Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

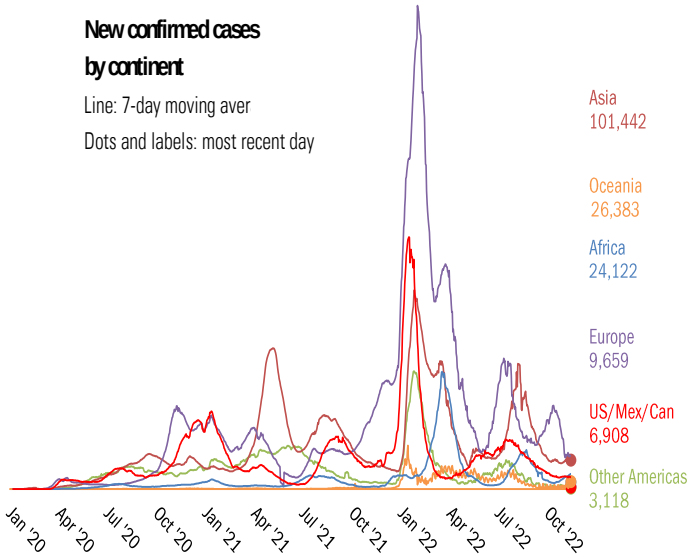
Monday, November 14, 2022

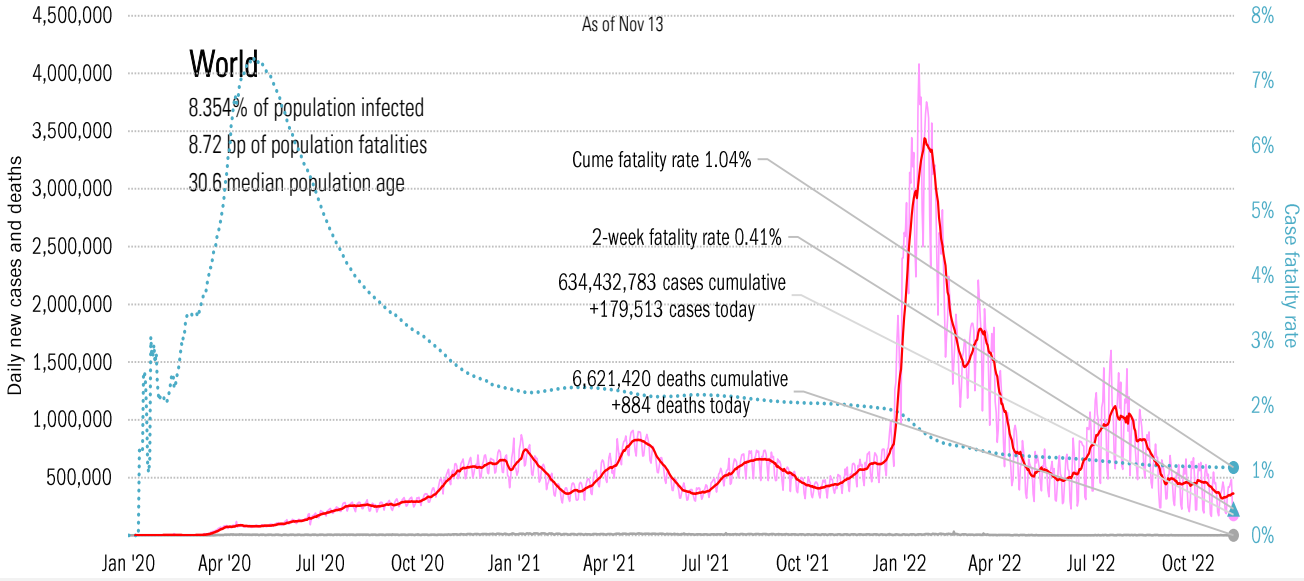
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	68,894	United States	329
United States	33,639	Japan	67
Korea, South	23,765	Taiwan*	61
New Zealand	21,572	Russia	59
Taiwan*	18,597	Korea, South	44
Chile	5,820	Indonesia	36
Russia	5,303	New Zealand	35
Indonesia	4,877	Chile	25
Australia	4,811	Argentina	8
Austria	2,876	Slovakia	6
	190,154		670





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

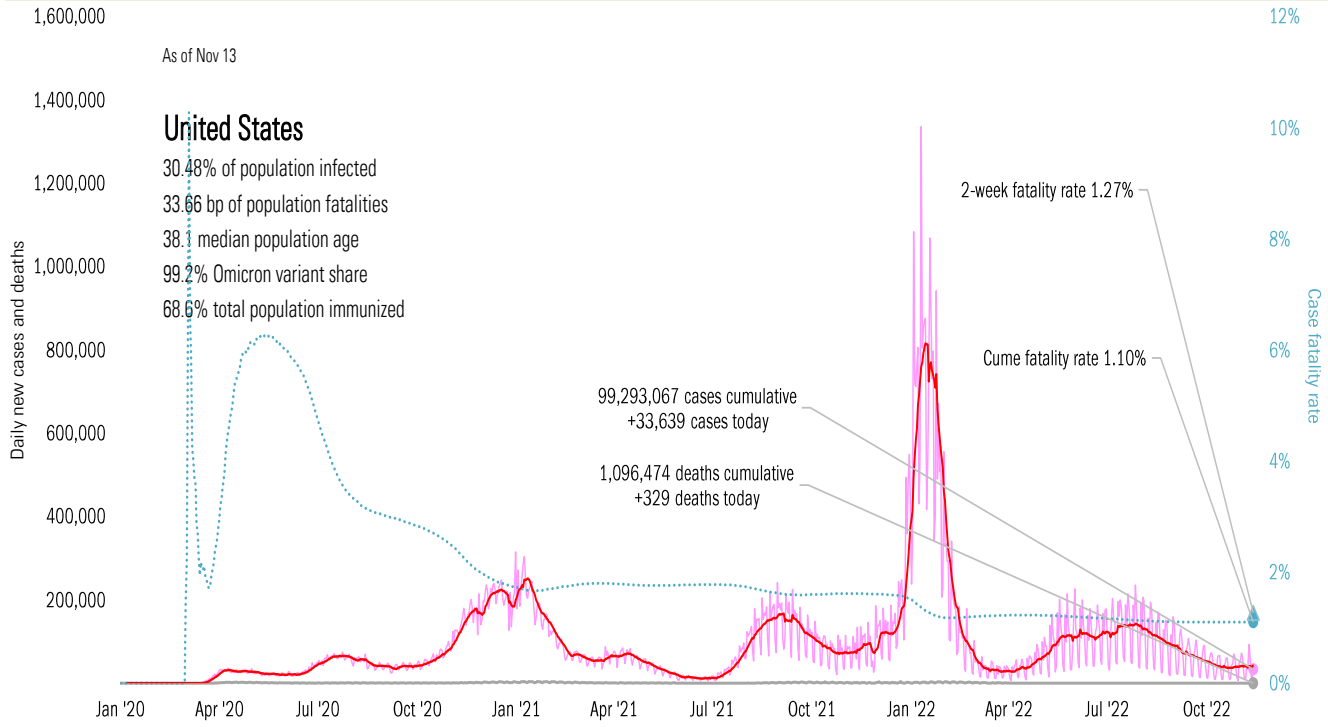
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
FL	3,308	CA	72	GA	119	CA	11,412,662	CA	97,106	TX	552,761	RI	89%	AK	87%
IL	2,186	FL	26	CA	319	FL	8,510,074	TX	91,256	CA	511,762	MA	88%	TX	85%
NJ	1,815	IL	26	MI	158	TX	8,056,646	FL	82,719	FL	501,129	MN	86%	VT	85%
NY	1,723	MI	24	NY	323	NY	6,303,295	NY	73,425	NY	315,020	MO	85%	AL	84%
PA	1,653	PA	22	NJ	169	IL	3,834,925	PA	47,994	GA	228,970	WA	85%	MA	84%
KY	1,611	NY	17	TX	167	PA	3,330,062	GA	40,803	OH	225,184	NH	83%	NM	84%
OH	1,552	GA	15	AZ	96	NC	3,255,540	OH	40,257	PA	211,629	GA	83%	NC	84%
MI	1,427	MA	15	PA	192	OH	3,208,165	IL	40,109	IL	193,202	WV	82%	NE	83%
MD	1,350	NJ	14	CT	67	GA	2,929,434	MI	39,574	MI	168,508	DE	82%	GA	82%
CO	1,305	MD	10	NC	86	MI	2,907,819	NJ	34,986	KY	147,209	OR	82%	RI	82%
	17,931		241		1,696		53,748,622		588,229		3,055,374				
All states	33,639		329		3,339	All states	99,293,067		1,096,474		5,548,811	All states	70%		67%
Top ten	53%		73%		51%	Top ten	54%		55%		55%	Median	77%		74%

Some states not reporting

Five most improved US states

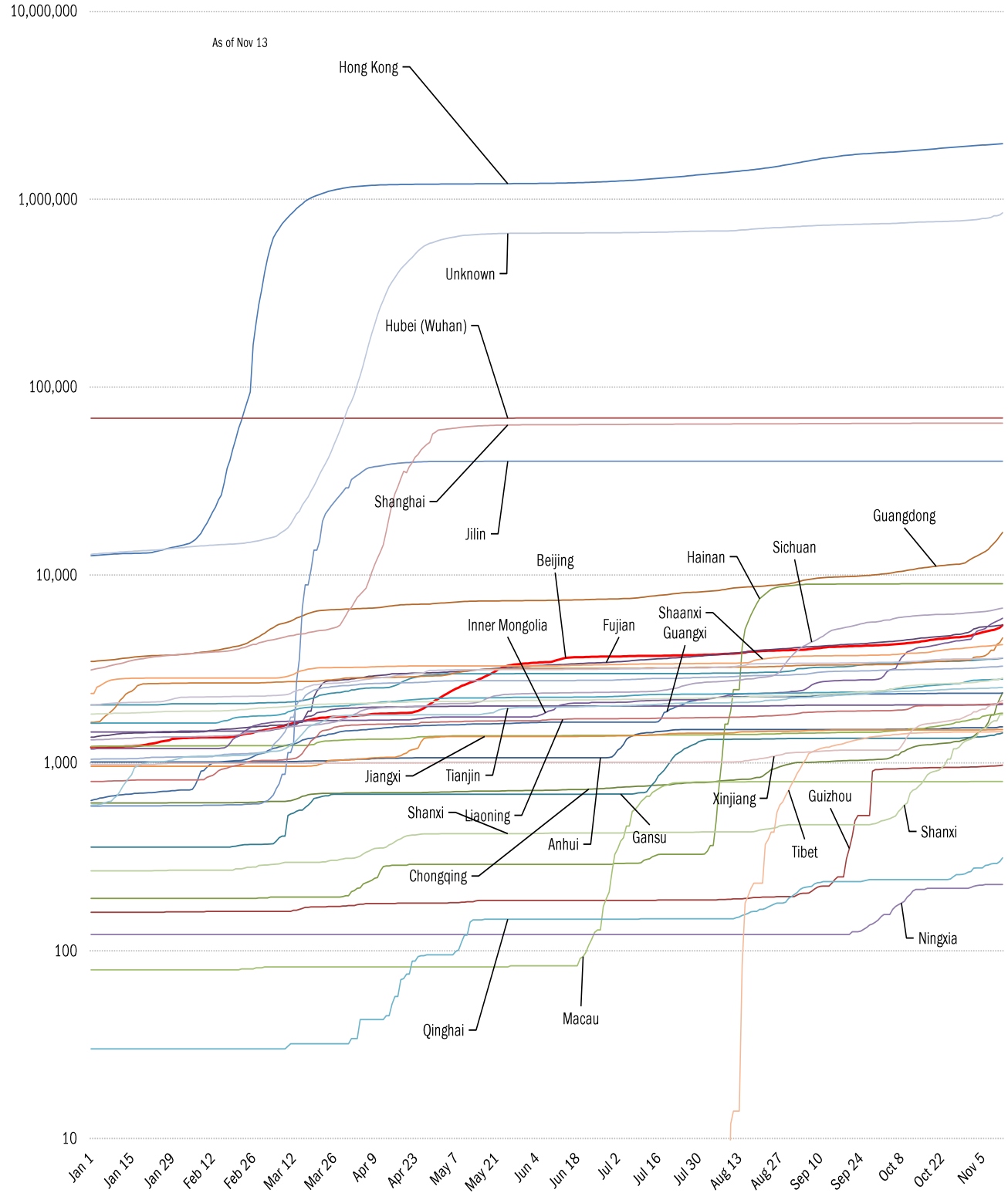
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
NY	-1,810	VA	-1	SC	-46
AR	-53	AK	0	OH	-41
CT	-21	AL	0	MD	-29
AK	0	AR	0	NV	-21
AL	0	AZ	0	IL	-18



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

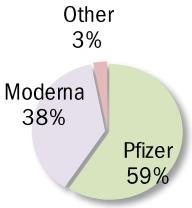
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	662,681,441				+0.815 million
				Of which boosters:	+0.815 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	275,346,421	82%	234,555,714	70%	+0.062 million
Age 12 to 17	18,347,933	73%	15,688,853	62%	+0.003 million
Age 18 to 64	183,281,042	90%	155,734,230	77%	+0.034 million
Age 65 and over	60,724,196	100%	53,130,217	97%	+0.015 million

Immunity	Full	Partial
US	68.5%	80.2%
UK	75.2%	79.7%
France	78.3%	80.5%
Spain	85.5%	86.9%
Germany	76.2%	77.7%
Italy	81.3%	86.1%
Australia	83.2%	85.7%
Israel	65.2%	71.1%
Canada	82.3%	88.3%
Japan	83.1%	84.2%
Africa	24.8%	31.0%
India	67.1%	72.5%
Brazil	80.0%	87.0%
China	89.2%	91.4%

Global data differs due to sources, timing



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

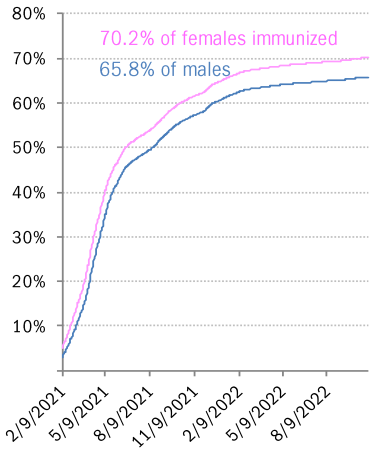
"Immunity" = two doses

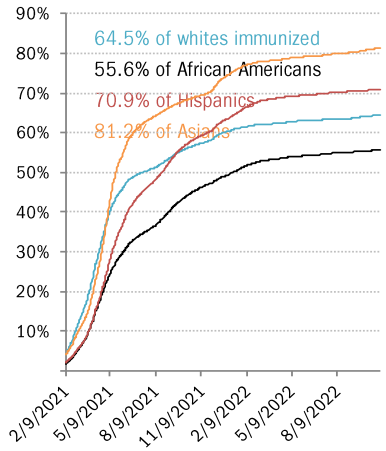
Best
Middle
Worst

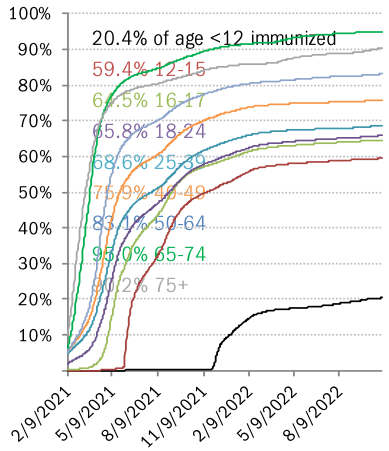
As of Nov 11

					WI					ME
					74.3%					95.0%
					67.6%					82.4%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.2%	63.3%	67.5%	68.5%	77.9%	78.5%	68.9%		93.4%	95.0%	86.2%
75.2%	56.0%	58.6%	57.9%	71.4%	70.7%	61.9%		79.8%	84.4%	70.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.5%	78.0%	60.3%	82.3%	70.0%	63.8%	65.2%	89.2%	93.6%	95.0%	
71.6%	62.9%	52.6%	65.3%	63.8%	57.3%	60.0%	72.1%	78.3%	82.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.5%	74.5%	82.7%	72.6%	68.6%	68.2%	67.0%	89.6%	90.5%	95.0%	95.0%
74.4%	66.1%	72.8%	65.6%	58.3%	59.1%	59.3%	75.7%	78.8%	82.2%	86.7%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.3%	92.7%	75.3%	69.1%	64.0%	90.3%	70.3%	95.0%	86.6%	
	65.4%	74.2%	64.5%	56.3%	56.0%	65.8%	59.3%	83.6%	72.0%	
			OK	LA	MS	AL	GA			
			73.8%	62.5%	61.3%	64.4%	67.6%			
			59.8%	54.8%	53.4%	52.6%	56.7%			
HI			TX					FL		PR
90.5%			75.5%					81.7%		95.0%
80.8%			62.7%					68.9%		86.4%

The demographics of US vaccination

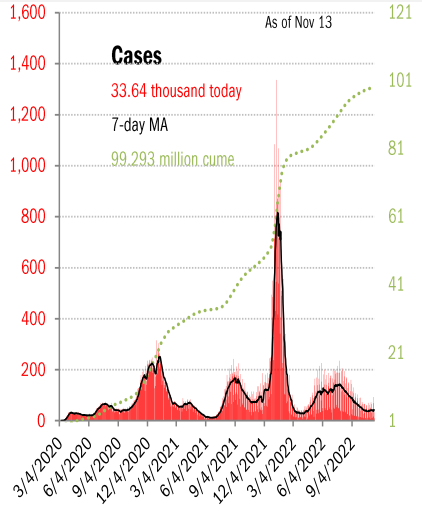


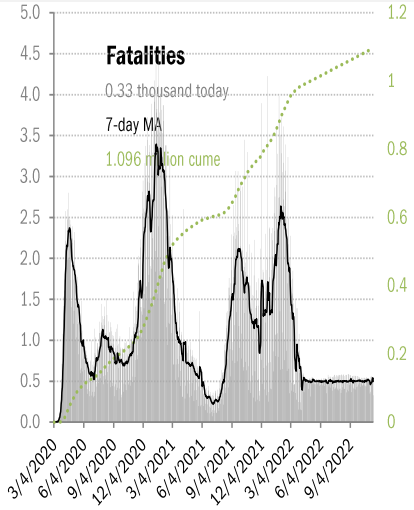


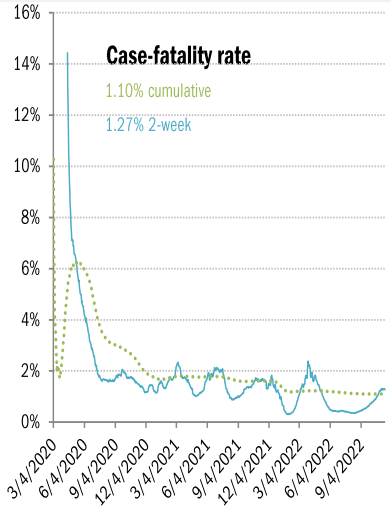


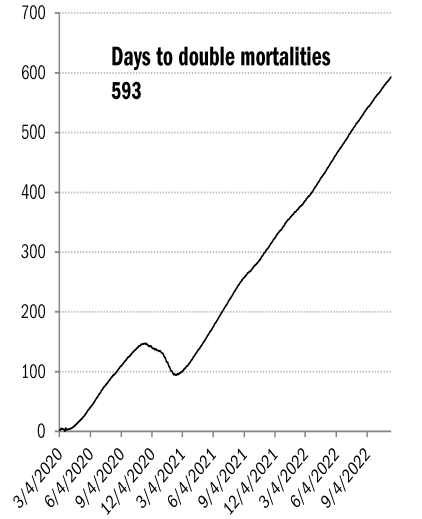
Source: CDC, CDC, Our World in Data, TrendMacro calculations

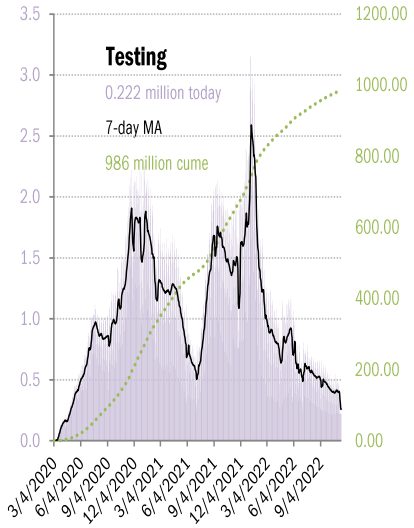
US deep-dive

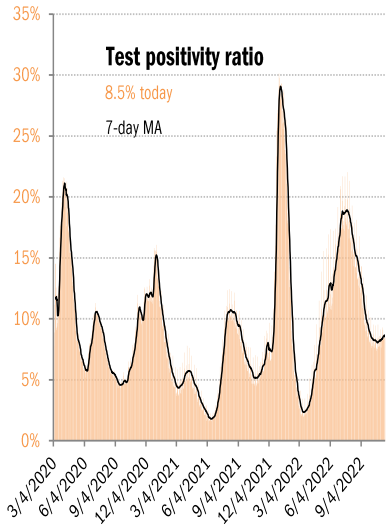


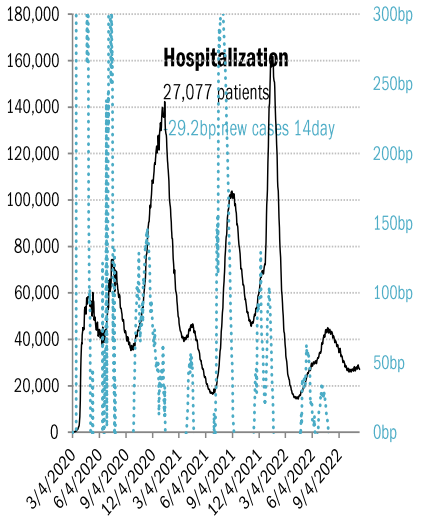


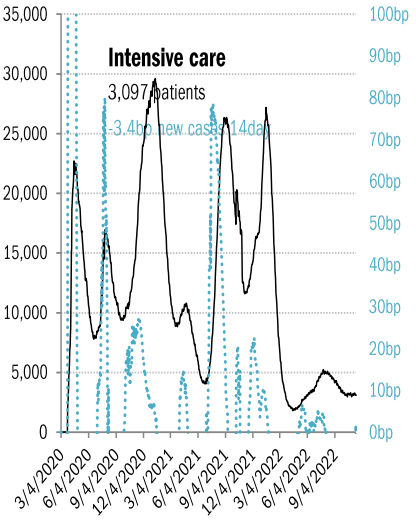


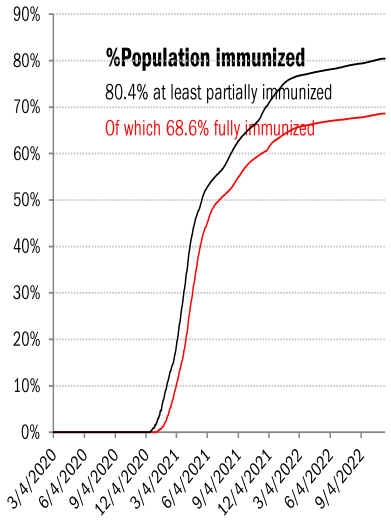












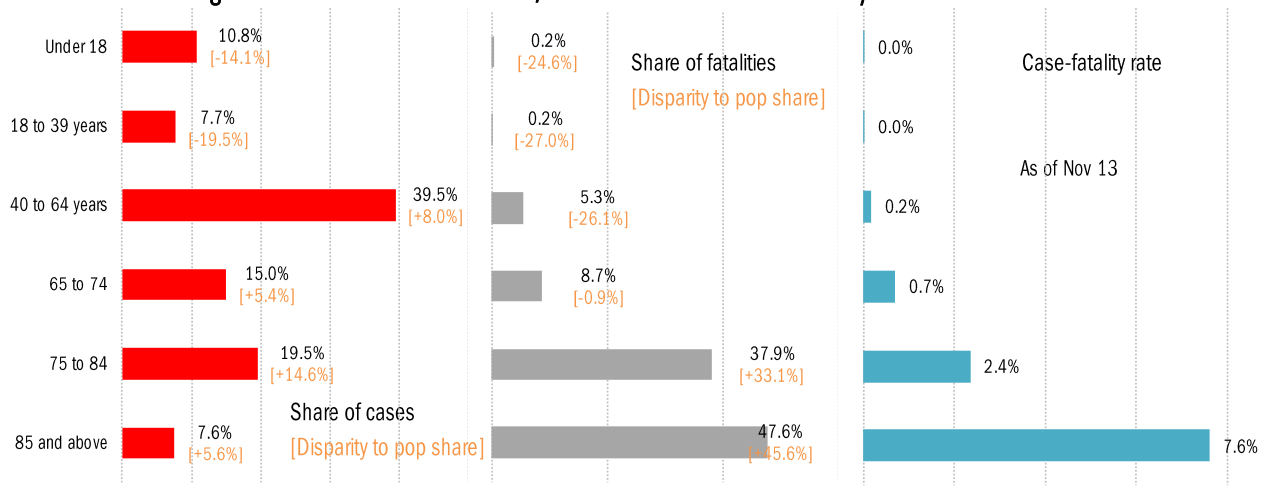
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

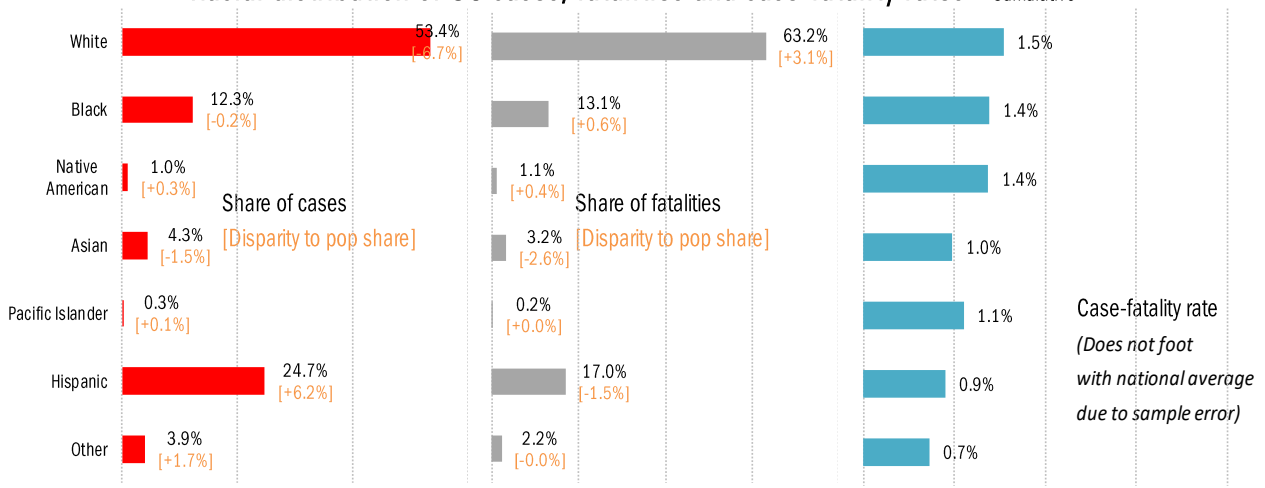
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



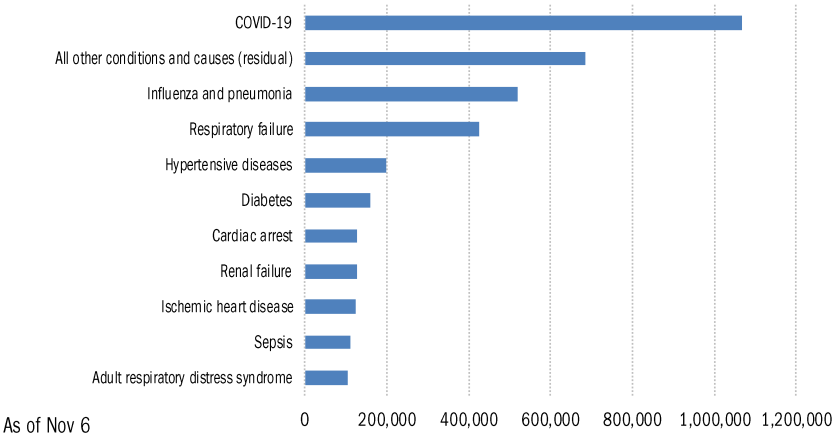
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Nov 6

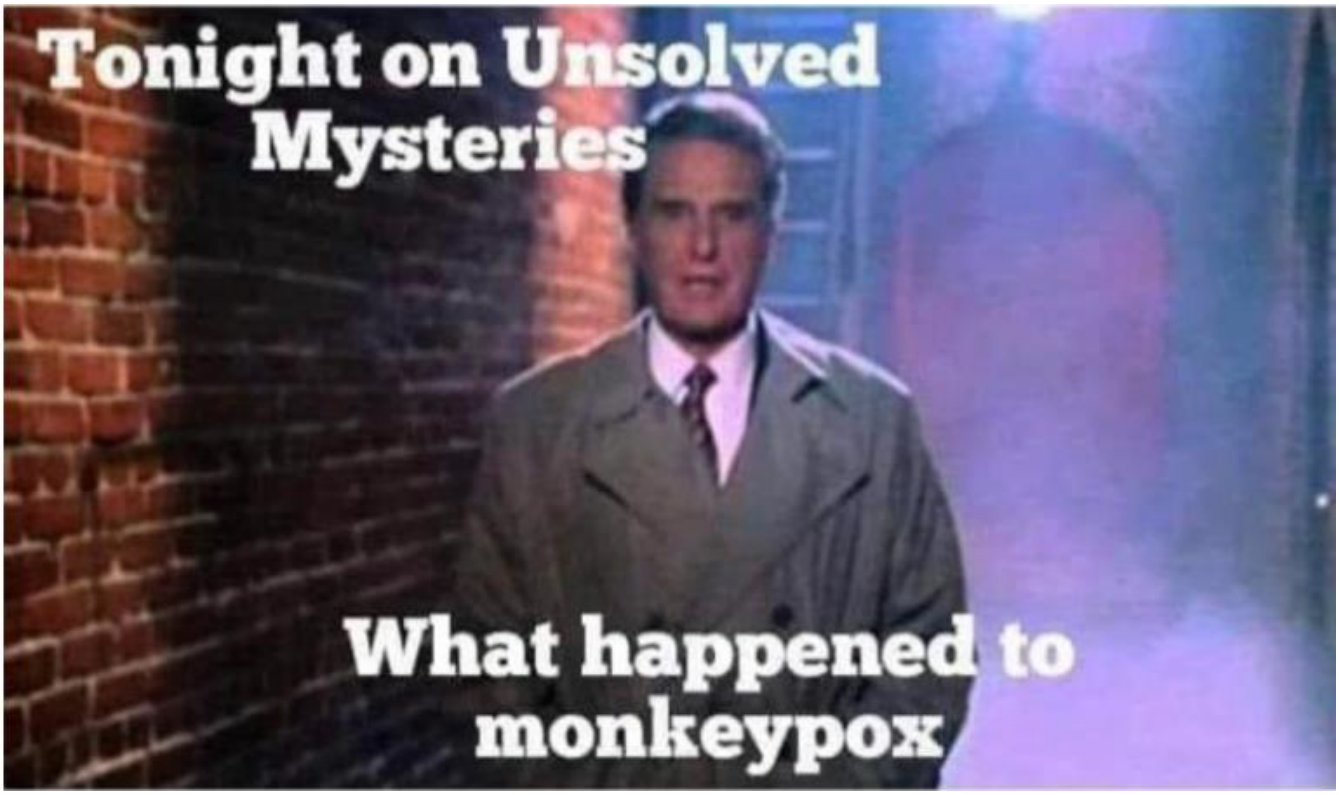
For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

[COVID-19 deaths in children and young people in England, March 2020 to December 2021: An active prospective national surveillance study]
Marta Bertran
PLOS Medicine
November 8, 2022

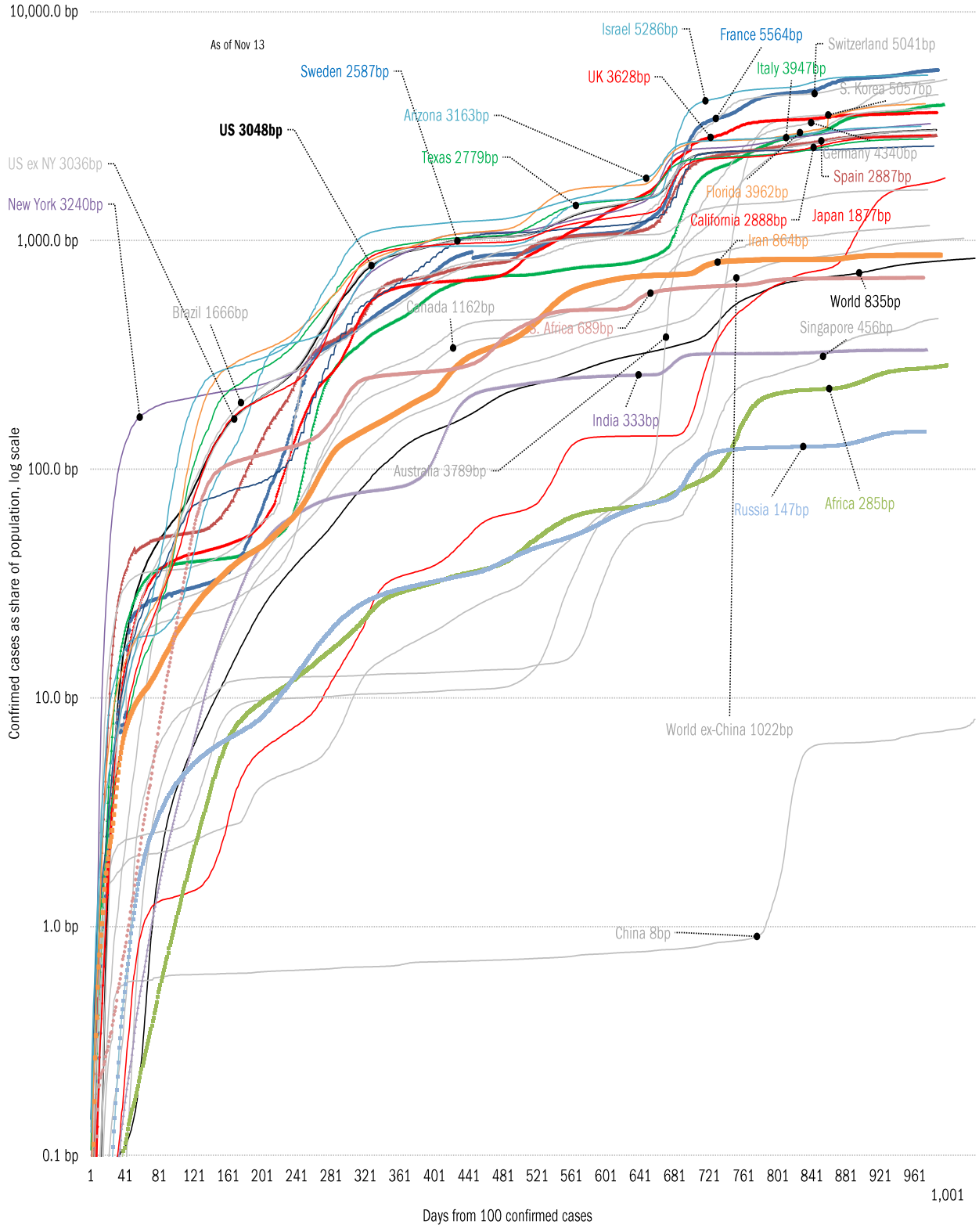
Meme of the day



Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

The global coronavirus case accelerometer… tracking the world's infection curves

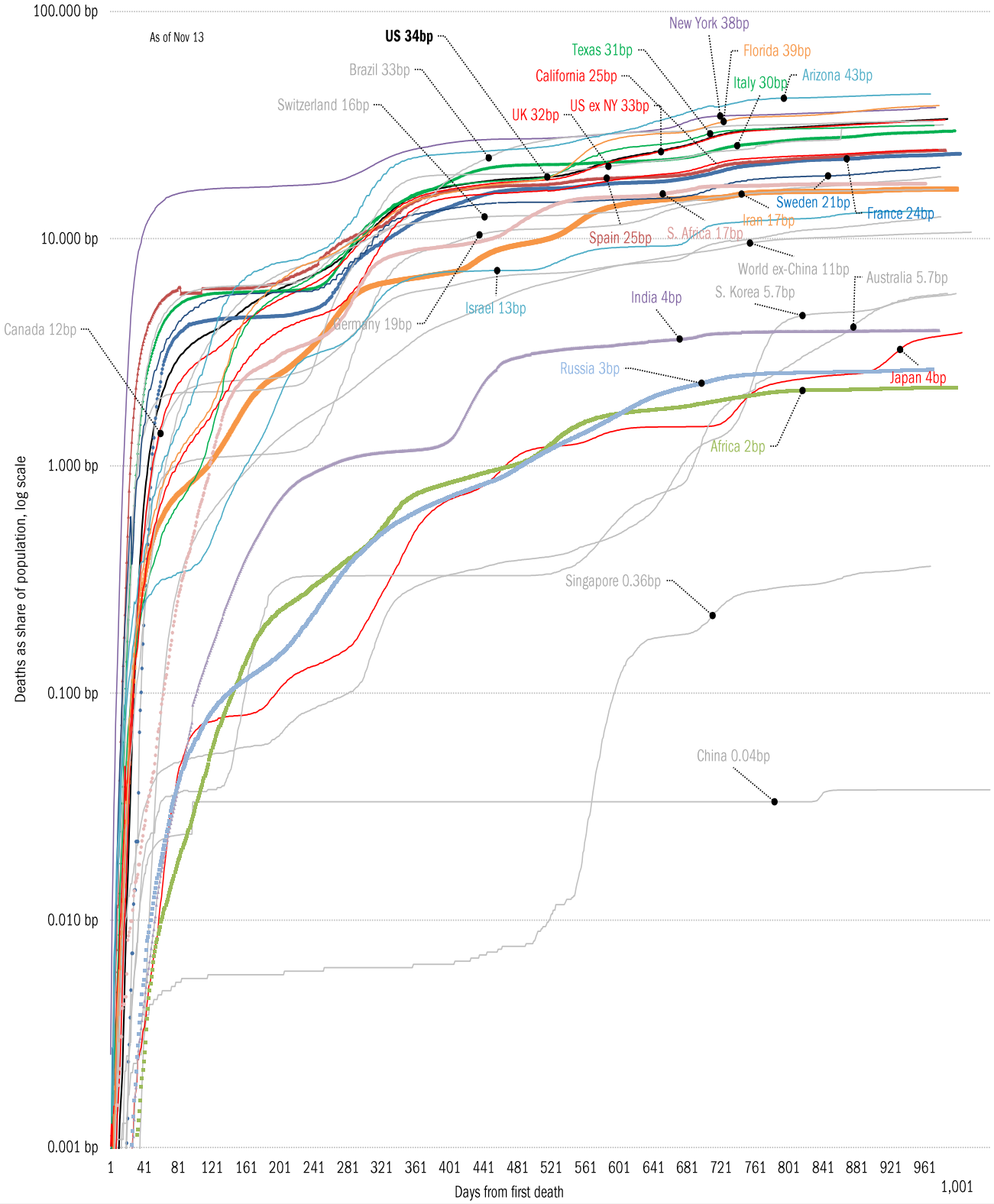
Share of infected population from first day with 100 confirmed cases, log scale



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

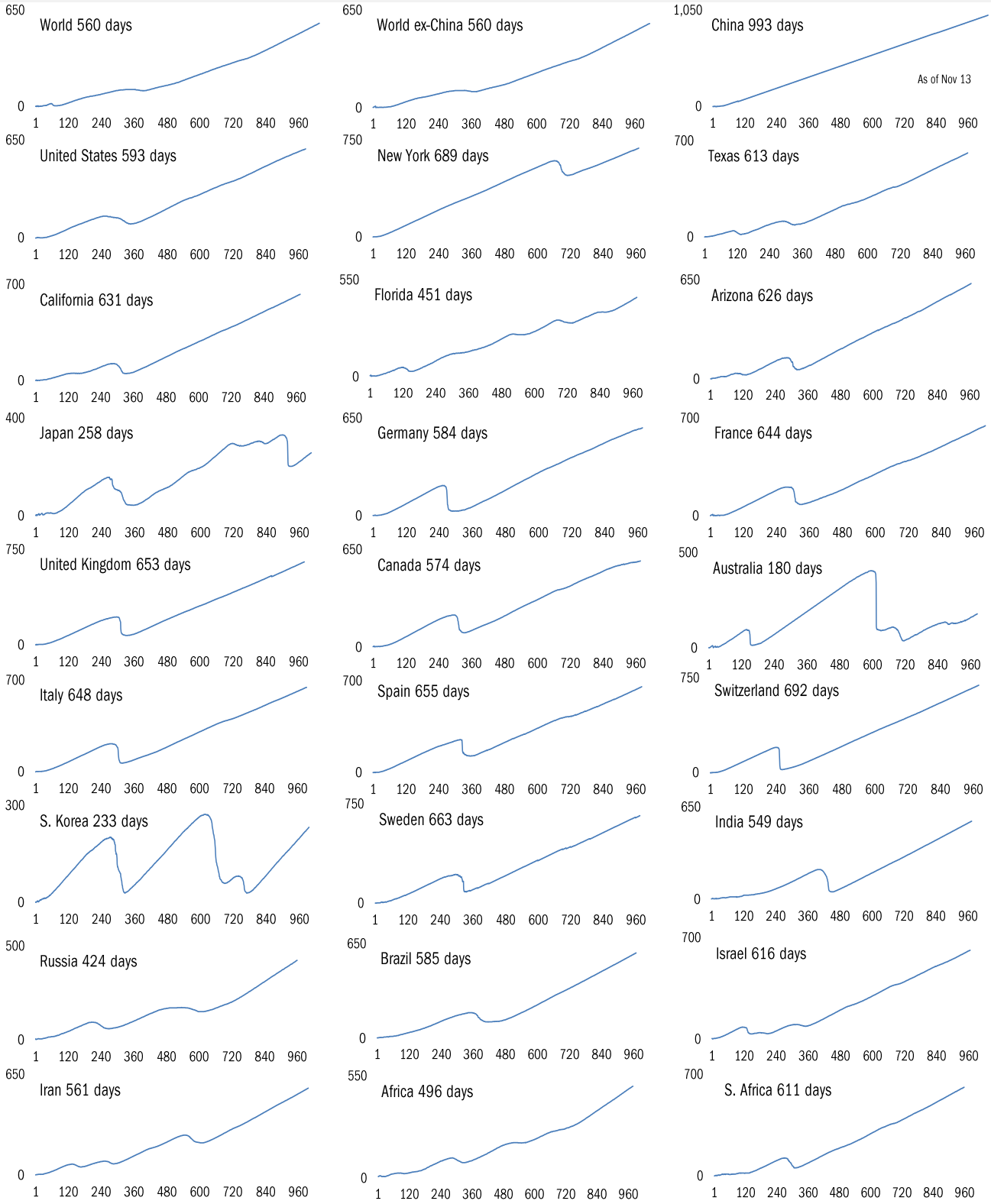


Source: Johns Hopkins, TrendMacro calculations

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

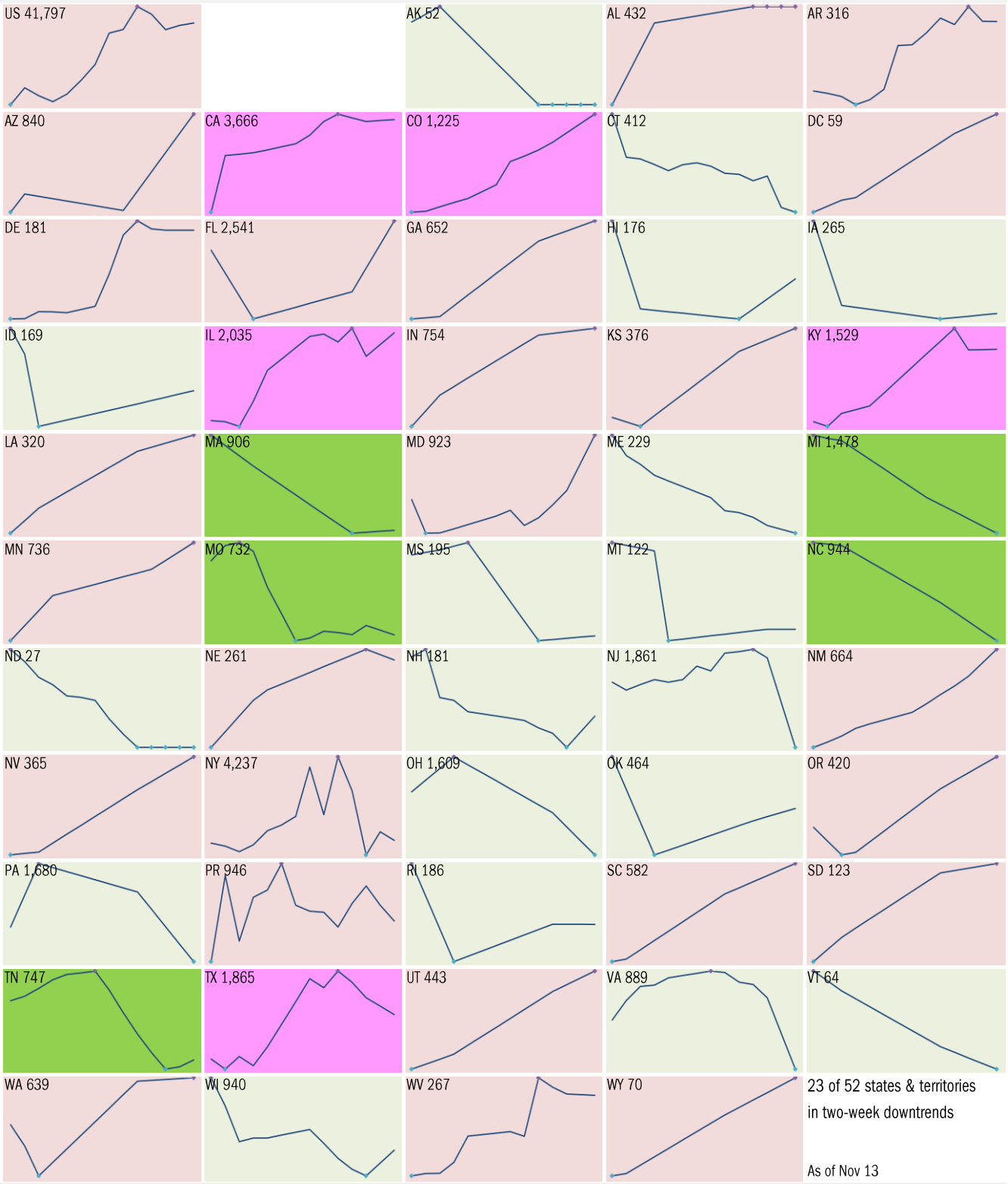


Source: Johns Hopkins, TrendMacro calculations

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

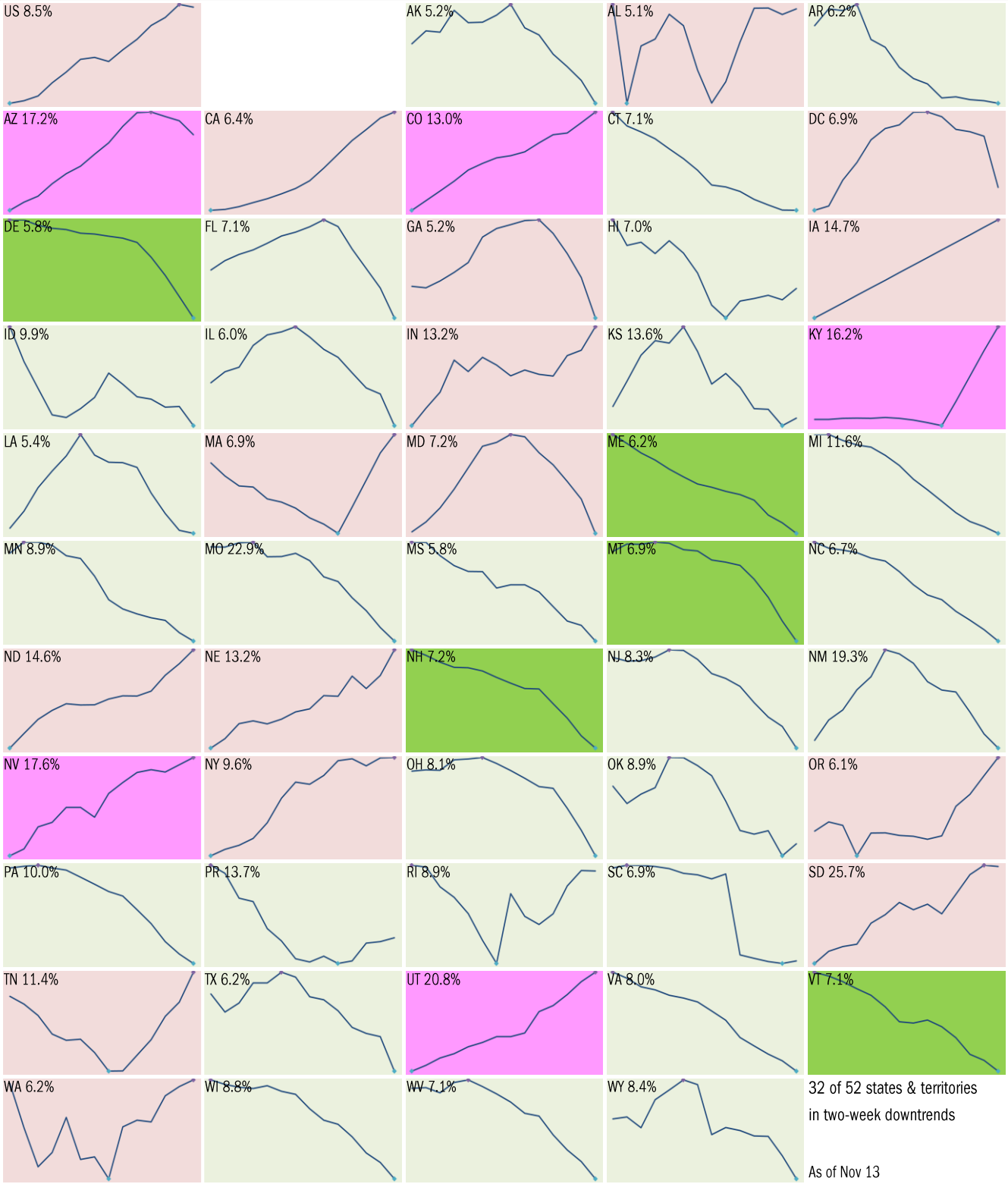


Source: Johns Hopkins, TrendMacro calculations

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

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

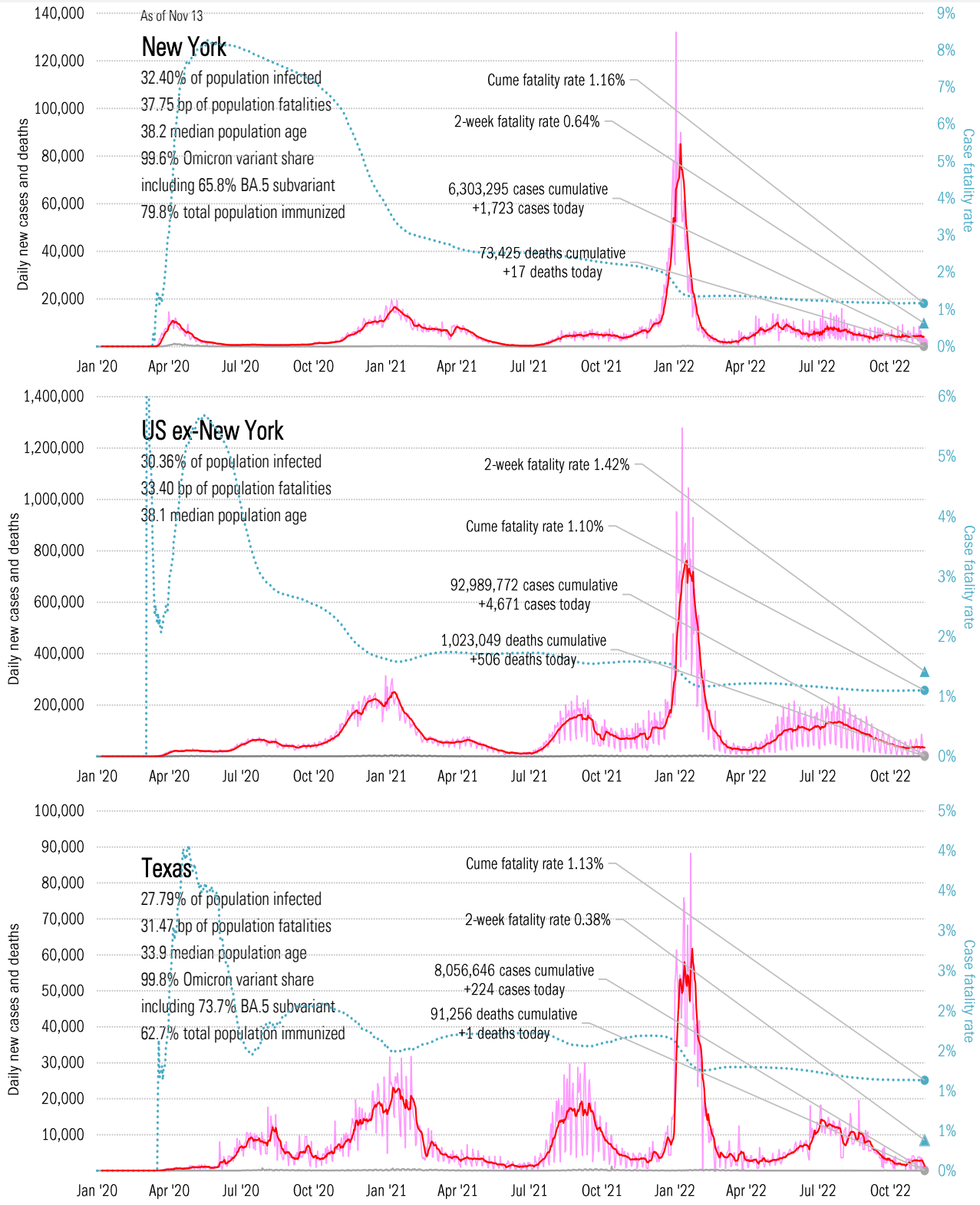
Downward trajectory Five best Upward trajectory Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

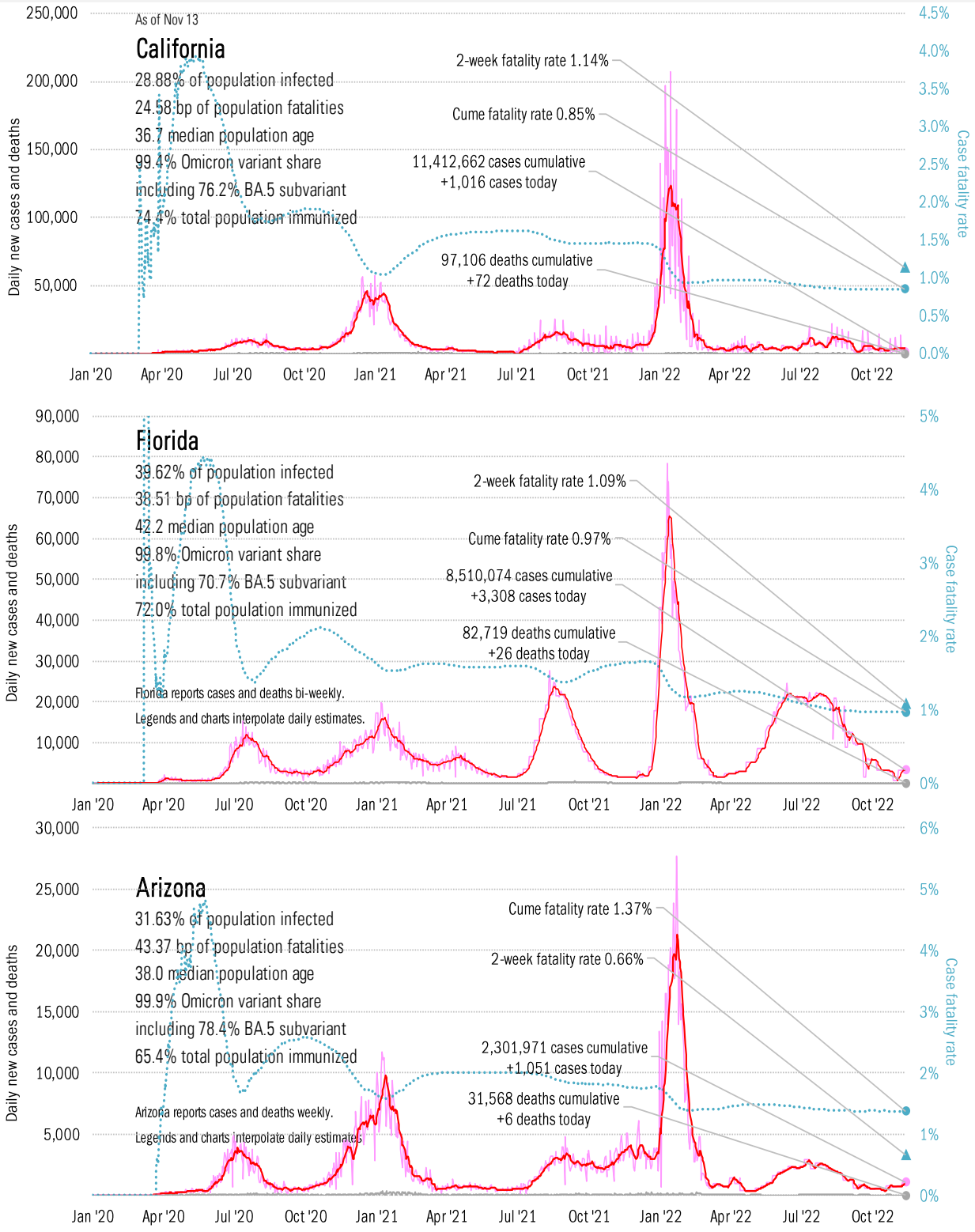
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

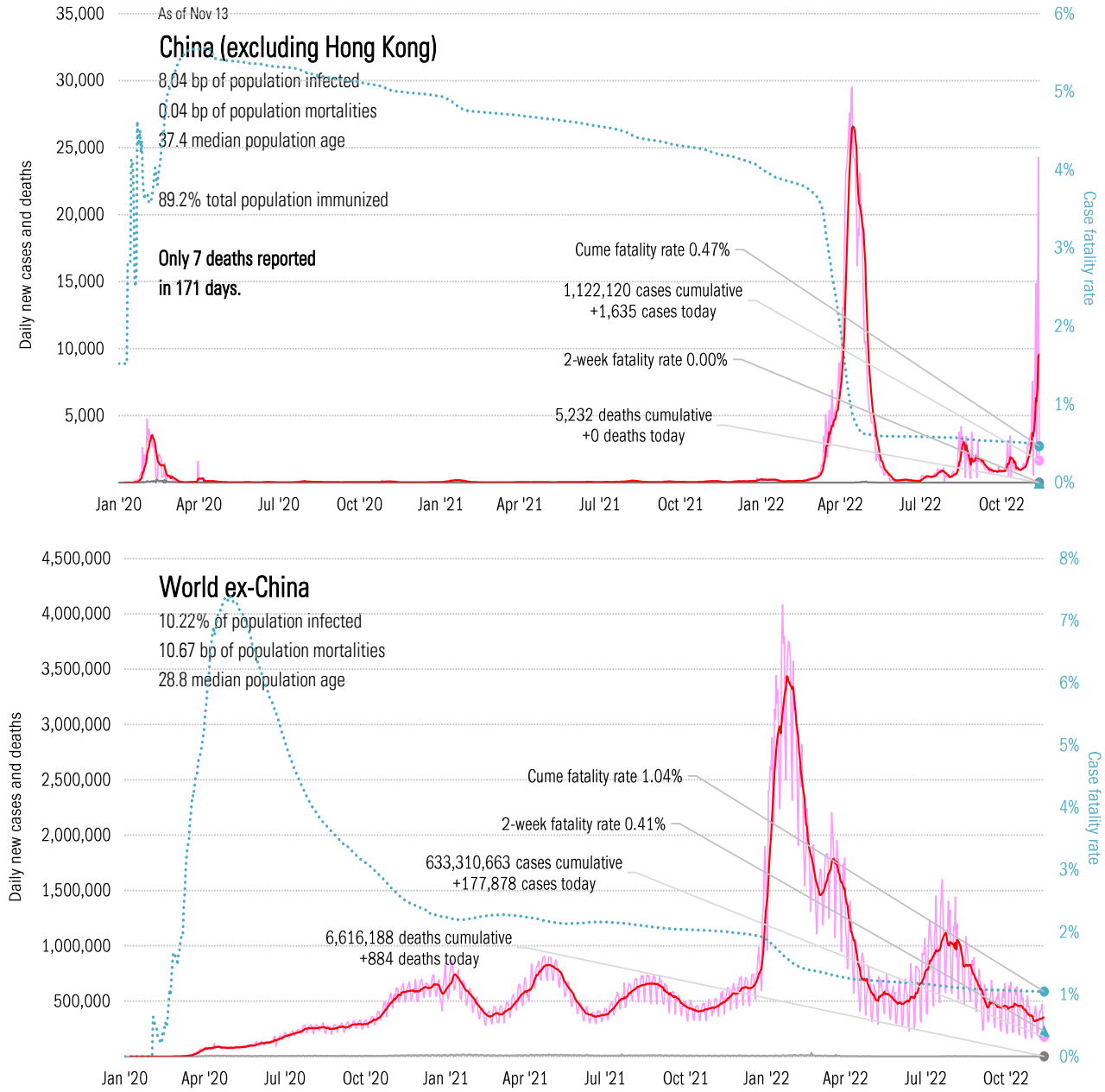
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

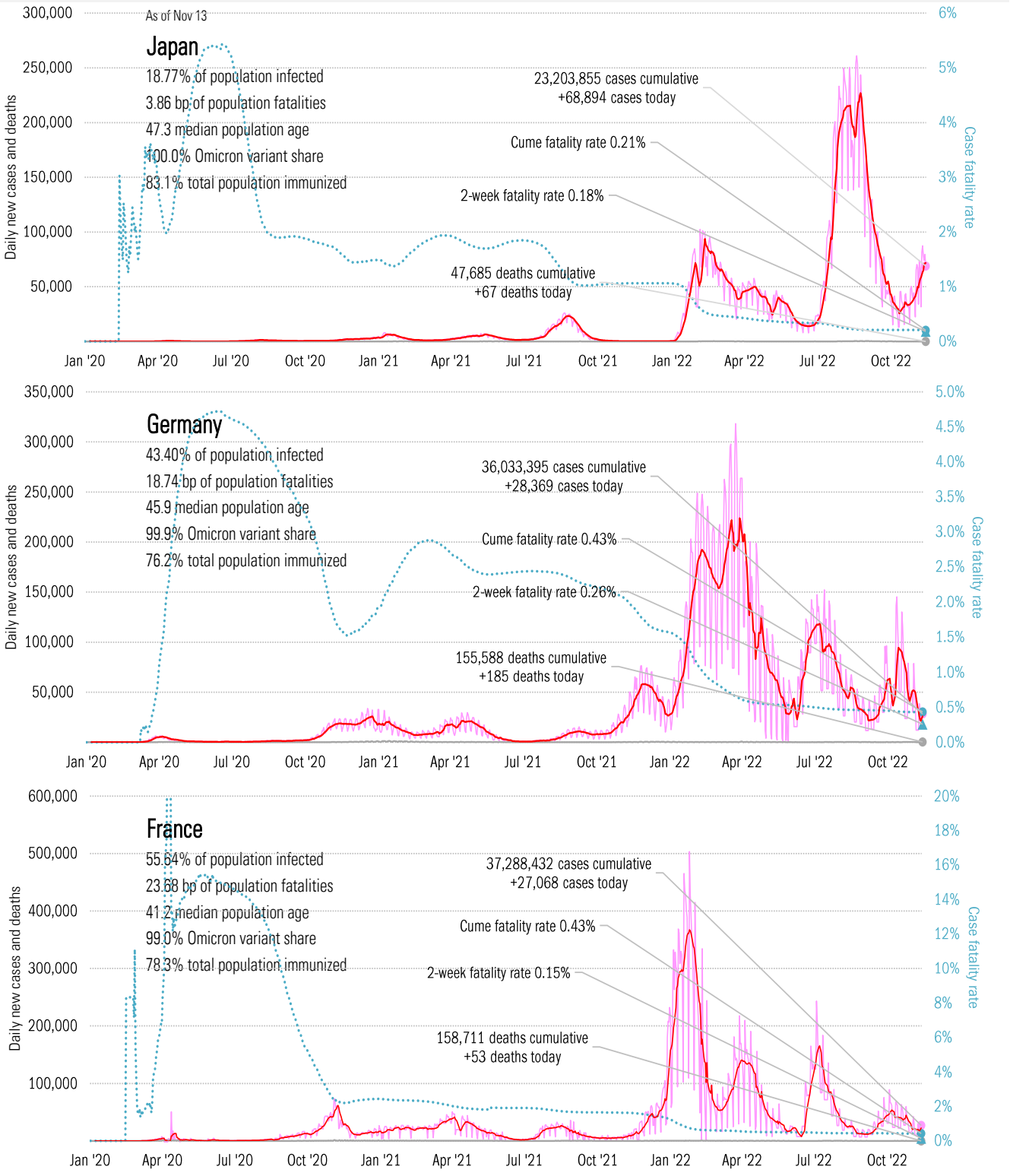
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

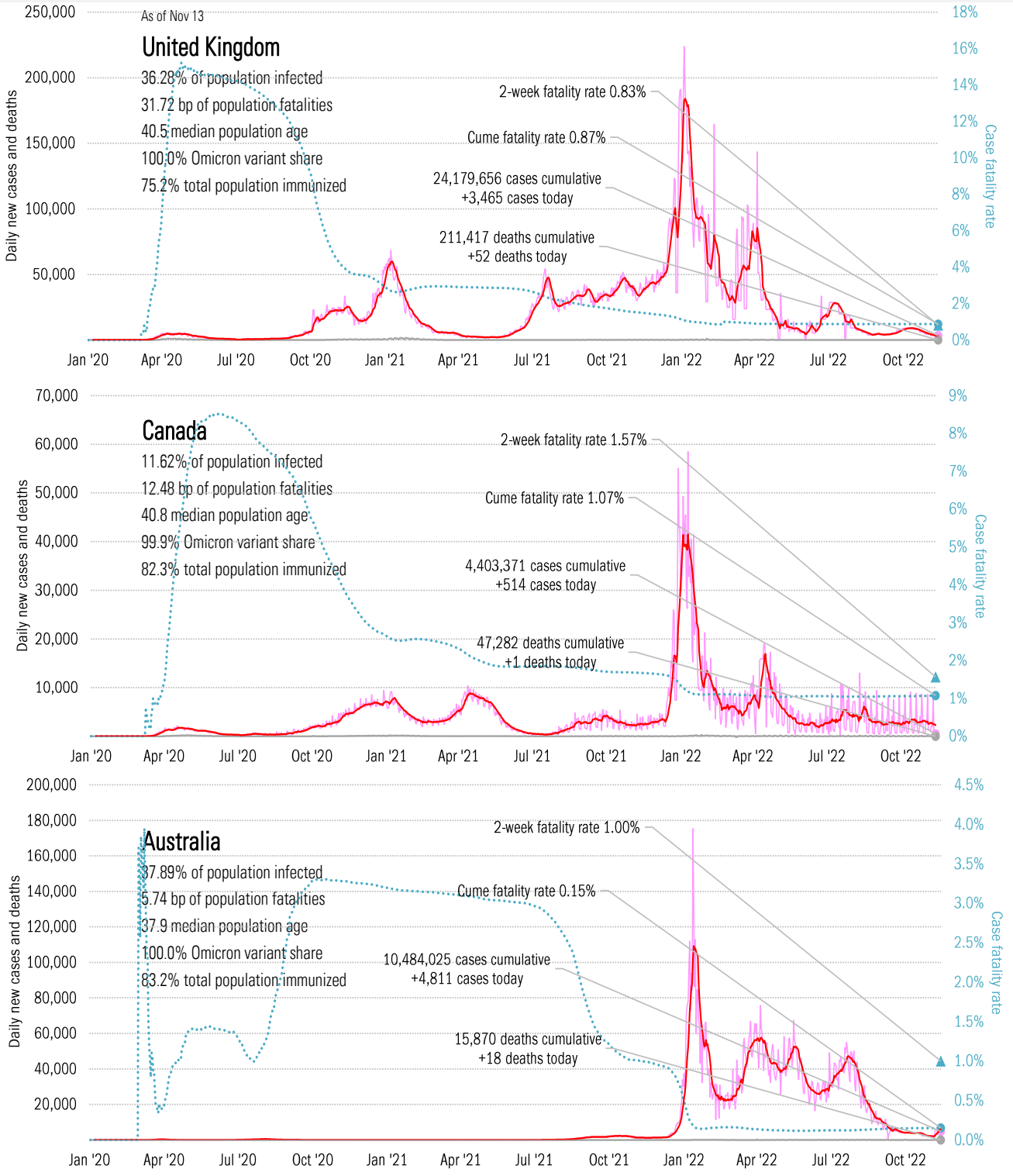
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

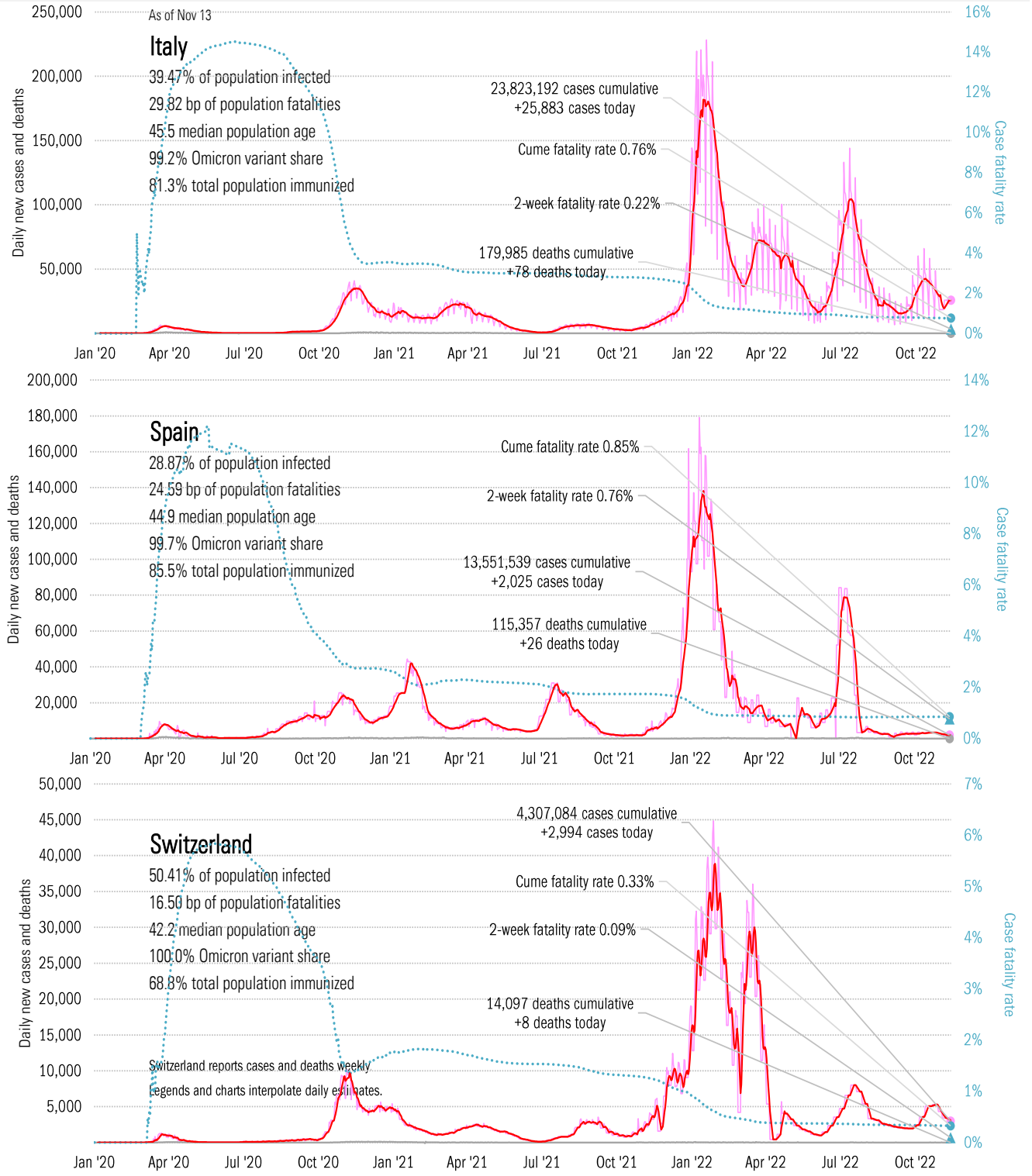
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

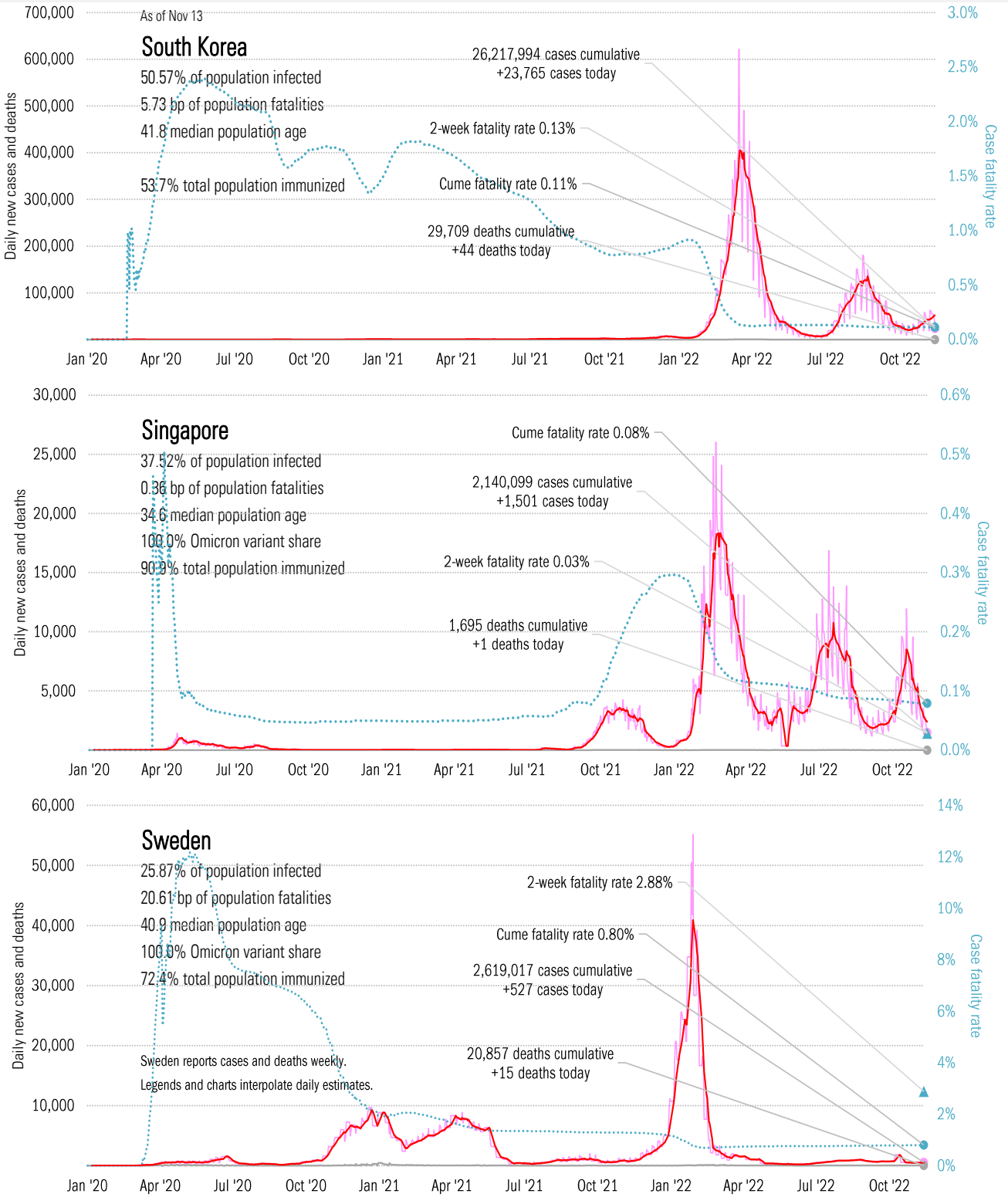
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

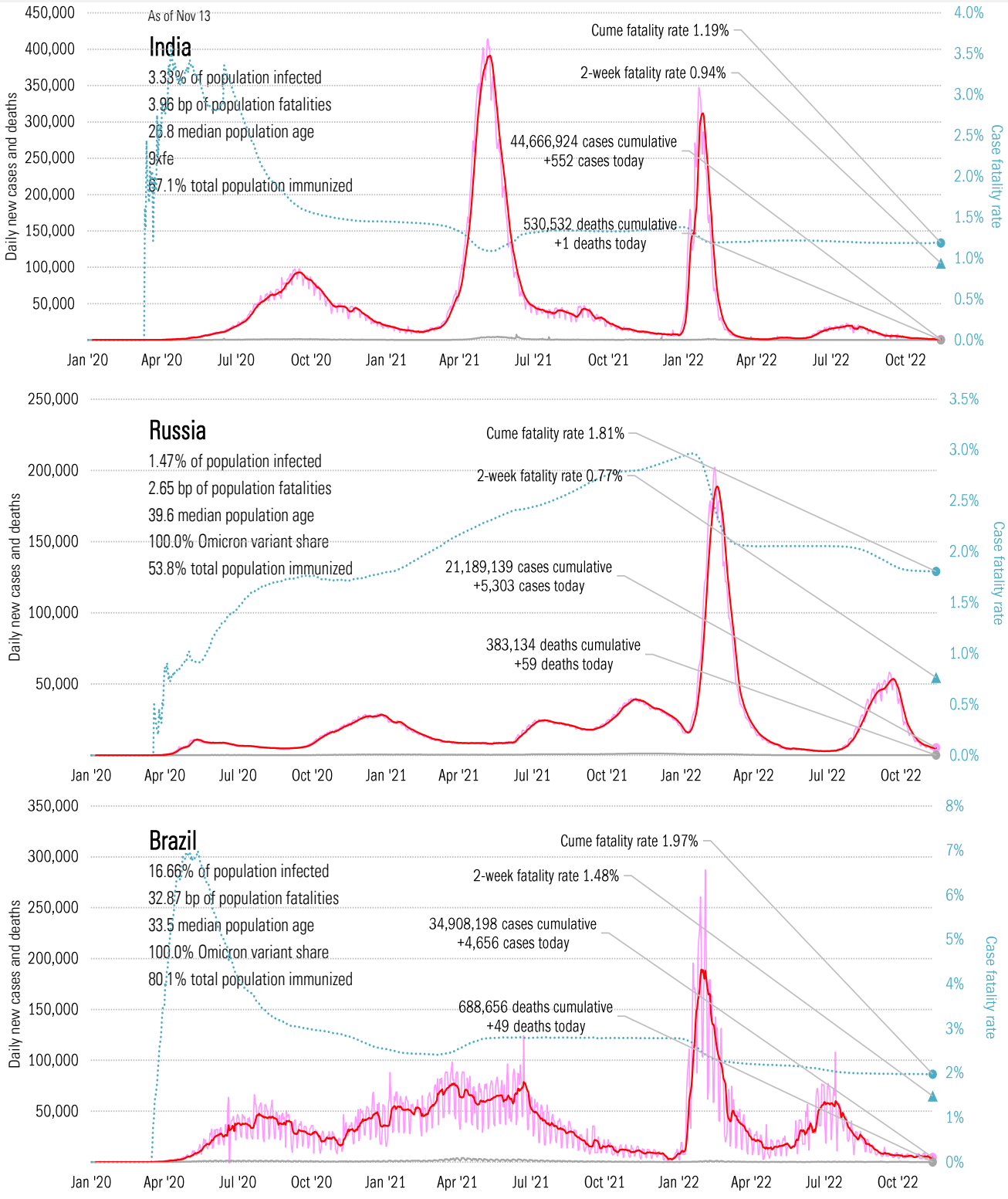
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

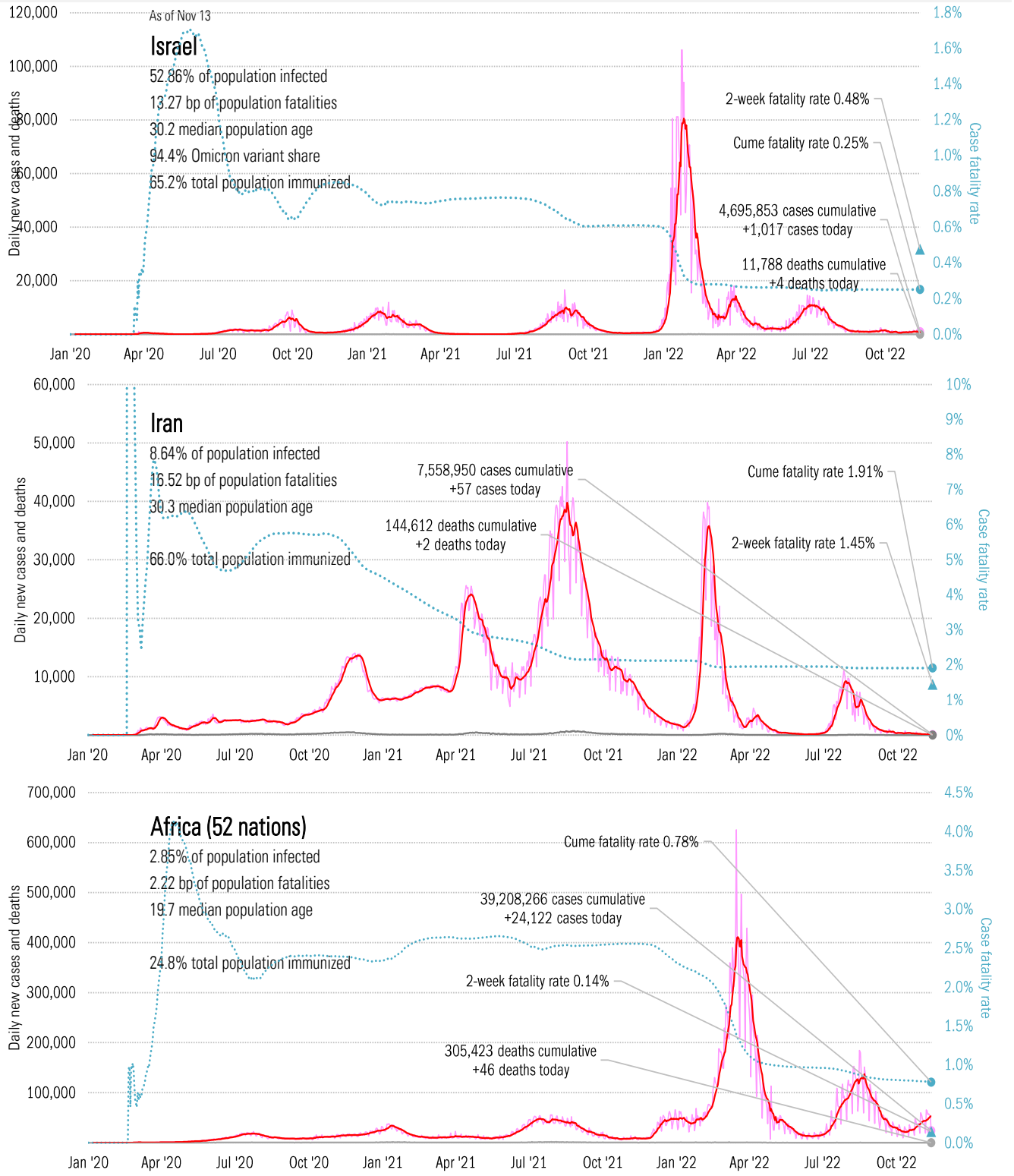
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

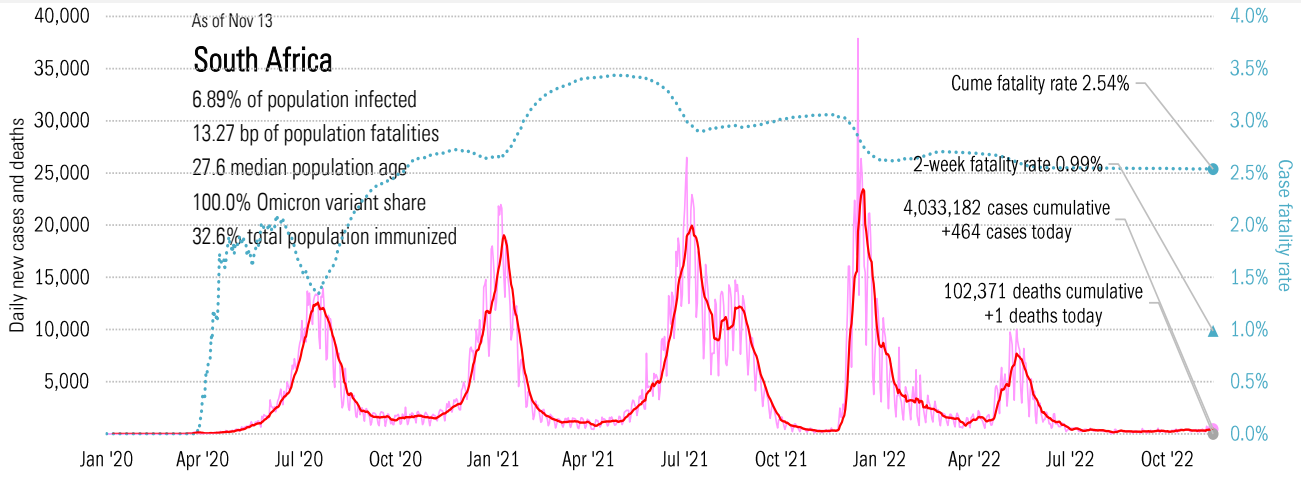
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations