Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

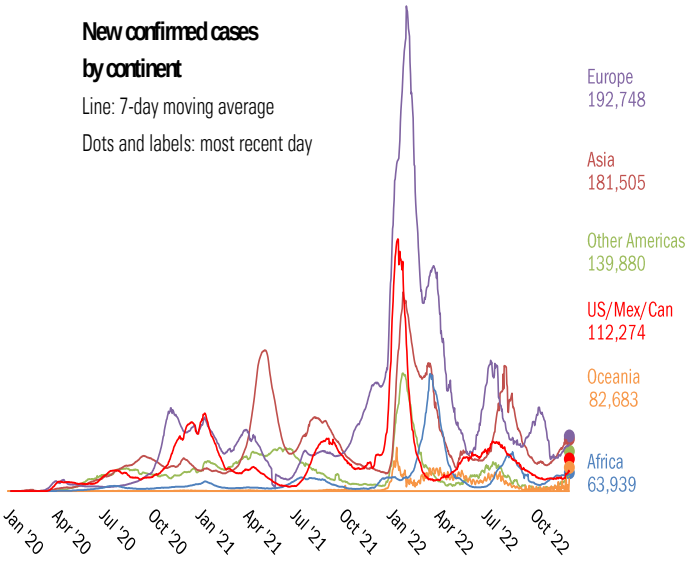
Friday, December 9, 2022

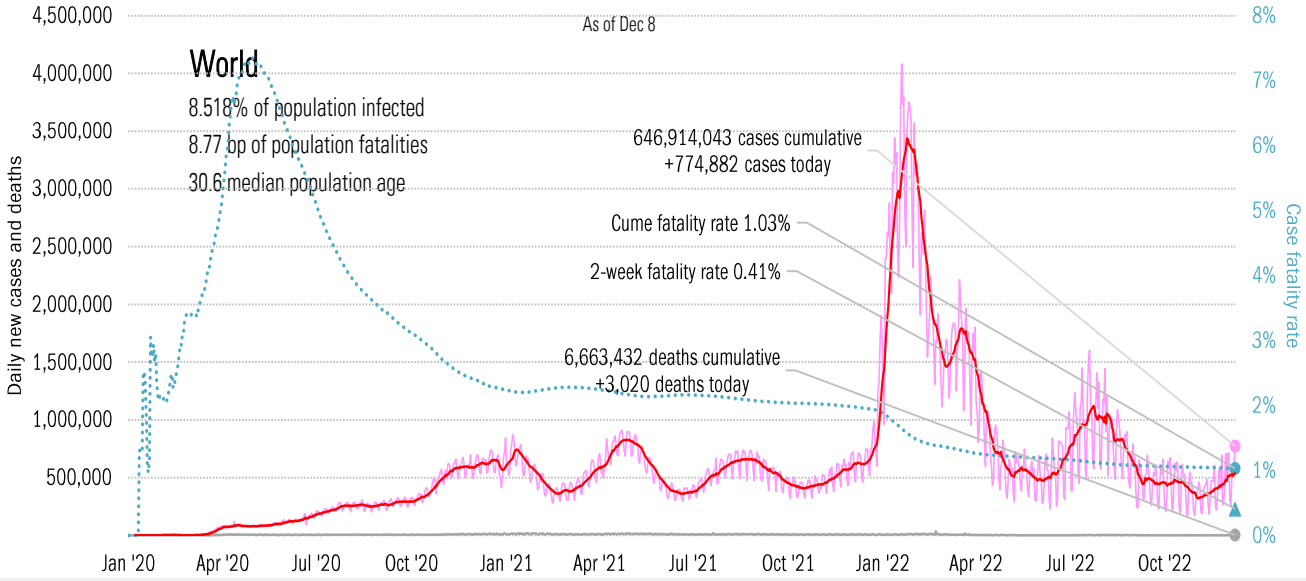
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	133,065	United States	677
United States	71,751	Japan	243
France	71,621	Germany	167
Korea, South	62,734	Brazil	149
Germany	35,826	Australia	134
Italy	32,489	Finland	124
Brazil	22,588	Italy	91
China	21,105	Canada	69
Taiwan*	15,273	Korea, South	67
Finland	12,654	Portugal	67
	479,105		1,788
World	774,882	World	3,020
Top ten	62%	Top ten	59%





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

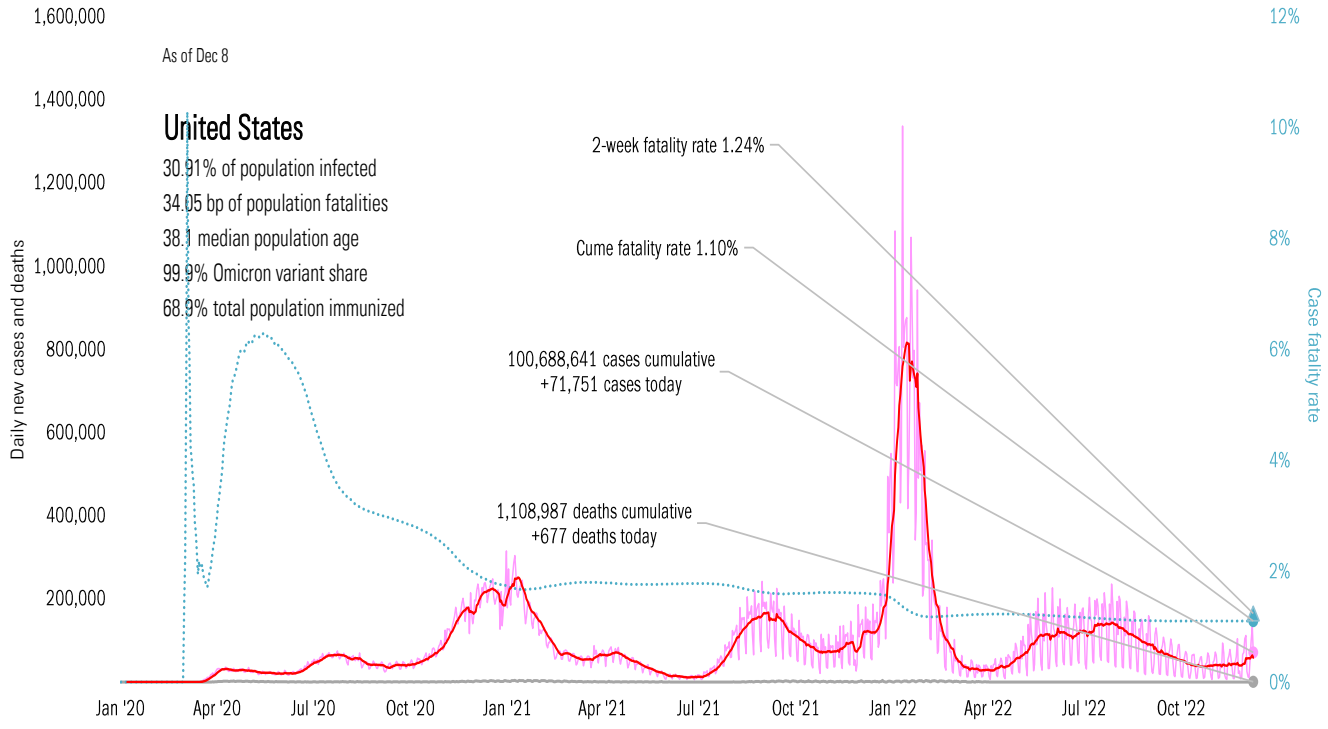
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	16,485	ND	178	FL	271	CA	11,616,570	CA	97,817	TX	558,841	RI	93%	TX	90%
NY	8,280	CA	135	GA	154	TX	8,133,430	TX	91,510	CA	525,937	WA	89%	AL	88%
FL	4,419	NY	35	MI	153	FL	7,270,410	FL	83,201	FL	506,377	NH	88%	MA	88%
IL	3,334	MI	35	CA	743	NY	6,433,524	NY	74,252	NY	324,382	MA	88%	NH	87%
NJ	3,010	NC	23	TN	93	IL	3,903,334	PA	48,527	GA	231,019	MN	87%	NM	86%
OH	2,294	PA	20	IN	132	PA	3,374,733	GA	41,172	OH	229,955	GA	87%	KY	85%
AZ	2,283	WA	18	MA	123	NC	3,286,948	OH	40,644	PA	215,662	MO	87%	NC	85%
PA	1,870	VA	17	AR	42	OH	3,259,911	IL	40,394	IL	198,294	WV	86%	OK	85%
VA	1,845	FL	15	MO	122	GA	2,953,341	MI	40,327	MI	171,480	OR	85%	GA	84%
MI	1,703	CO	15	WA	84	MI	2,950,361	NJ	35,213	KY	148,522	OH	85%	WA	83%
	45,523		491		1,917		53,182,562		593,057		3,110,469				
All states	71,751		677		5,098	All states	100,688,641		1,108,987		5,651,602	All states	70%		67%
Top ten	63%		73%		38%	Top ten	53%		55%		55%	Median	81%		79%

Some states not reporting

Five most improved US states

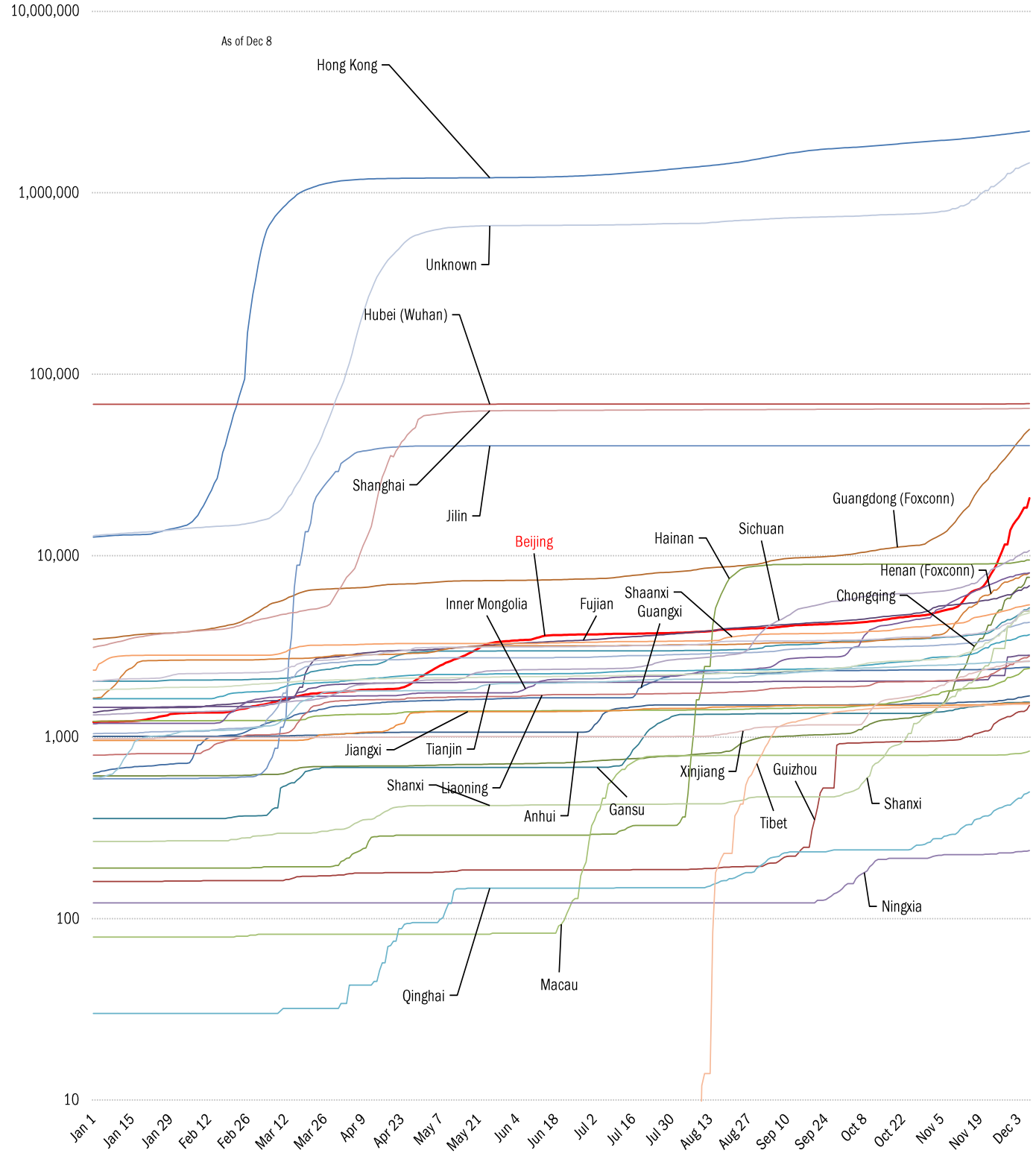
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
TX	-2,355	FL	-31	CA	-147
IL	-685	NY	-16	TX	-107
NH	-97	NM	-14	NY	-86
CO	-64	NJ	-7	OH	-84
NJ	-41	TX	-5	PA	-48



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

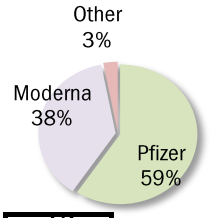
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	674,343,860				+0.193 million
				Of which boosters:	+0.168 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	276,021,875	83%	235,392,888	70%	+0.017 million
Age 12 to 17	18,376,705	73%	15,735,507	62%	+0.001 million
Age 18 to 64	183,614,597	90%	156,164,584	77%	+0.009 million
Age 65 and over	60,829,321	100%	53,278,288	97%	+0.004 million

Immunity	Full	Partial
US	68.9%	80.6%
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%	84.9%
Israel	65.2%	71.1%
Canada	82.5%	89.6%
Japan	83.1%	84.3%
Africa	26.0%	32.0%
India	67.1%	72.5%
Brazil	80.9%	87.4%
China	89.3%	91.5%

Global data differs due to sources, timing



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

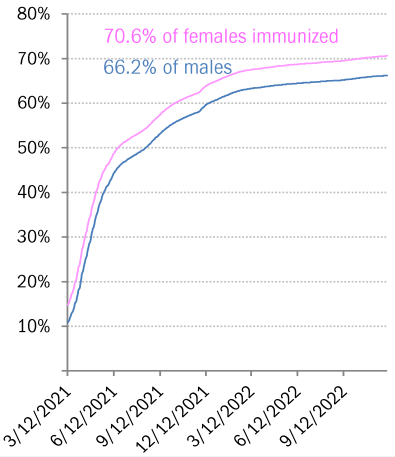
"Immunity" = two doses

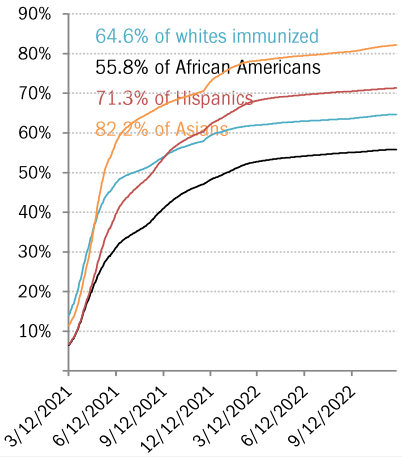
Best
Middle
Worst

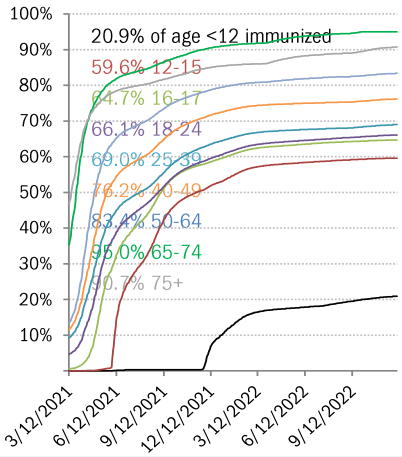
As of Dec 9

					WI					ME
					74.7%					95.0%
					67.8%					82.8%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.6%	63.6%	67.9%	68.9%	78.3%	78.8%	69.1%		93.8%	95.0%	87.2%
75.6%	56.2%	58.9%	58.3%	71.7%	70.9%	62.1%		80.2%	85.0%	71.3%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
81.0%	78.3%	60.5%	83.1%	70.3%	64.0%	65.4%	89.8%	94.0%	95.0%	
71.9%	63.1%	52.8%	65.8%	64.0%	57.5%	60.2%	72.7%	78.6%	83.6%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
84.1%	74.8%	83.2%	73.0%	68.9%	68.5%	67.2%	90.3%	91.0%	95.0%	95.0%
74.2%	66.3%	73.1%	65.9%	58.7%	59.3%	59.5%	76.1%	79.2%	82.6%	87.1%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.8%	93.4%	75.7%	69.5%	64.2%	91.1%	70.6%	95.0%	86.7%	
	65.6%	74.7%	64.8%	56.6%	56.1%	66.4%	59.6%	84.8%	72.0%	
			OK	LA	MS	AL	GA			
			74.2%	62.6%	61.4%	64.7%	67.9%			
			60.1%	54.8%	53.5%	52.9%	56.9%			
HI			TX					FL		PR
90.9%			75.8%					82.0%		95.0%
81.1%			62.9%					69.1%		86.7%

The demographics of US vaccination

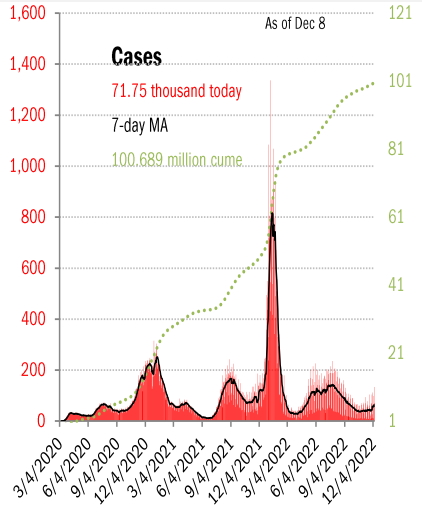


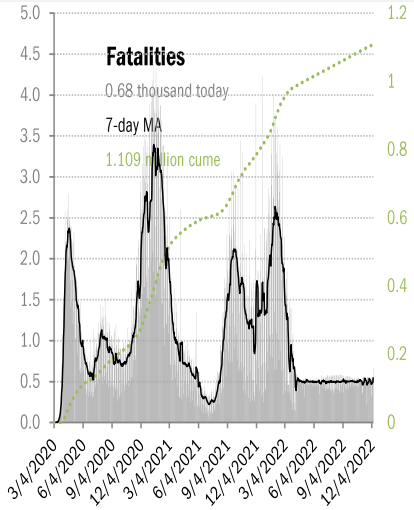


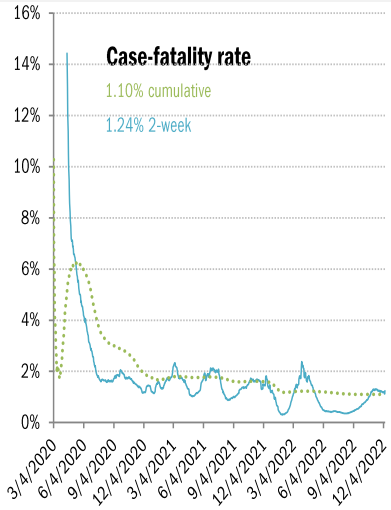


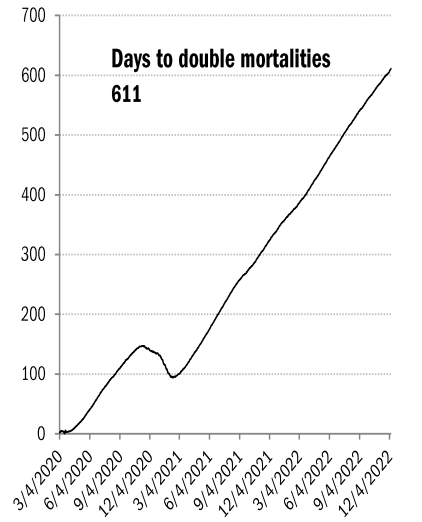
Source: CDC, CDC, Our World in Data, TrendMacro calculations

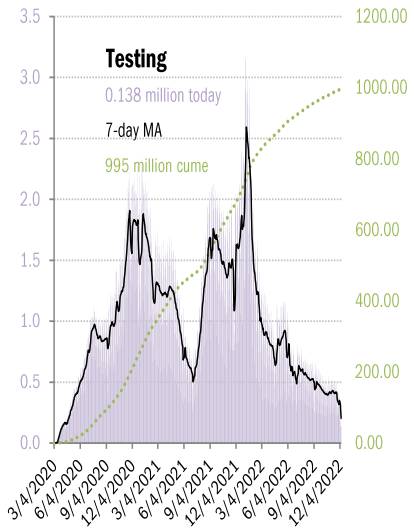
US deep-dive

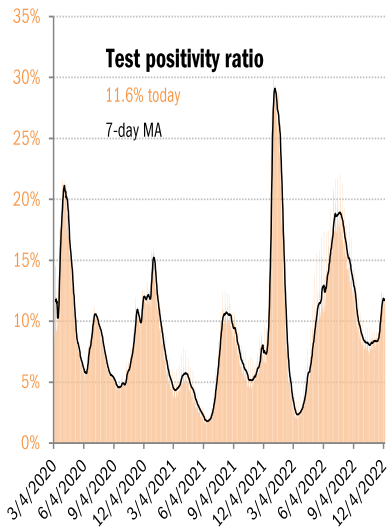


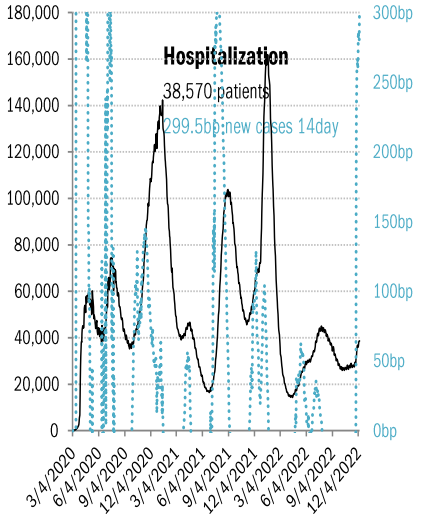


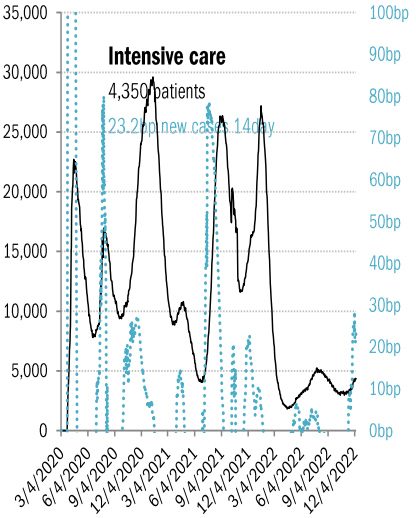


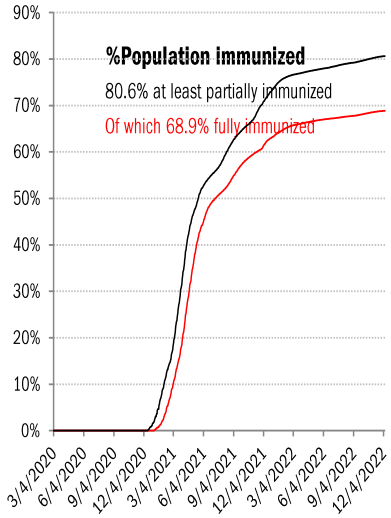










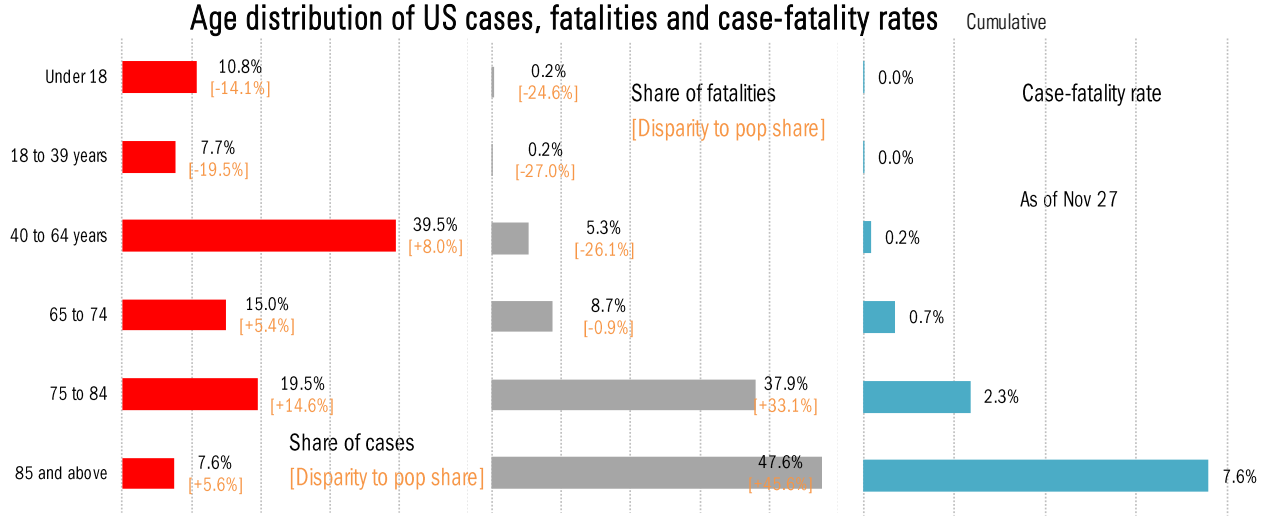


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

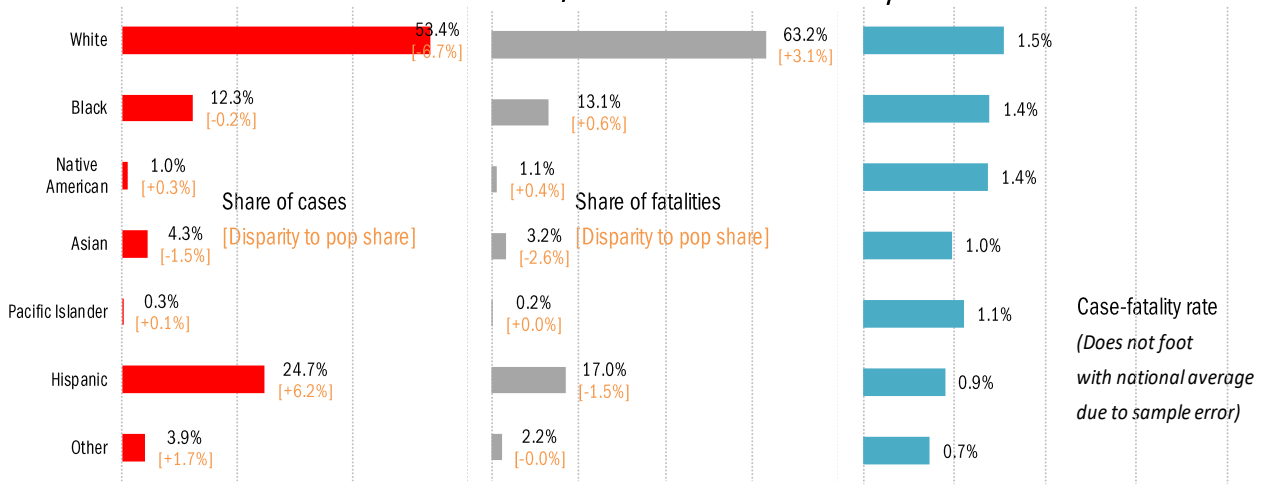
US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

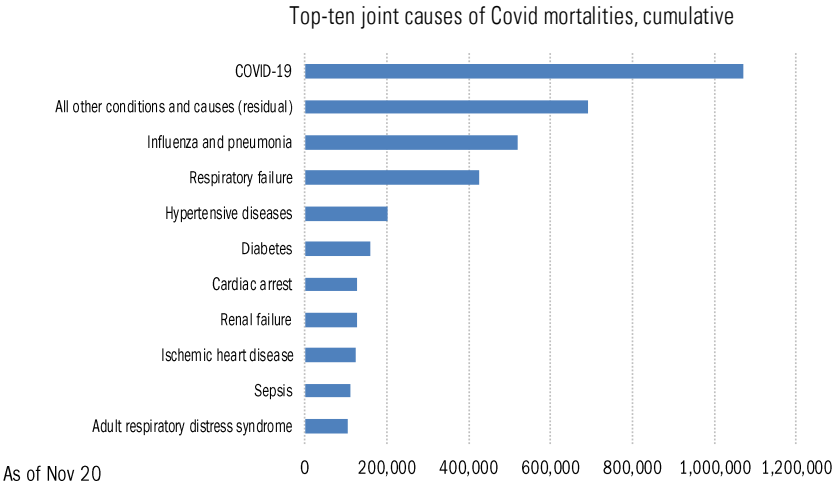
Age distribution of US cases, fatalities and case-fatality rates



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



Comorbidities



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

[Sinema switches to independent, shaking up the Senate]
Burgess Everett
Politico
December 9, 2022

[Almost Everyone Is About to Become a Year Younger in South Korea]
Sangmi Cha
Bloomberg
December 8, 2022

[Rollback of covid vaccine mandate met with furor at Pentagon]
Dan Lamothe, Alex Horton and Karoun Demirjian
Washington Post
December 7, 2022

[China medical expert says COVID has mutated, should be renamed - state media]
Reuters
December 7, 2022

[Internal documents reveal Oregon teachers union exodus is a crisis of its own making]
Corey DeAngelis , Jason Dudash
Fox News
December 6, 2022

[The good and the bad of Elon Musk's first 40 days owning Twitter]
Alex Berenson
Unreported Truths
December 8, 2022

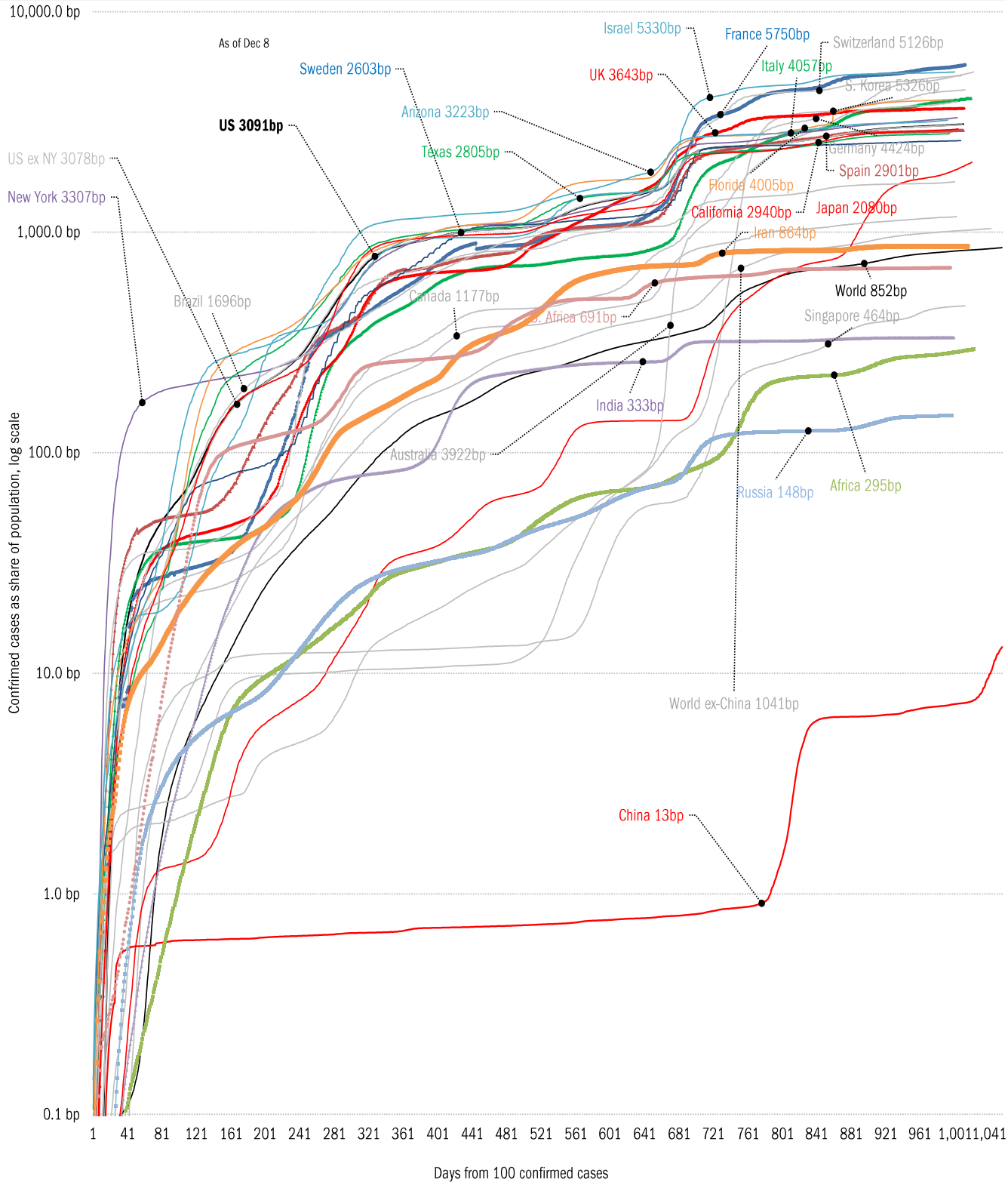
[China's Great Covid 'Reopening']
Wall Street Journal
December 7, 2022

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

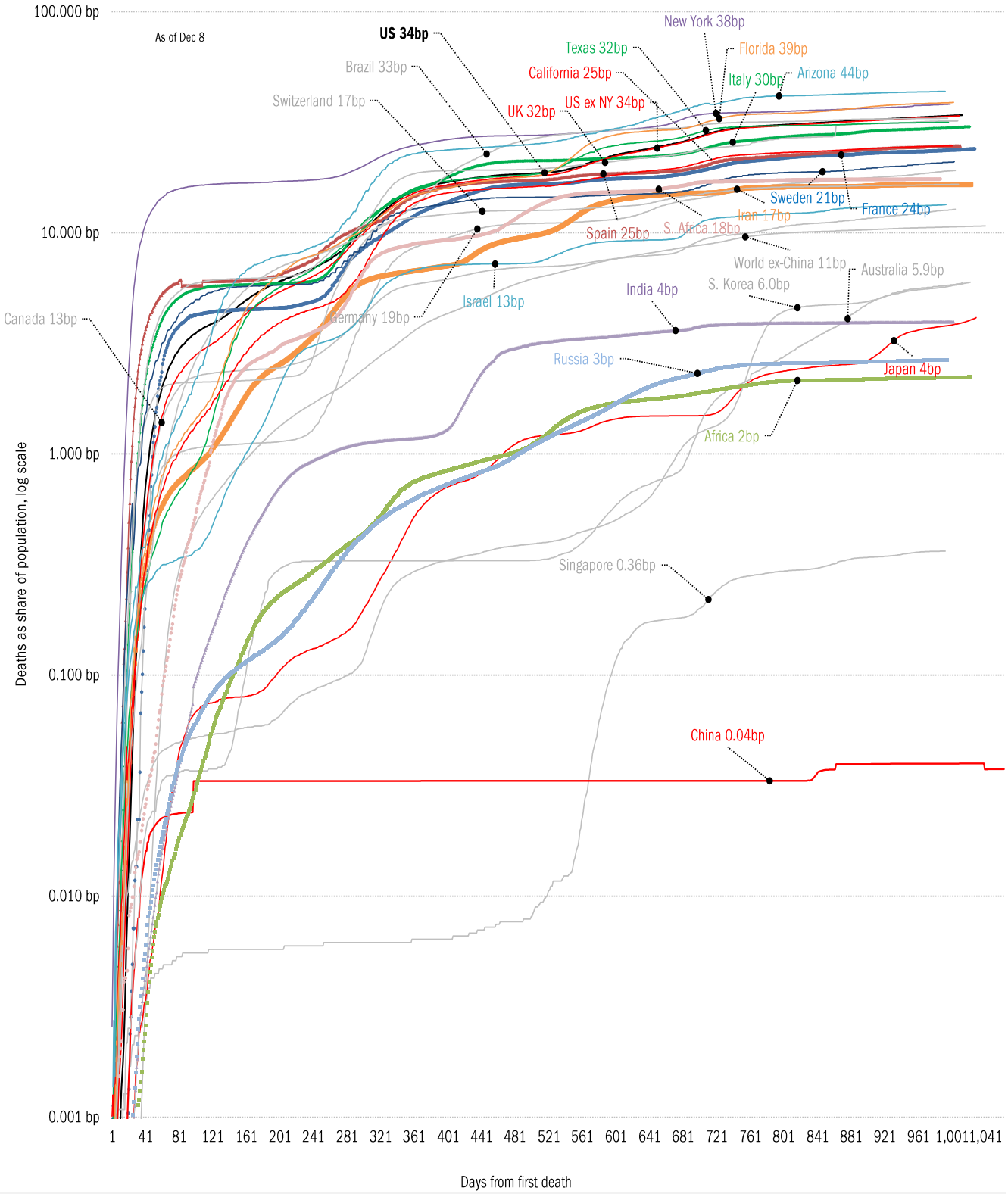
Share of infected population from first day with 100 confirmed cases, log scale



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*

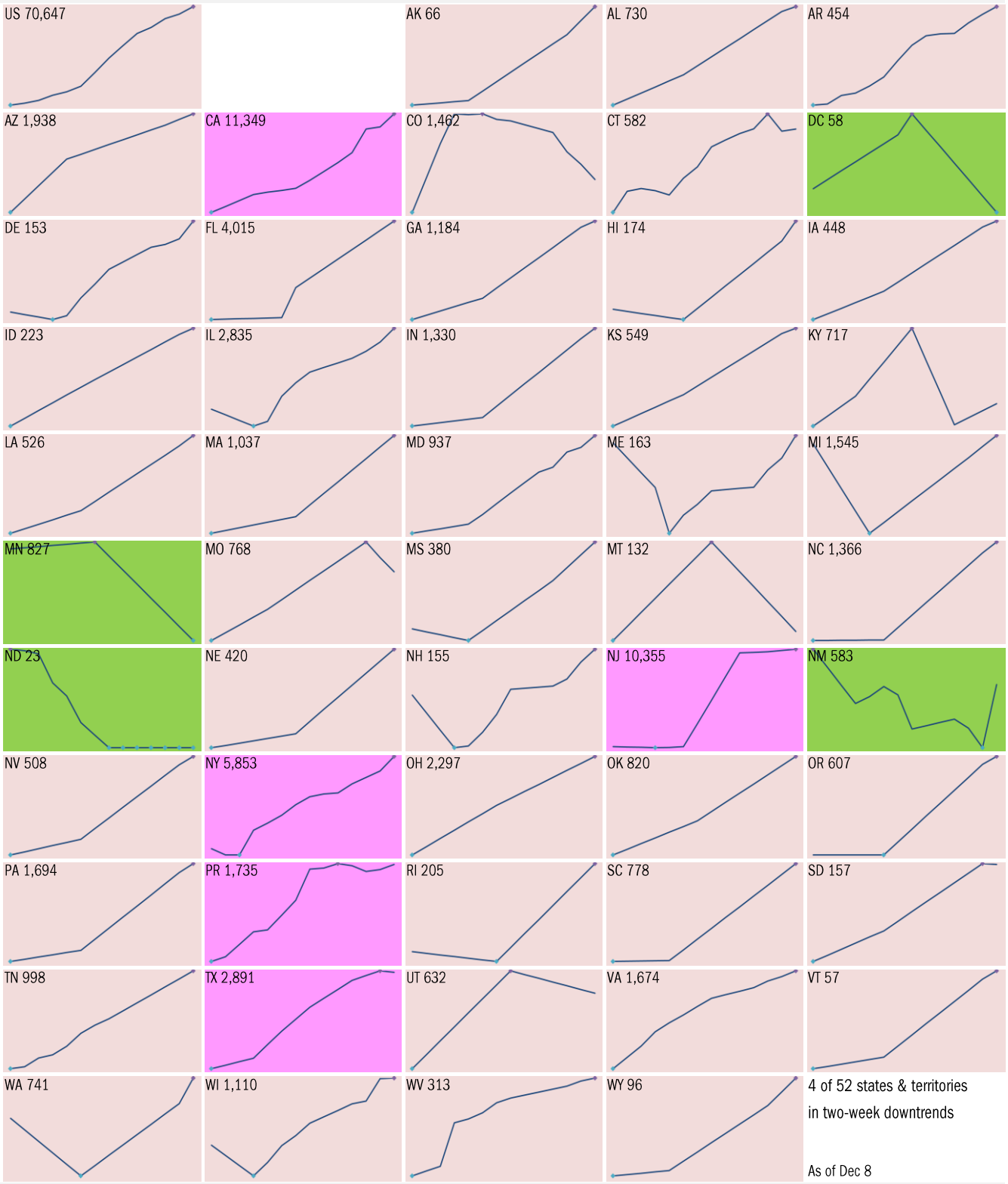
Higher is good *Flat* indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

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

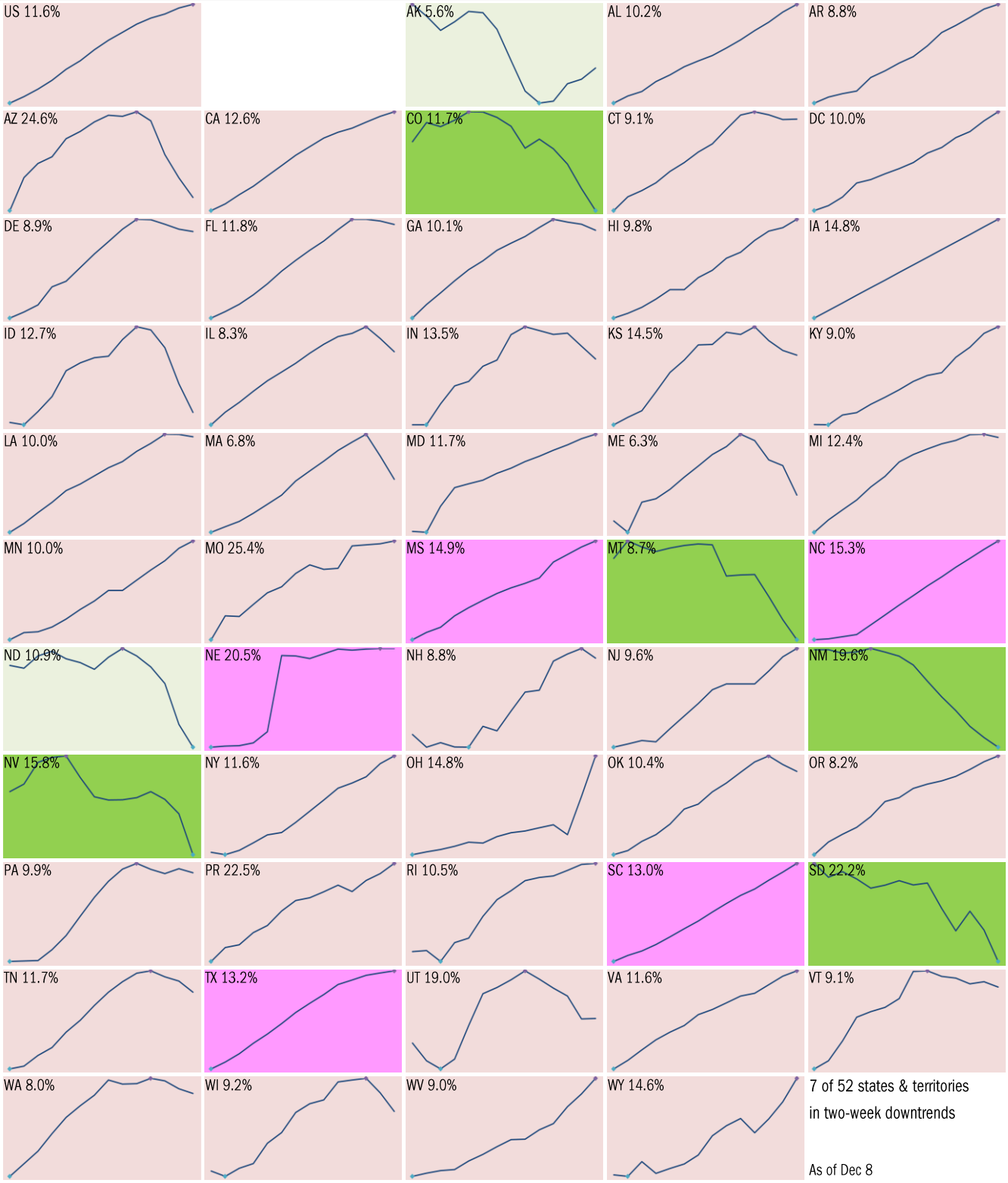


Source: Johns Hopkins, TrendMacro calculations

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

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

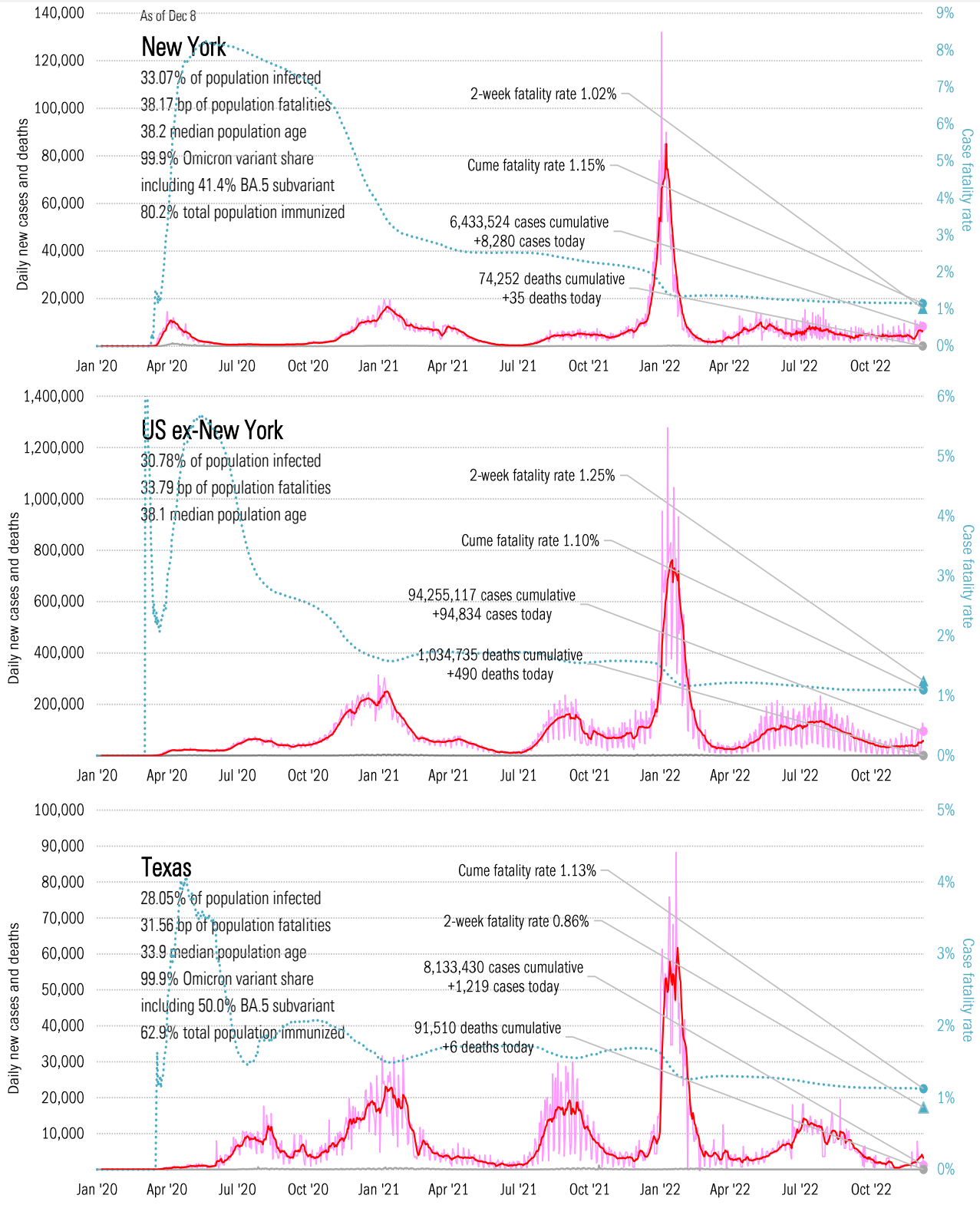
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

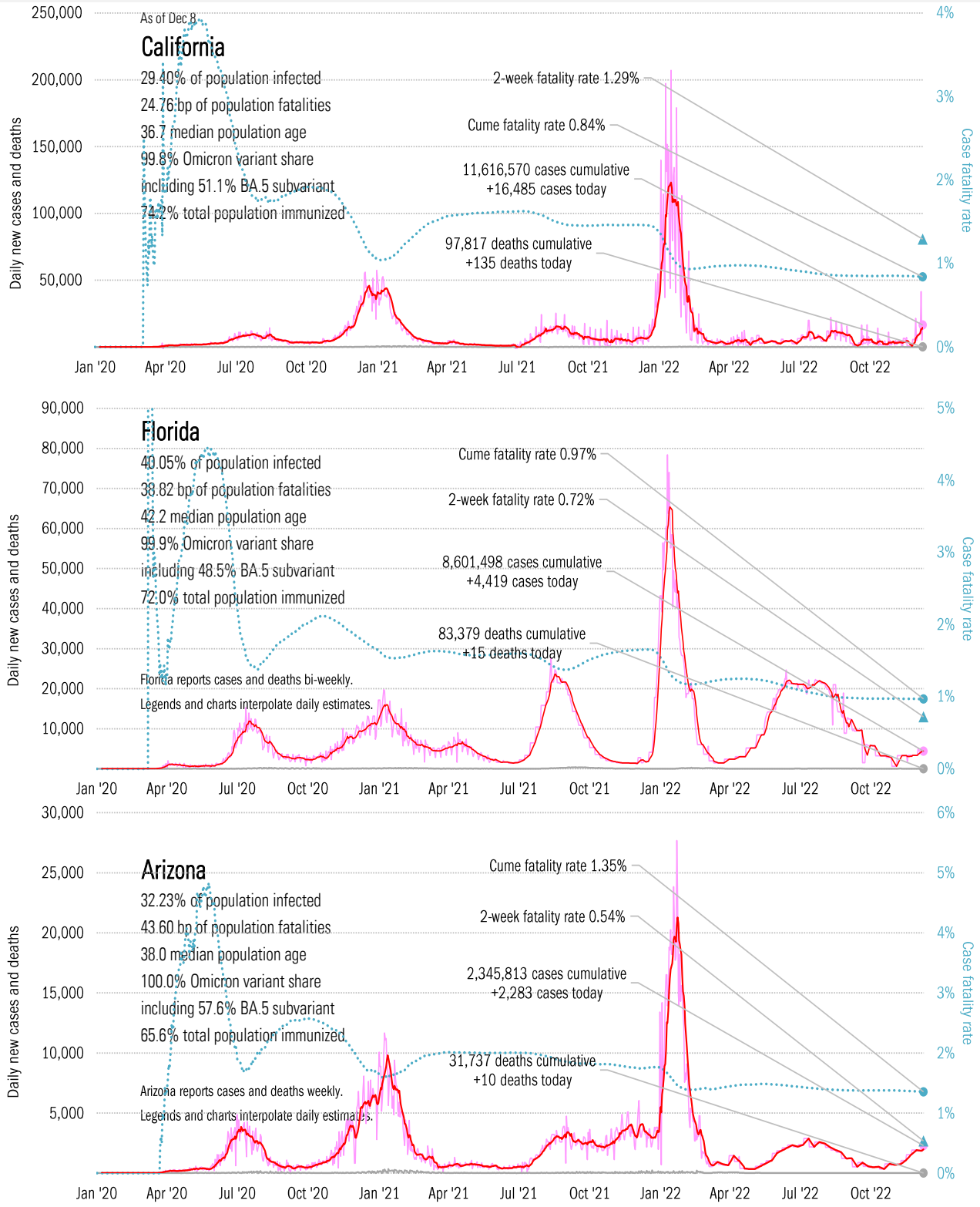
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

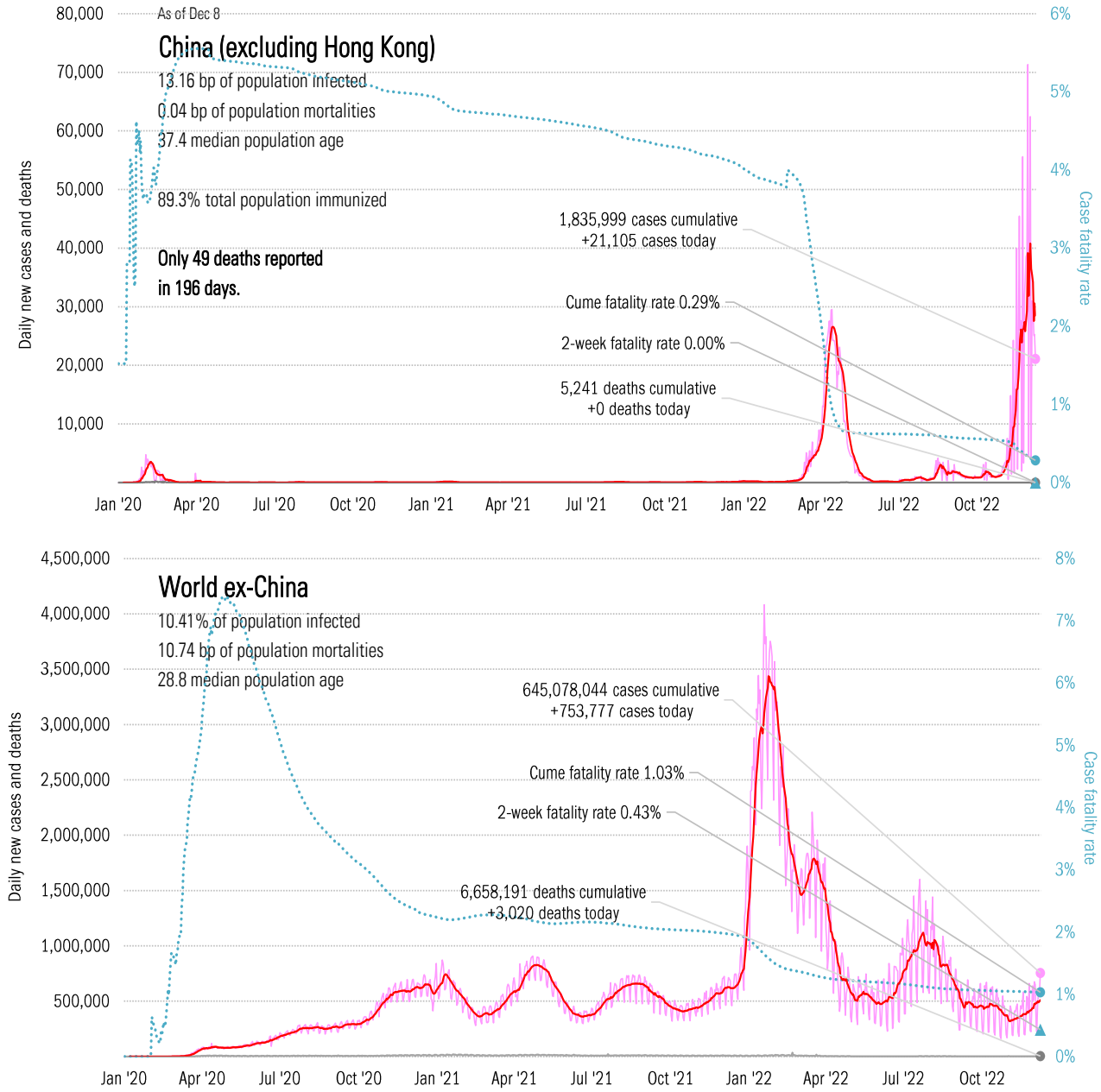
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

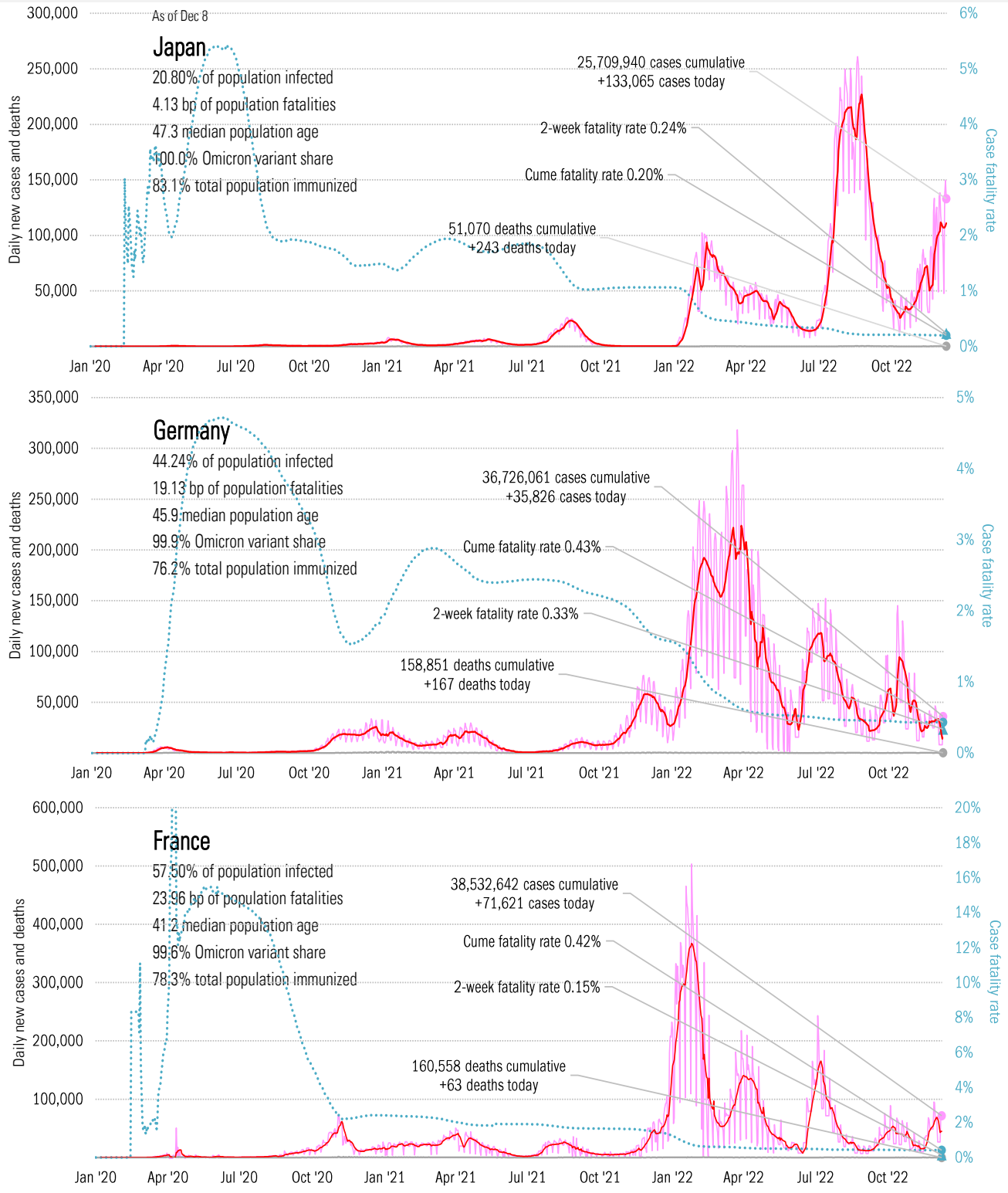
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

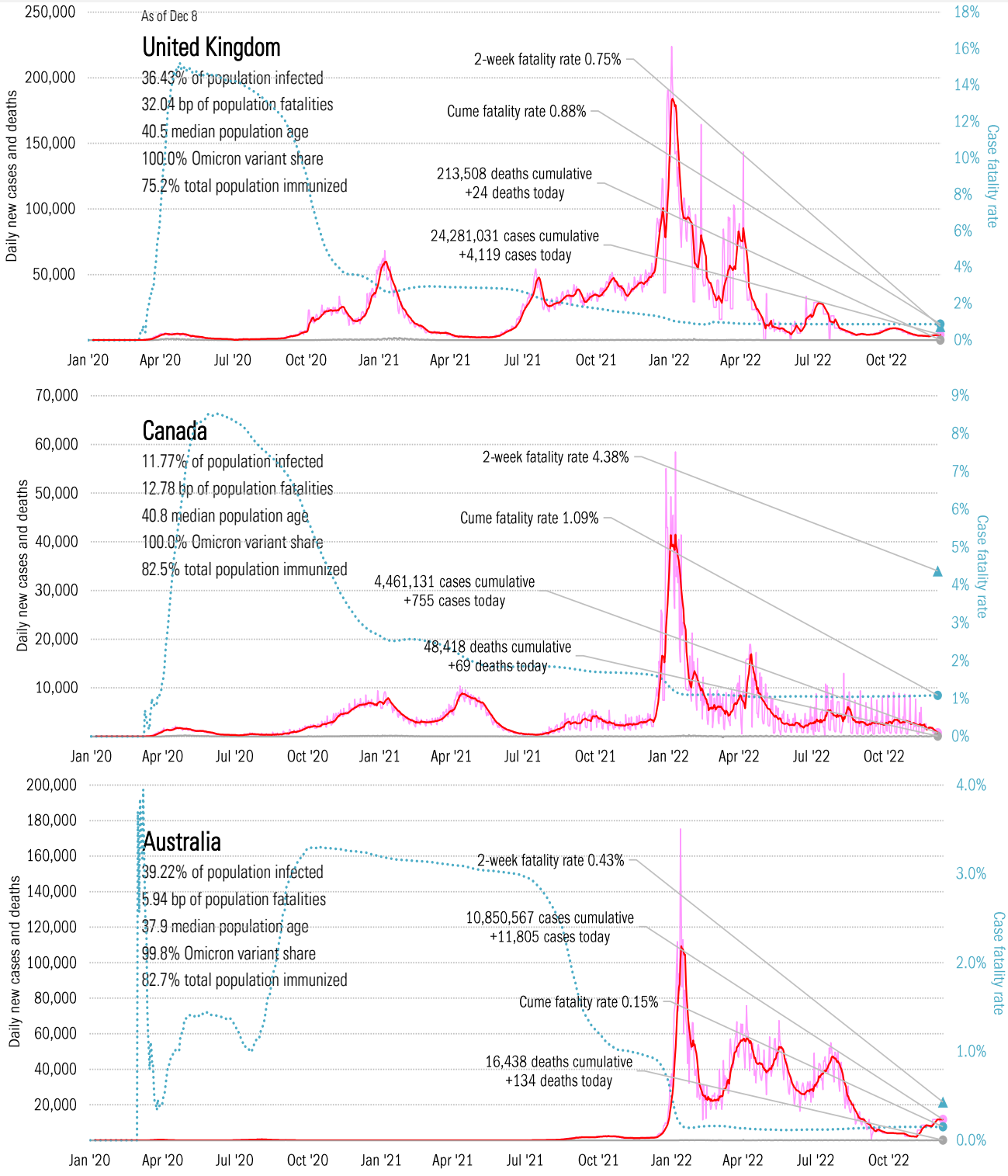
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

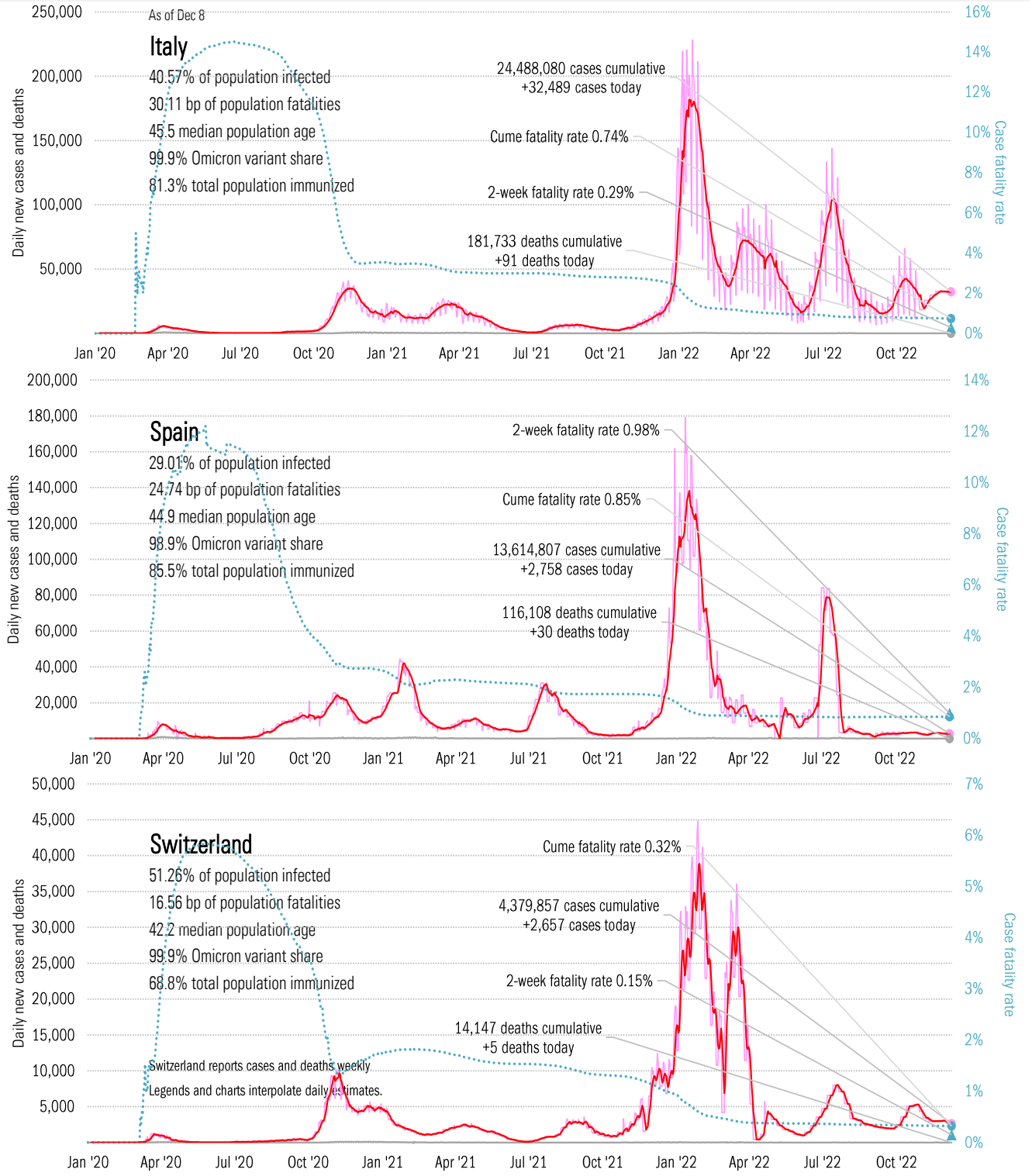
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

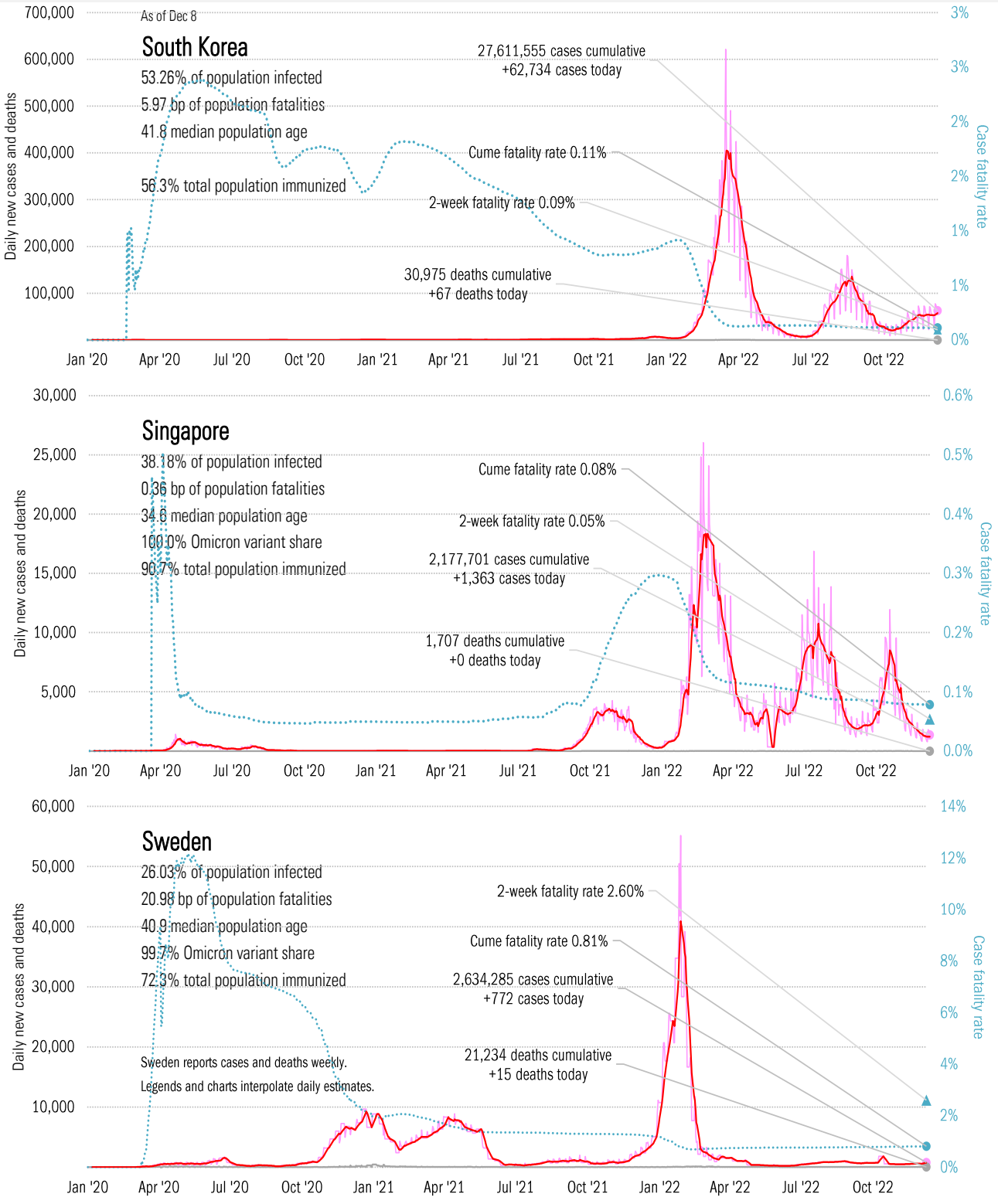
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

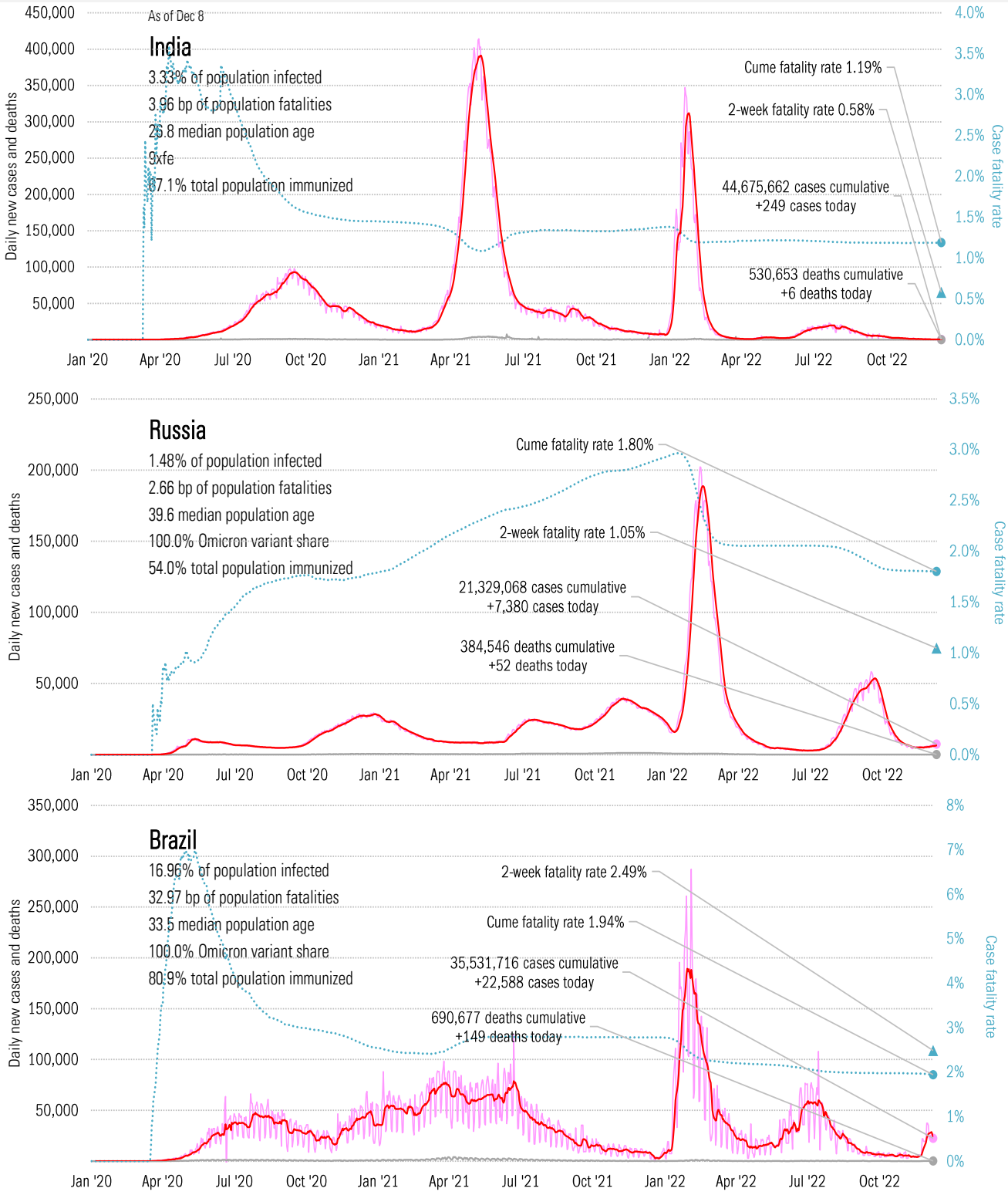
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

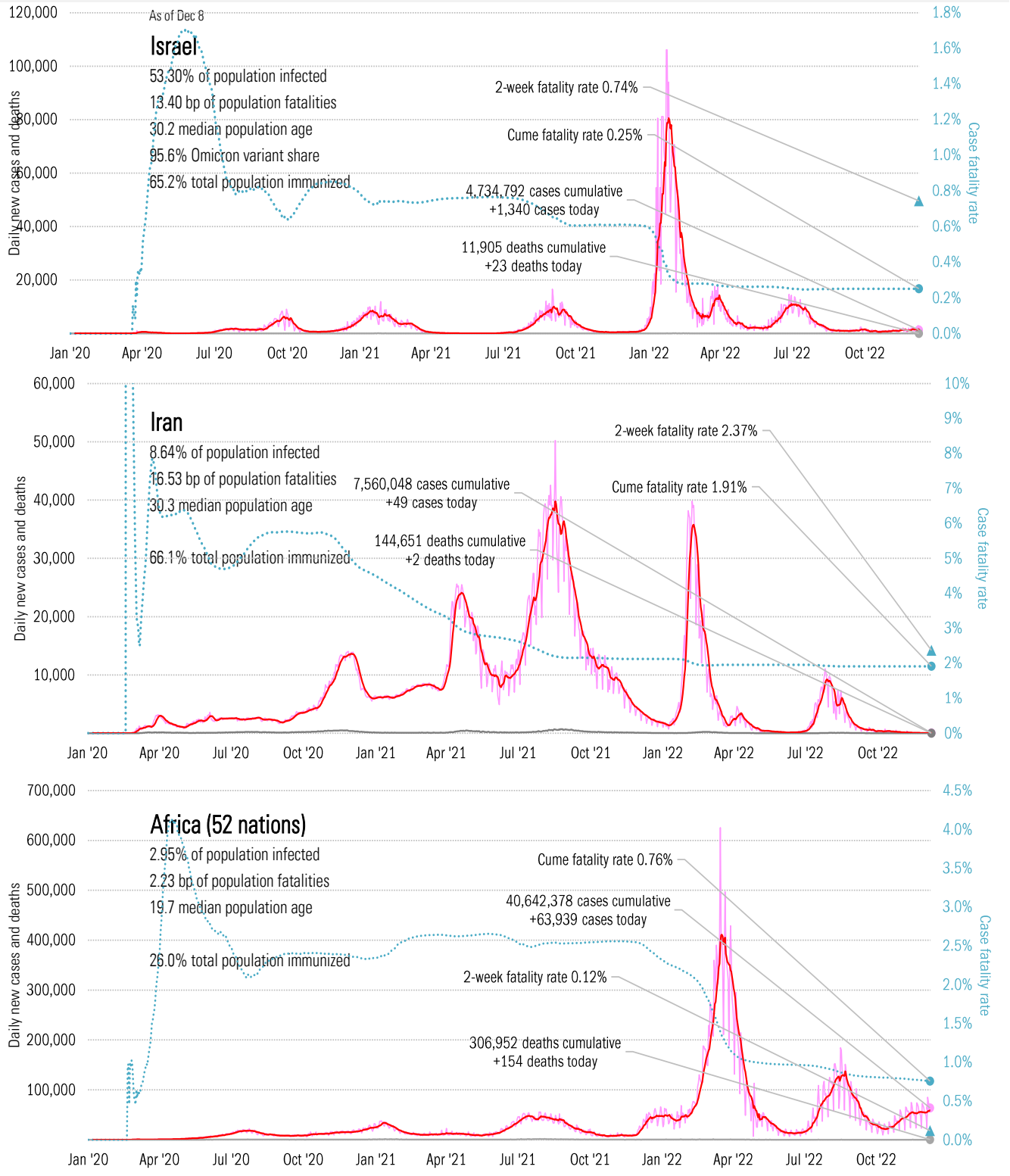
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

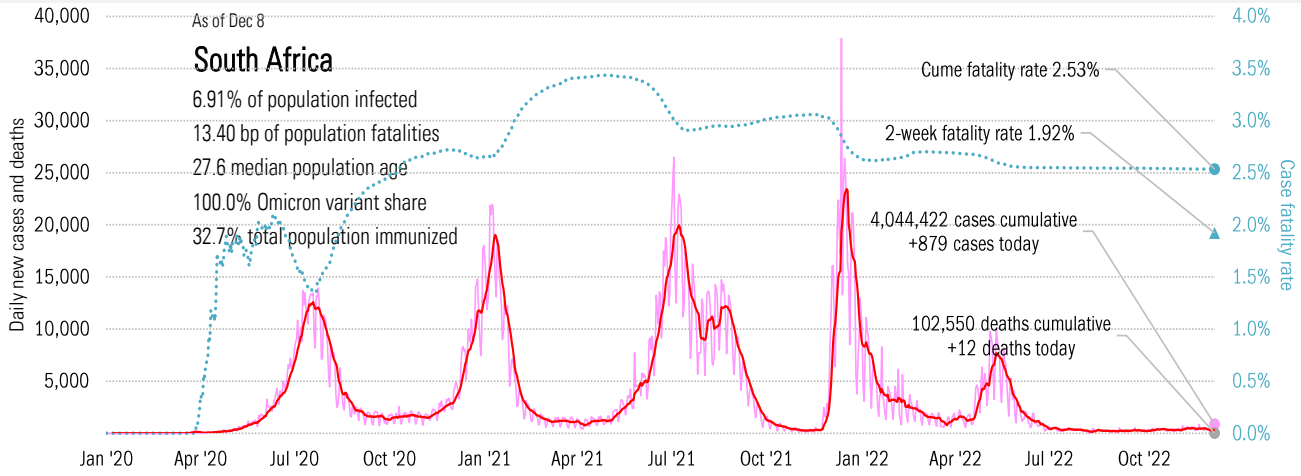
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations