Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

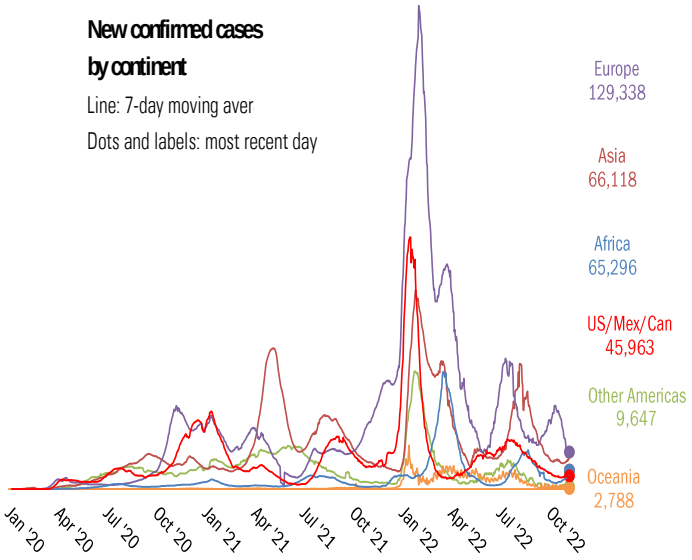
Tuesday, November 8, 2022

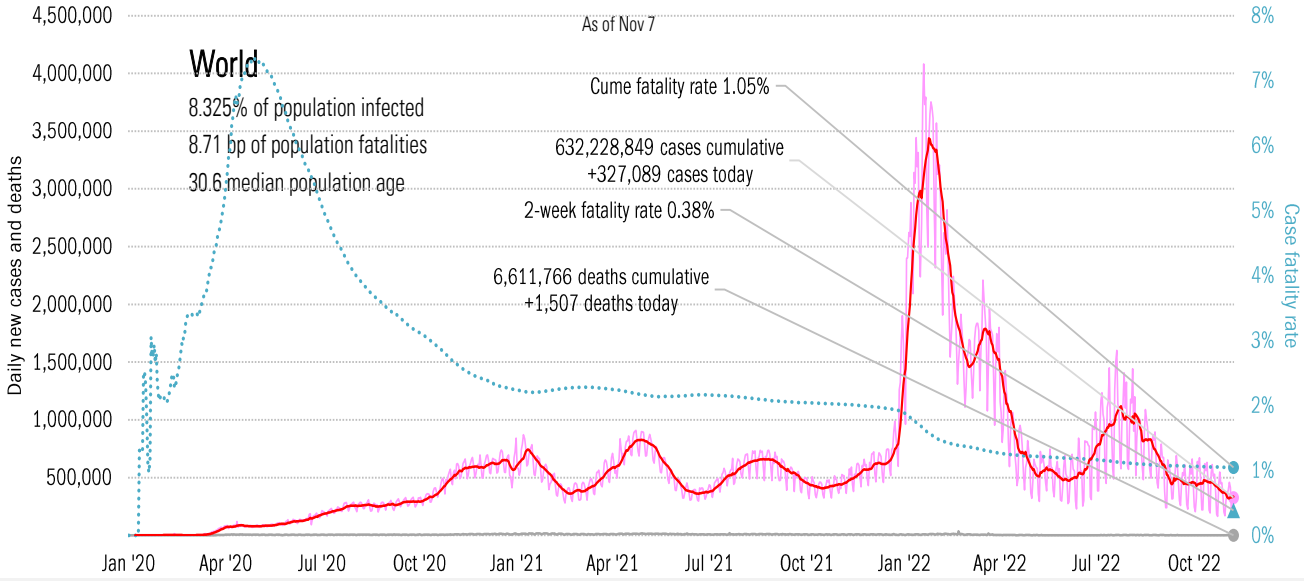
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Korea, South	62,273	Germany	250
Germany	61,063	United States	199
France	51,663	France	152
United States	44,712	Brazil	63
Japan	31,622	Russia	60
Taiwan*	16,556	Indonesia	42
Brazil	6,429	Japan	42
China	5,927	Canada	41
Chile	5,319	Chile	40
Russia	4,389	Taiwan*	34
	289,953		923
World	327,089	World	1,507
Top ten	89%	Top ten	61%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

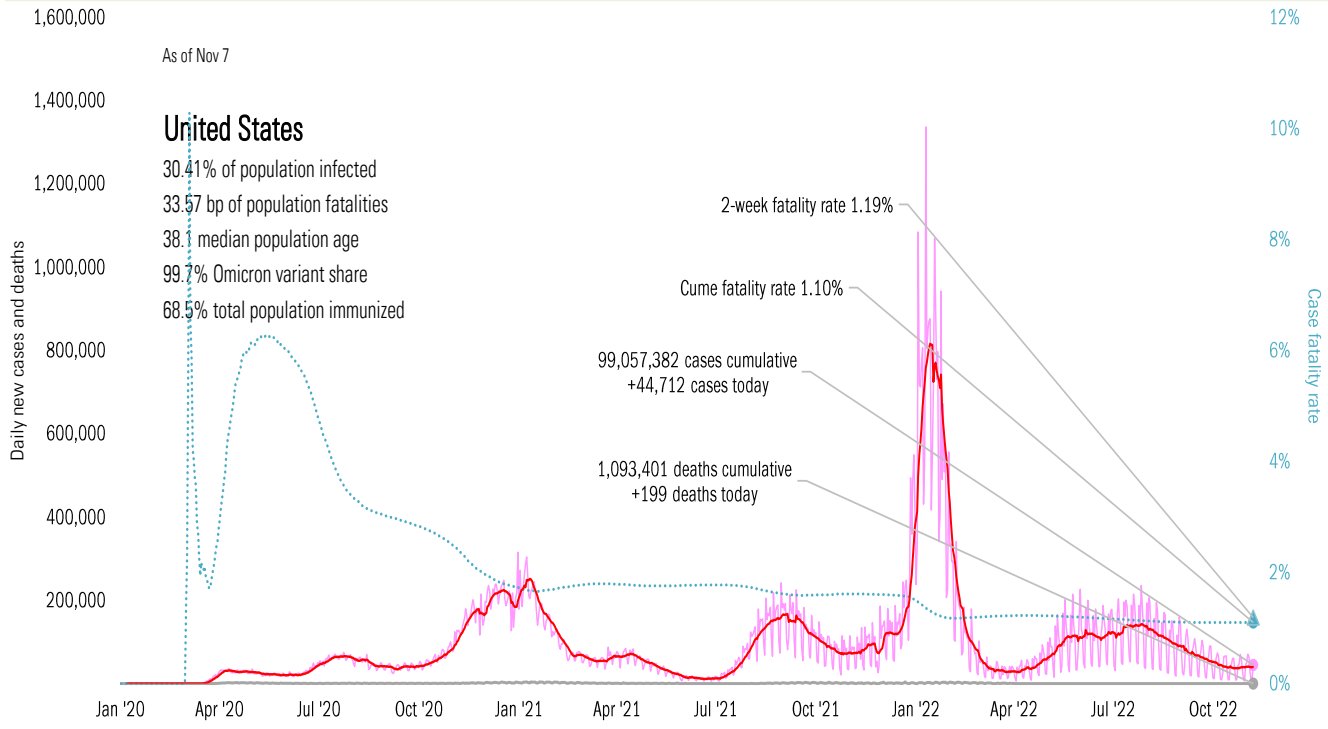
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
NY	8,568	NY	35	CA	318	CA	11,391,213	CA	97,005	TX	551,834	RI	91%	UT	116%
TX	3,875	WA	20	GA	113	FL	8,490,225	TX	91,238	CA	509,958	MA	88%	VT	87%
FL	3,308	PA	19	OH	190	TX	8,051,566	FL	82,588	FL	500,146	MN	87%	AK	86%
CA	3,000	CT	15	AZ	78	NY	6,283,496	NY	73,322	NY	312,943	CA	83%	TX	86%
CO	2,234	TX	14	IL	170	IL	3,828,639	PA	47,840	GA	228,581	MO	83%	NC	84%
OH	1,752	WI	14	NC	95	PA	3,318,490	GA	40,696	OH	224,373	DE	83%	MA	83%
MI	1,664	GA	10	FL	172	NC	3,246,175	OH	40,249	PA	210,496	GA	83%	RI	83%
KY	1,611	SC	8	MA	97	OH	3,197,300	IL	40,064	IL	192,359	WV	83%	NE	82%
IL	1,578	IN	7	CT	67	GA	2,924,732	MI	39,406	MI	167,737	WA	81%	DC	82%
NC	1,248	CA	7	TN	68	MI	2,897,827	NJ	34,940	KY	146,908	HI	81%	NH	82%
	28,838		149		1,368		53,629,663		587,348		3,045,335				
All states	44,712		199		3,256	All states	99,057,382		1,093,401		5,529,521	All states	70%		67%
Top ten	64%		75%		42%	Top ten	54%		55%		55%	Median	77%		73%

Some states not reporting

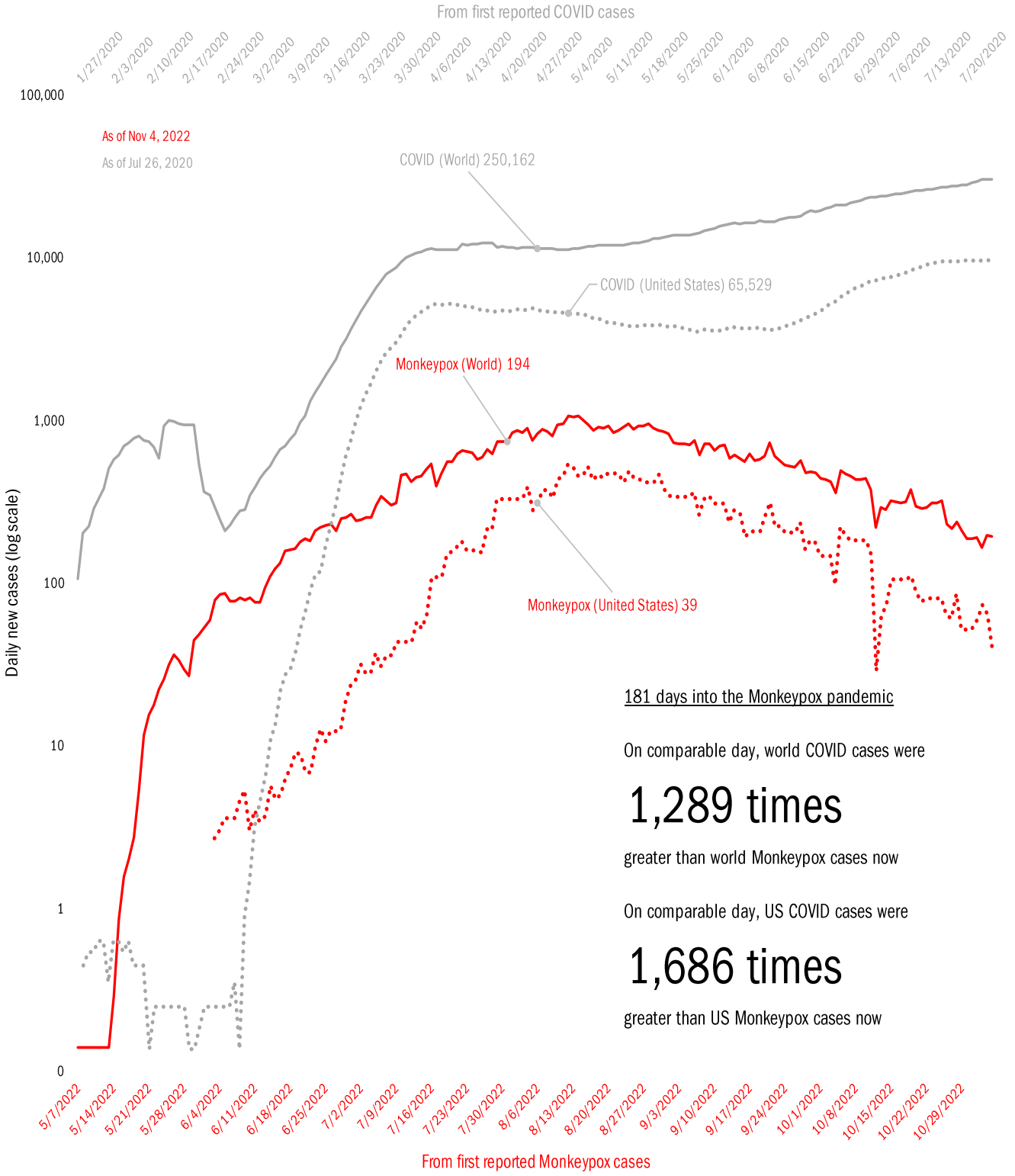
Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
PA	-1,145	FL	-52	PA	-39
NJ	-1,092	MI	-22	MI	-33
AR	-335	ME	-18	VA	-30
CT	-36	MO	-8	WI	-19
MO	-8	MN	-7	IN	-15



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

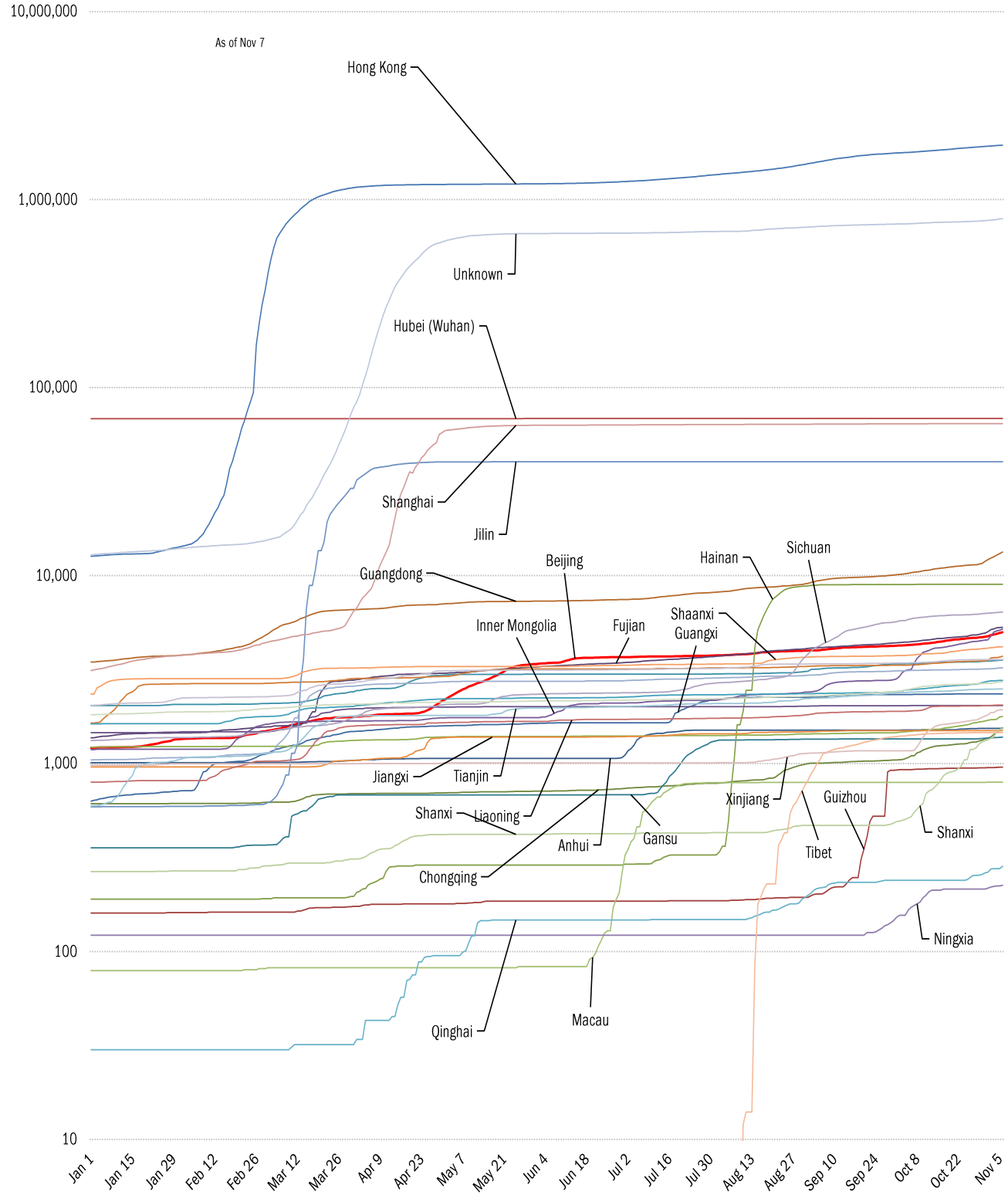
The **Monkeypox** contextualizer
The course of case growth versus COVID



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

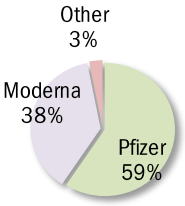
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	656,977,463				+0.593 million
				Of which boosters:	+0.496 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	274,705,371	82%	234,124,184	70%	+0.065 million
Age 12 to 17	18,319,705	72%	15,667,501	62%	+0.004 million
Age 18 to 64	182,917,151	90%	155,498,376	76%	+0.036 million
Age 65 and over	60,550,804	100%	53,022,806	97%	+0.016 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%	88.2%
Japan	83.0%	84.1%
Africa	24.7%	30.7%
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

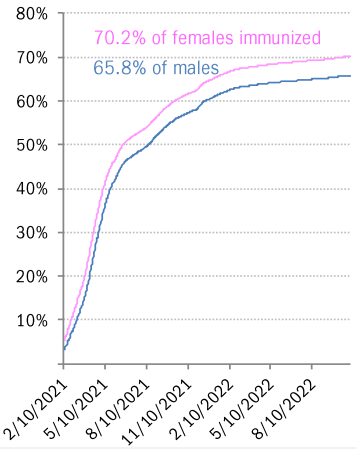
As of Nov 4

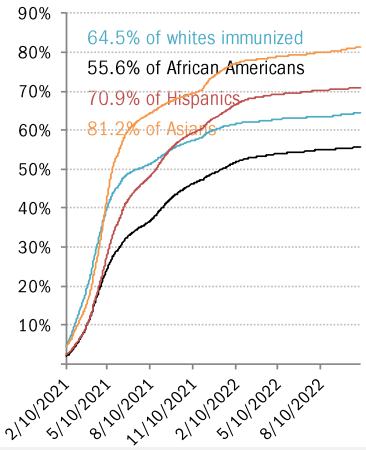
					WI					ME
					74.2%					95.0%
					67.5%					82.3%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.1%	63.2%	67.5%	68.4%	77.8%	78.4%	68.8%		93.2%	95.0%	86.2%
75.1%	55.9%	58.6%	57.8%	71.3%	70.6%	61.8%		79.7%	84.3%	70.4%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.4%	77.9%	60.1%	82.0%	69.9%	63.7%	65.1%	88.8%	93.5%	95.0%	
71.5%	62.8%	52.6%	65.1%	63.7%	57.2%	59.9%	71.9%	78.2%	82.7%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.2%	74.5%	82.6%	72.5%	68.5%	68.2%	66.9%	89.2%	90.3%	95.0%	95.0%
74.3%	66.1%	72.7%	65.4%	58.2%	59.1%	59.2%	75.7%	78.6%	82.1%	86.5%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.1%	92.4%	75.2%	69.0%	63.9%	90.0%	70.2%	95.0%	86.5%	
	65.3%	74.1%	64.4%	56.2%	55.9%	65.6%	59.2%	83.2%	71.9%	
			OK	LA	MS	AL	GA			
			73.7%	62.4%	61.2%	64.4%	67.5%			
			59.7%	54.7%	53.3%	52.6%	56.6%			
			TX					FL		PR
			75.1%					81.6%		95.0%
			62.5%					68.8%		86.3%

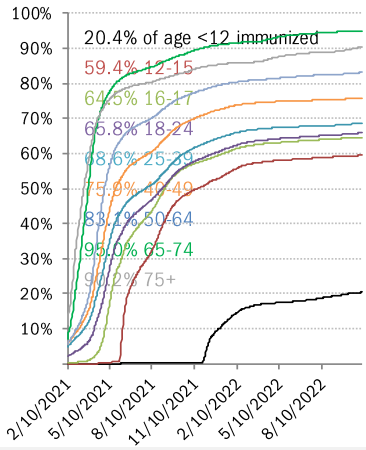
HI
90.4%
80.7%

AK
72.2%
64.6%

The demographics of US vaccination

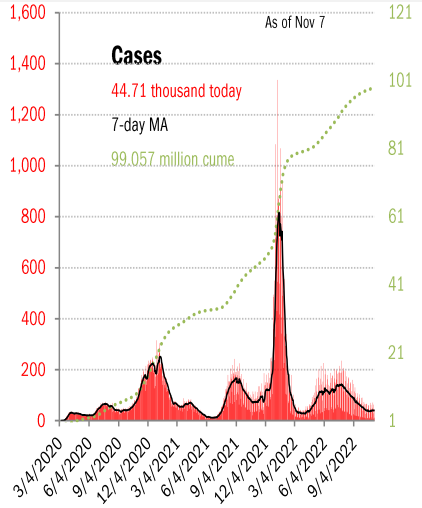


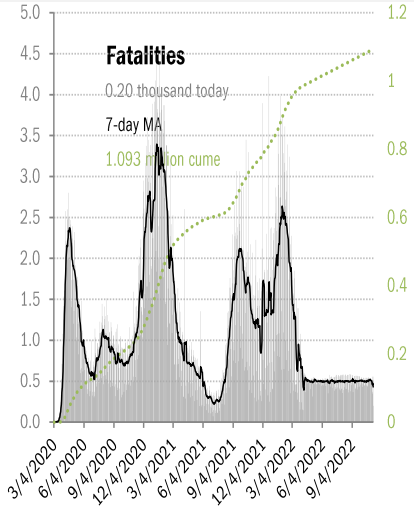


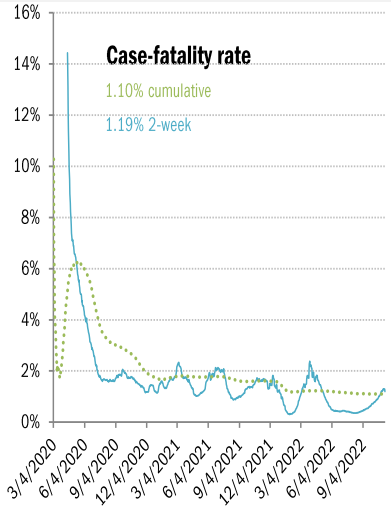


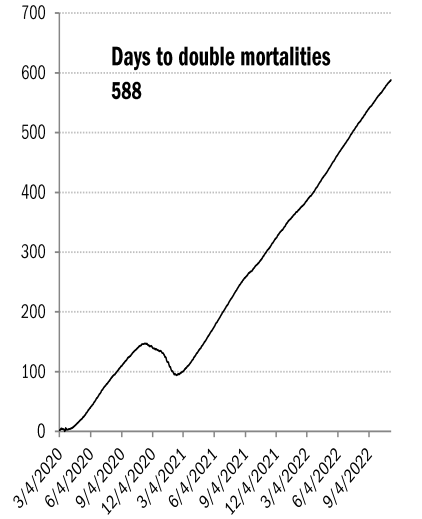
Source: CDC, CDC, Our World in Data, TrendMacro calculations

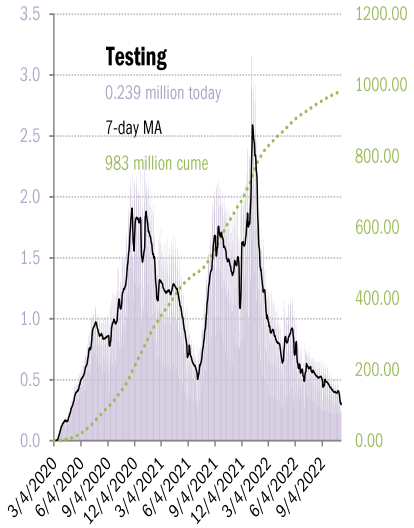
US deep-dive

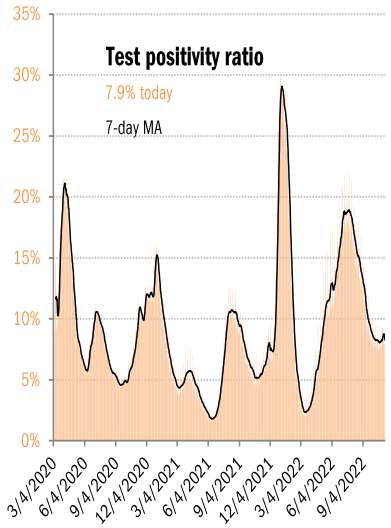


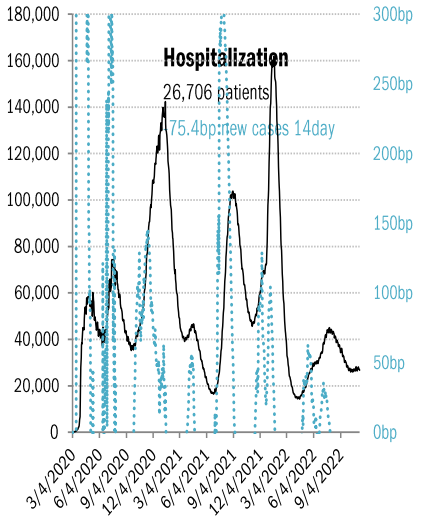


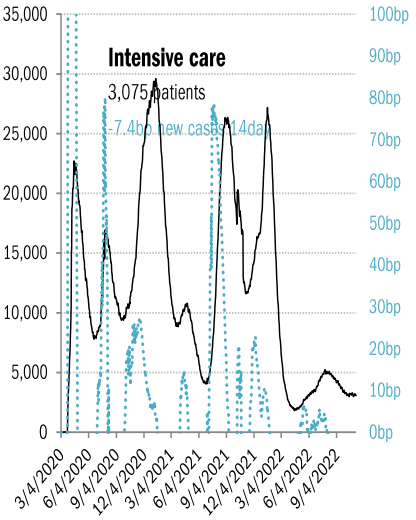


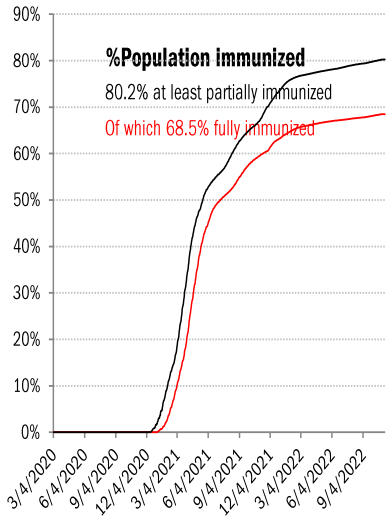












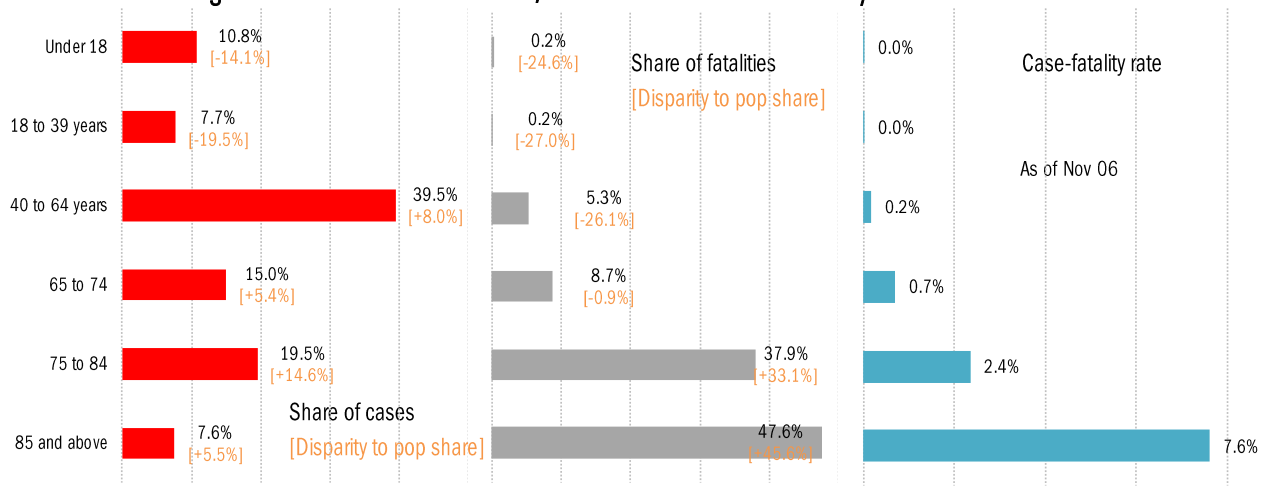
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sunday, 1 week lag

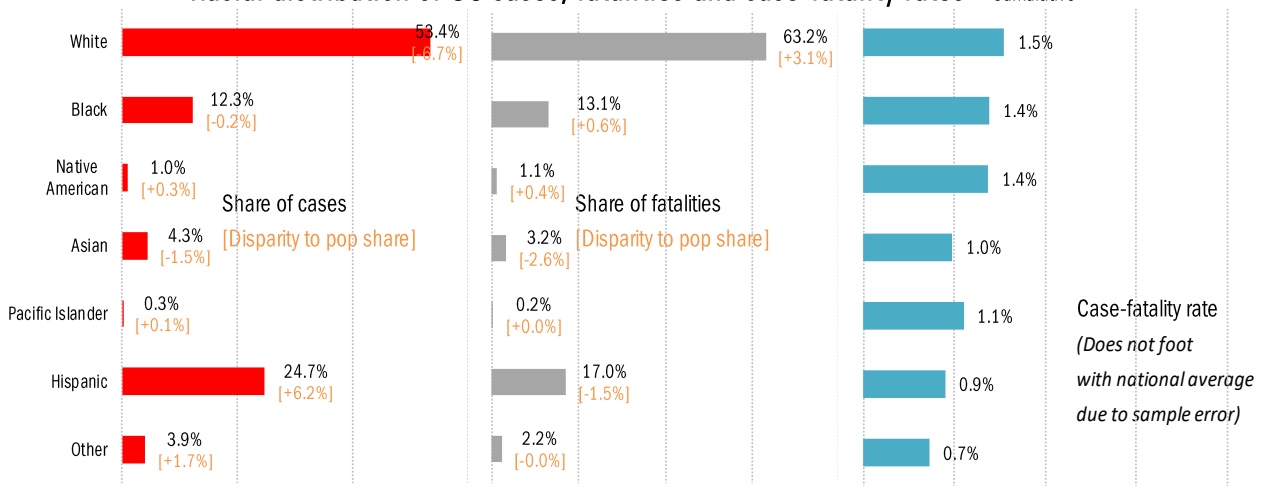
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



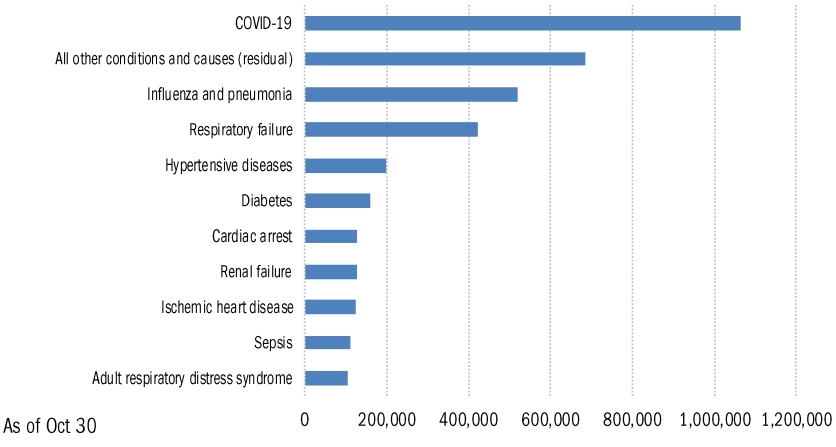
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 30

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 outbreak at Antarctic research station forces temporary travel ban]
Denise Chow
NBC
November 7, 2022

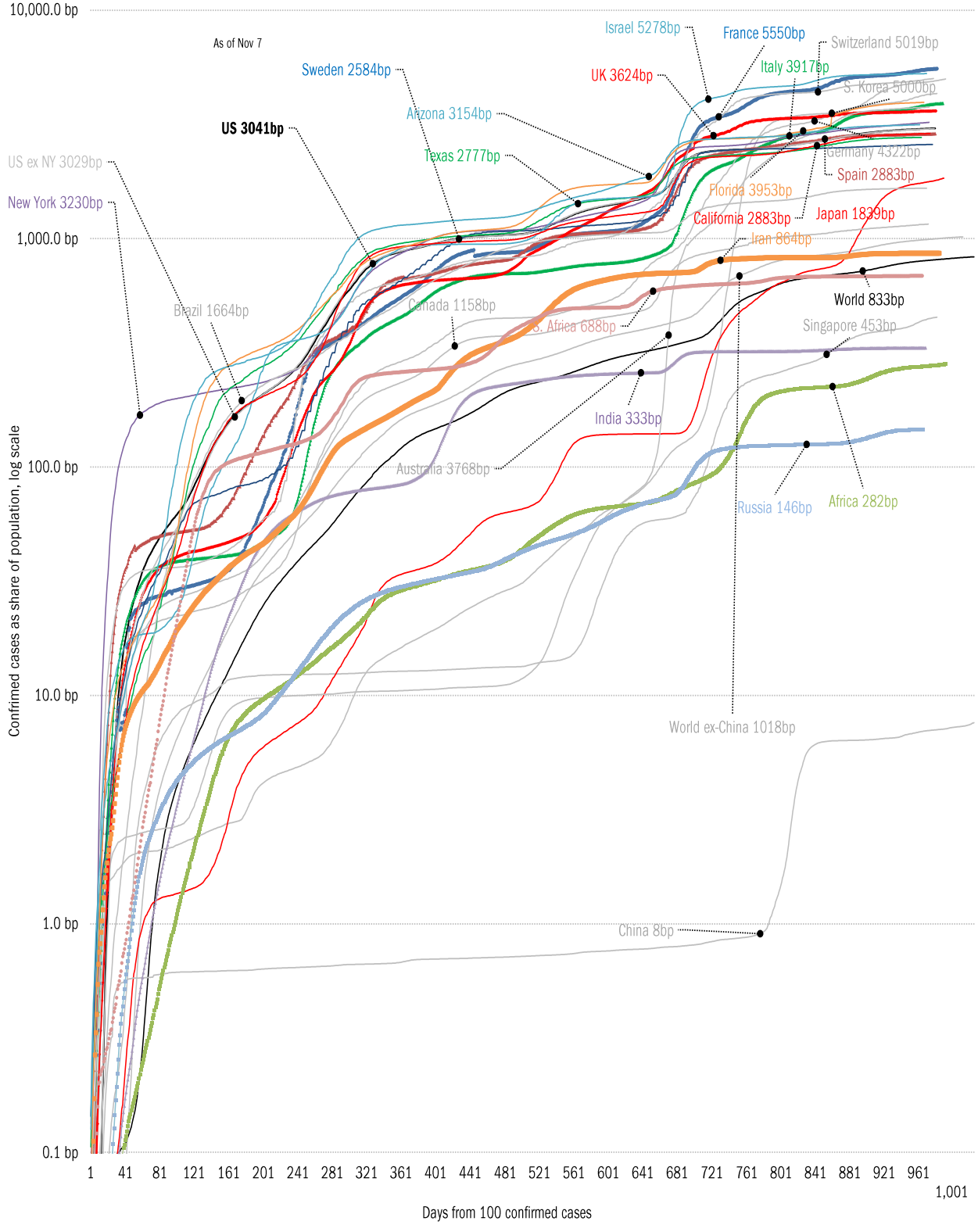
[China refuses to ease draconian "zero-COVID" policy despite rising cases and human and economic pain]
Shuai Zhang
CBS
November 7, 2022

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

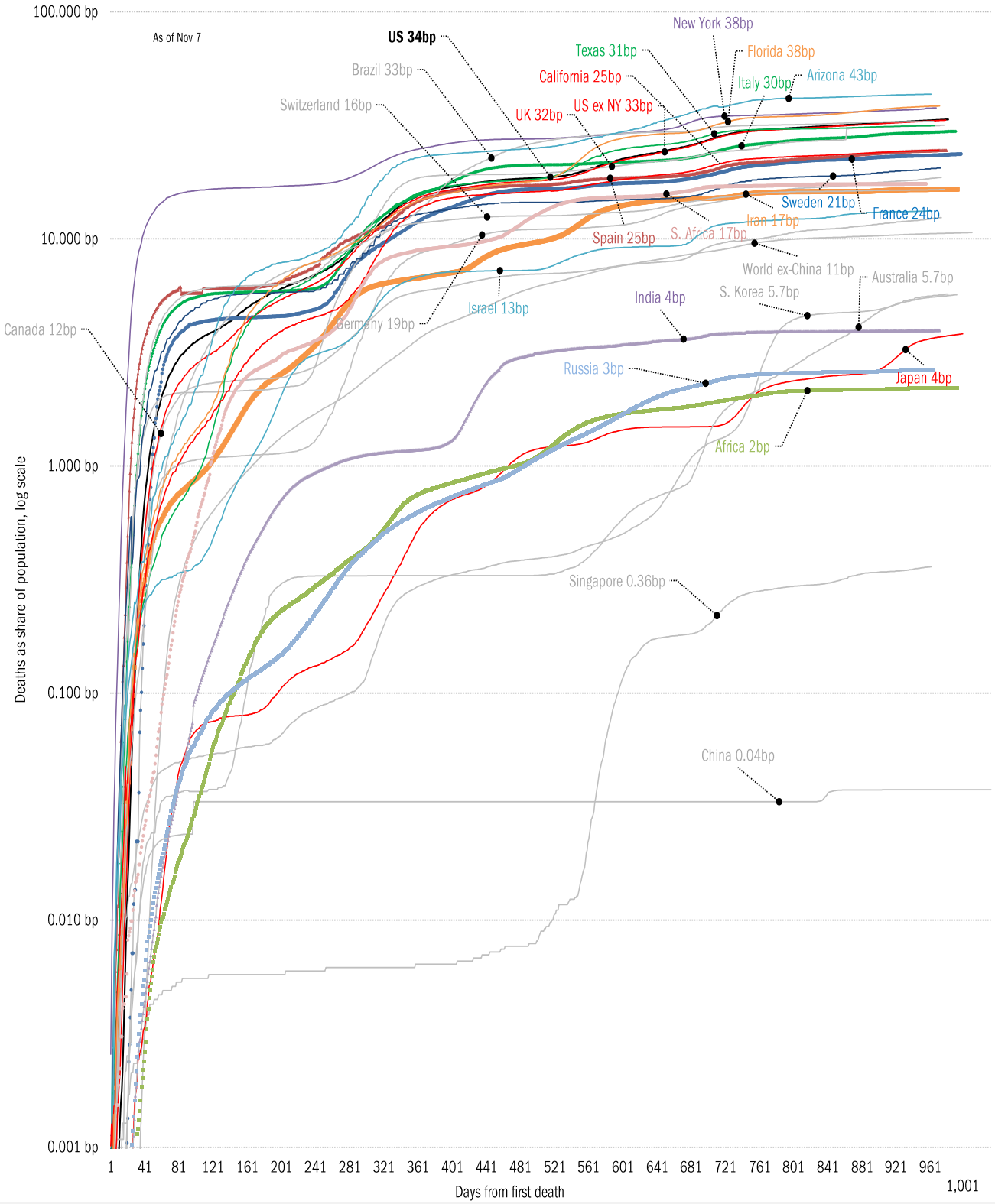
Share of infected population from first day with 100 confirmed cases, log scale



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

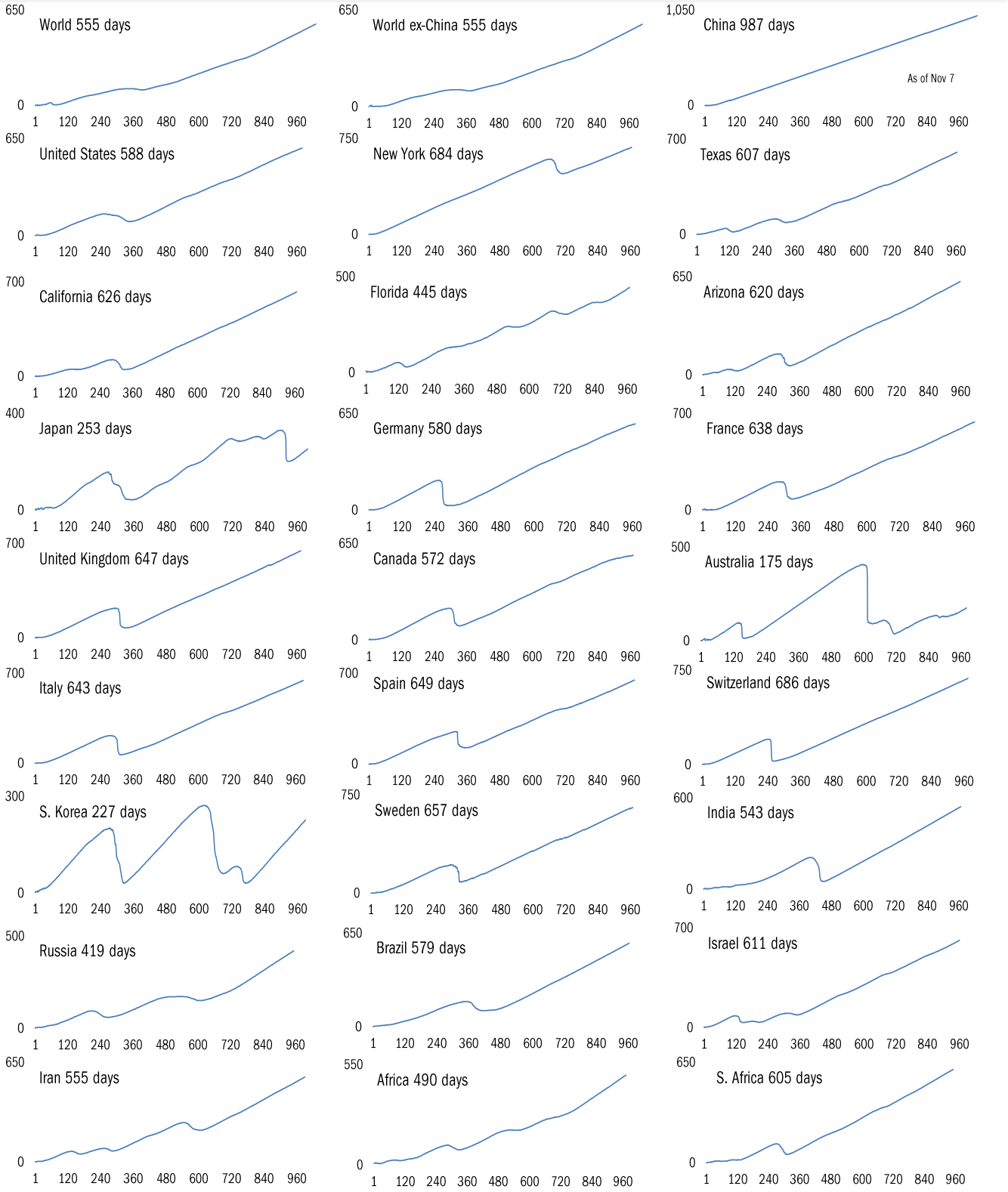


Source: Johns Hopkins, TrendMacro calculations

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

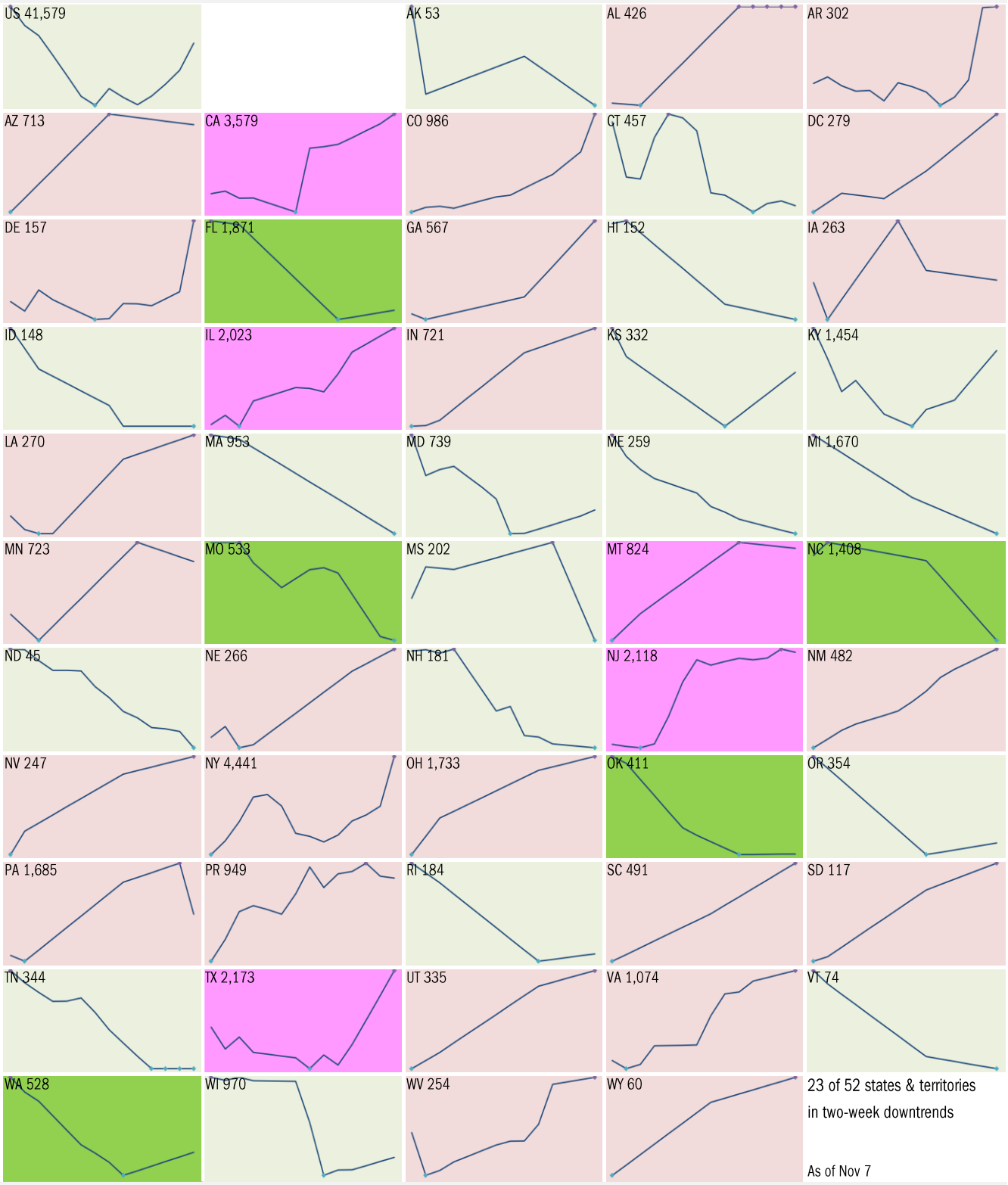


Source: Johns Hopkins, TrendMacro calculations

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**

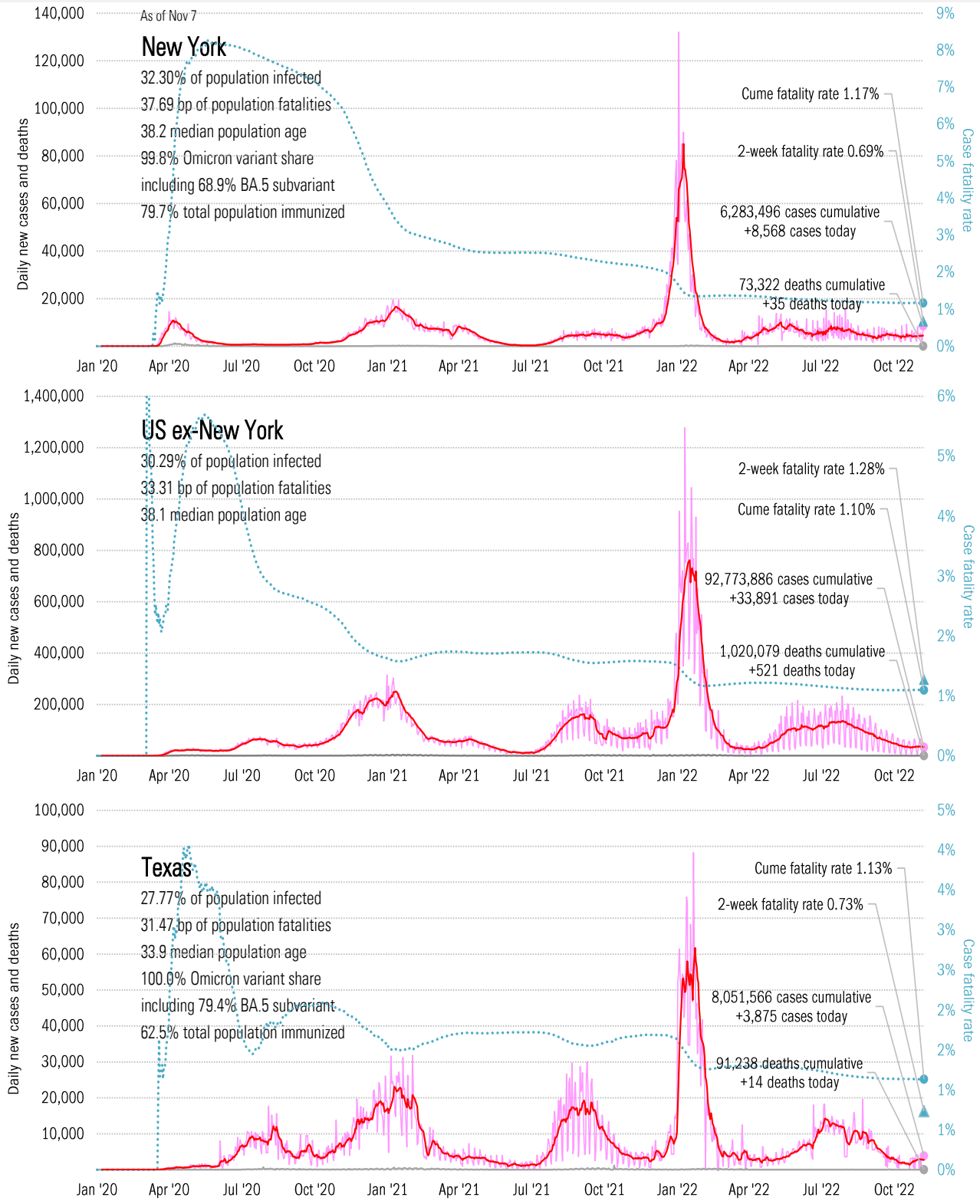
14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

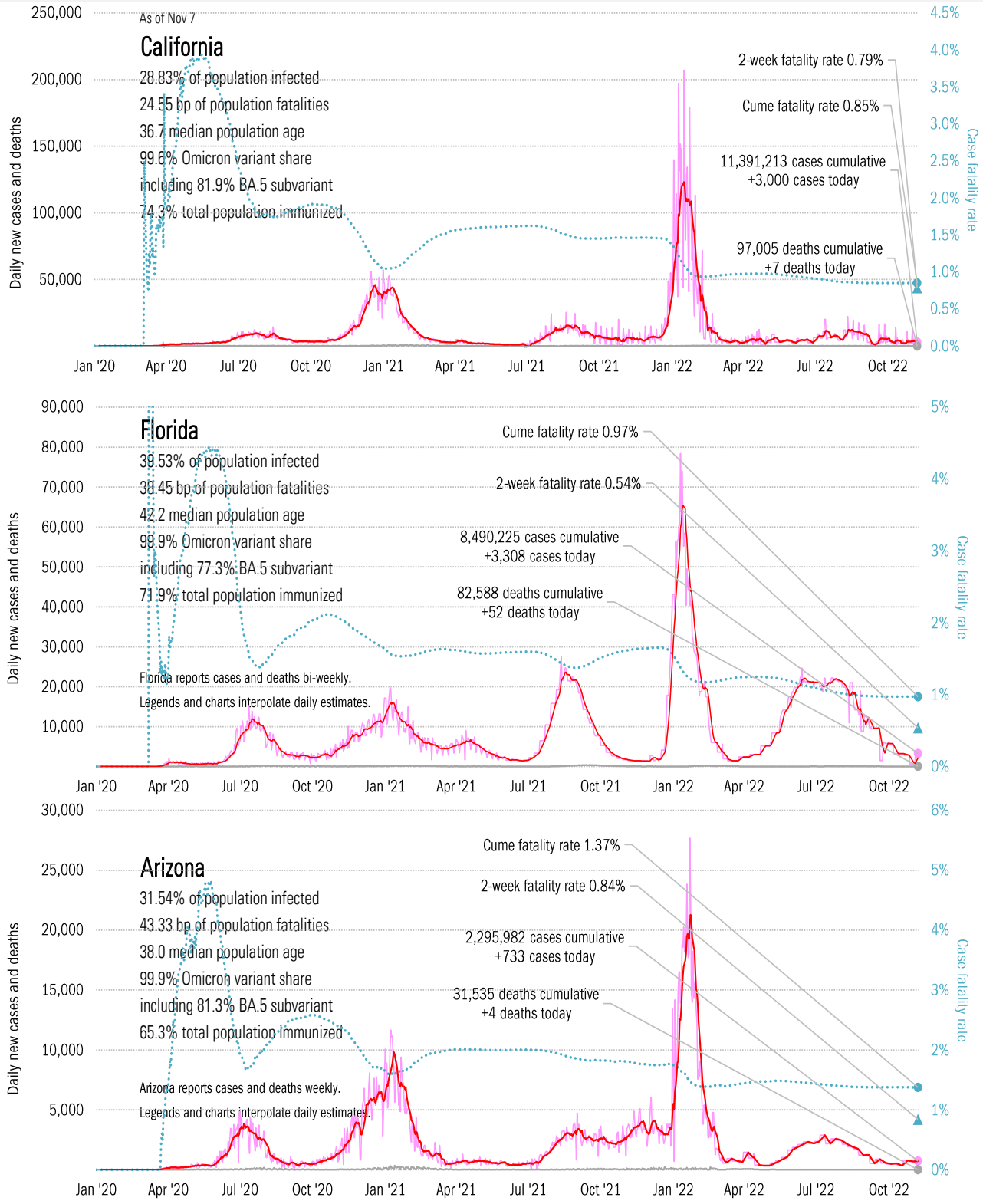
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

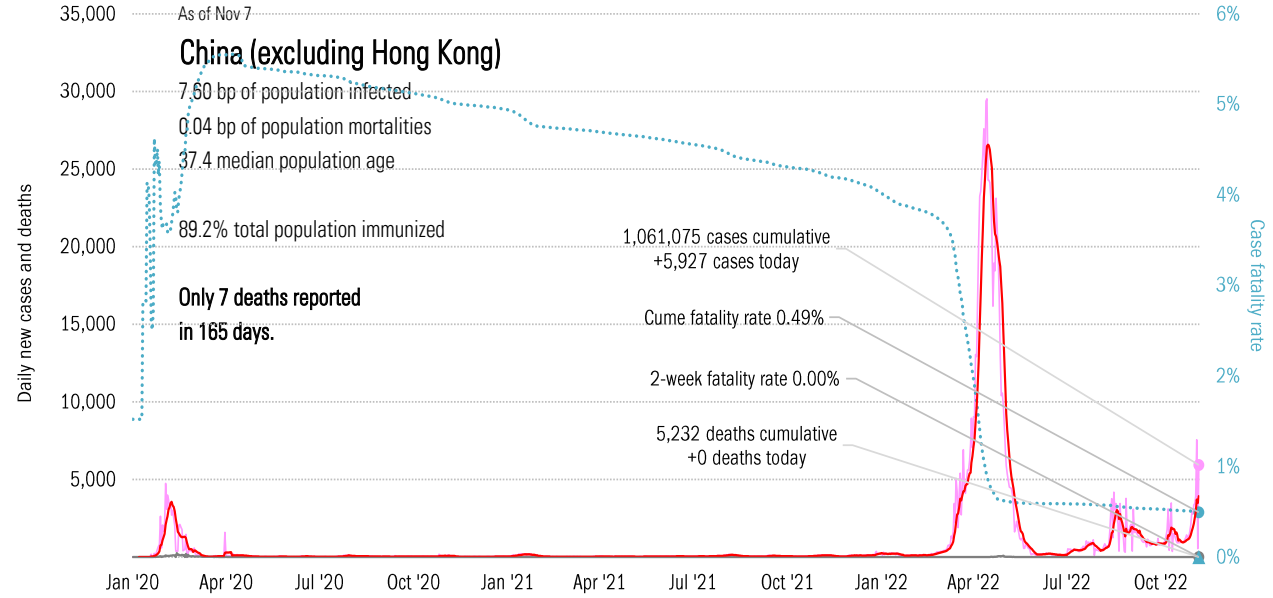
Cases: 7-day average and daily Deaths: Daily

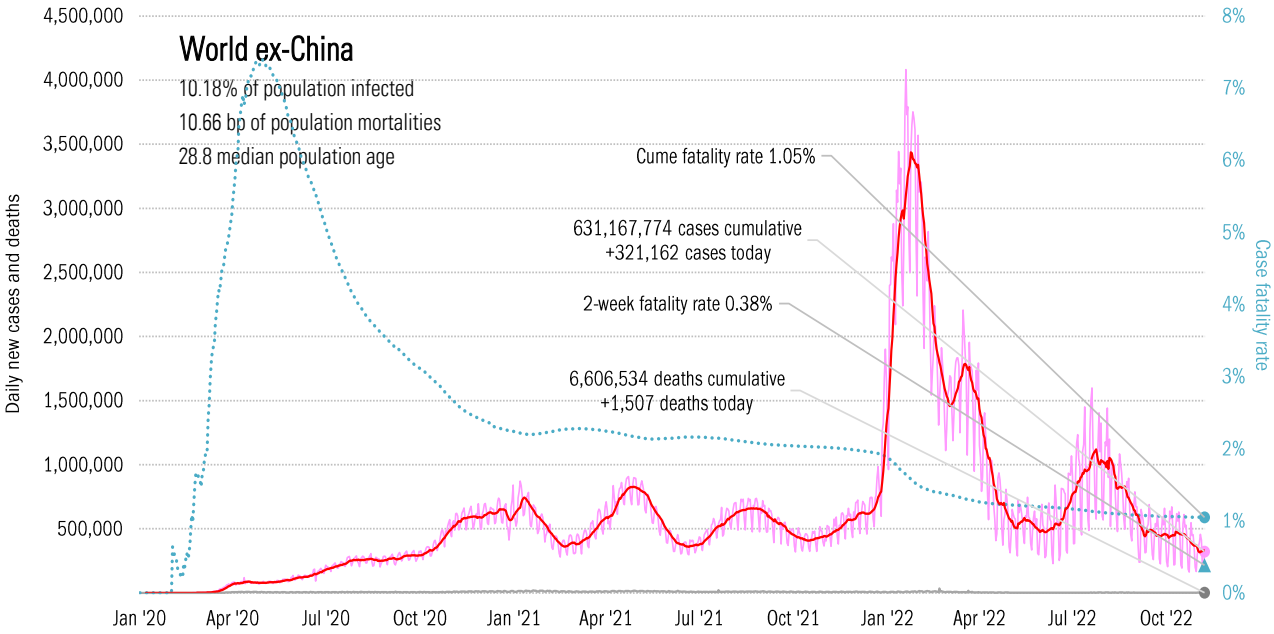


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

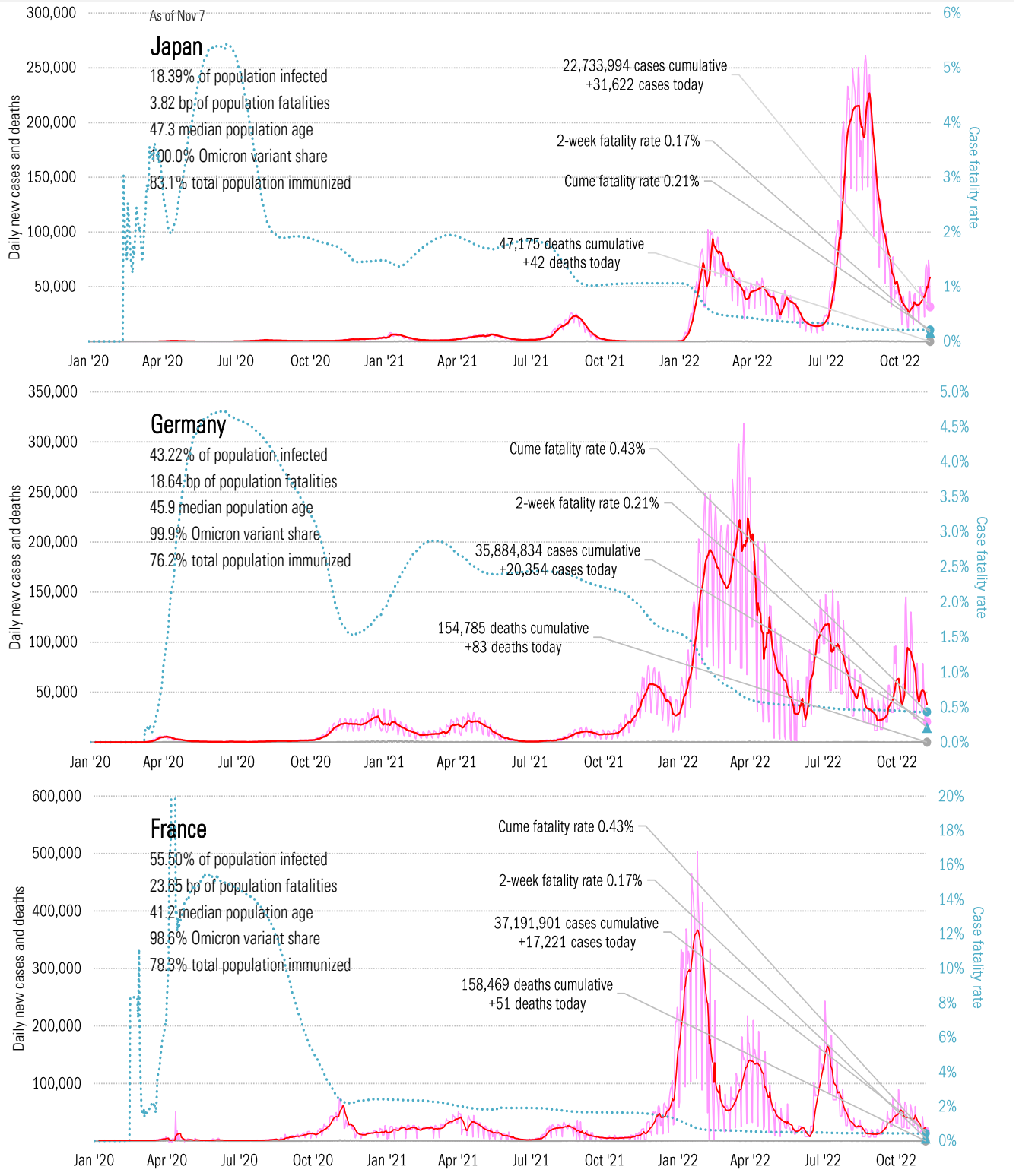




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

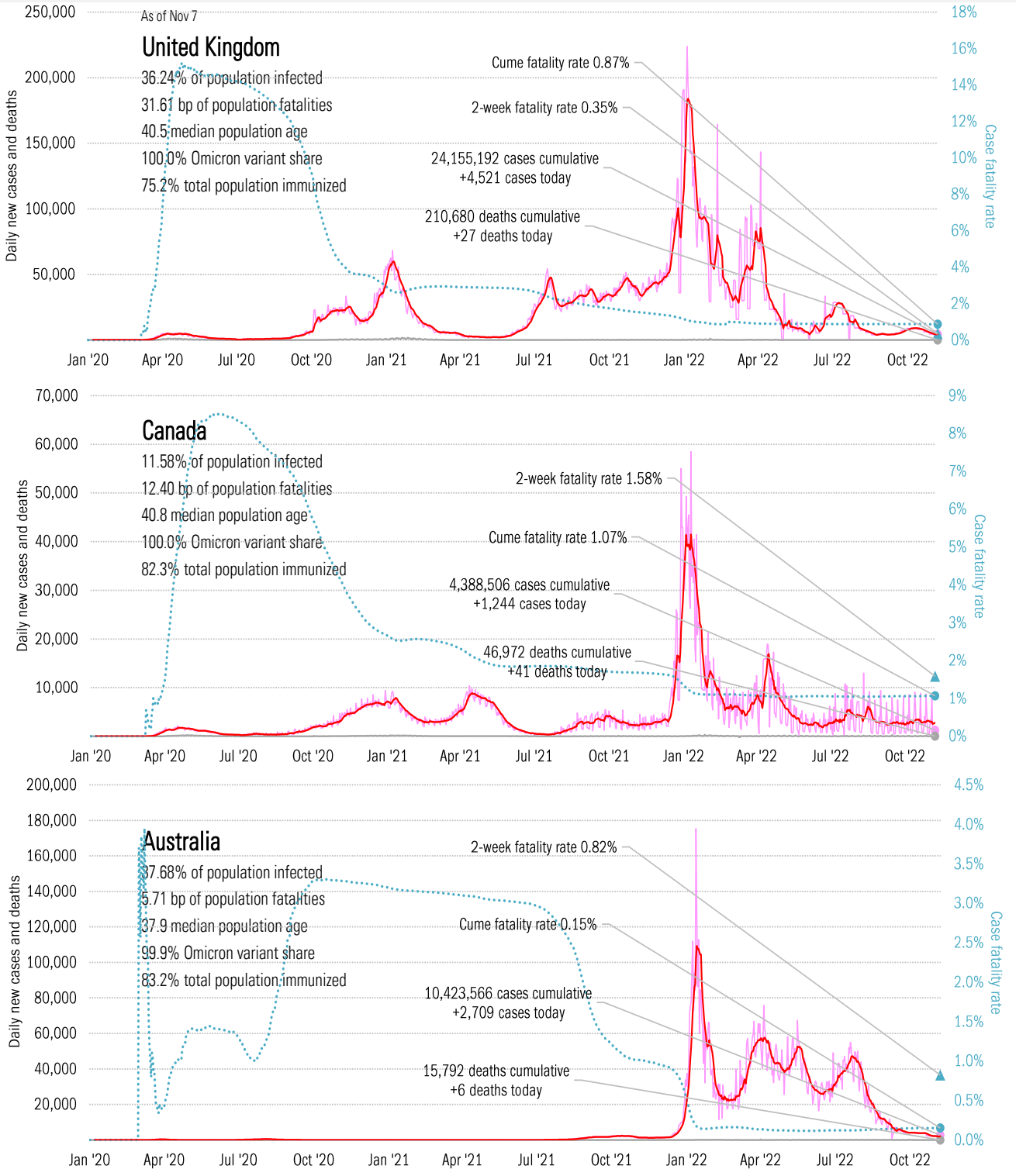
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

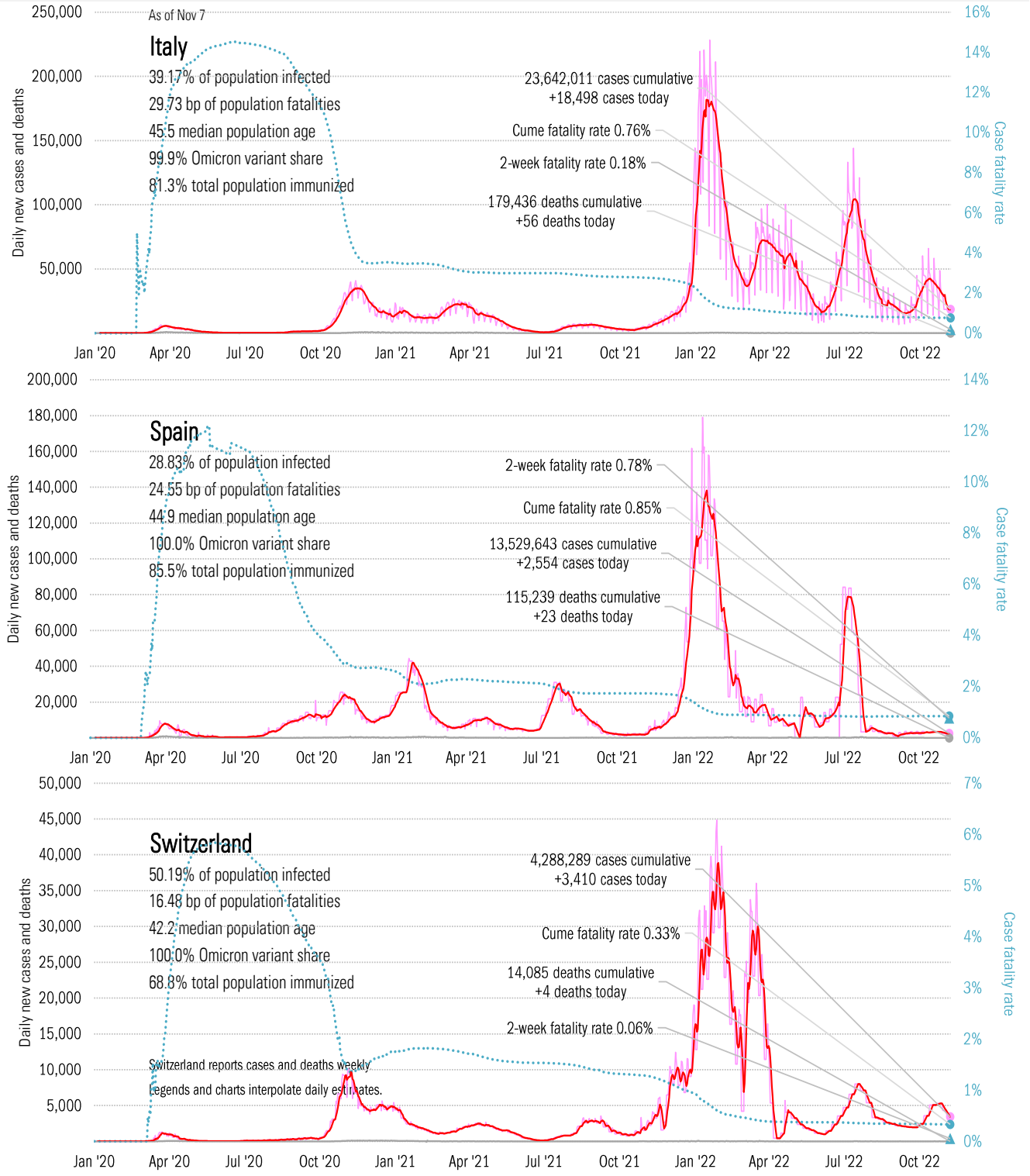
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

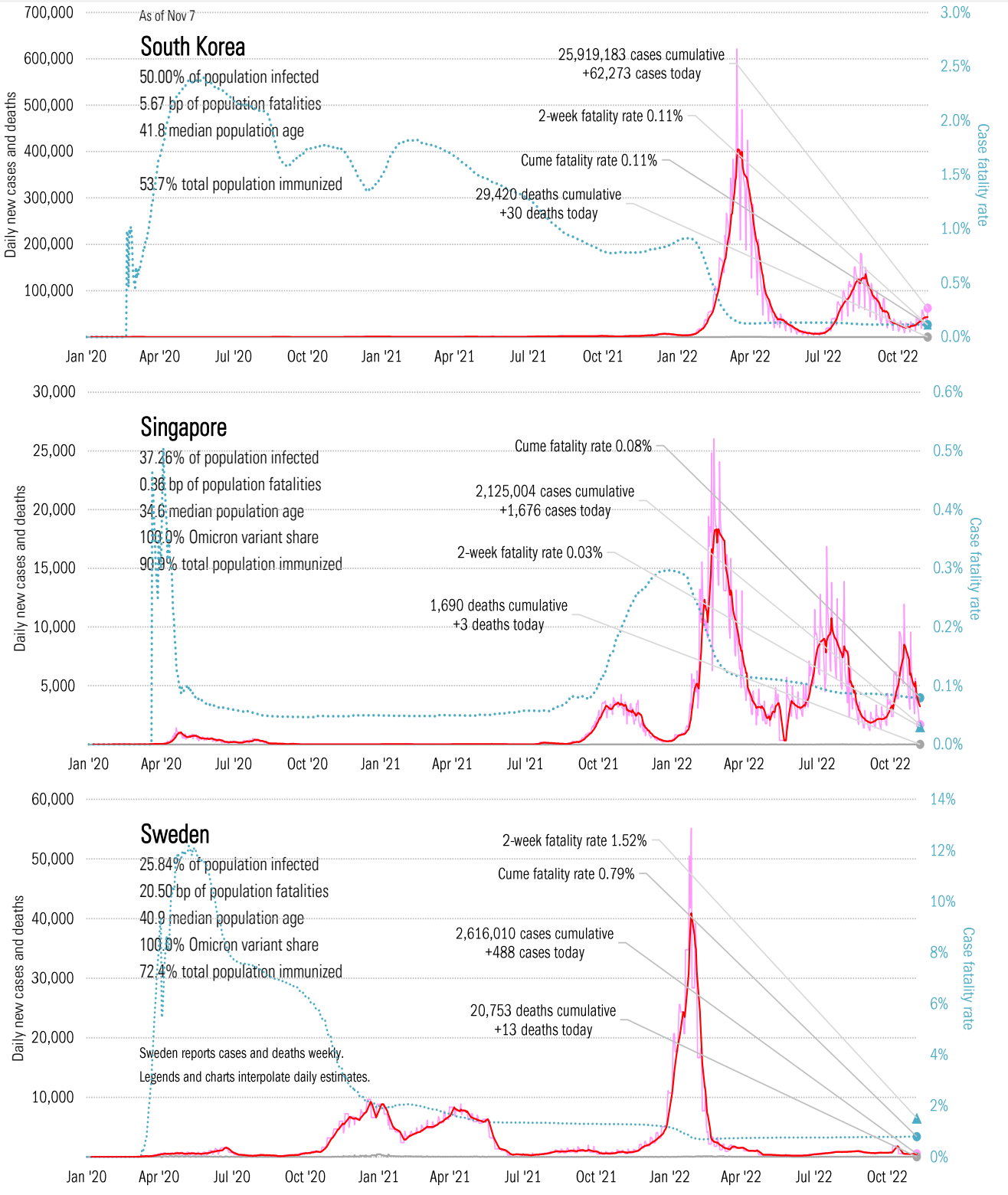
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

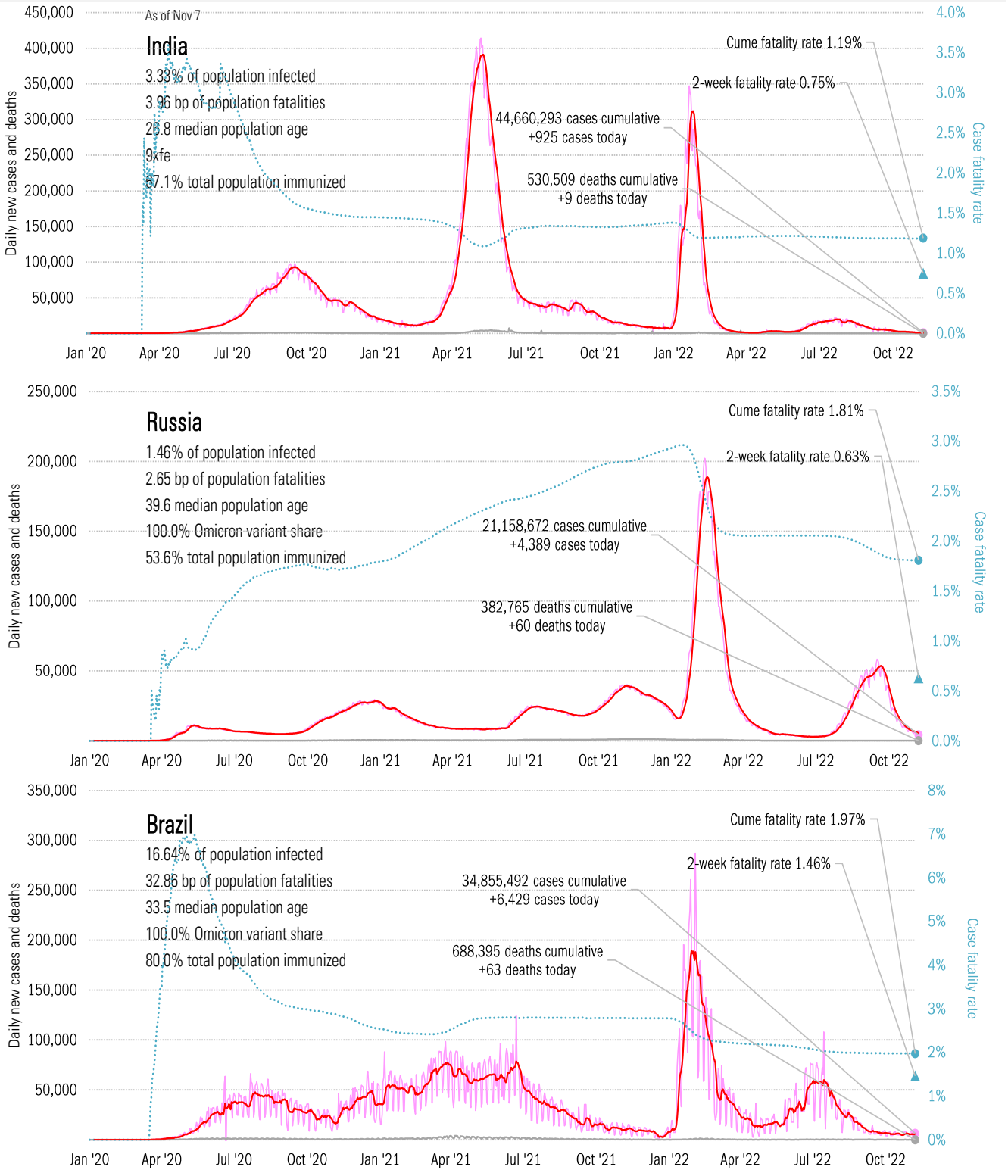
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

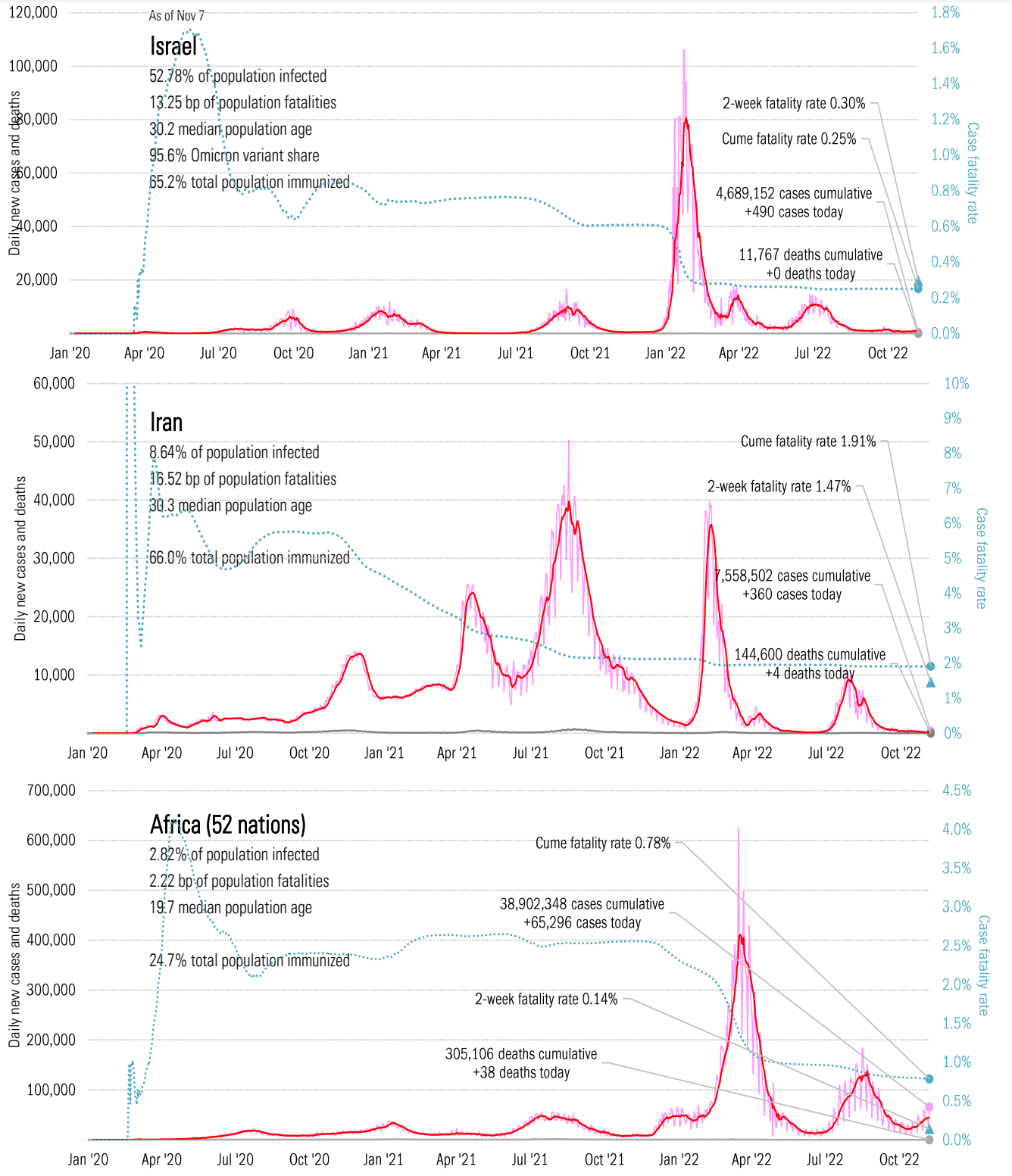
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

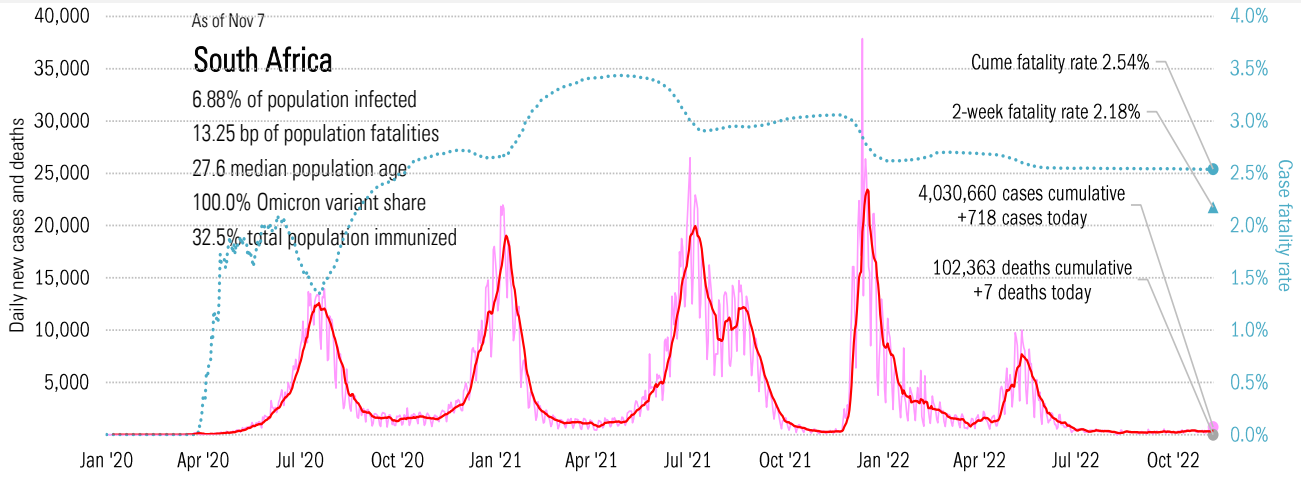
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations