Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

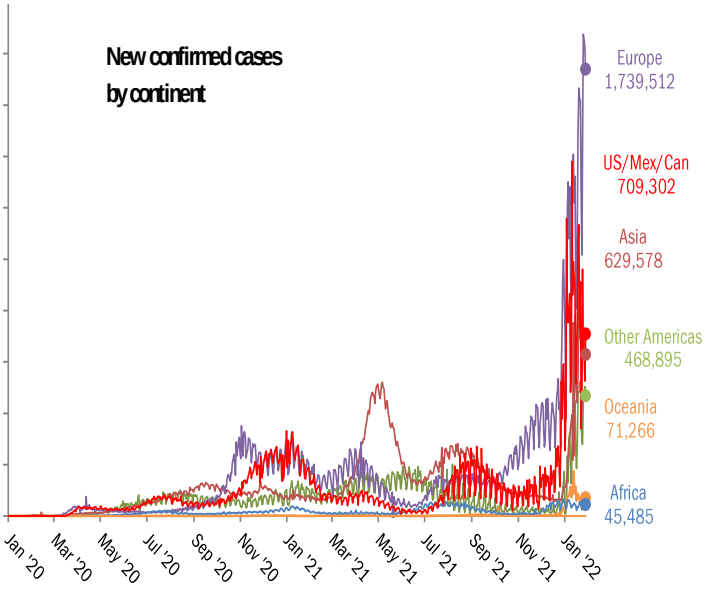
Saturday, January 29, 2022

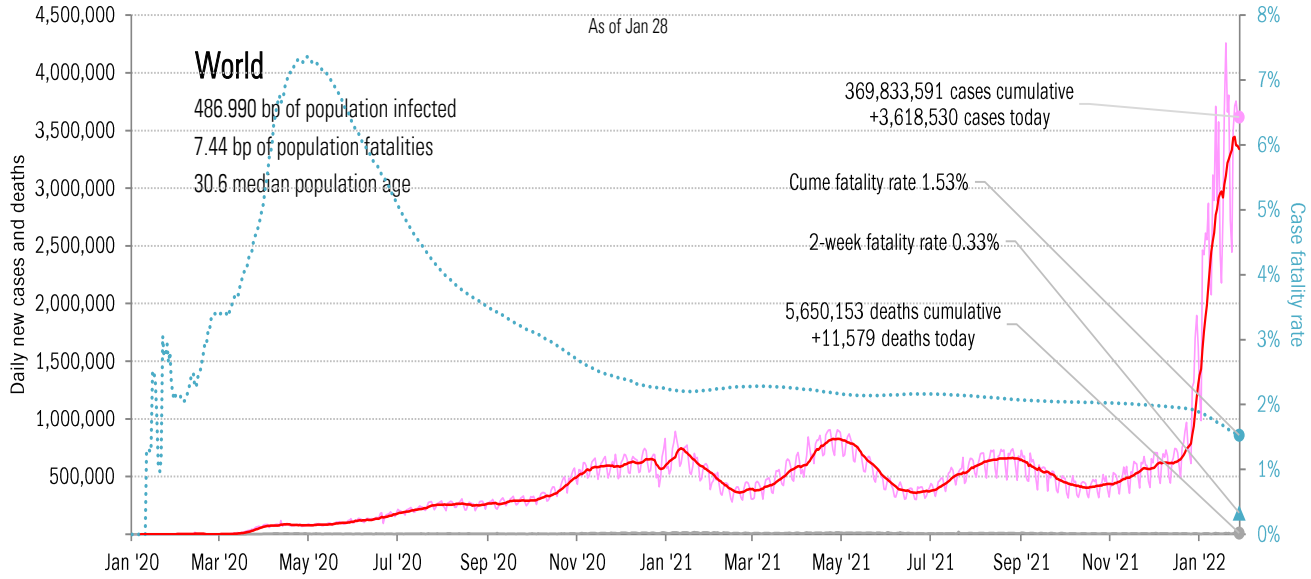
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
United States	597,349	United States	3,458
France	354,269	Mexico	932
Brazil	260,806	India	871
India	235,532	Brazil	780
Germany	184,054	Russia	661
Italy	144,347	Italy	378
Spain	118,922	Argentina	305
Russia	97,284	United Kingdom	280
Mexico	94,265	Poland	271
Turkey	93,586	Colombia	268
	2,180,414		8,204
World	3,618,530	World	11,579
Top ten	60%	Top ten	71%





Source: Johns Hopkins, TrendMacro calculations

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

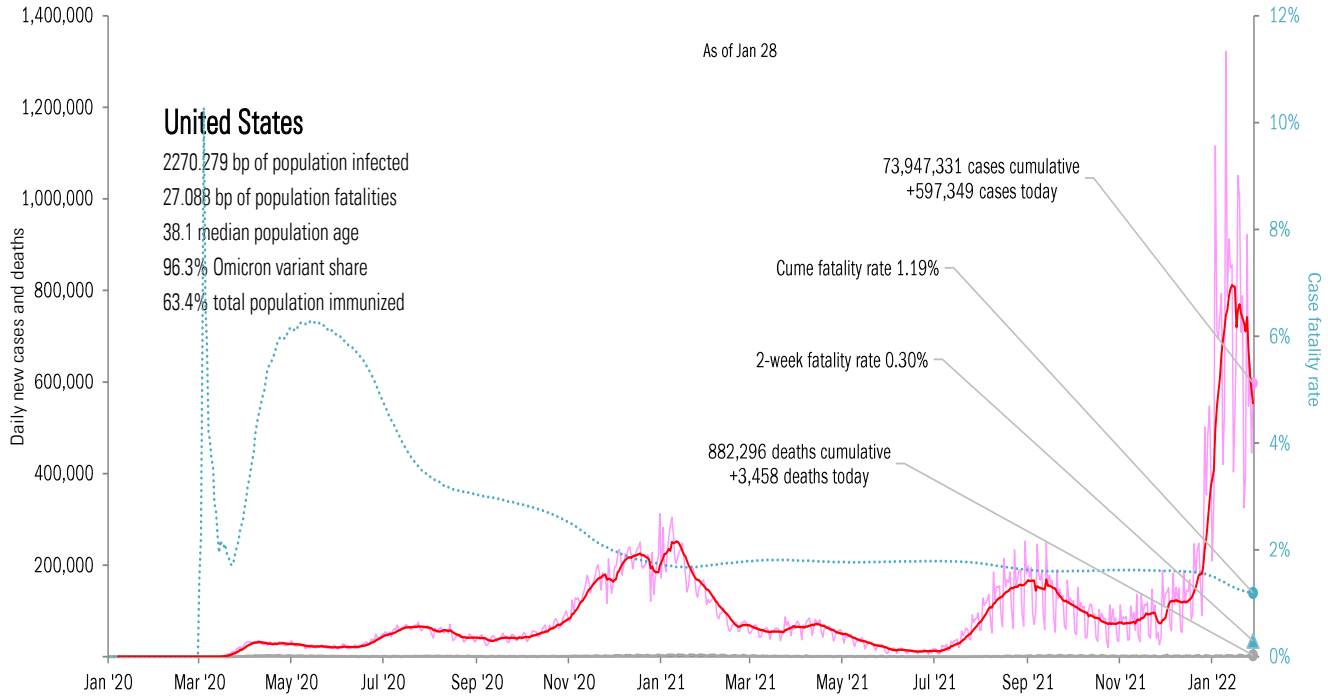
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
CA	81,556	CA	289	GA	57	CA	8,253,359	CA	79,689	TX	452,697	GA	90%	GA	98%
AL	42,408	NY	231	KY	47	TX	6,162,552	TX	79,067	CA	386,343	RI	87%	TX	95%
TX	40,734	AL	221	WV	29	FL	5,402,425	NY	64,516	FL	386,230	MD	87%	AL	95%
WA	36,579	MI	212	OR	24	NY	4,778,737	FL	64,370	NY	230,134	MA	87%	OK	93%
MI	31,534	TX	212	CO	23	IL	2,897,174	PA	40,394	GA	191,475	PA	86%	KY	93%
FL	28,410	FL	170	AR	22	PA	2,637,080	IL	33,121	OH	178,896	MN	86%	MS	90%
NC	22,631	GA	150	ND	15	OH	2,562,412	OH	33,071	PA	164,588	WV	86%	NV	89%
GA	18,785	PA	137	TN	11	NC	2,374,866	GA	32,868	IL	146,928	MO	85%	NM	89%
IN	17,067	IN	136	ID	10	GA	2,346,518	MI	32,197	MI	131,548	WA	84%	NH	88%
SC	16,732	KS	128	MT	10	MI	2,235,180	NJ	31,320	KY	130,616	NH	84%	IN	88%
	336,436		1,886		248		39,650,303		490,613		2,399,455				
All states	597,349		3,458		-2,529	All states	73,947,331		882,296		4,335,436	All states	70%		67%
Top ten	56%		55%		-10%	Top ten	54%		56%		55%	Median	79%		82%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NC	-6,122	PA	-188	CA	-503	CA	+30 bp
OK	-4,773	IL	-29	TX	-126	MP	+20 bp
IA	-3,507	MN	-24	VA	-114	TX	+20 bp
CO	-3,302	TX	-19	AZ	-89	AK	+10 bp
GA	-2,923	MA	-17	WA	-88	AR	+10 bp



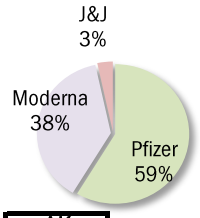
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative				Today
Doses	550,827,806				+0.881 million
Boosters	88,132,587				+0.476 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	256,966,887	77%	217,399,888	65%	+0.185 million
Age 12 to 17	16,900,794	67%	14,271,128	56%	+0.019 million
Age 18 to 64	173,484,127	85%	146,983,148	72%	+0.083 million
Age 65 and over	57,877,134	100%	50,080,509	91%	+0.011 million

Immunity	Full	Partial
US	63.4%	75.1%
UK	70.8%	76.7%
France	76.1%	79.7%
Spain	81.9%	87.5%
Germany	73.1%	75.0%
Italy	76.1%	83.0%
Australia	78.3%	83.8%
Israel	65.5%	72.0%
Canada	78.8%	84.9%
Japan	79.1%	80.4%
Africa	10.7%	15.9%
India	50.1%	67.3%
Brazil	70.0%	79.3%
China	84.8%	87.6%

Global data differs due to sources, timing



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

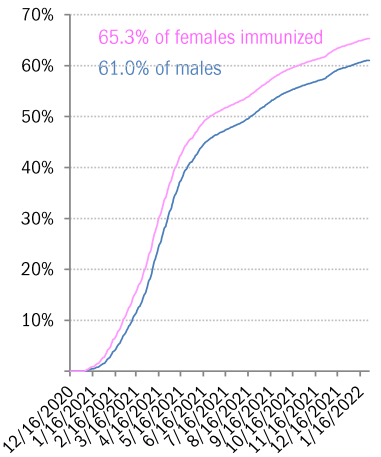
"Immunity" = two doses

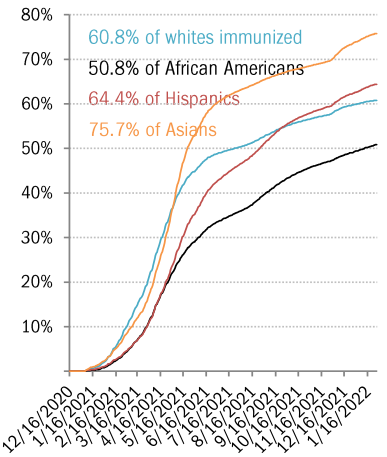
Best
Middle
Worst

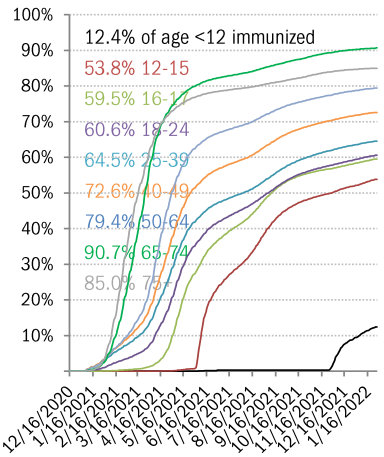
As of Feb 2

					WI					ME
					70.2%					88.5%
					63.4%					77.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
78.5%	59.5%	63.7%	63.9%	73.4%	75.0%	65.1%		87.4%	92.0%	95.0%
69.9%	52.1%	55.2%	53.9%	66.9%	65.9%	58.1%		74.0%	79.3%	68.7%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
76.0%	72.8%	57.2%	73.7%	66.6%	59.8%	62.3%	81.9%	87.2%	94.7%	
67.7%	58.3%	49.8%	58.8%	60.3%	53.1%	56.7%	65.6%	72.5%	76.3%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
80.1%	69.6%	77.3%	68.6%	64.5%	64.5%	63.5%	83.0%	83.5%	92.4%	94.4%
68.9%	60.6%	68.1%	61.5%	54.3%	55.6%	56.1%	70.5%	72.5%	76.4%	78.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	69.9%	84.3%	72.3%	64.9%	60.6%	80.7%	65.6%	93.0%	80.2%	
	58.7%	68.2%	58.9%	52.6%	52.7%	58.3%	54.8%	69.9%	66.1%	
			OK	LA	MS	AL	GA			
			69.1%	59.4%	58.0%	61.1%	63.6%			
			55.0%	51.7%	50.0%	49.4%	52.8%			
HI			TX					FL		PR
84.7%			69.6%					77.1%		92.8%
75.7%			58.7%					65.0%		79.2%

The demographics of US vaccination



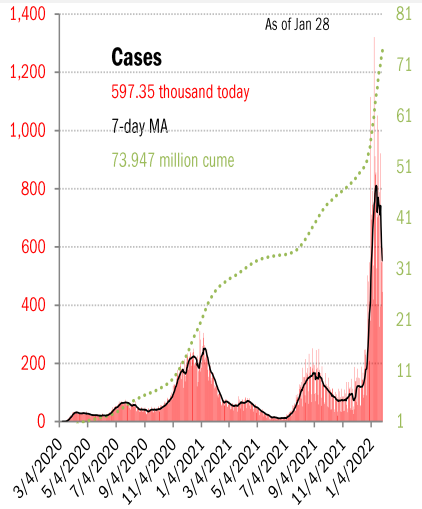


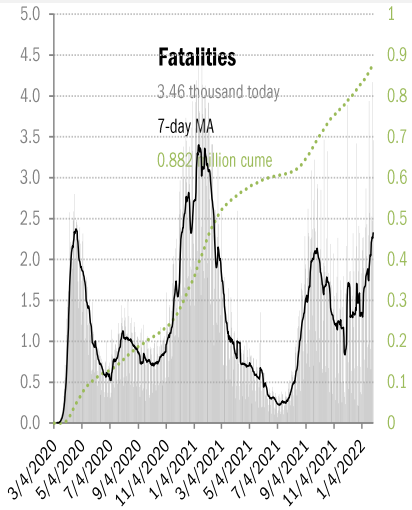


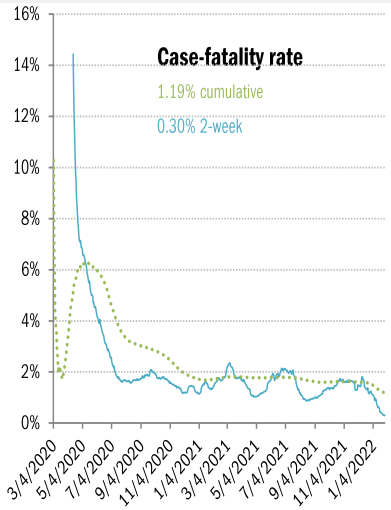
Source: CDC, CDC, Our World in Data, TrendMacro calculations

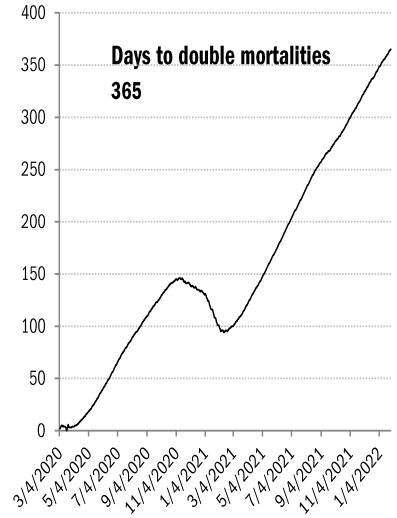
US deep-dive

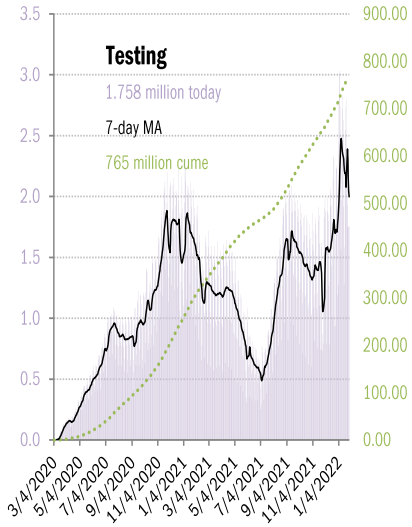
National and state-by-state data do not line up because of different sources

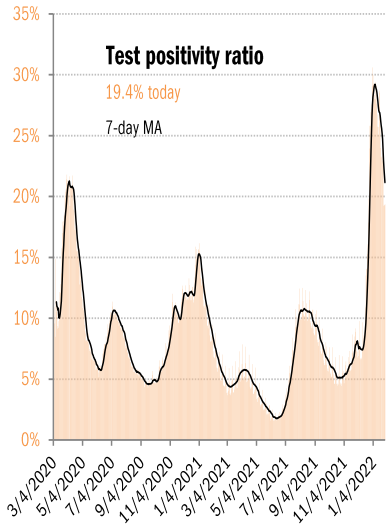


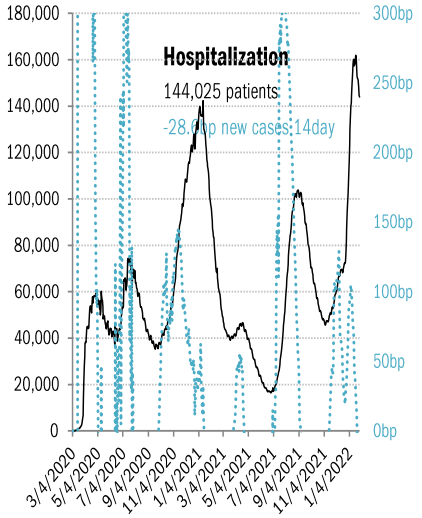


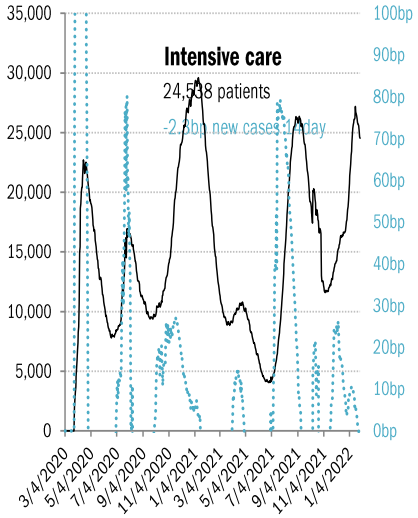


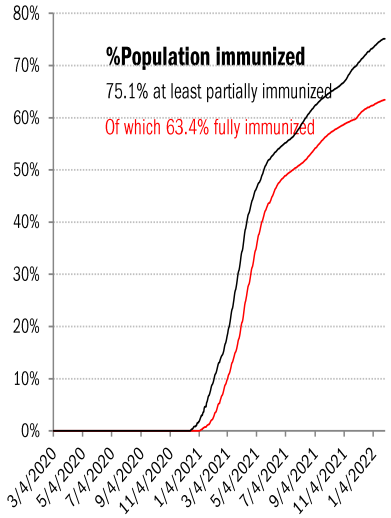












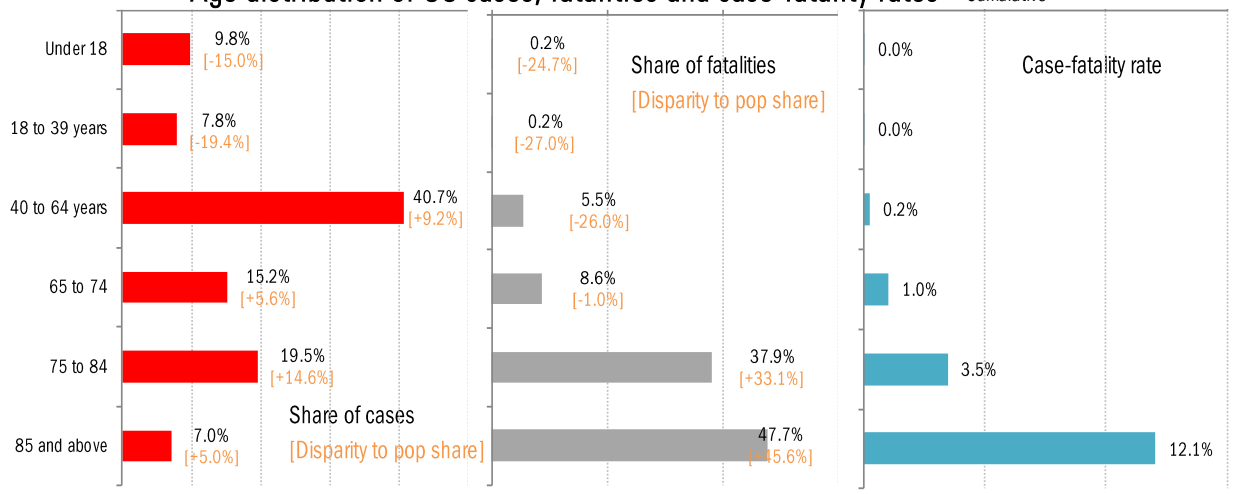
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive on the demographics of age, race and health

Updates weekly on Sundays

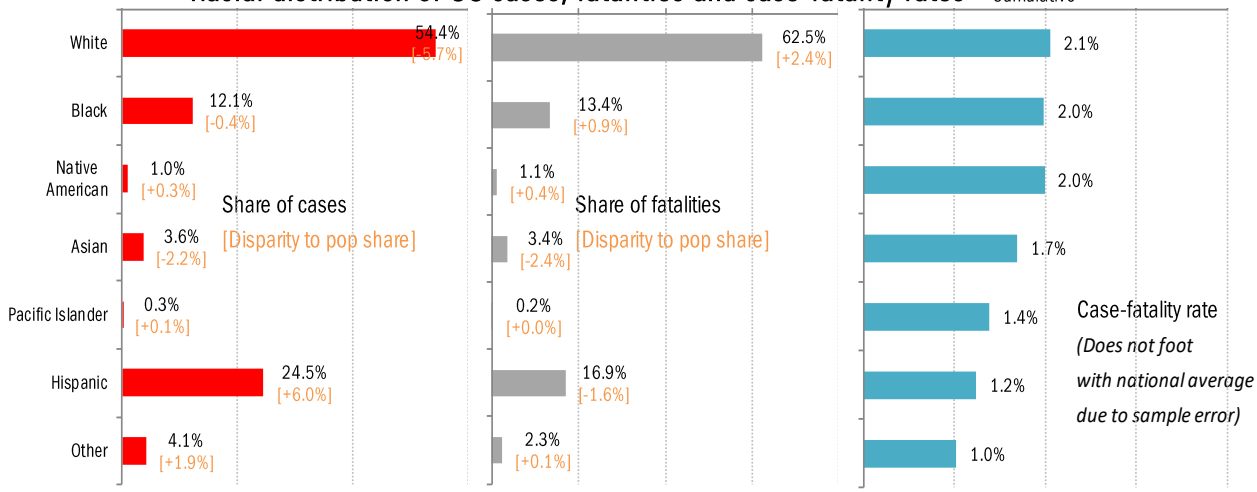
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



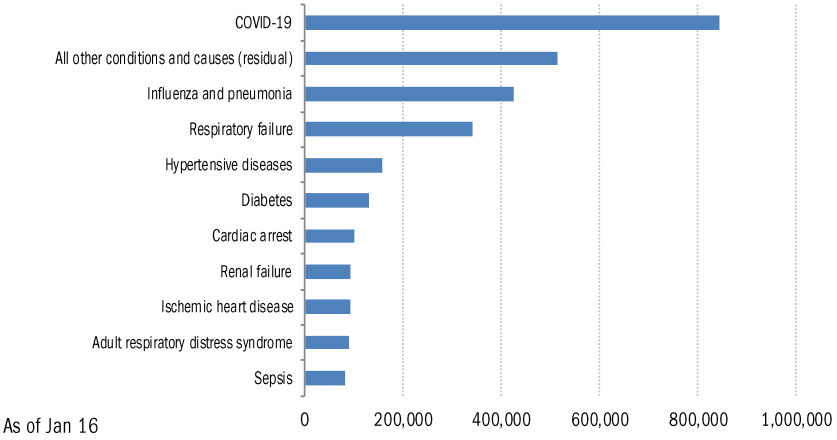
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jan 16

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

Vaccines are a tool, not a silver bullet. If we'd allowed more scientific debate, we would have realized this earlier
Norman Dodge
Globe and Mail
January 22, 2022

New York's Recovery Took 2 Steps Forward. Omicron Sent It One Step Back.
Nicole Hong, Matthew Haag and Patrick McGeehan
New York Times
January 28, 2022

Omicron Sub-Variant Now in Idaho Amid Hospital Rationing
Vincent Del Giudice
Bloomberg
January 28, 2022

Sweden decides against recommending COVID vaccines for kids aged 5-11
Reuters
January 28, 2022

Fairfax Schools Suspend Kids, Call Police As System Defies Virginia Governor On Masks
Luke Rosiak
Daily Wire
January 25, 2022

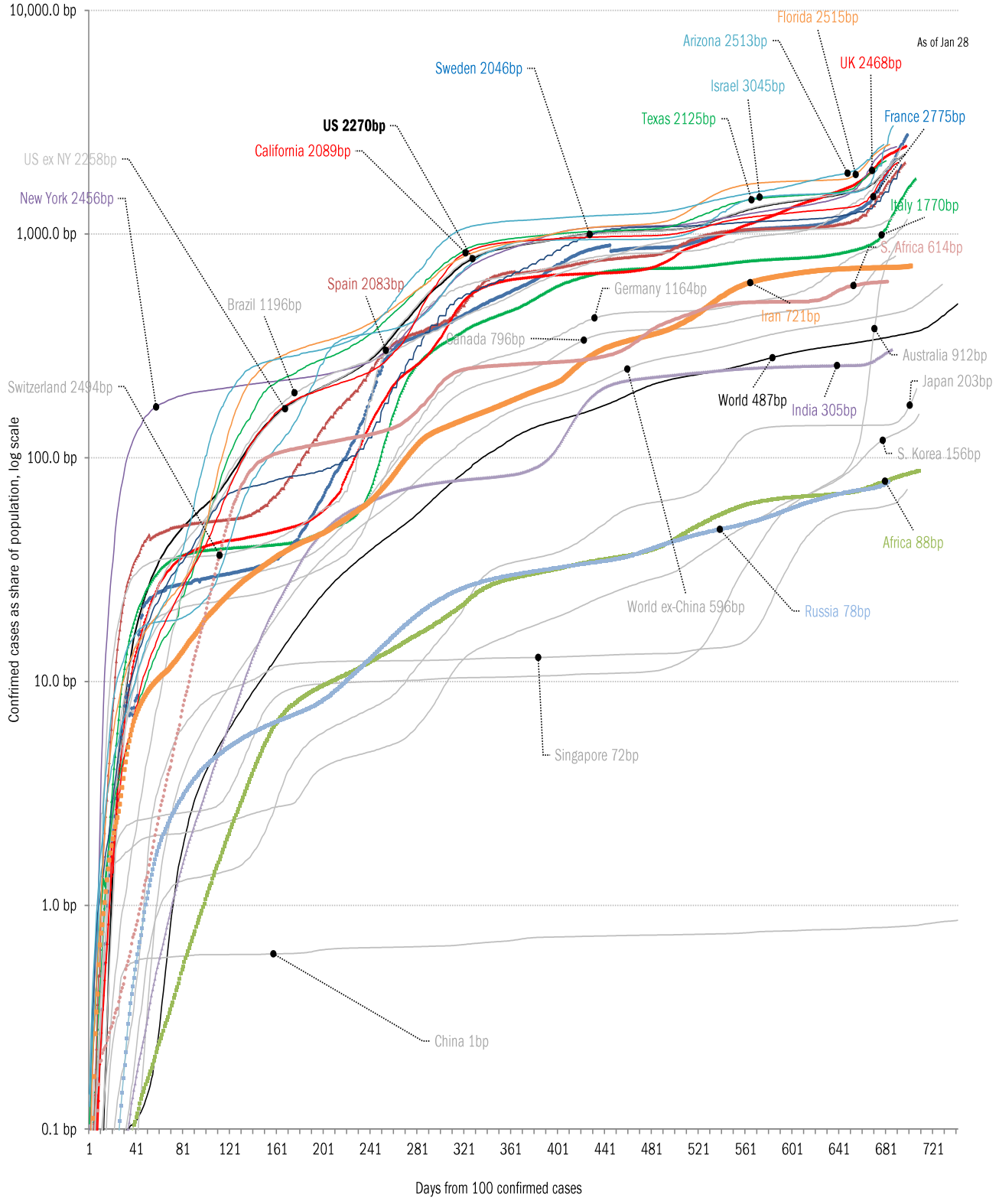
When Will The U.S. Stop Requiring A Negative Covid Test To Enter The Country?
Gary Leff
View from the Wing
January 27, 2022

Meme of the day

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

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

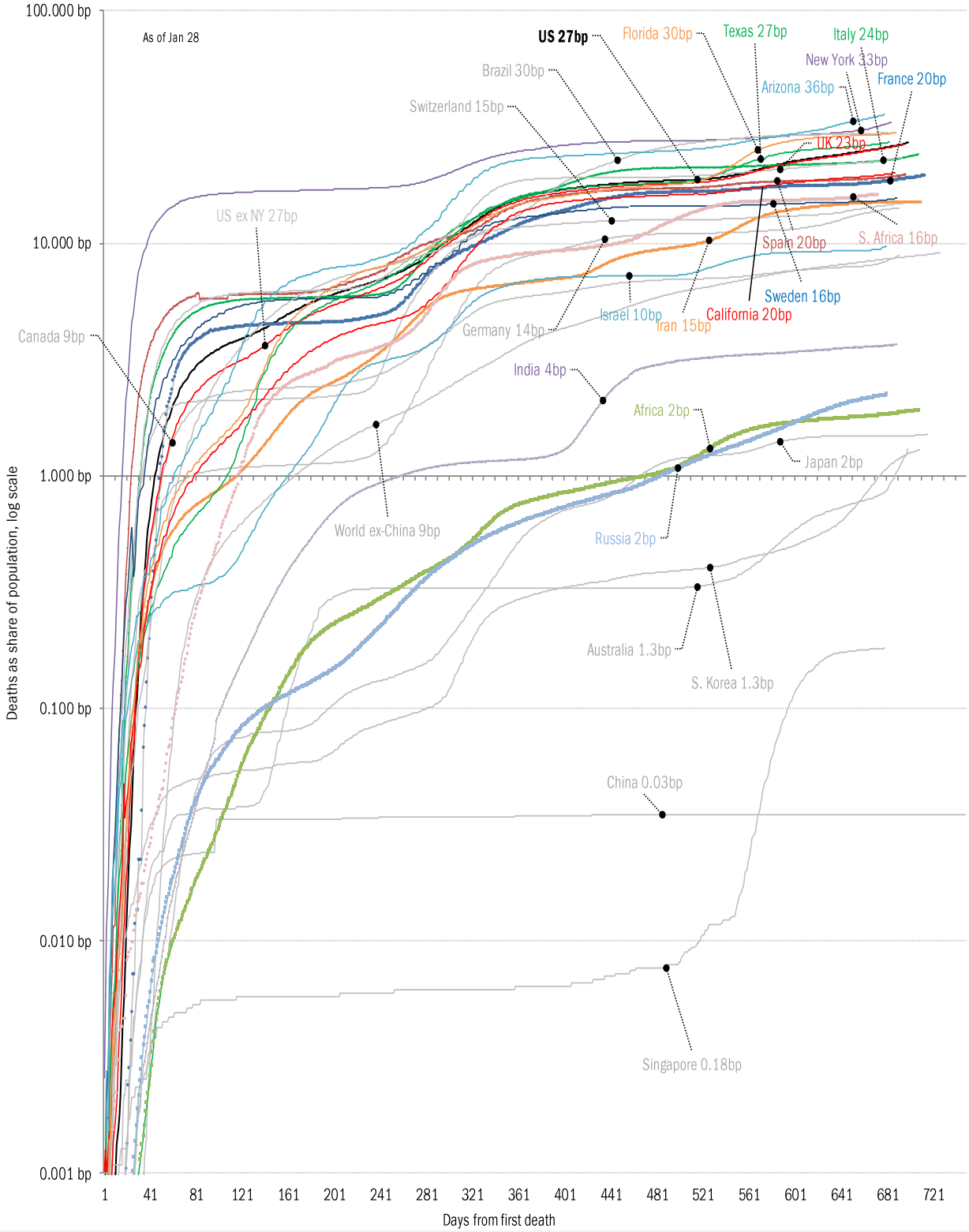
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality, log scale

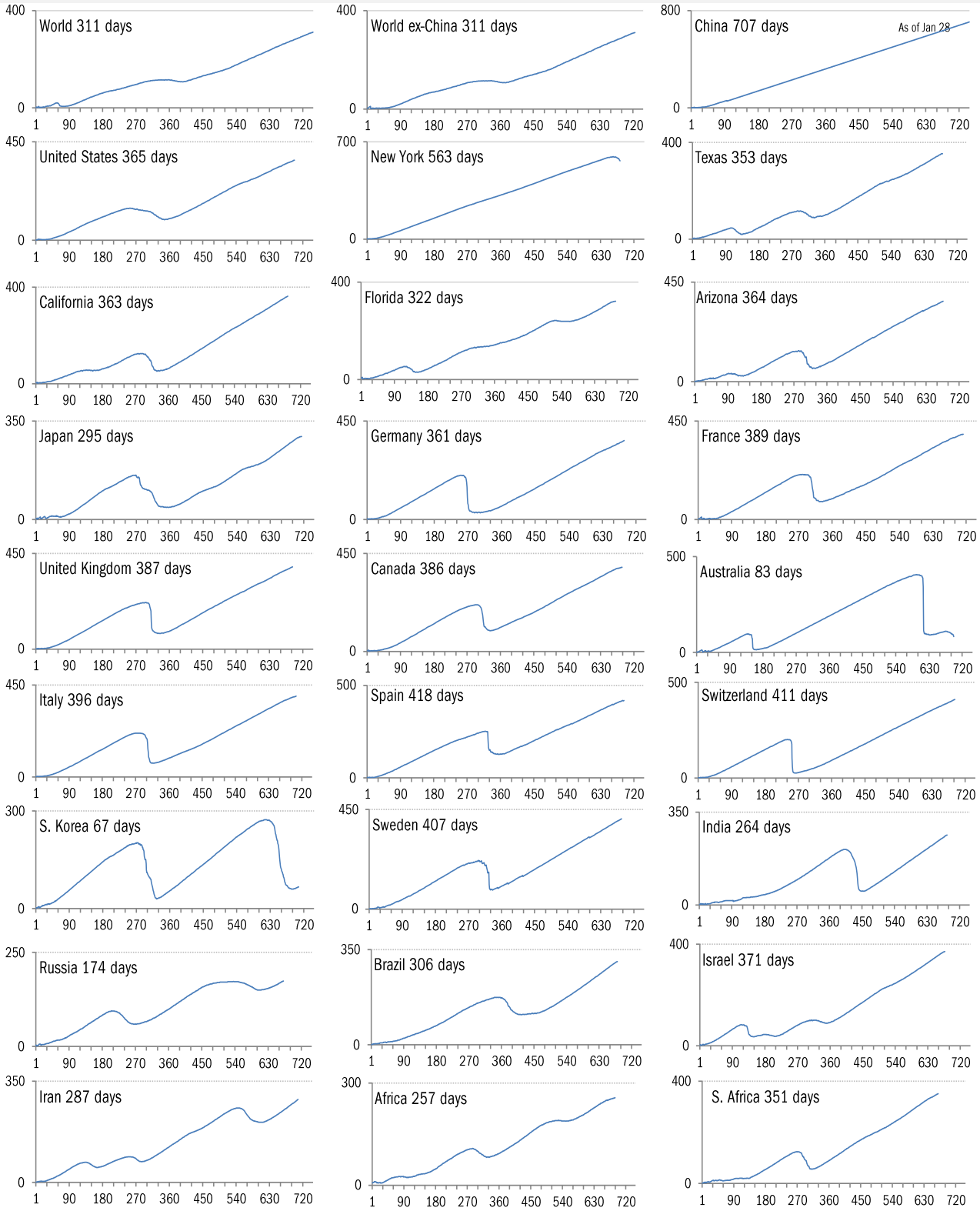


Source: Johns Hopkins, TrendMacro calculations

“Exponential”? Our most reliable evidence of the rate of spread of Covid-2019

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

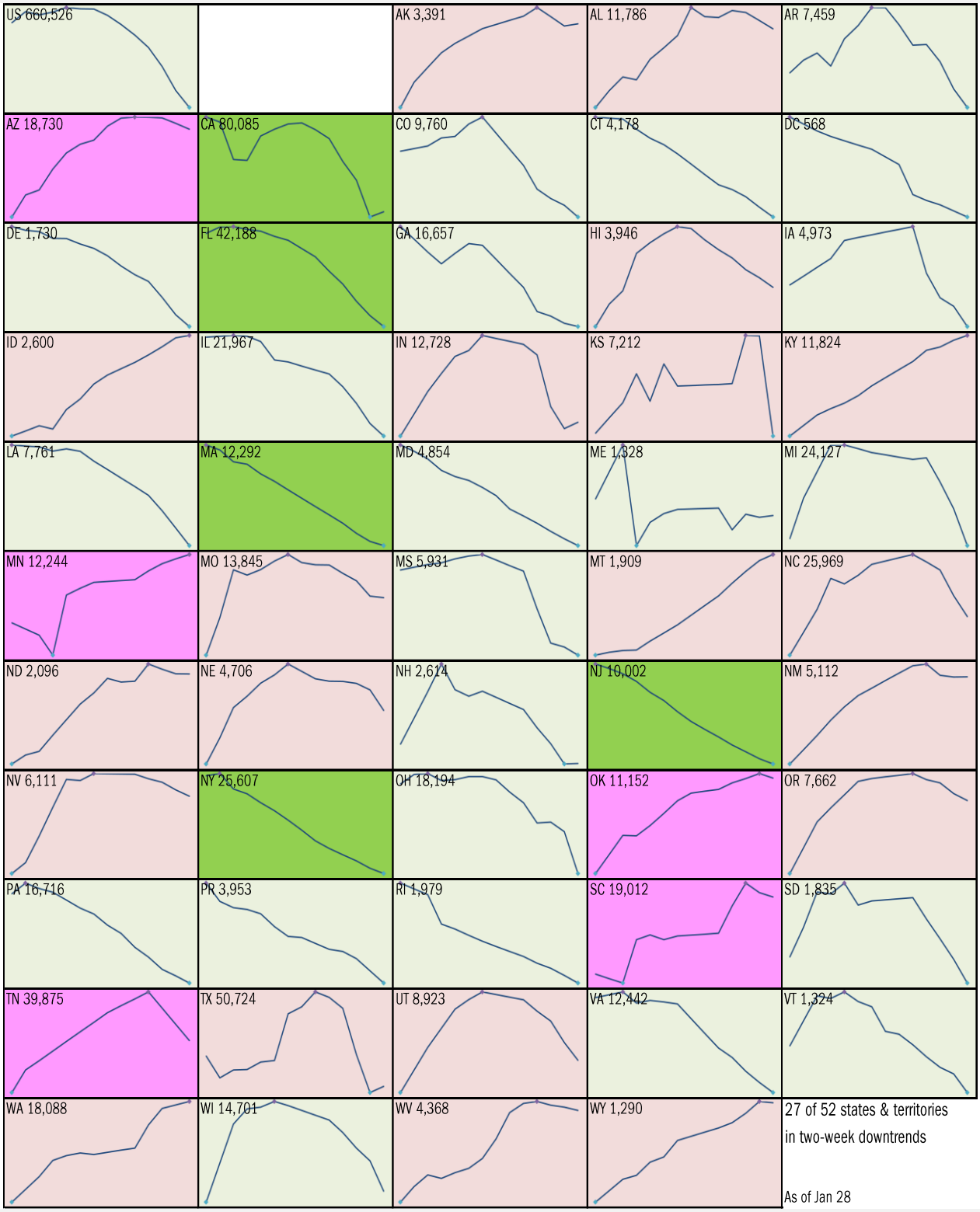


Source: Johns Hopkins, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward 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

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

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

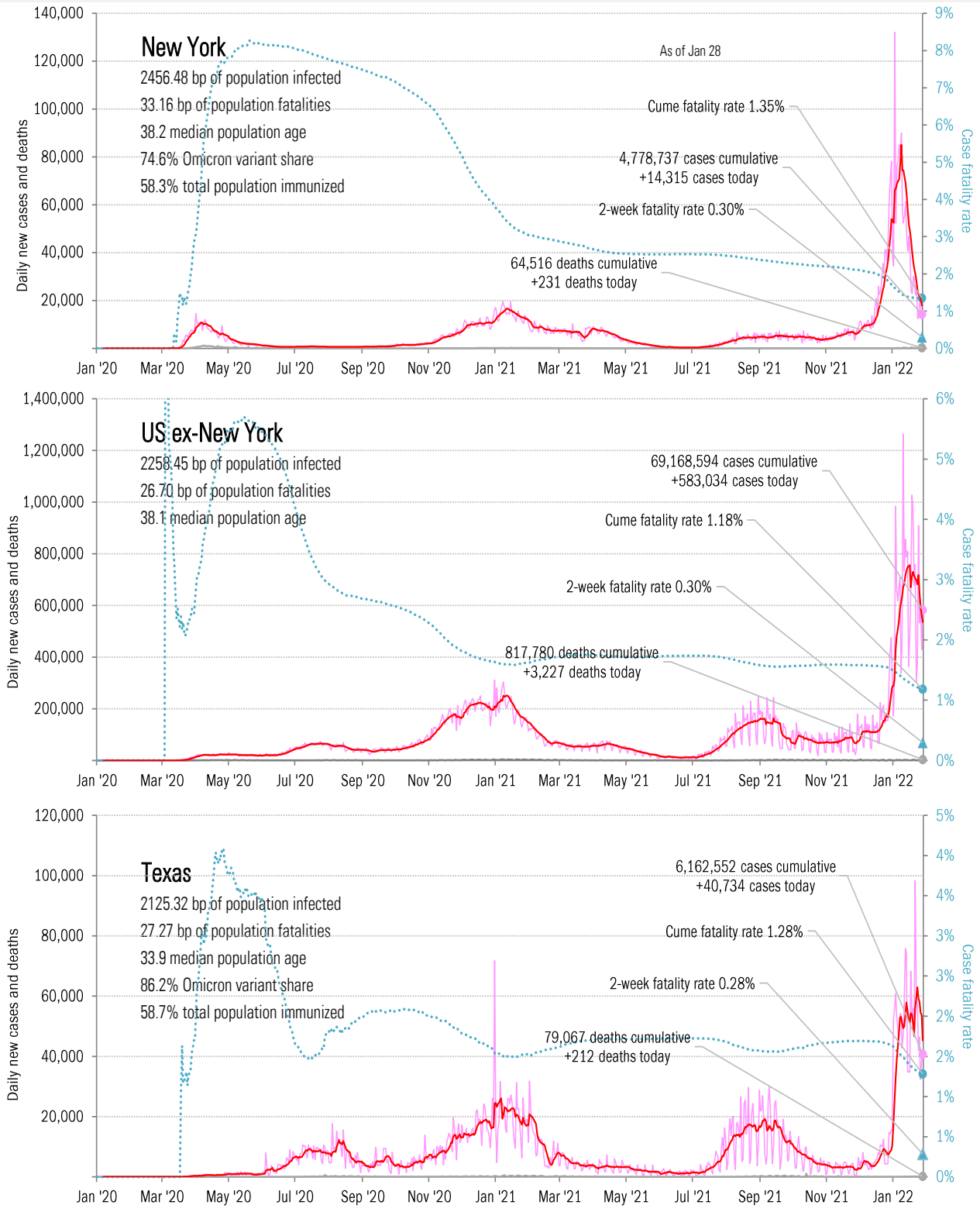
Downward trajectory Five best Upward trajectory Five worst

Test data for WA is temporarily unavailable.

Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

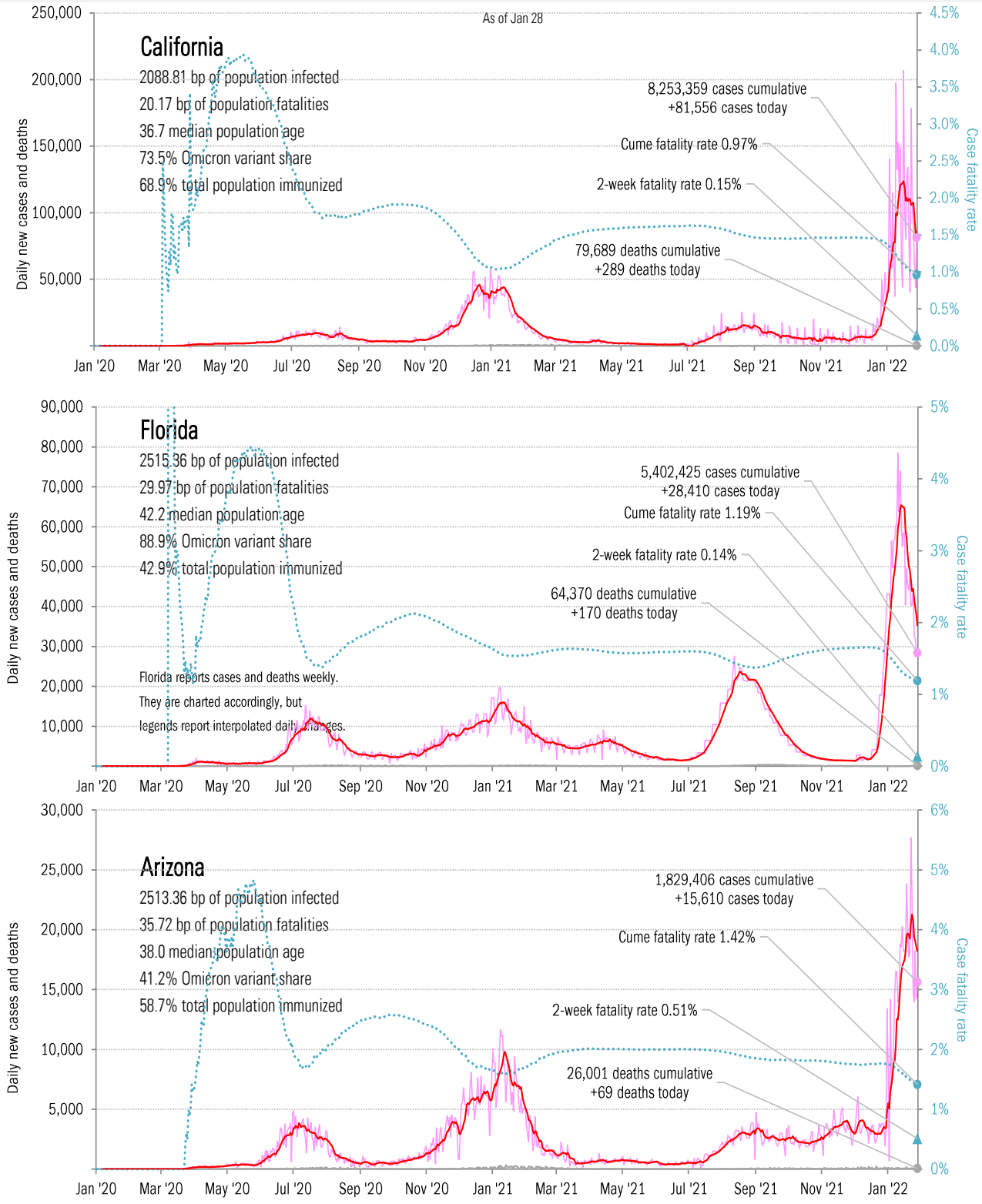
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states (other than Texas)

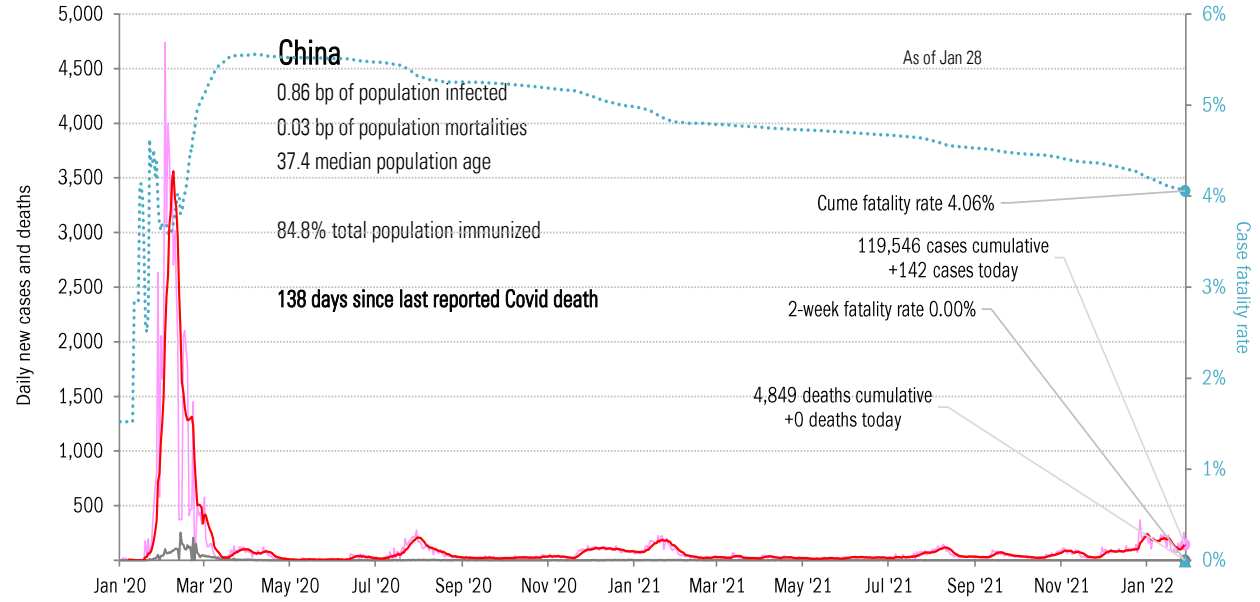
Cases: 7-day average and daily Deaths: Daily

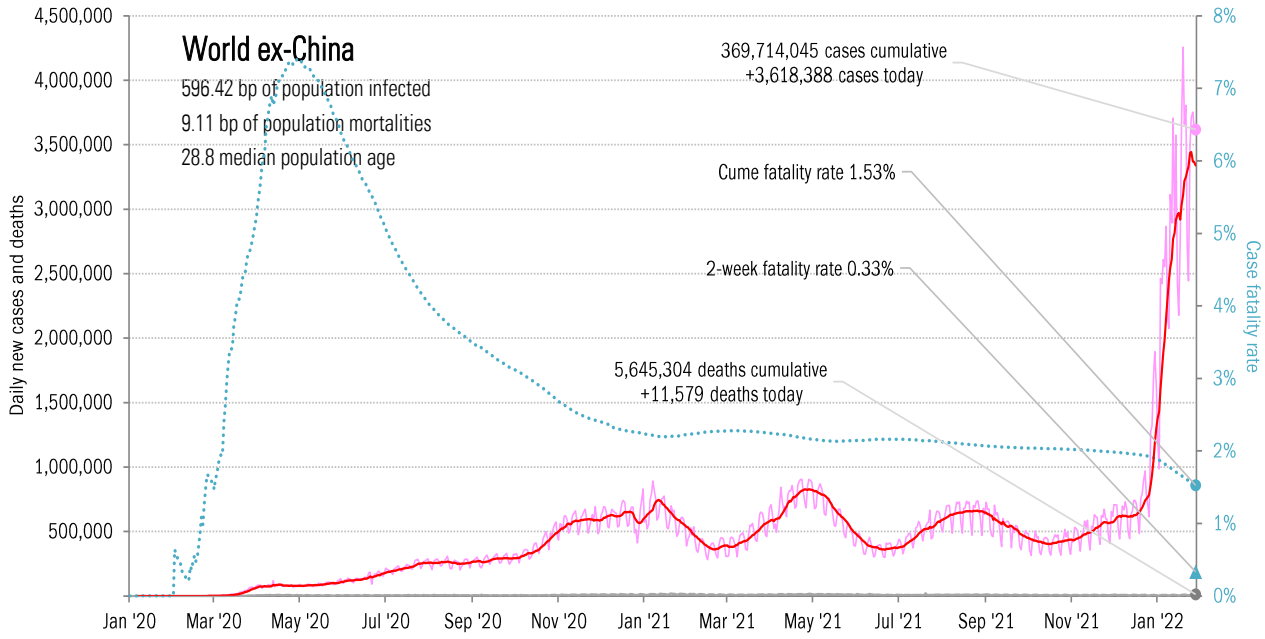


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

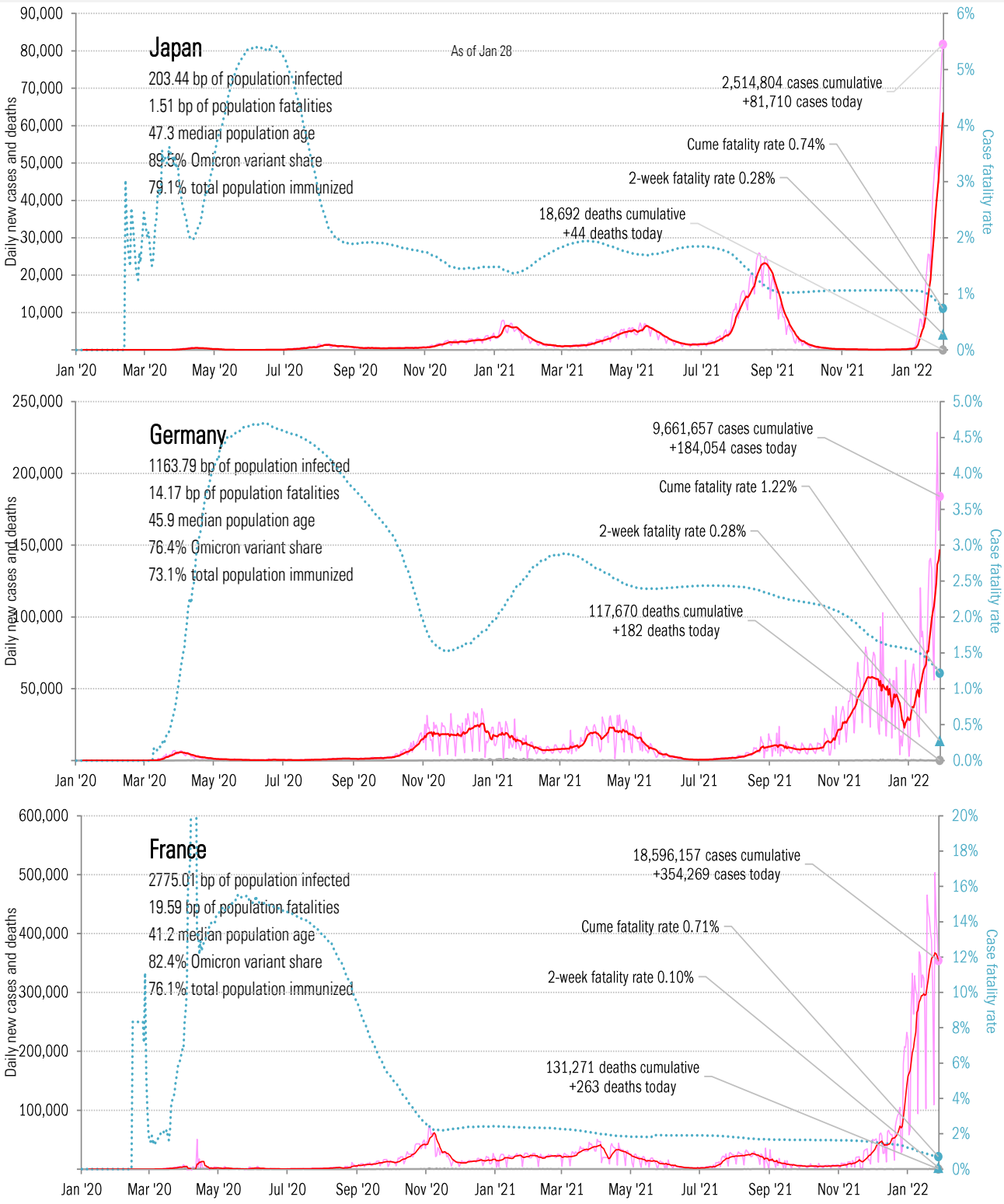




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

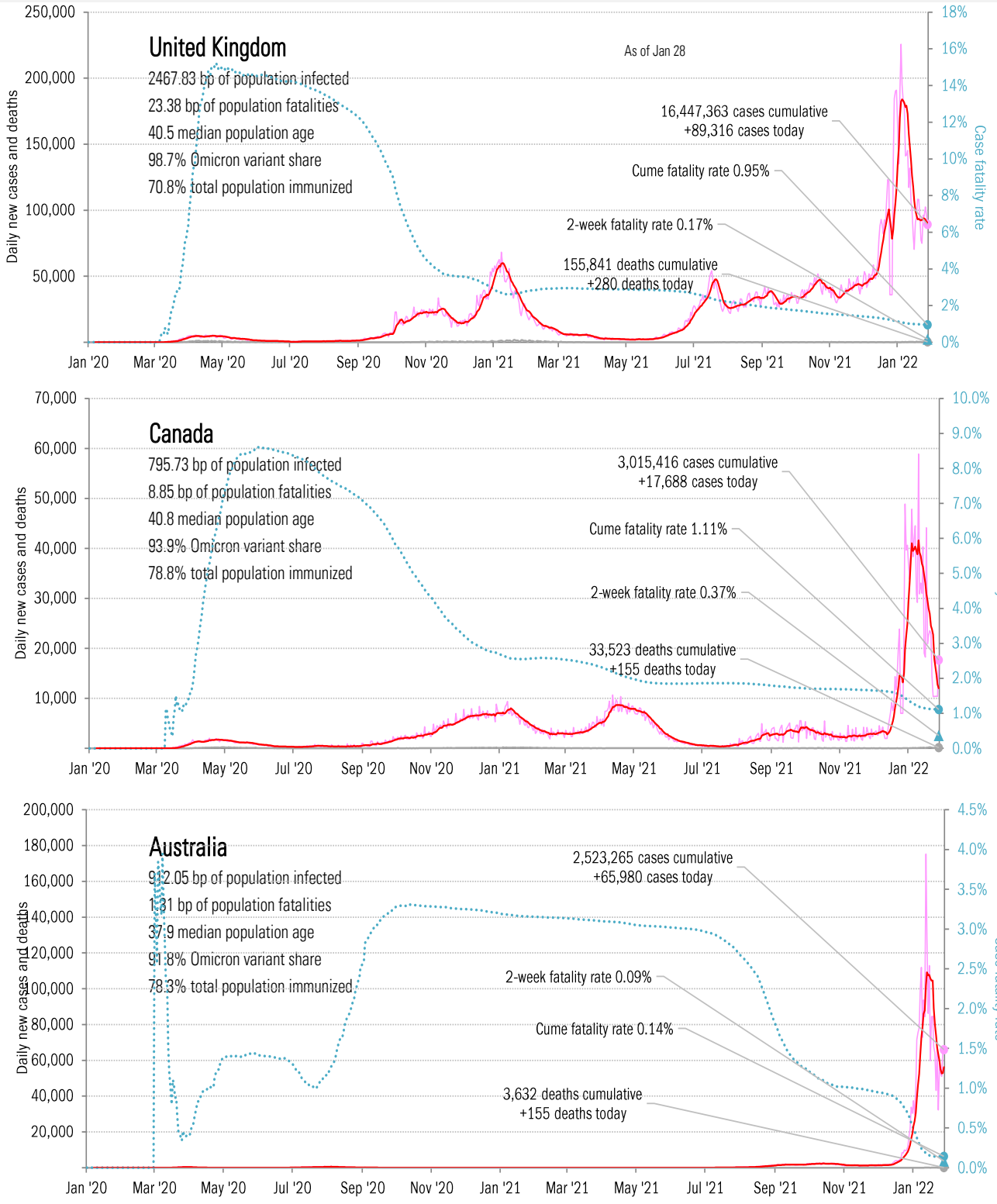
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

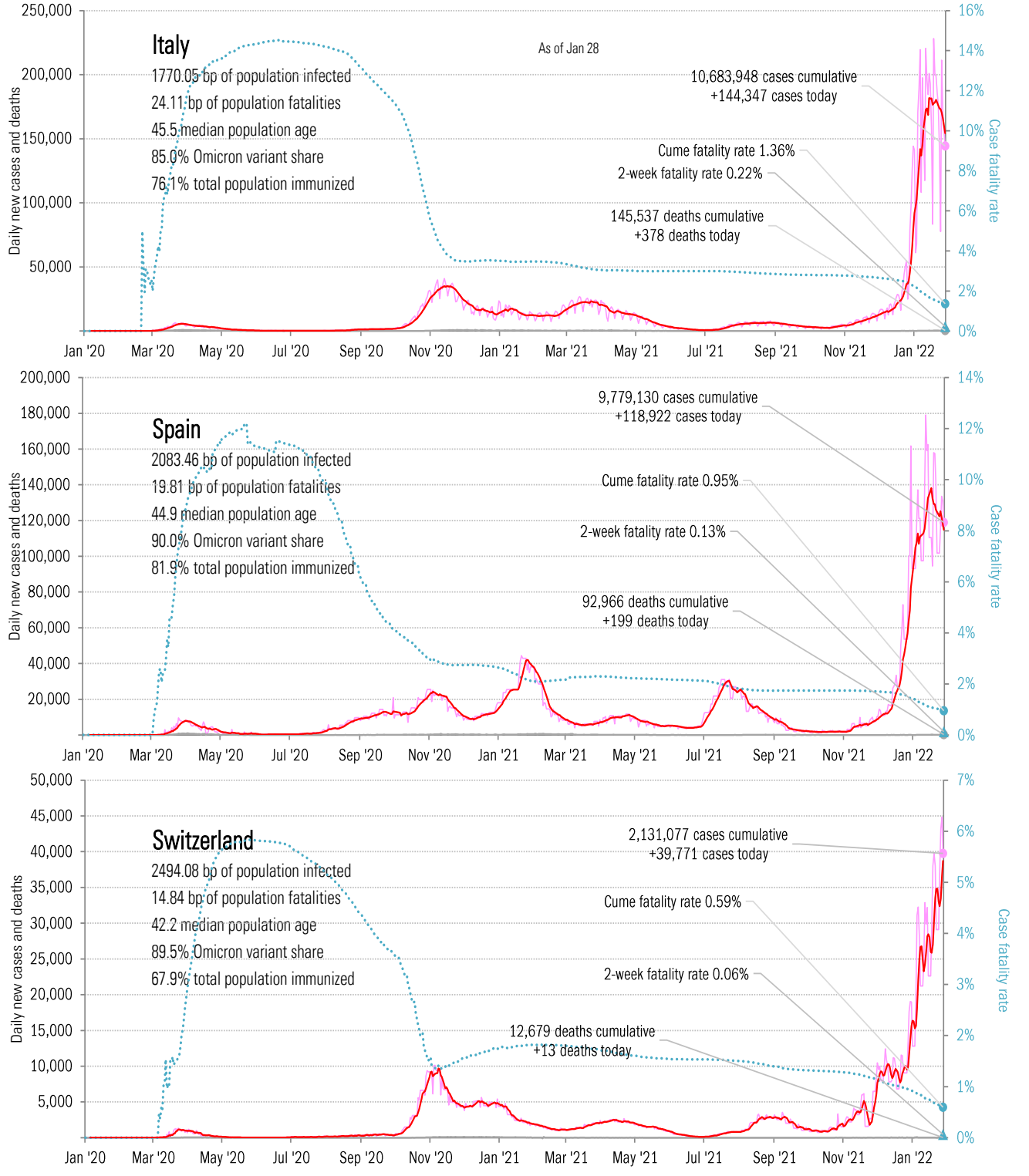
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

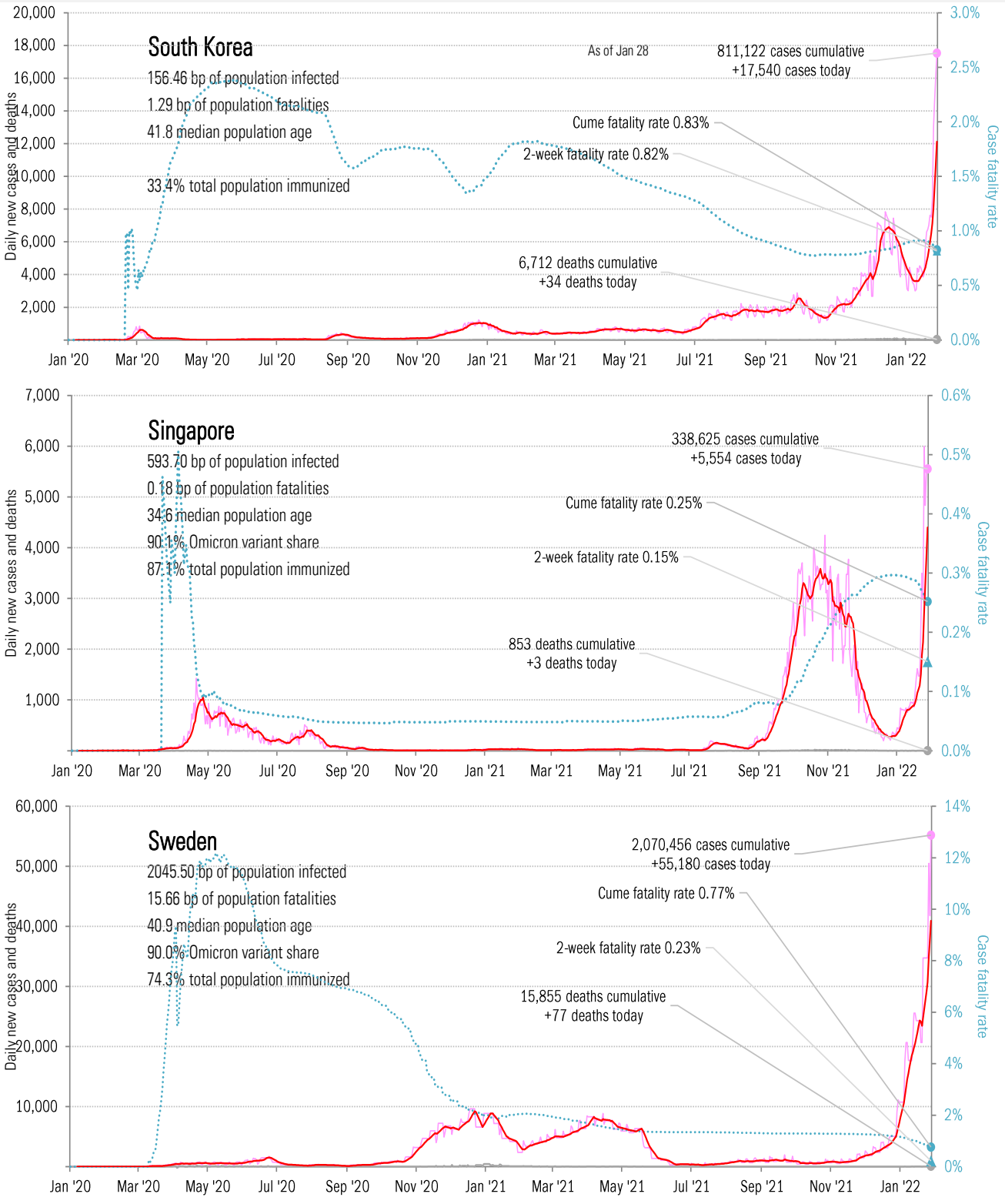
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

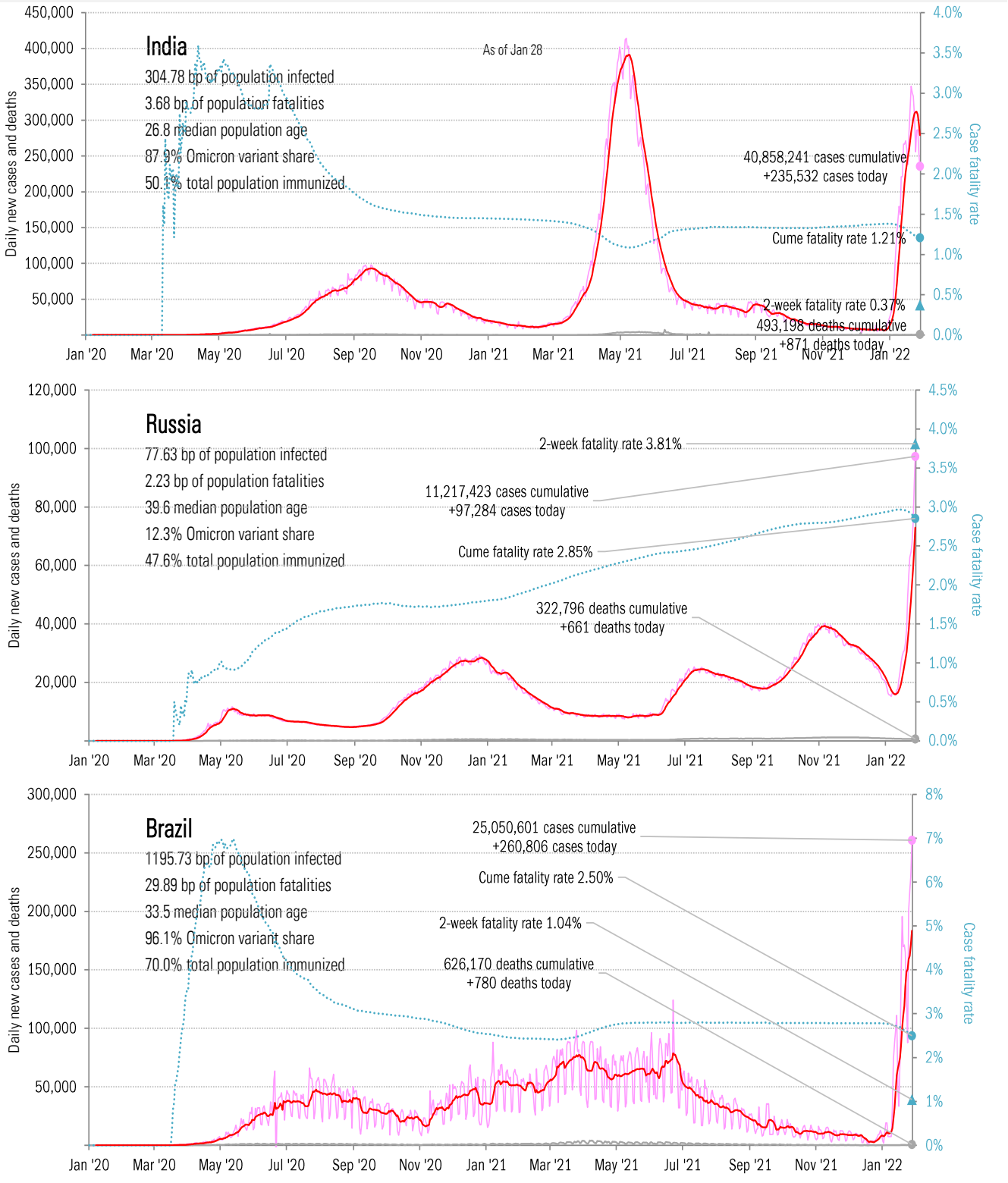
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

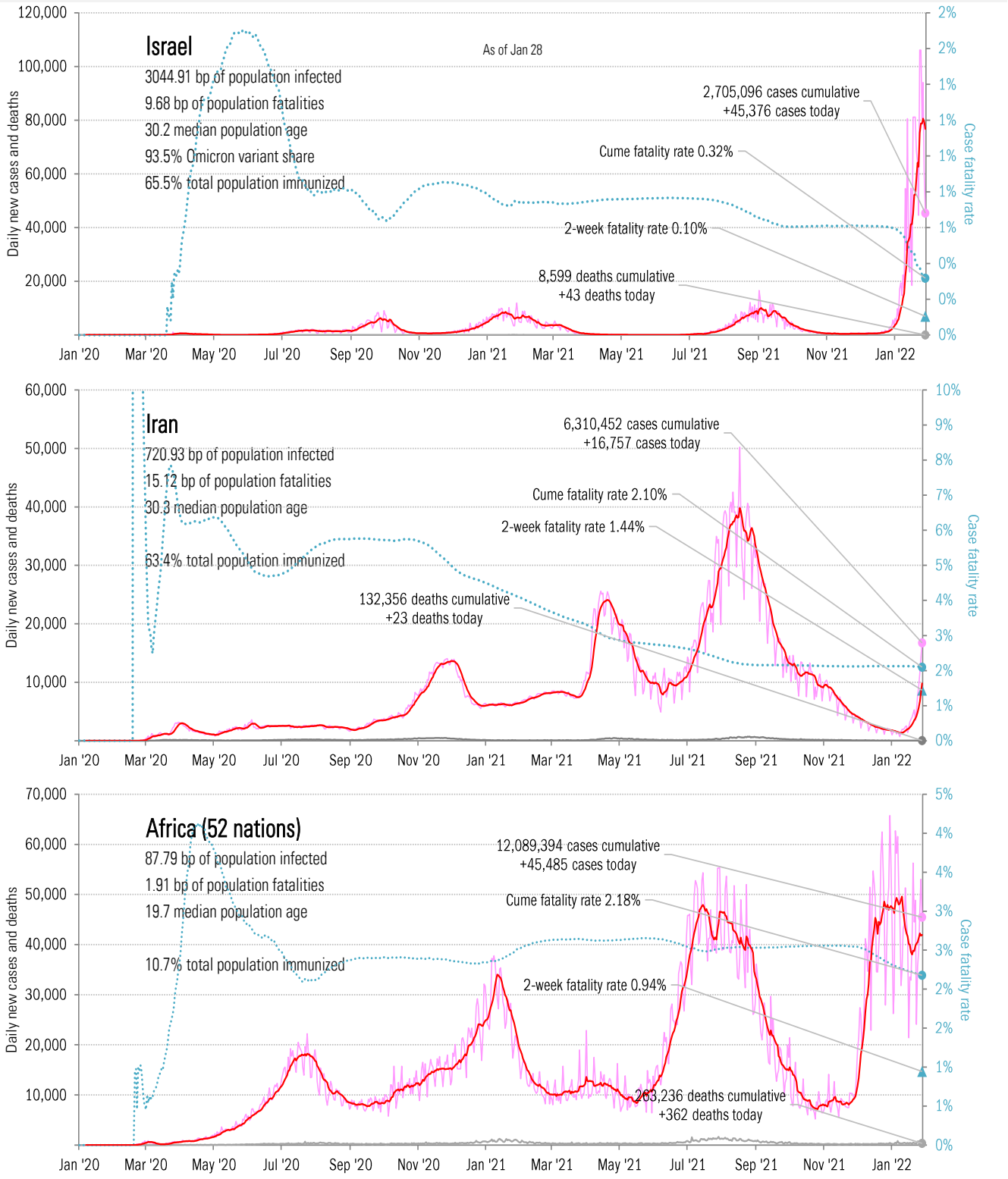
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

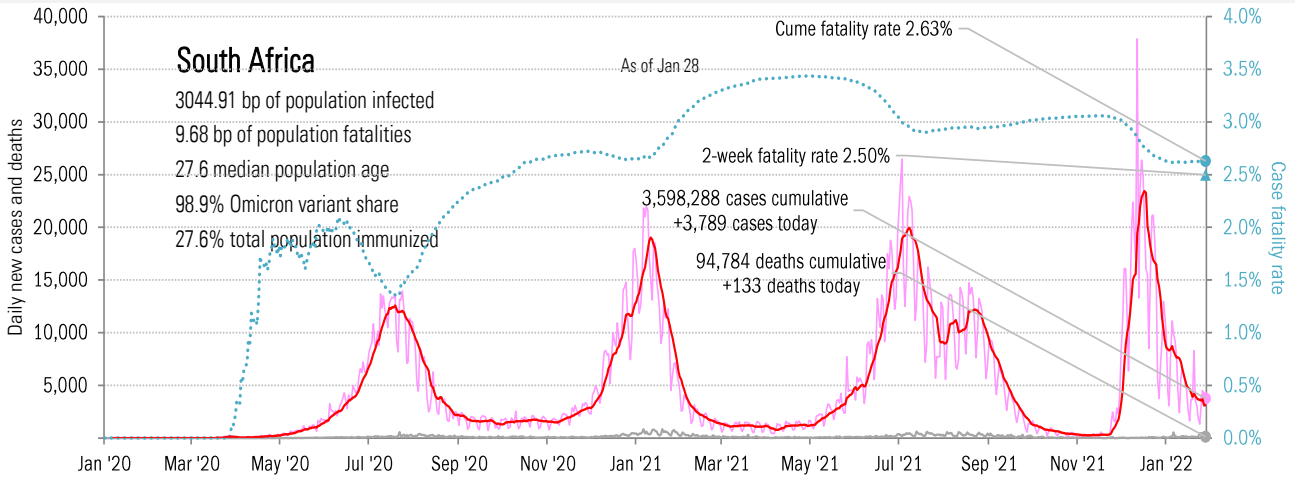
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations