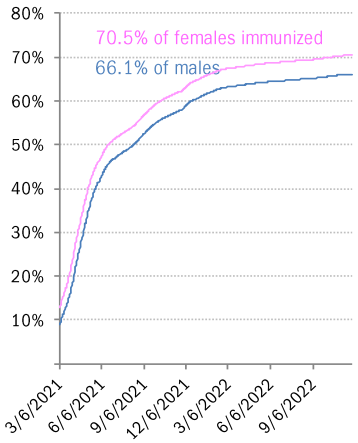
Best
Middle
Worst

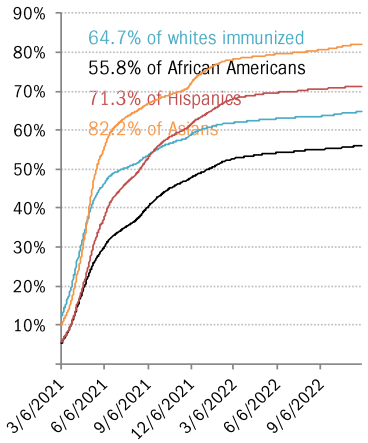
As of Dec 2

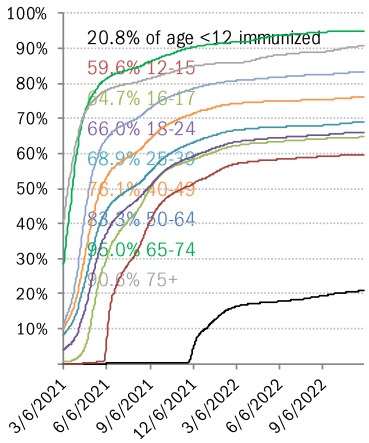
					WI					ME
					74.6%					95.0%
					67.8%					82.7%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.5%	63.5%	67.8%	68.8%	78.2%	78.8%	69.1%		93.7%	95.0%	86.4%
75.5%	56.1%	58.8%	58.2%	71.6%	70.9%	62.0%		80.1%	84.8%	70.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.9%	78.3%	60.5%	83.0%	70.2%	64.0%	65.3%	89.7%	93.9%	95.0%	
71.8%	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%			
HI			TX					FL		PR
90.8%			75.7%					81.9%		95.0%
81.0%			62.9%					69.0%		86.7%

AK
72.5%
64.8%

The demographics of US vaccination

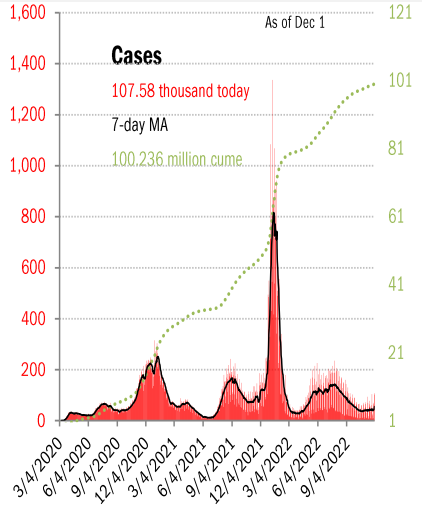


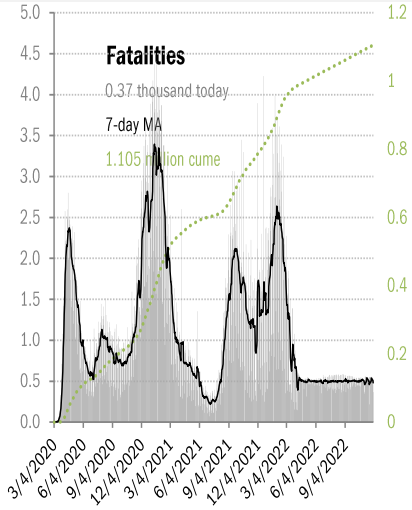


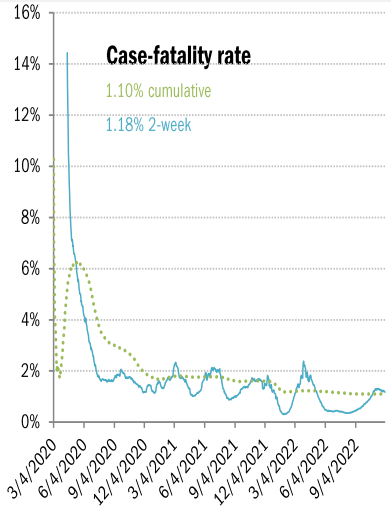


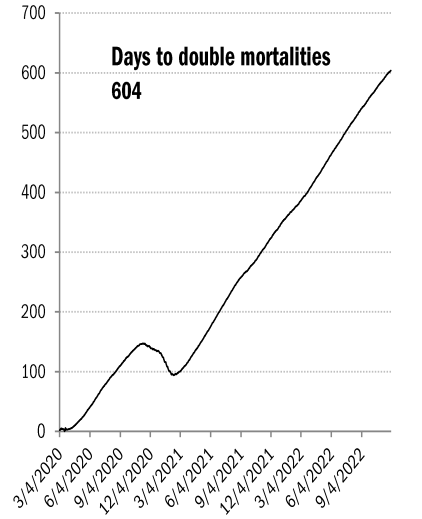
Source: CDC, CDC, Our World in Data, TrendMacro calculations

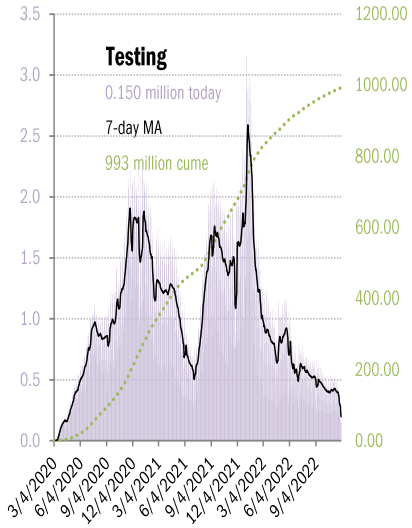
US deep-dive

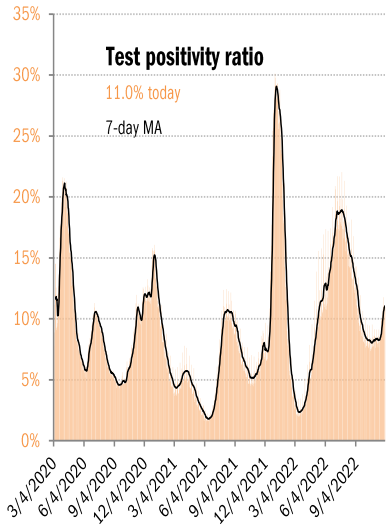


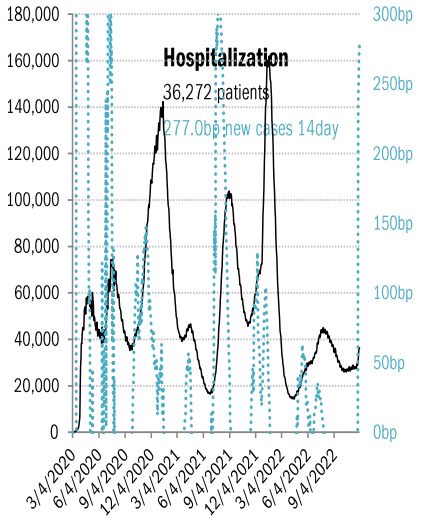


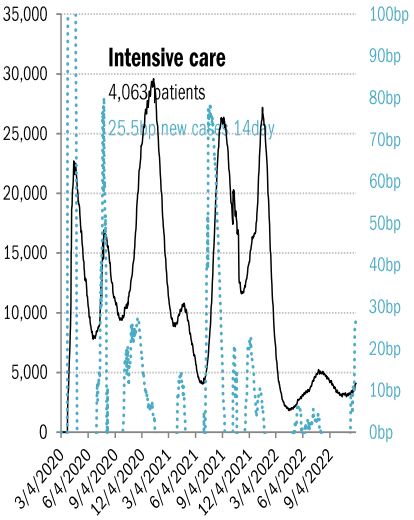


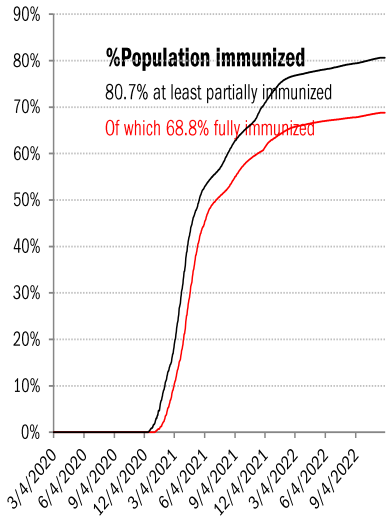












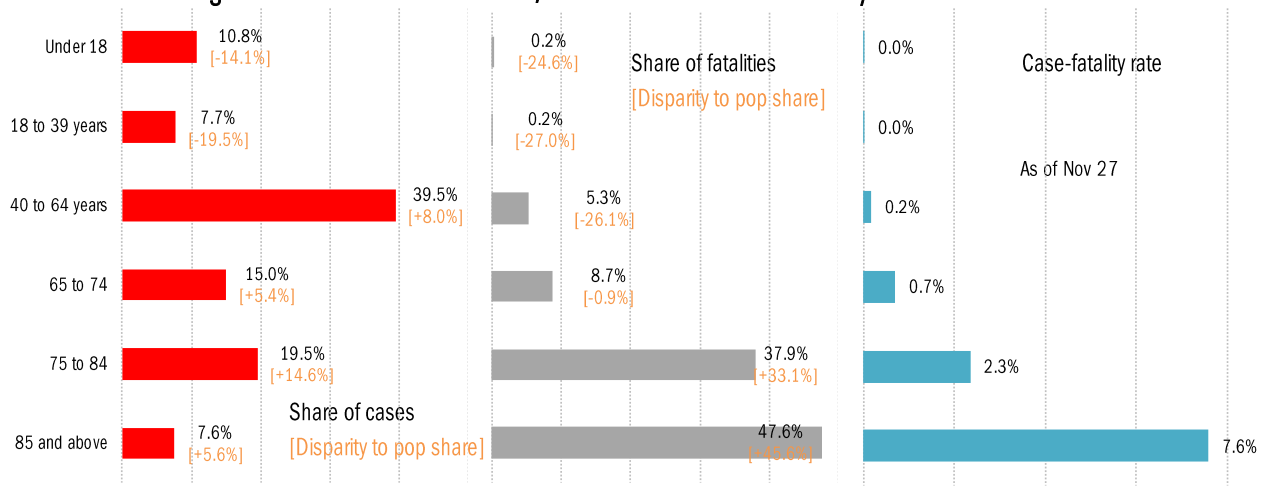
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

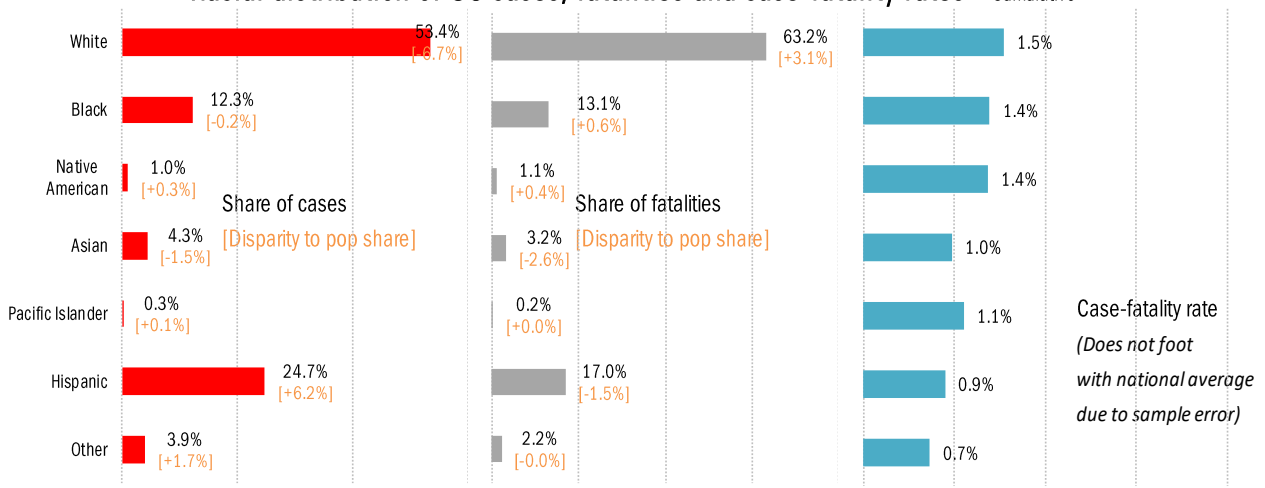
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



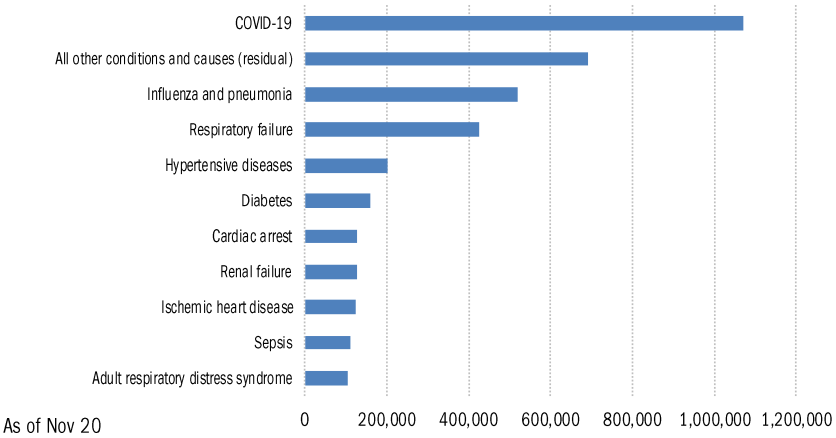
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

China's Young Protesters Wrestle With How Far to Push: 'We Don't Want Covid Tests, We Want Freedom'
Brian Spegele
Wall Street Journal
December 1, 2022

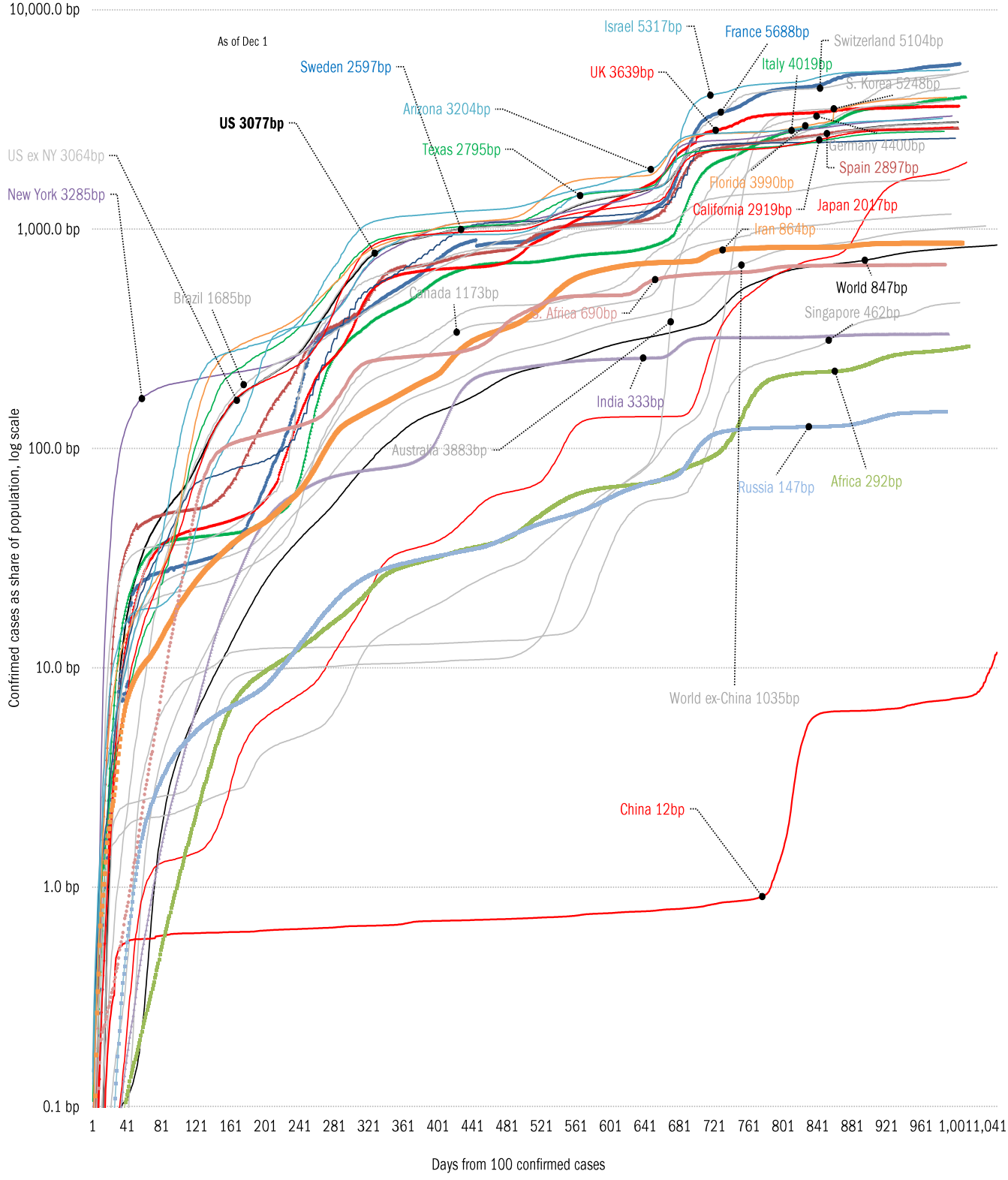
Xi Jinping Approaches Multiple Points of No Return
Joseph C. Sternberg
Wall Street Journal
December 1, 2022

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

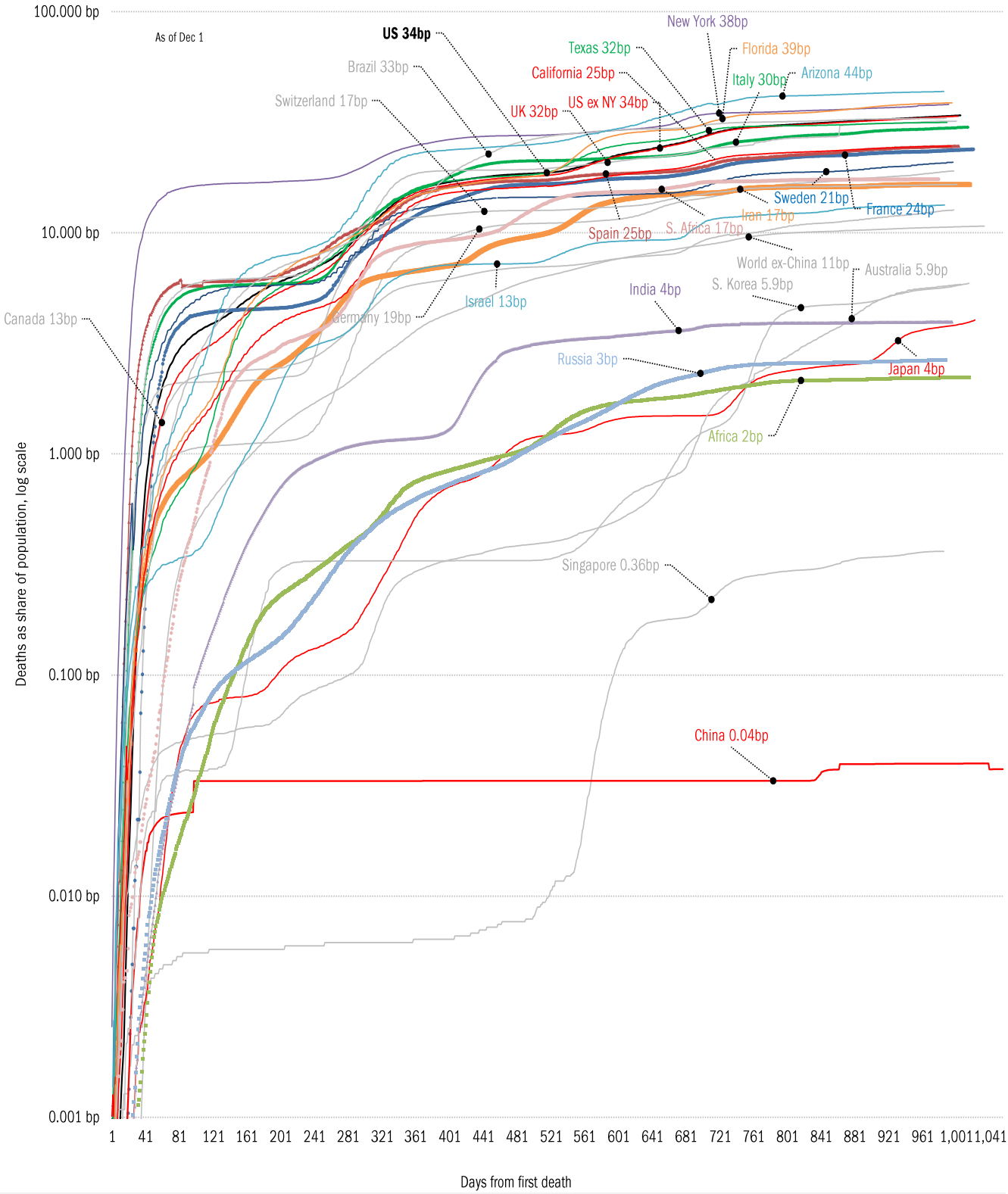
Share of infected population from first day with 100 confirmed cases, log scale



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

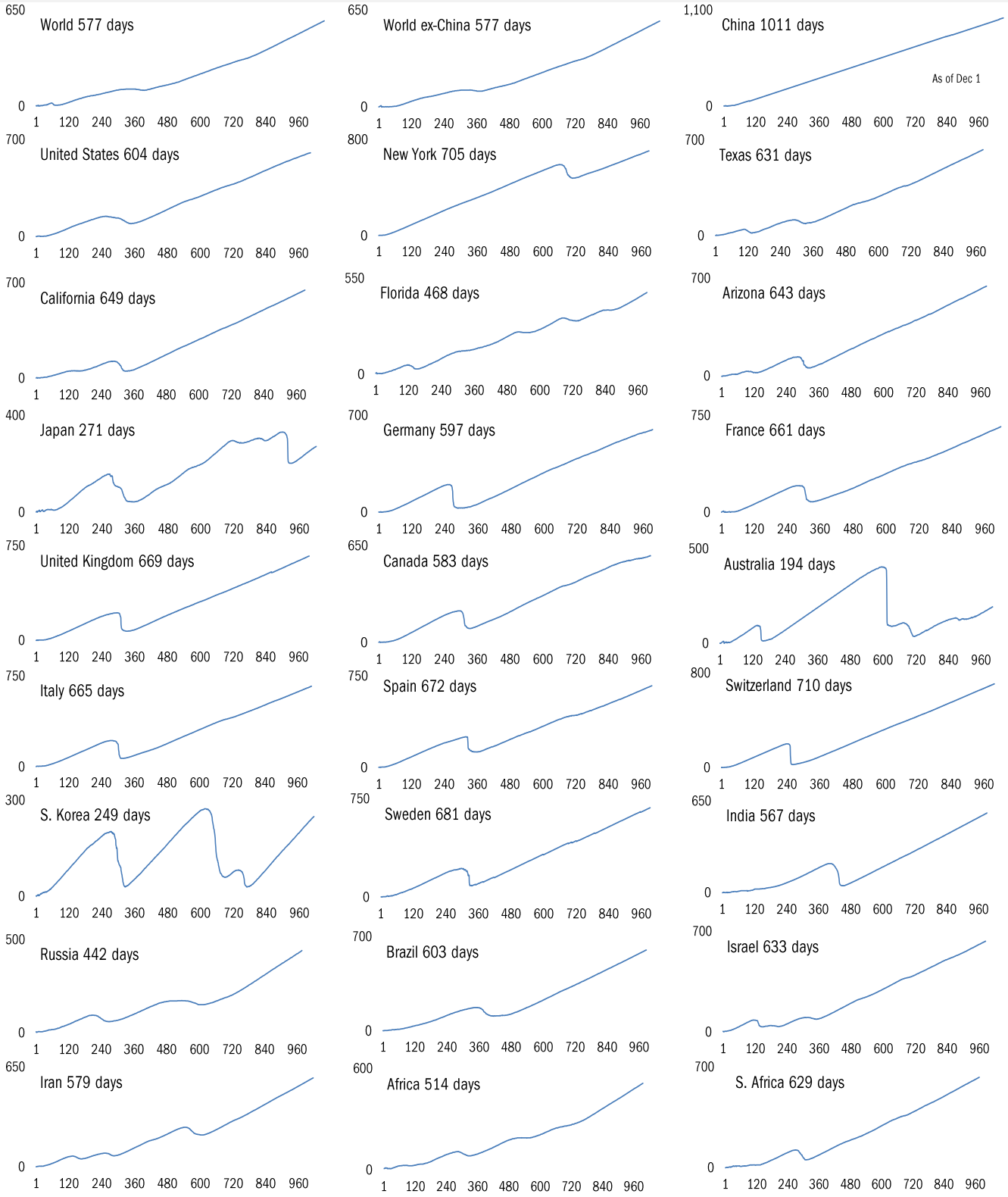


Source: Johns Hopkins, TrendMacro calculations

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

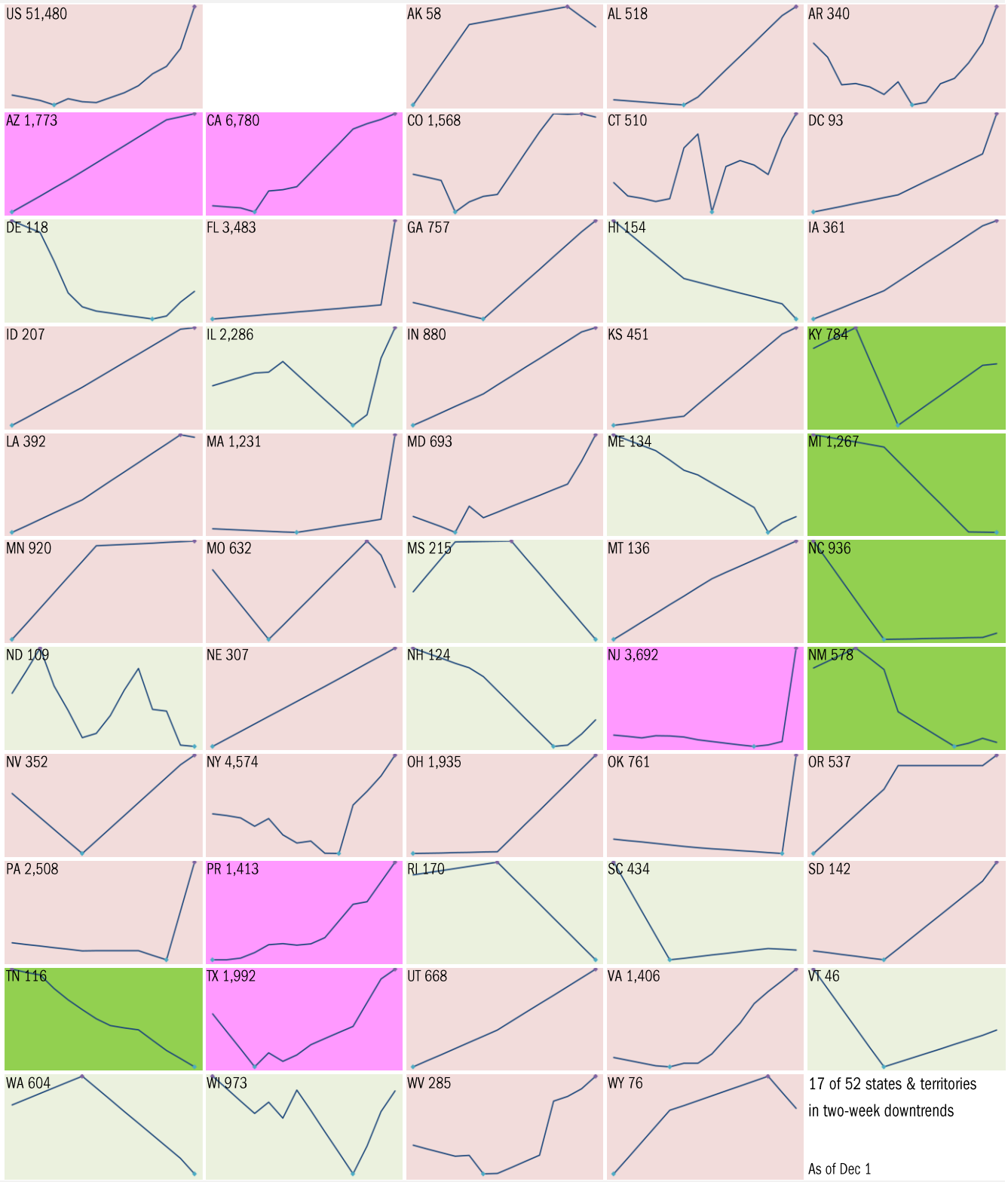


Source: Johns Hopkins, TrendMacro calculations

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

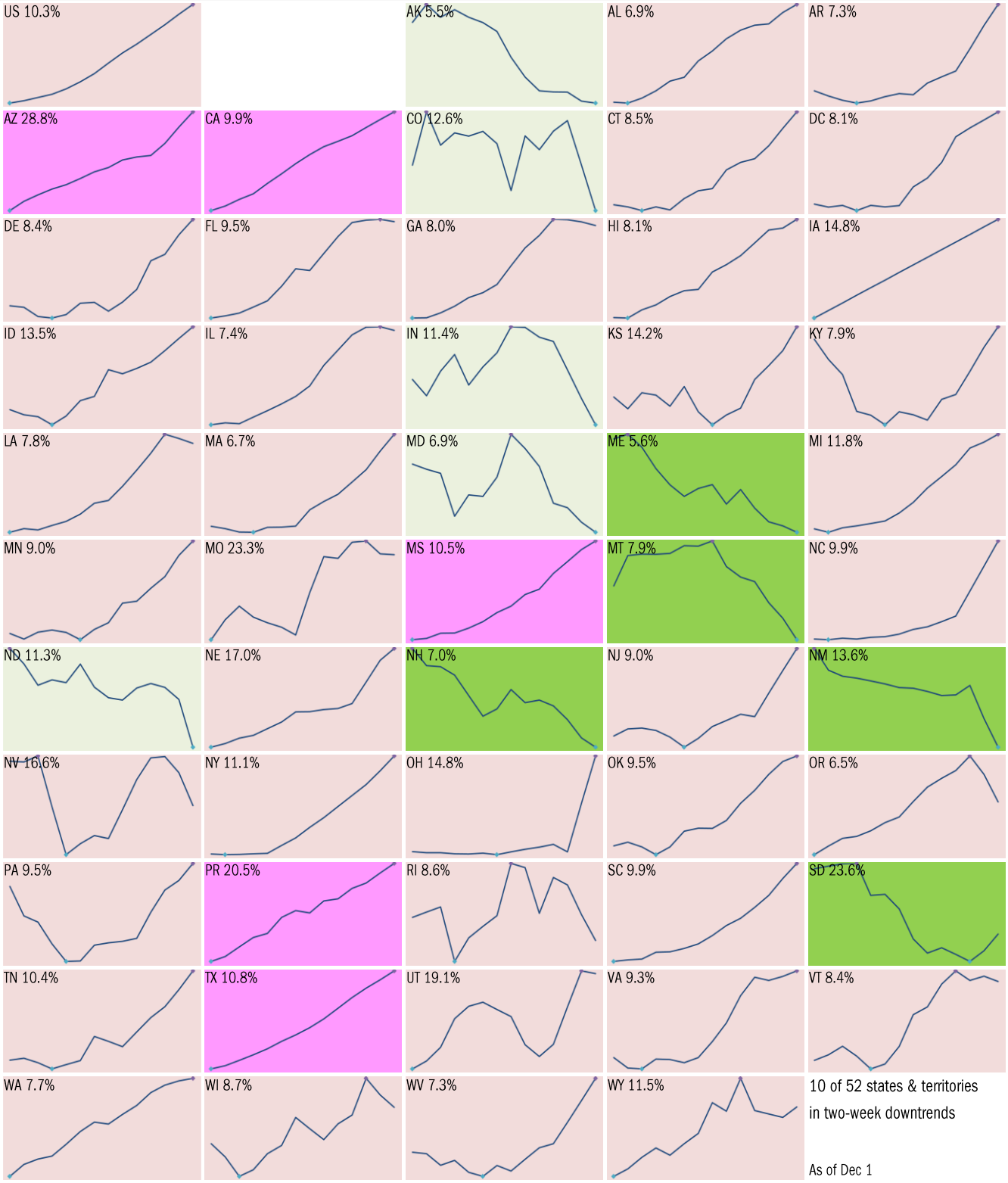


Source: Johns Hopkins, TrendMacro calculations

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

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

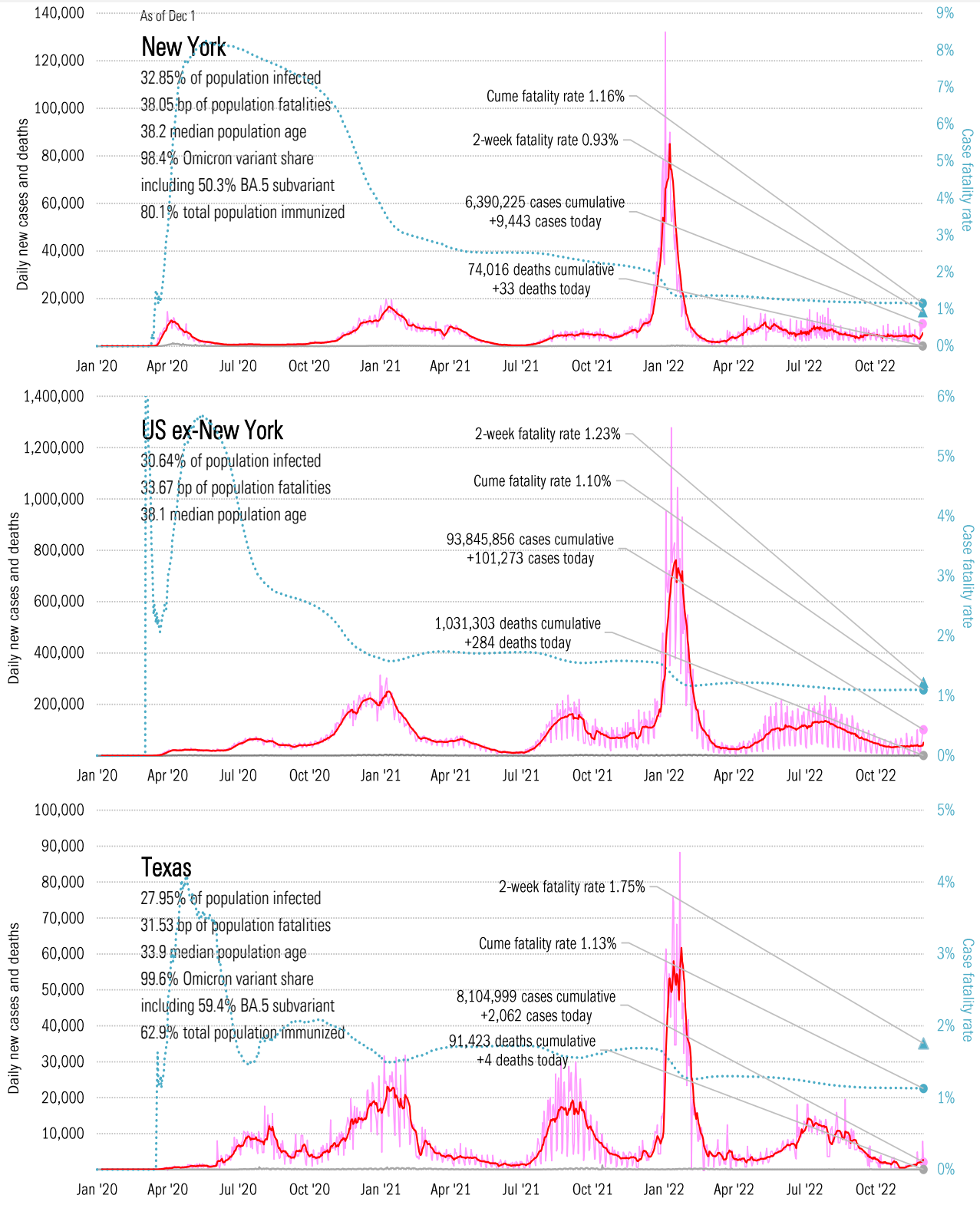
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

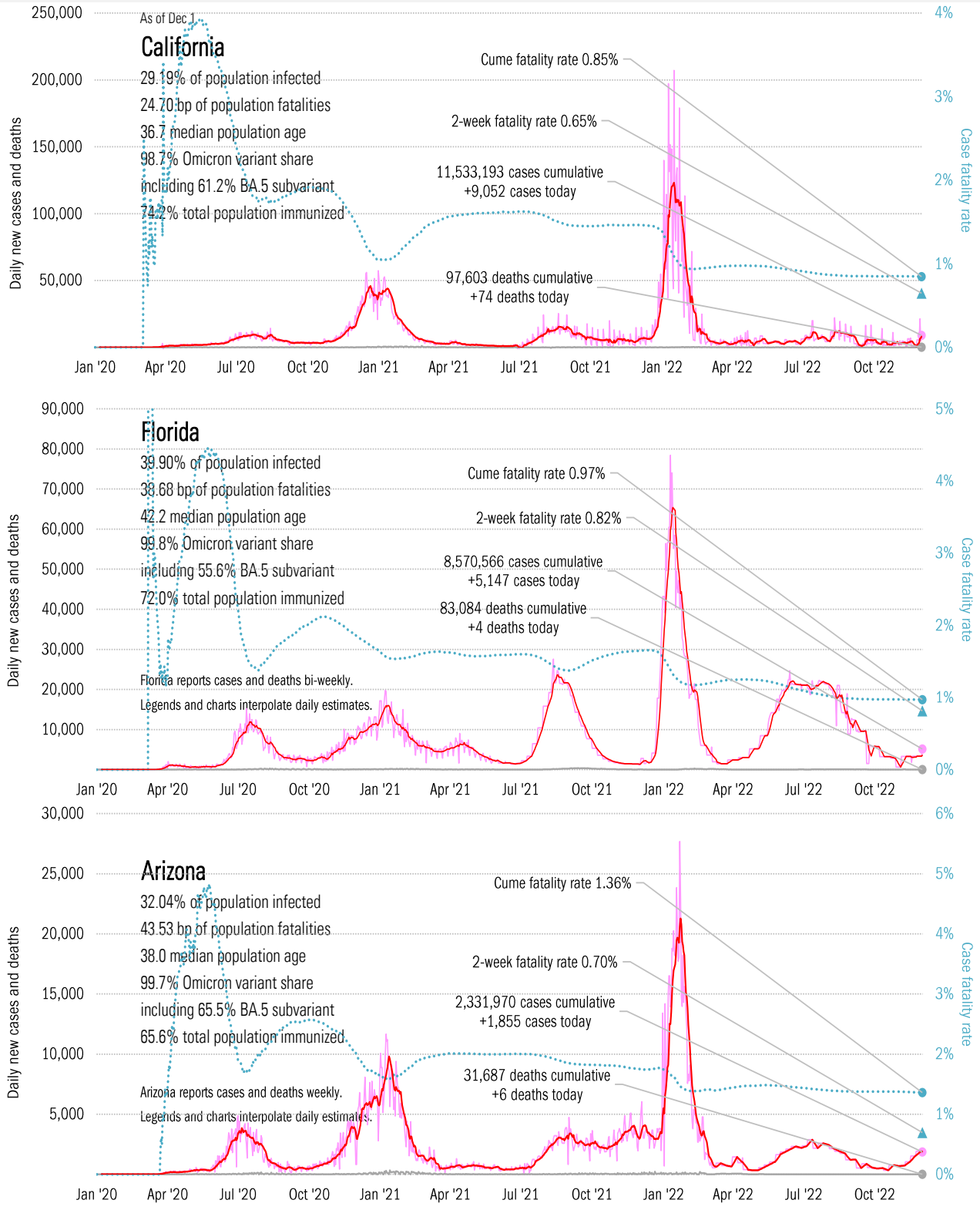
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

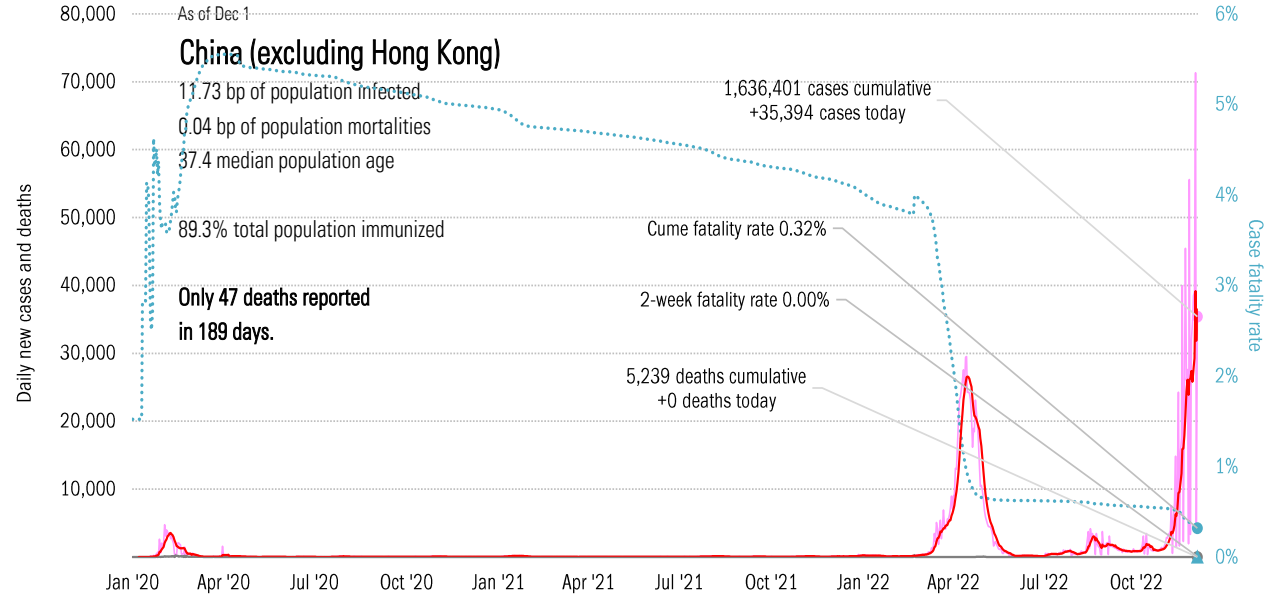
Cases: 7-day average and daily Deaths: Daily

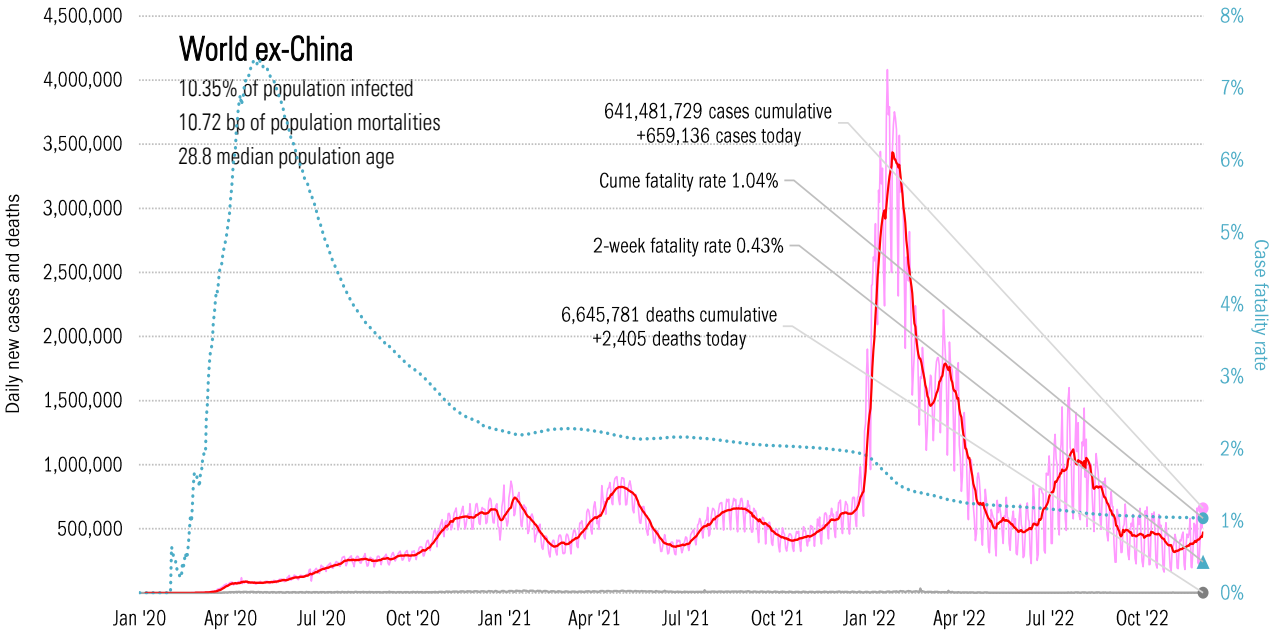


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

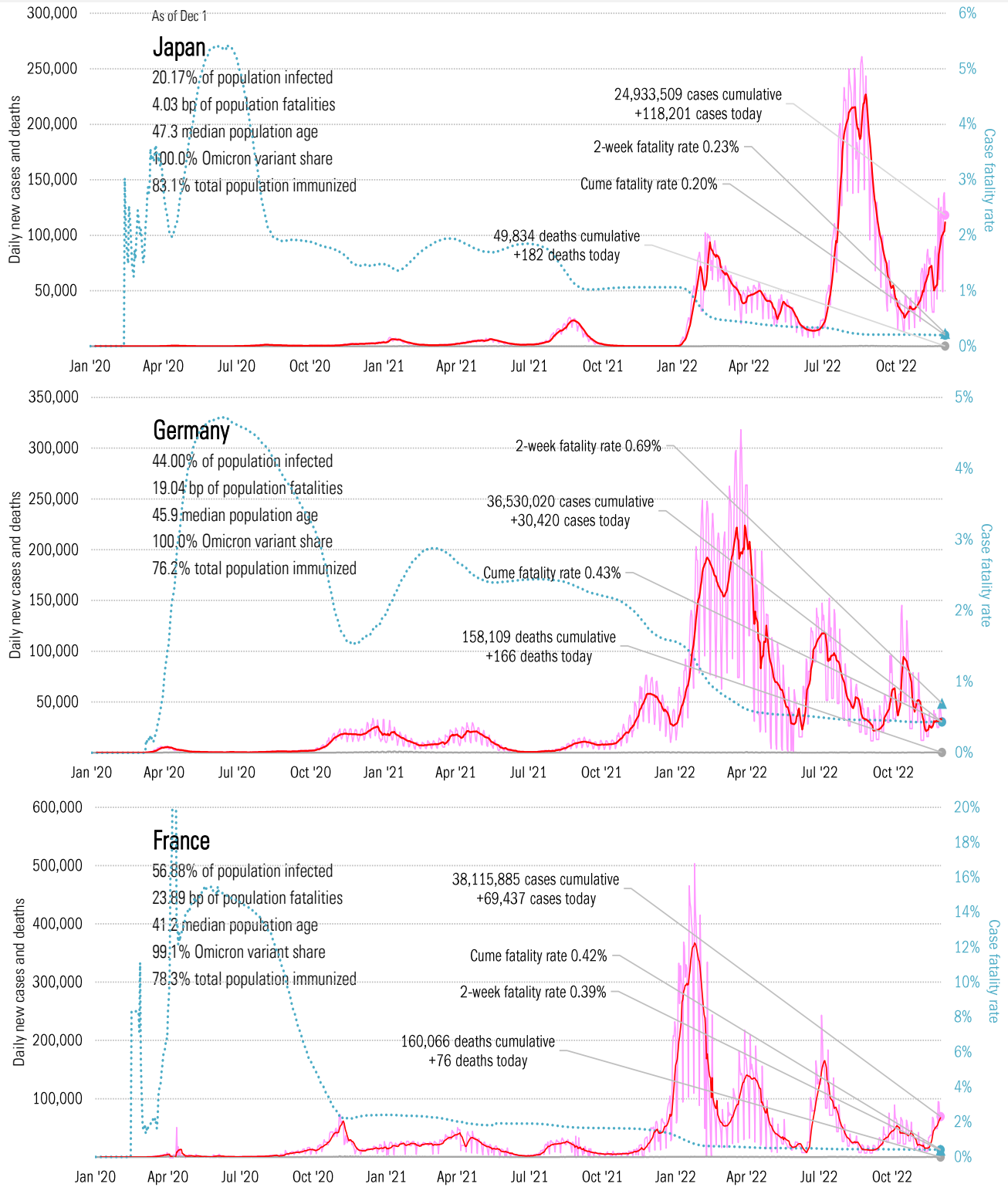




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

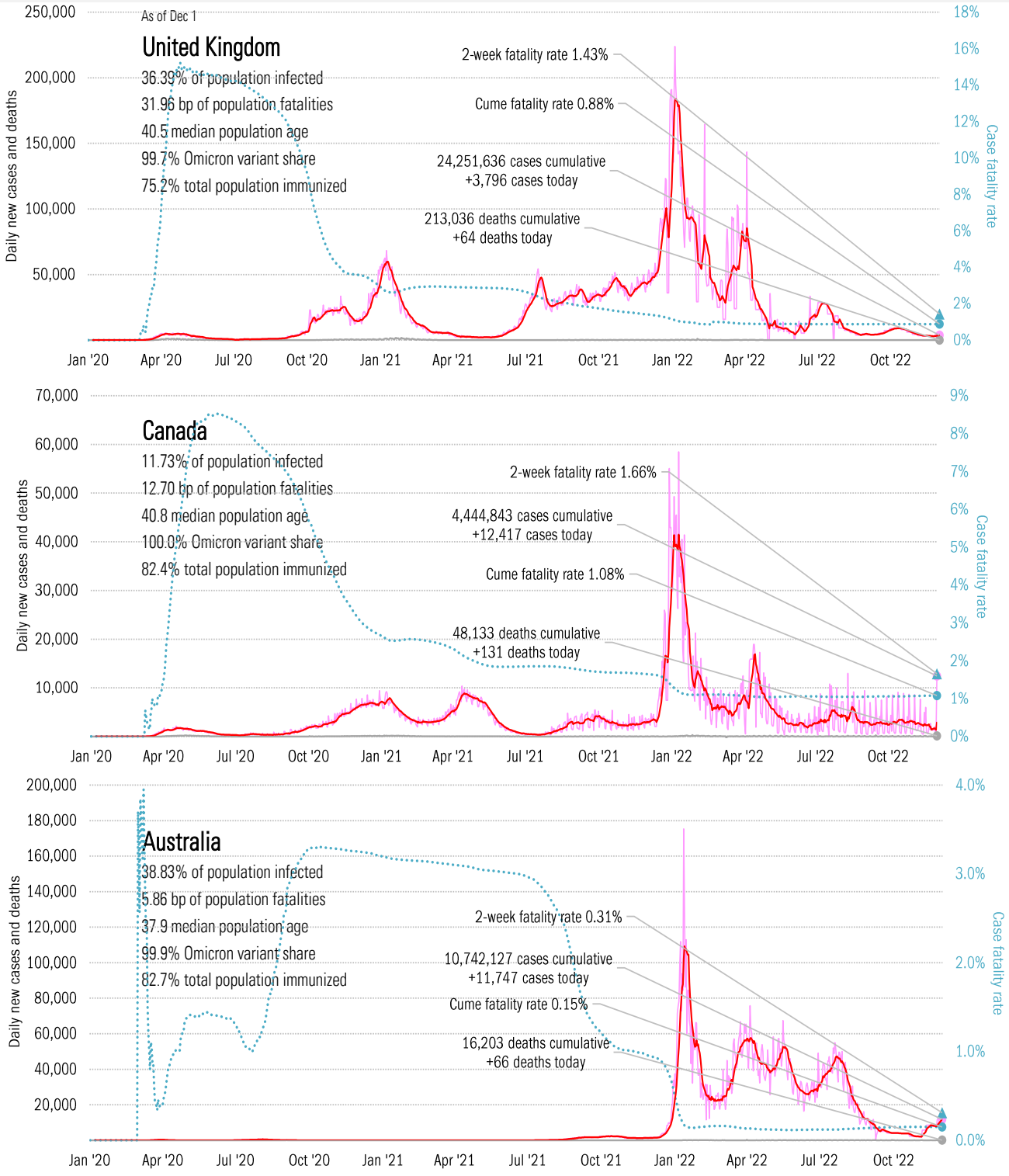
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

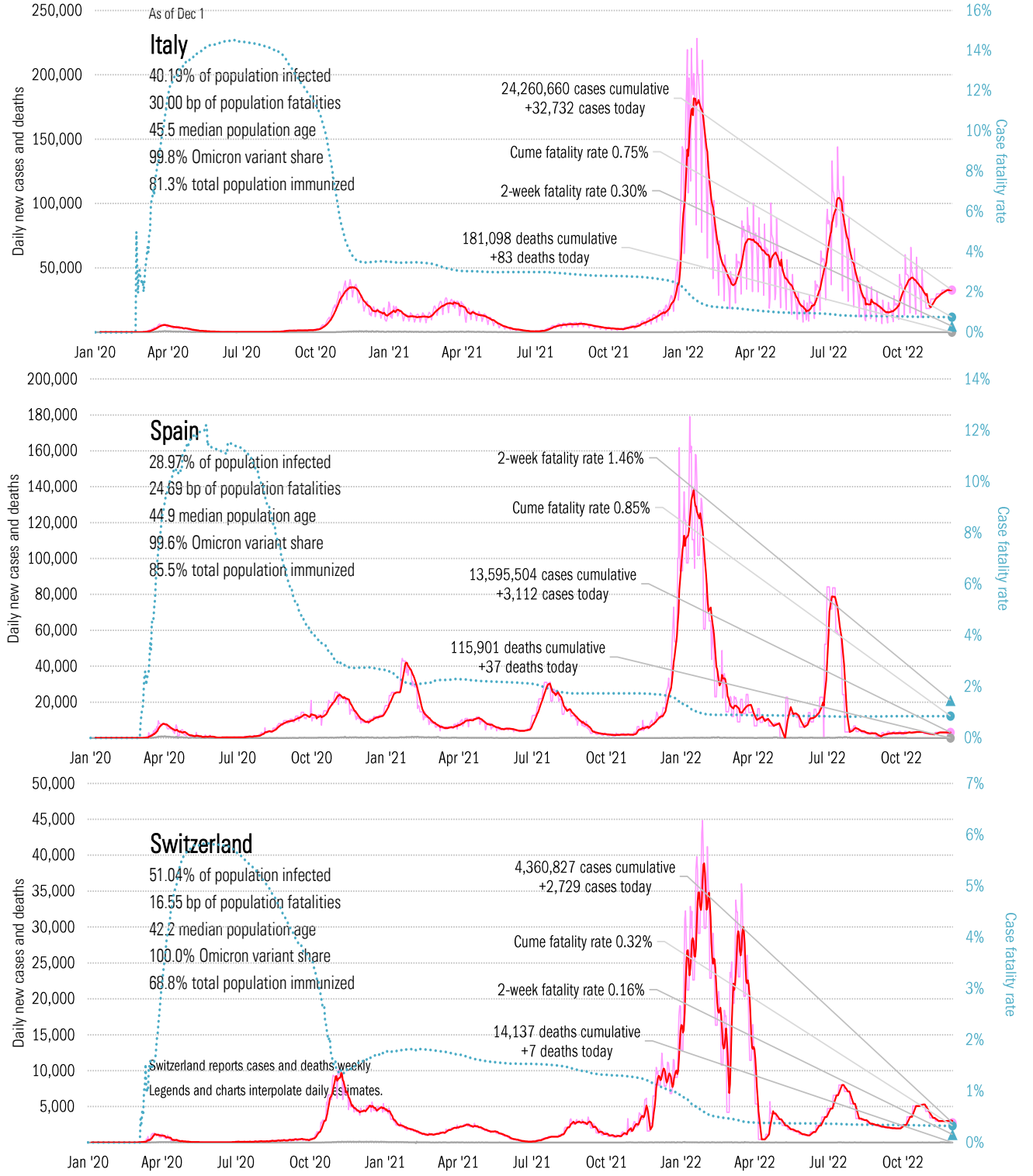
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

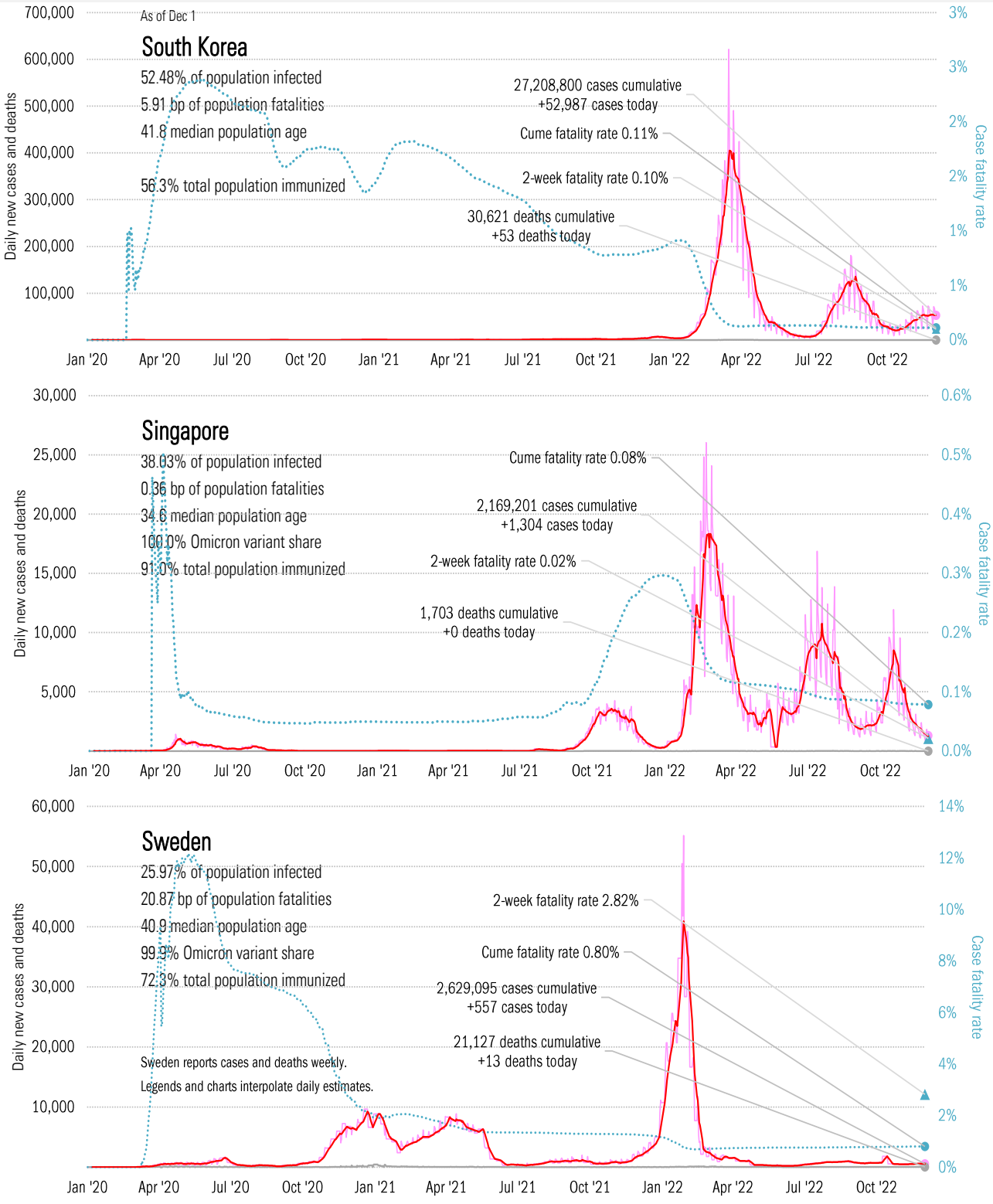
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

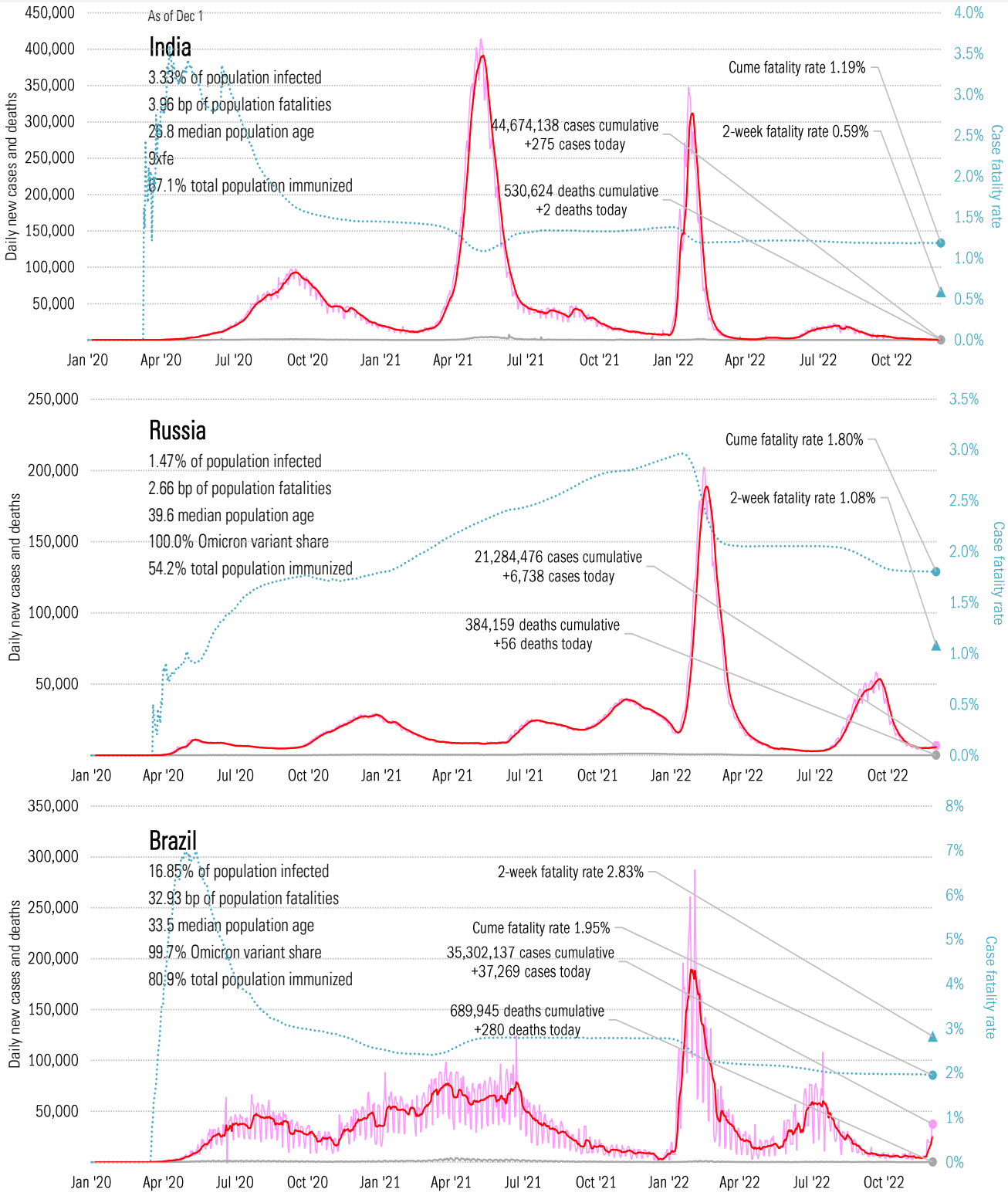
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

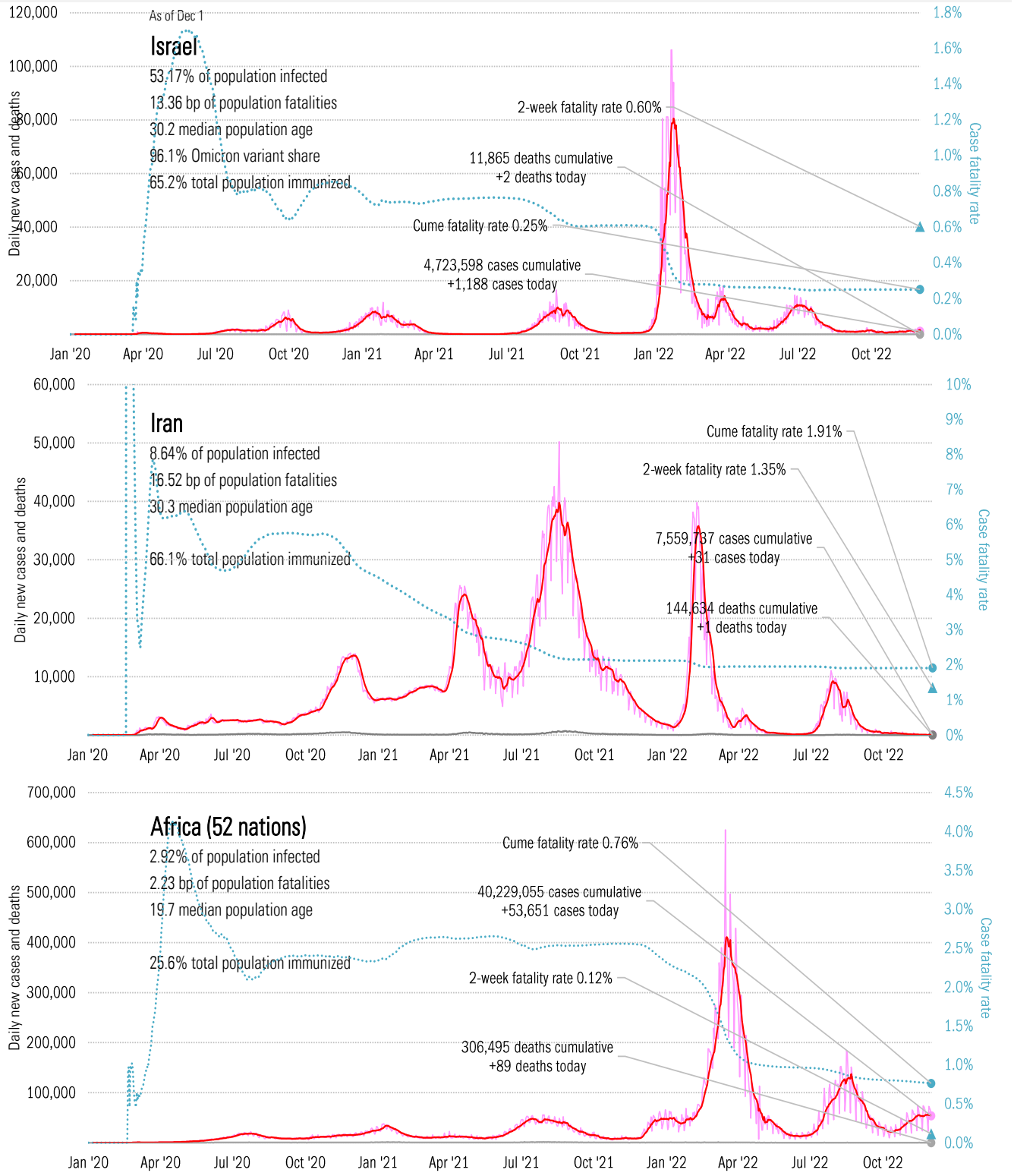
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

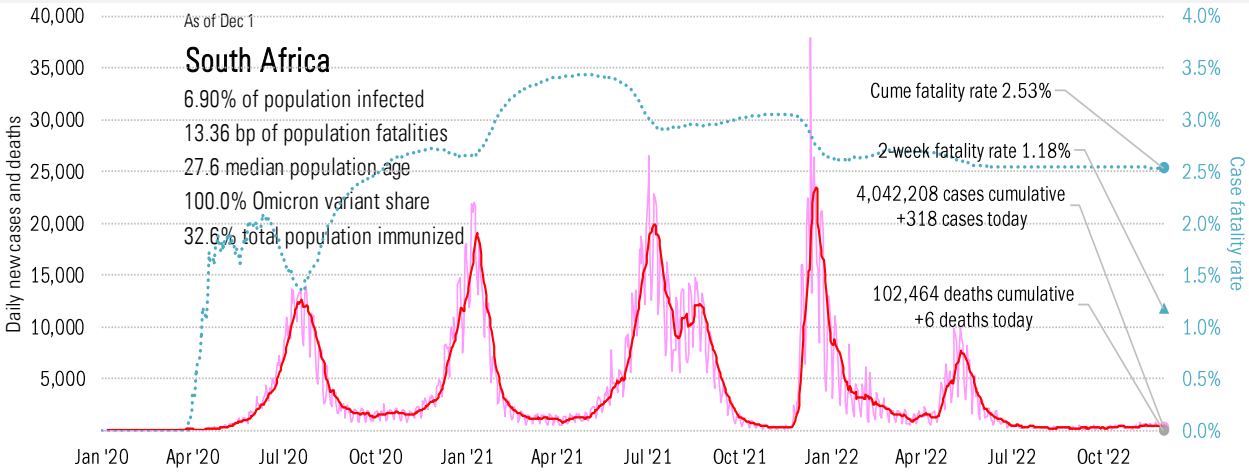
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations