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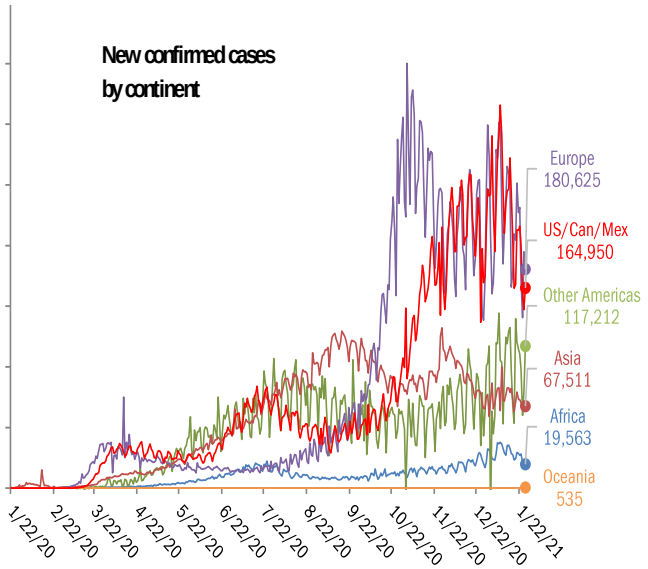
Data Insights: Covid-2019 Monitor

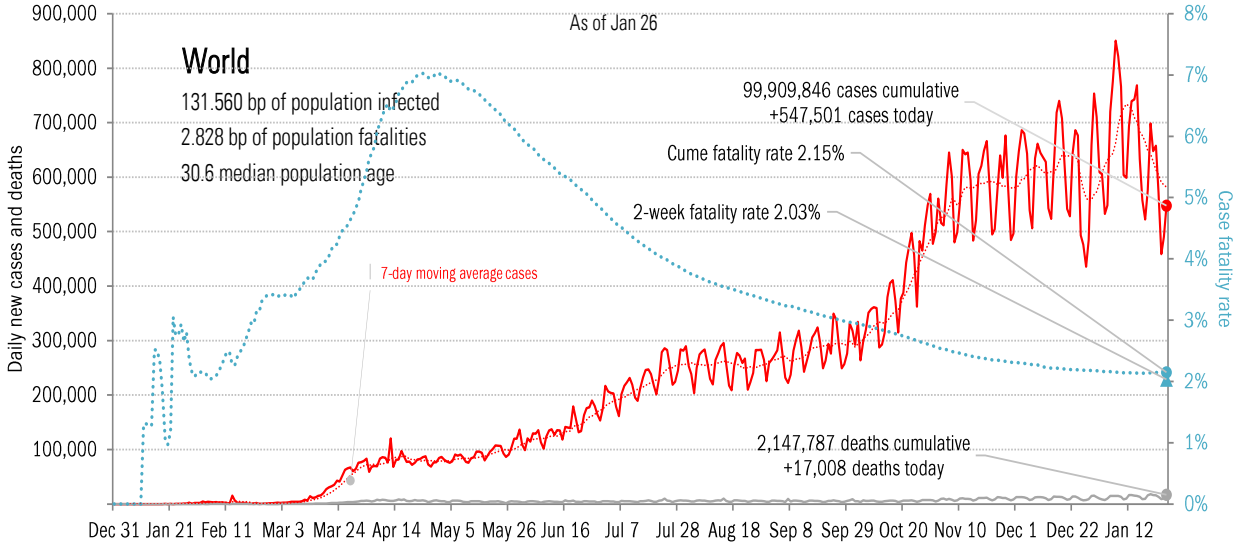
Wednesday, January 27, 2021

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+143,745	United States	+3,734
Brazil	+61,963	Mexico	+1,743
Spain	+36,435	United Kingdom	+1,636
France	+22,143	Brazil	+1,214
United Kingdom	+20,167	South Africa	+680
Russia	+17,982	France	+614
Mexico	+17,165	Spain	+586
Colombia	+13,606	Russia	+550
Peru	+13,301	Italy	+541
Indonesia	+13,094	Peru	+499
	+359,601		+11,797
World	+547,501	World	+17,008
Top ten	66%	Top ten	69%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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The US scorecard

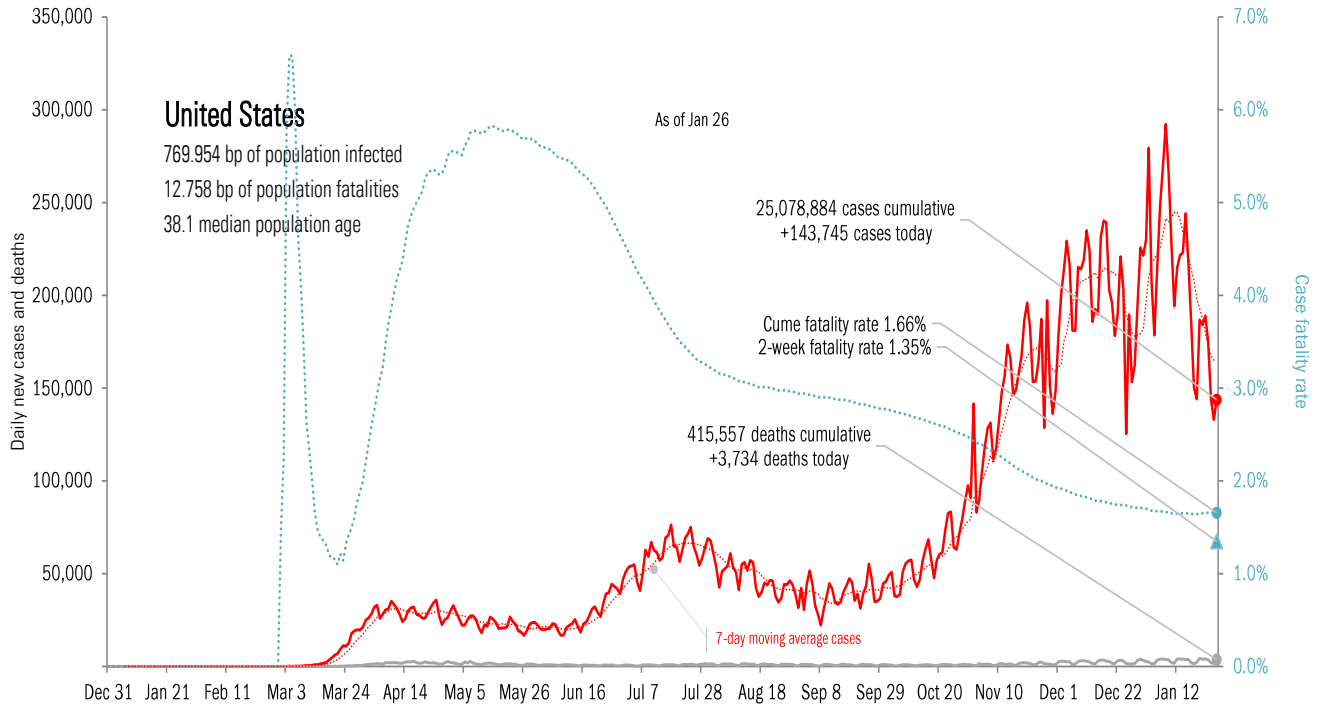
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
TX	+26,274	CA	+409	NM	+126	CA	3,153,186	CA	37,527	NY	89,995	RI	89%	AL	92%
CA	+17,028	TX	+307	NY	+101	TX	2,273,119	TX	34,701	FL	71,852	CT	81%	GA	90%
NY	+11,064	AL	+234	NC	+81	FL	1,637,296	NY	34,407	NJ	59,661	SC	80%	CA	89%
FL	+9,466	FL	+231	TX	+66	NY	1,350,054	FL	26,080	AZ	50,657	CA	80%	DE	87%
GA	+5,690	PA	+219	IL	+39	IL	1,108,430	NJ	21,105	GA	48,915	DC	80%	OK	86%
NJ	+4,776	AZ	+209	IA	+32	OH	872,918	PA	20,883	OH	45,276	MD	79%	TX	85%
AZ	+4,748	TN	+192	KY	+29	PA	812,495	IL	20,853	AL	41,315	GA	79%	NC	85%
VA	+4,707	GA	+179	NV	+21	AZ	732,643	MI	15,305	IN	39,753	MA	78%	MO	83%
PA	+4,628	NY	+165	OR	+17	GA	727,752	MA	14,220	MD	31,330	FL	78%	DC	83%
OH	+4,262	MO	+133	NJ	+13	NC	727,423	GA	13,482	MN	24,014	MO	77%	RI	82%
	+92,643		+2,278		+525		13,395,316		238,563		502,768				
All states	+143,745		+3,734		-979	All states	25,078,884		415,557		791,165	All states	73%		76%
Top ten	64%		61%		-54%	Top ten	53%		57%		64%	Median	70%		72%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CA	-9,979	CT	-69	FL	-296	TX	+26,425
CT	-4,550	KS	-24	OK	-141	OH	+11,481
KS	-2,602	NY	-8	OH	-117	TN	+5,502
VA	-1,465	AR	-4	AL	-94	OK	+3,683
MI	-1,272	KY	-4	VA	-87	PA	+3,657



Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US

US overall	Over last day
44.39 million doses distributed	+2.98 million/day
23.54 million doses administered	+0.81 million/day
19.90 million persons with one or more shot	+0.65 million/day
3.48 million persons with two or more shots	+0.14 million/day
2.73 million shots in long-term care	+0.01 million/day

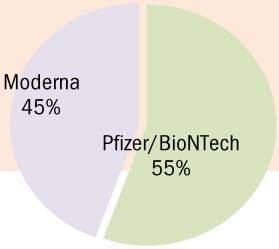
53.0% of distributed doses administered

7.2% of US population vaccinated

6.1% of US population one shot

1.1% of US population two shots

1.9 doses per long-term care resident



State	
Doses distributed as % population	Best
One shot received as % population	Middle
Two shots received as % distributed	Worst

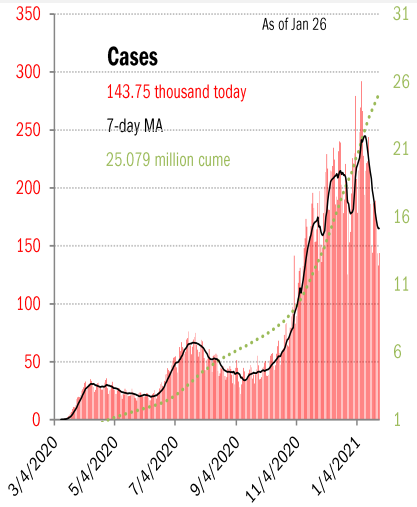
AK										ME
22.3%										14.6%
11.1%										6.2%
2.3%					WI				VT	NH
					11.8%				14.9%	13.3%
					4.6%				7.1%	6.0%
					0.8%				1.7%	1.1%
WA	ID	MT	ND	MN	IL	MI		NY	MA	
12.6%	10.3%	11.2%	11.4%	12.2%	12.2%	12.9%		12.3%	12.7%	
5.5%	4.4%	5.9%	7.6%	5.1%	4.7%	6.1%		6.4%	5.5%	
1.0%	0.8%	1.3%	2.1%	1.3%	1.1%	1.2%		1.0%	1.0%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
14.0%	11.0%	12.4%	13.3%	11.5%	13.4%	12.0%	12.8%	12.3%	14.5%	14.3%
6.2%	4.6%	6.3%	7.2%	5.2%	6.1%	5.4%	5.1%	5.7%	8.2%	5.5%
1.0%	0.7%	0.8%	2.1%	1.0%	1.3%	0.7%	1.1%	0.8%	1.3%	1.3%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
13.5%	11.7%	12.6%	12.3%	10.8%	12.5%	15.5%	13.7%	13.0%	13.3%	
5.2%	6.1%	6.5%	5.8%	4.3%	6.3%	9.4%	5.8%	5.3%	5.8%	
1.0%	0.8%	1.4%	1.2%	1.2%	0.7%	2.4%	0.9%	0.7%	1.2%	
	AZ	NM	KS	AR	TN	NC	SC	DC		
	11.5%	12.9%	12.0%	13.1%	12.3%	11.9%	10.1%	13.8%		
	5.0%	8.2%	4.5%	6.5%	5.3%	5.8%	5.2%	7.3%		
	0.9%	1.7%	0.9%	1.2%	1.5%	0.8%	0.9%	1.9%		
			OK	LA	MS	AL	GA			
			13.4%	13.0%	12.5%	11.6%	12.3%			
			7.2%	6.5%	5.6%	4.6%	5.6%			
			1.1%	0.9%	0.5%	0.6%	0.6%			
HI			TX					FL		PR
14.9%			11.5%					14.4%		13.1%
5.4%			5.6%					6.6%		4.6%
1.3%			1.0%					0.7%		1.2%

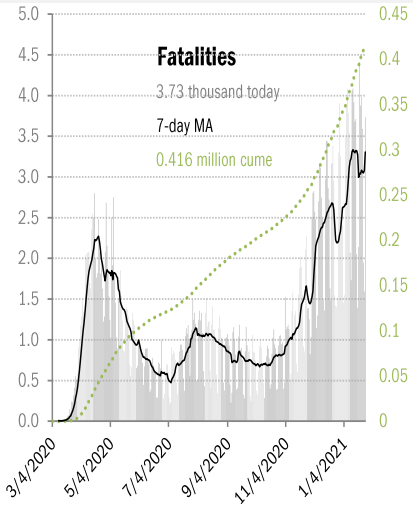
As of Jan 26

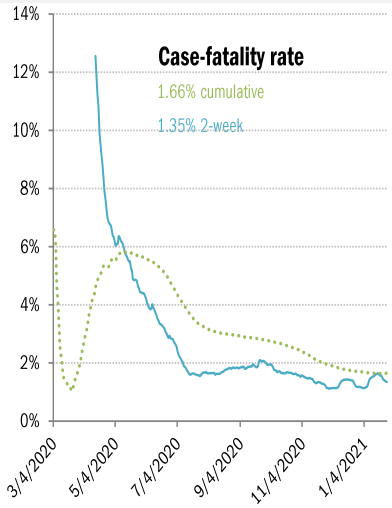
Source: CDC, TrendMacro calculations

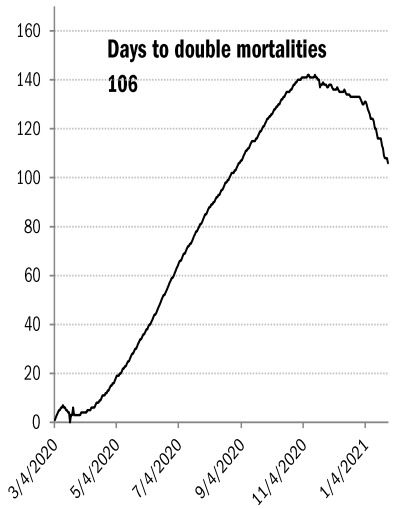
US deep-dive

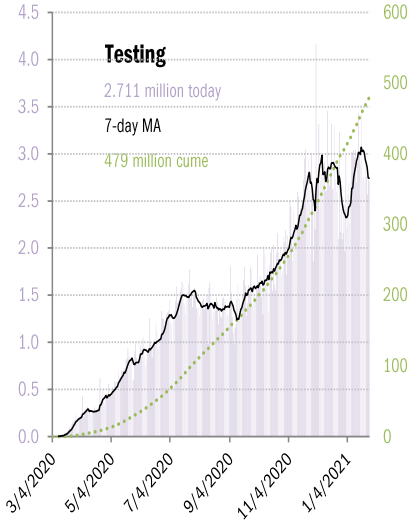
National and state-by-state data do not line up because of different sources

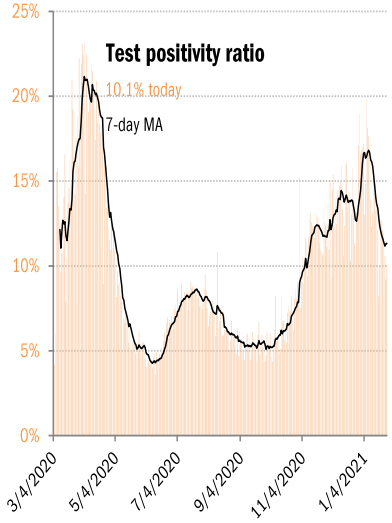


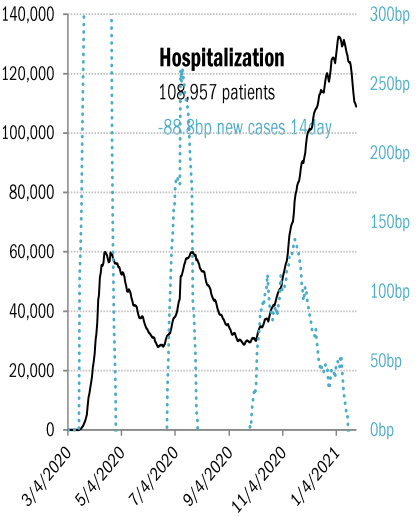


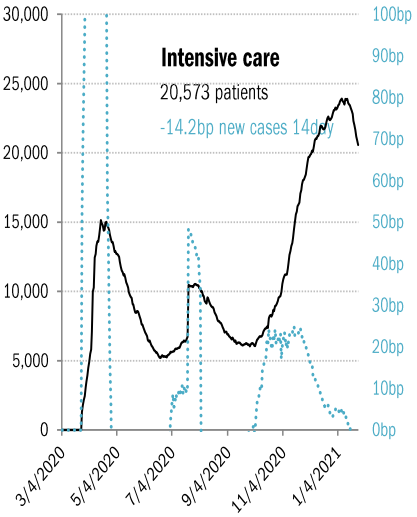


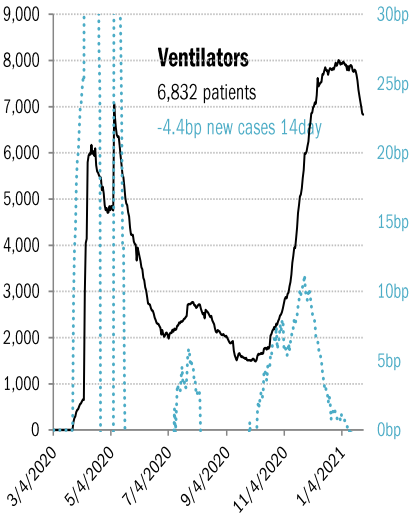






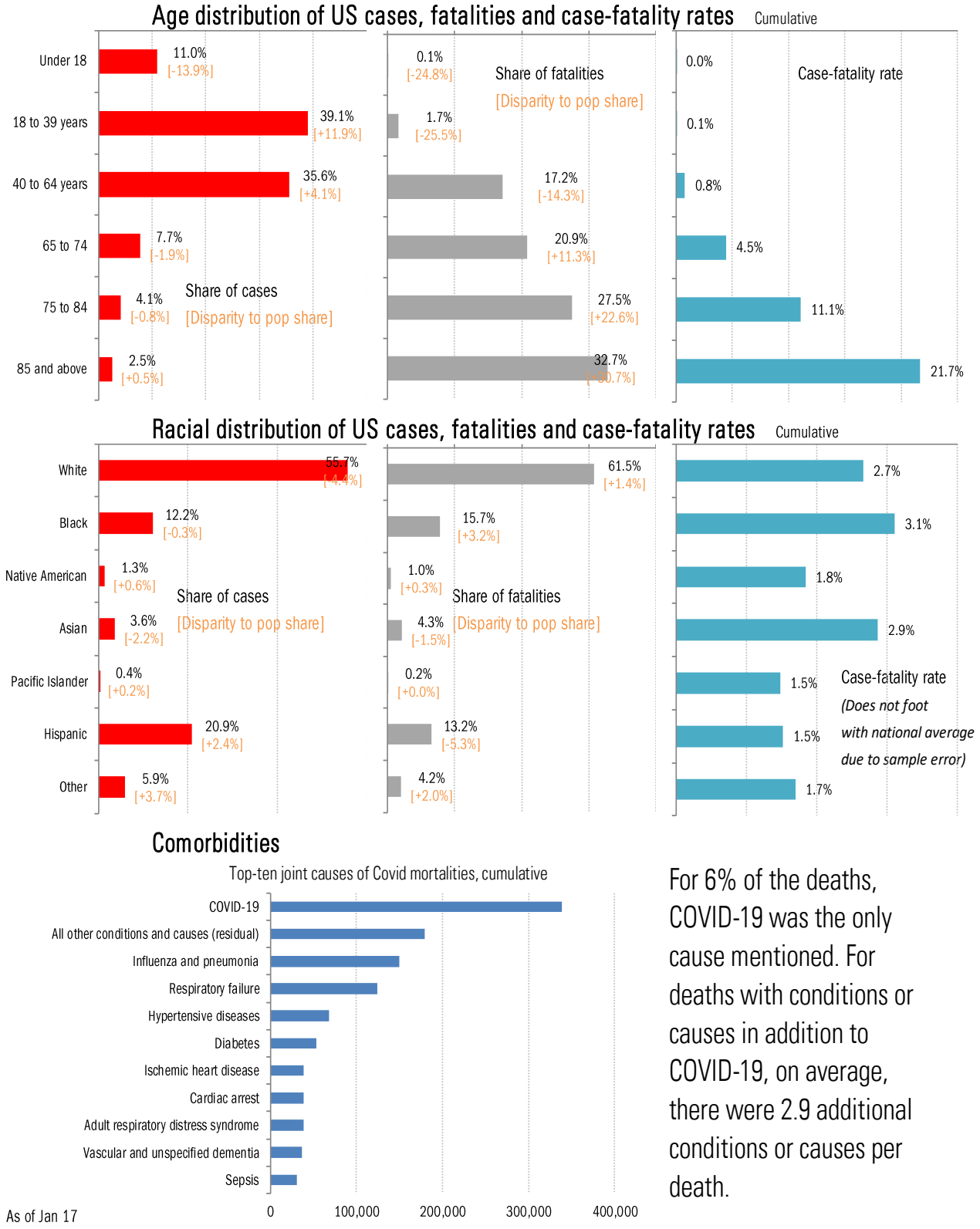






Source: Covid Tracking Project, TrendMacro calculations

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



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

Steve Hilton investigates origins of COVID-19, links to US commissioned research
Fox News
January 24, 2021

Fauci: Wearing two masks is better than one
Tamar Lapin
New York Post
January 25, 2021

China's gift for the Biden inauguration is a conspiracy theory about Covid-19's US origins
Jane Li
Quartz
January 20, 2021

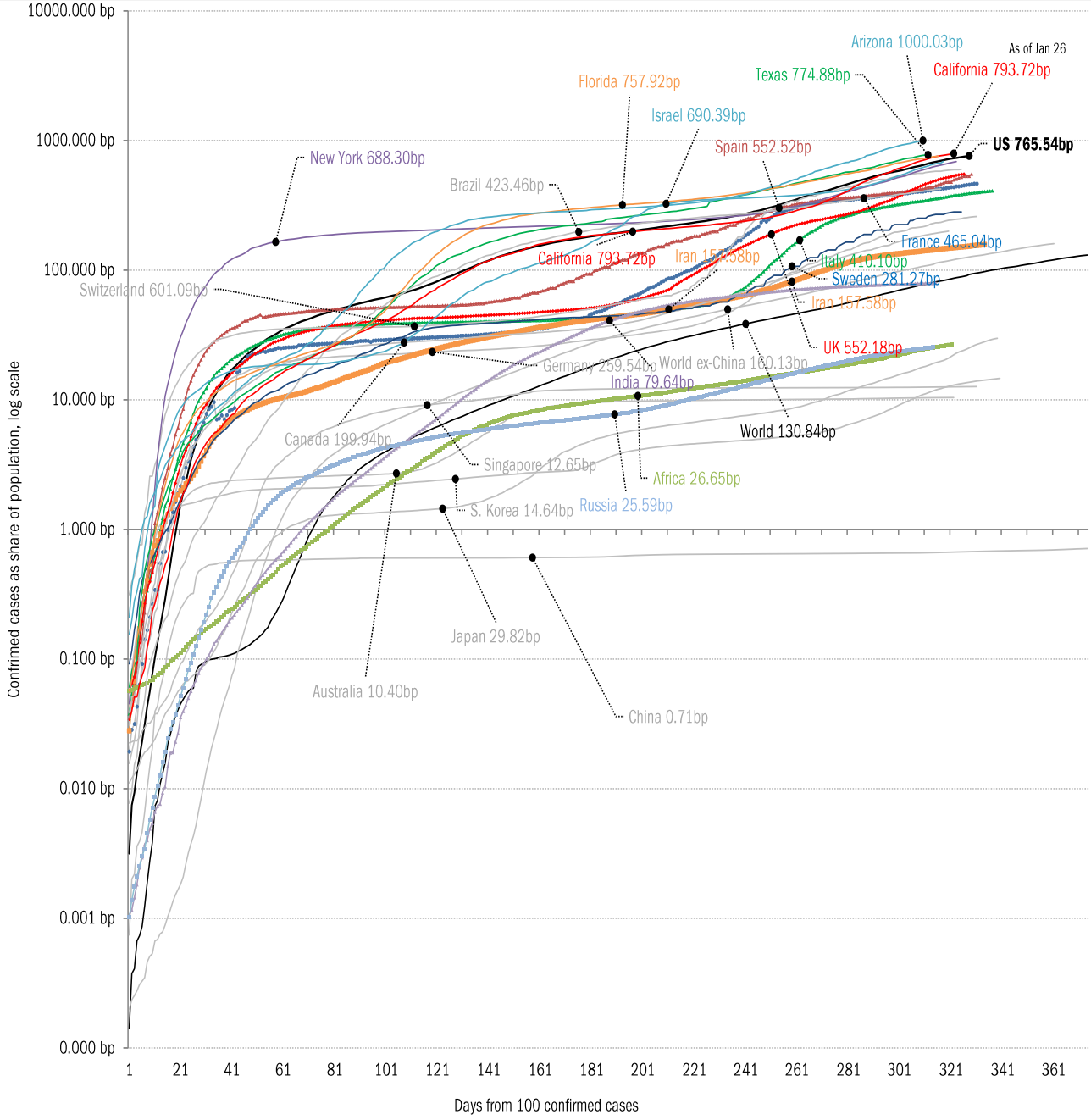
Netherlands Has Worst Riots in Four Decades Over Covid Curbs
Joost Akkermans
Bloomberg
January 26, 2021

Meme of day

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

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

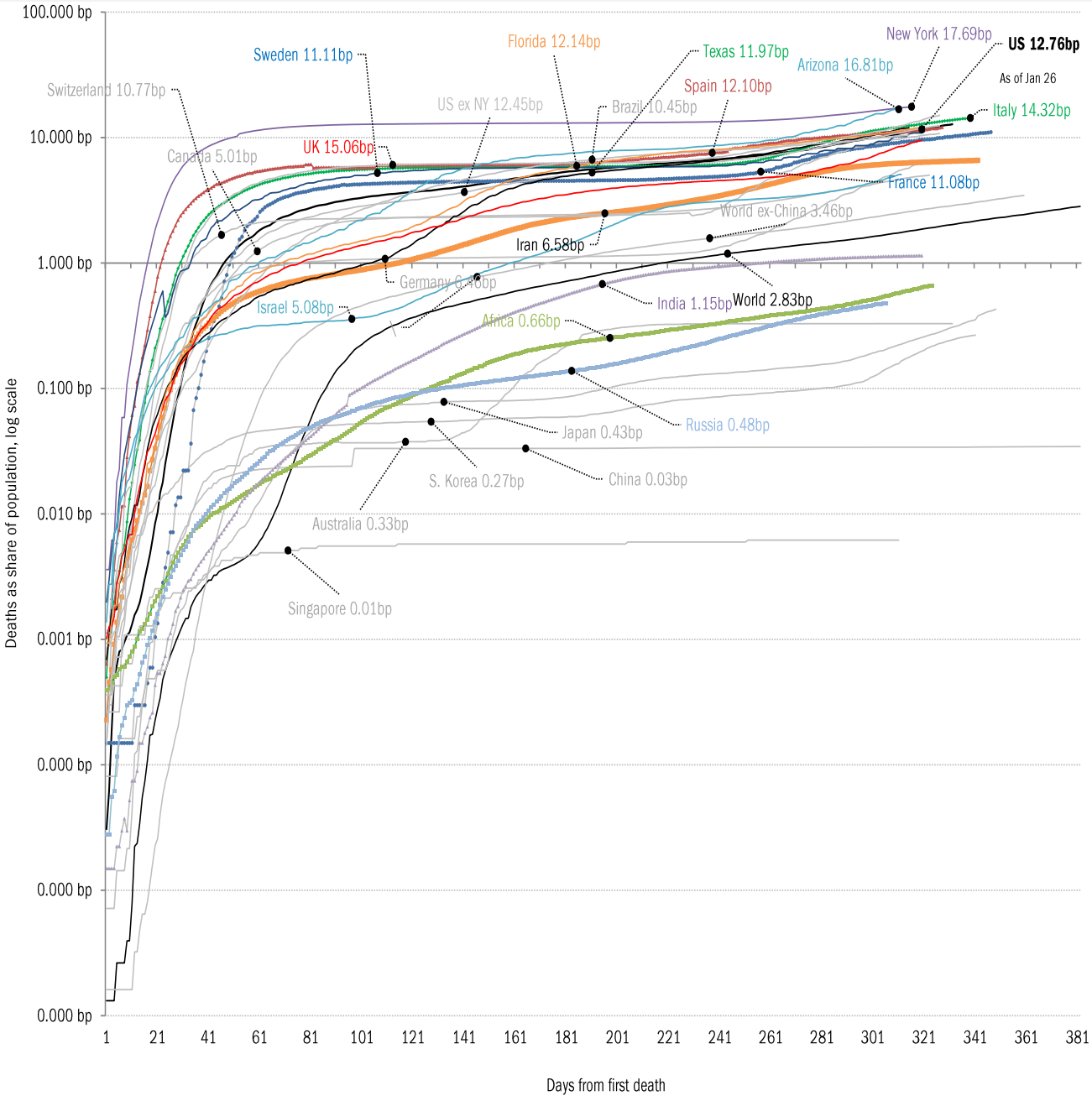
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

Share of deceased population from day of first fatality

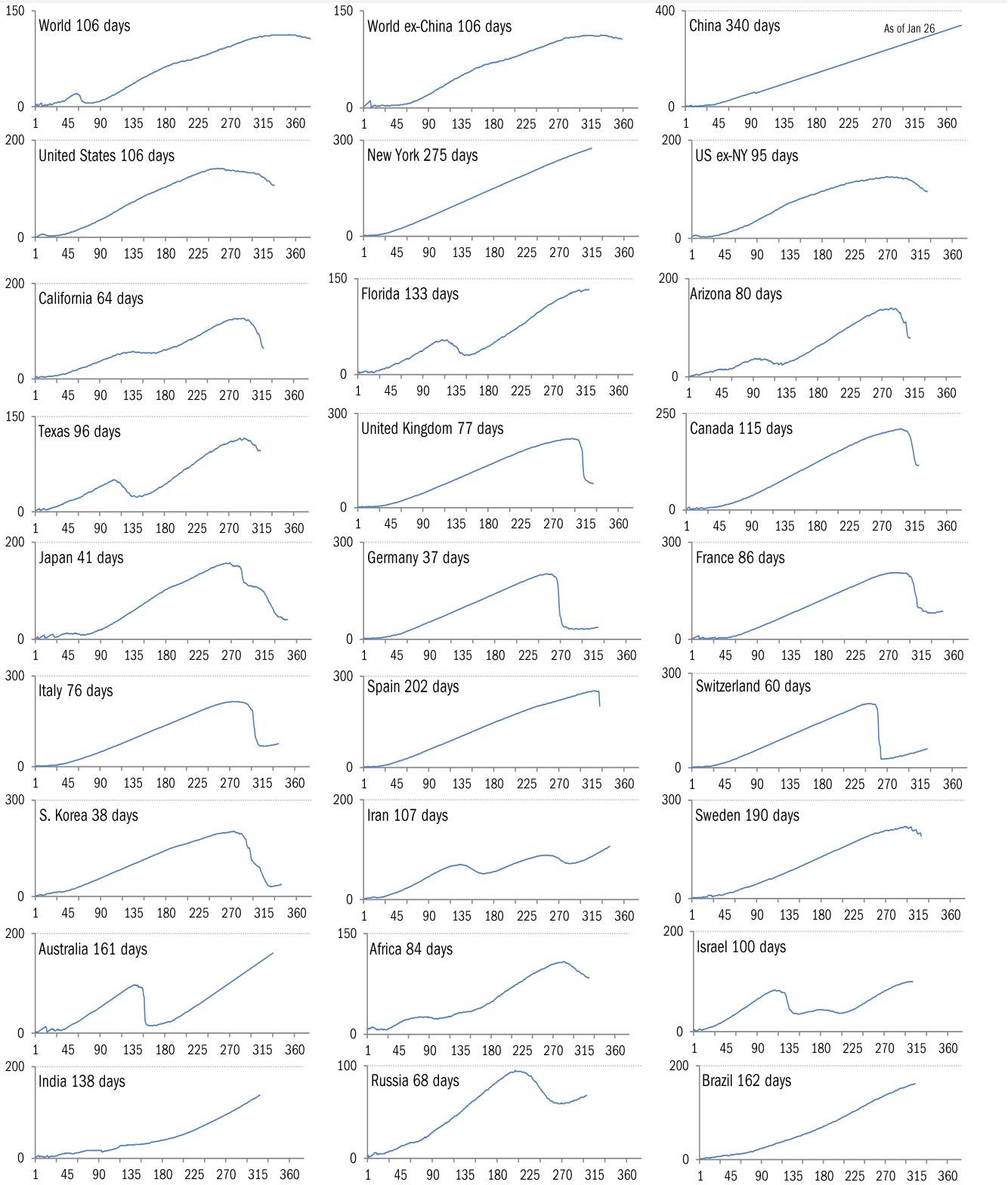


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"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

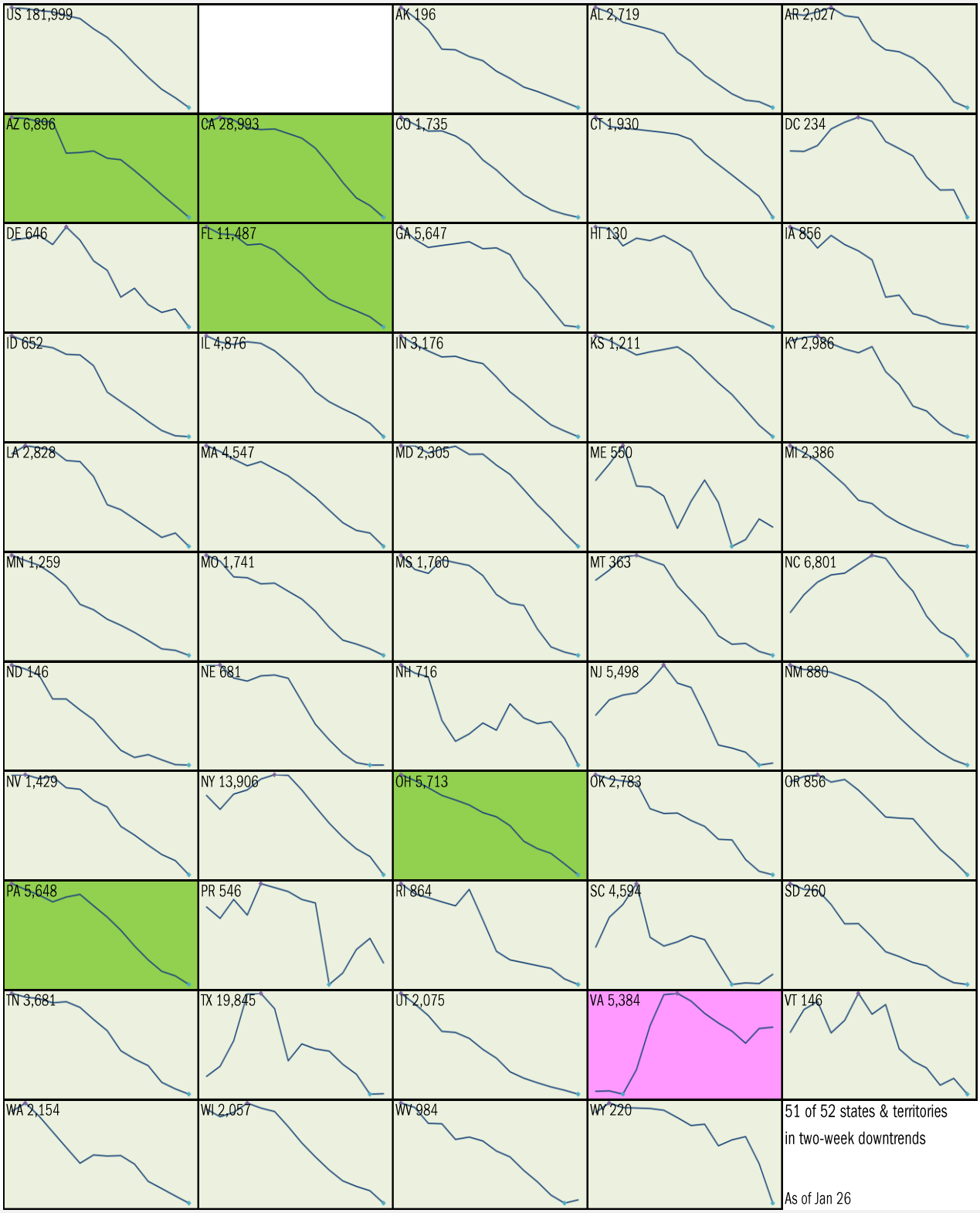


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

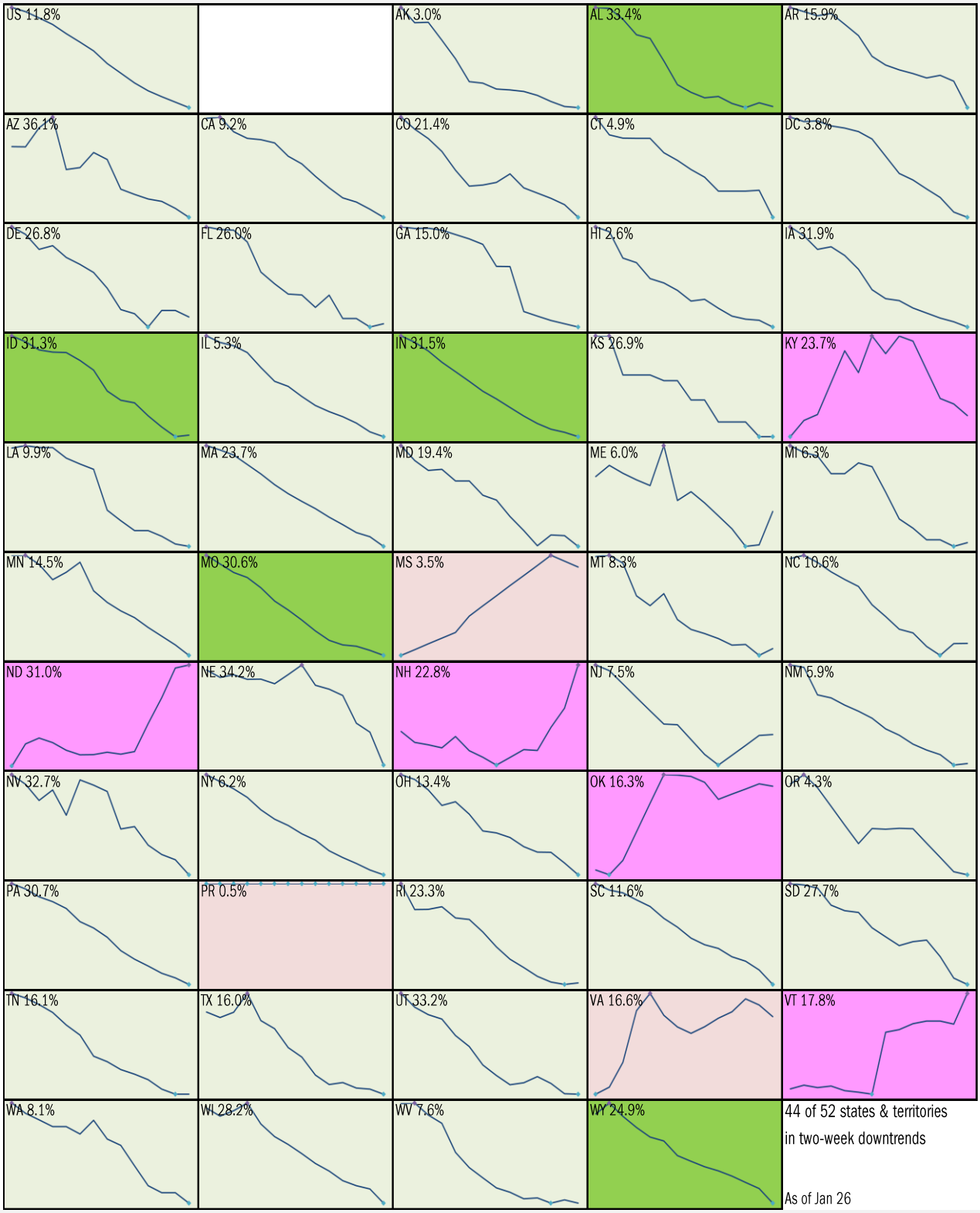


Source: Covid Tracking Project, TrendMacro calculations

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

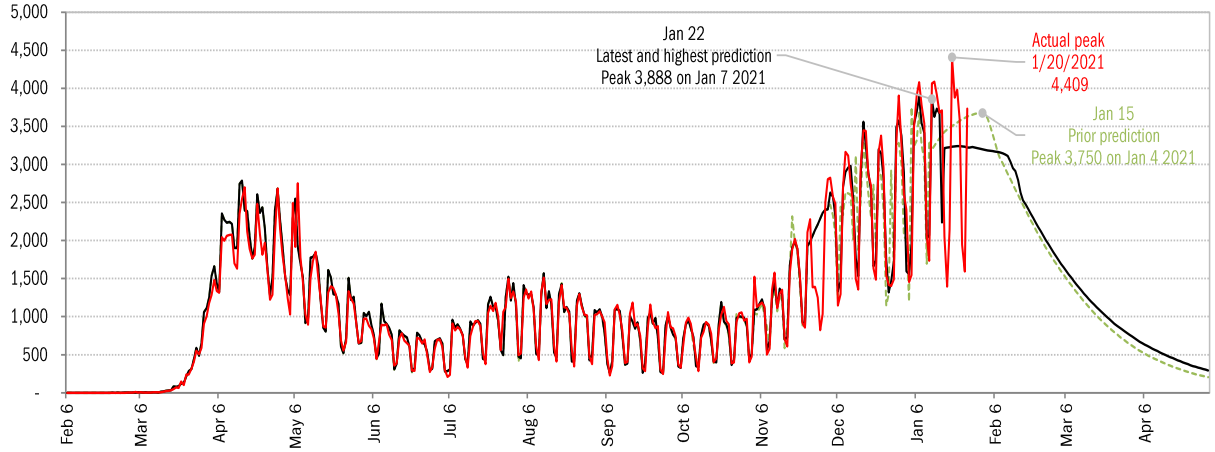


Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

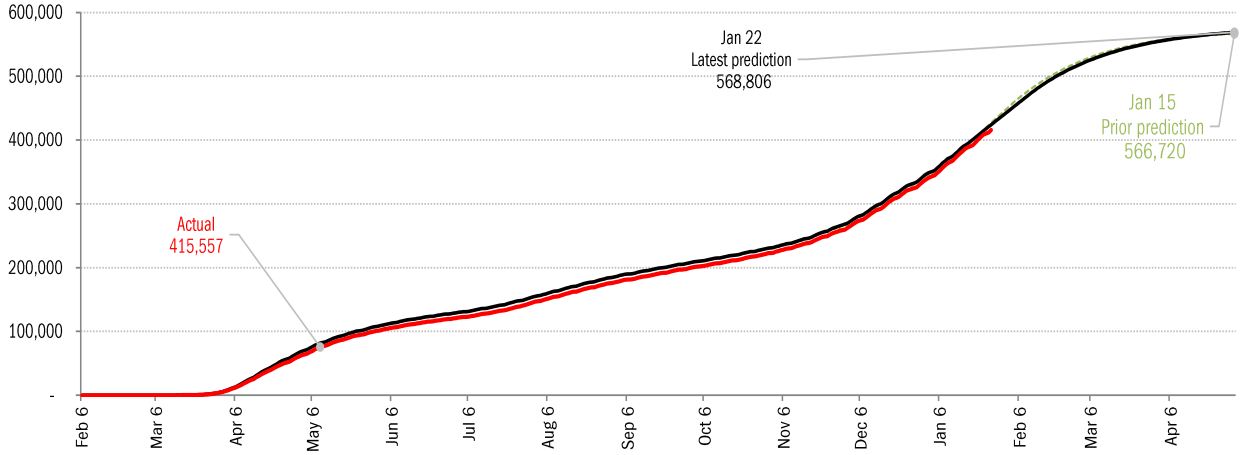
New daily fatalities As of Jan 26

Actual versus first, highest, lowest and latest model mean predictions

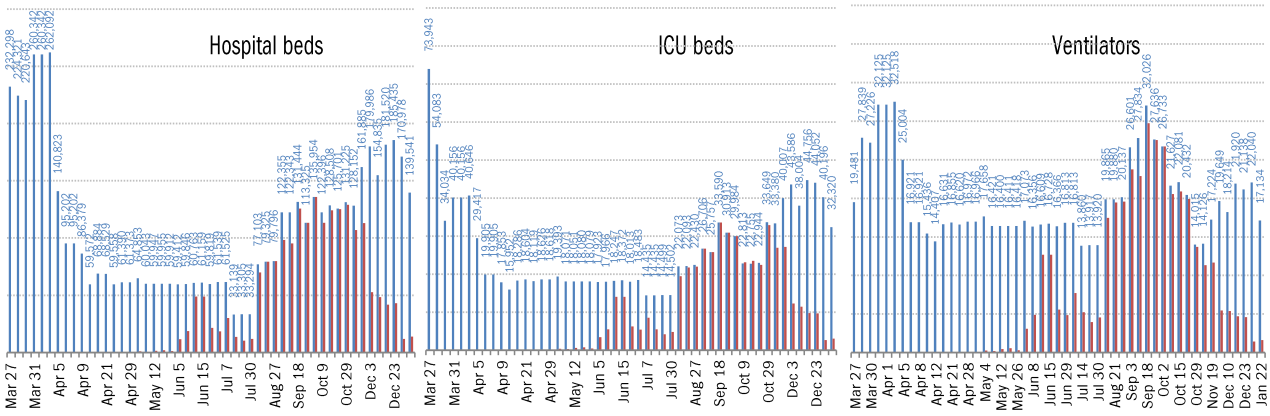


Cumulative fatalities

Actual versus first, highest, lowest and latest model mean predictions

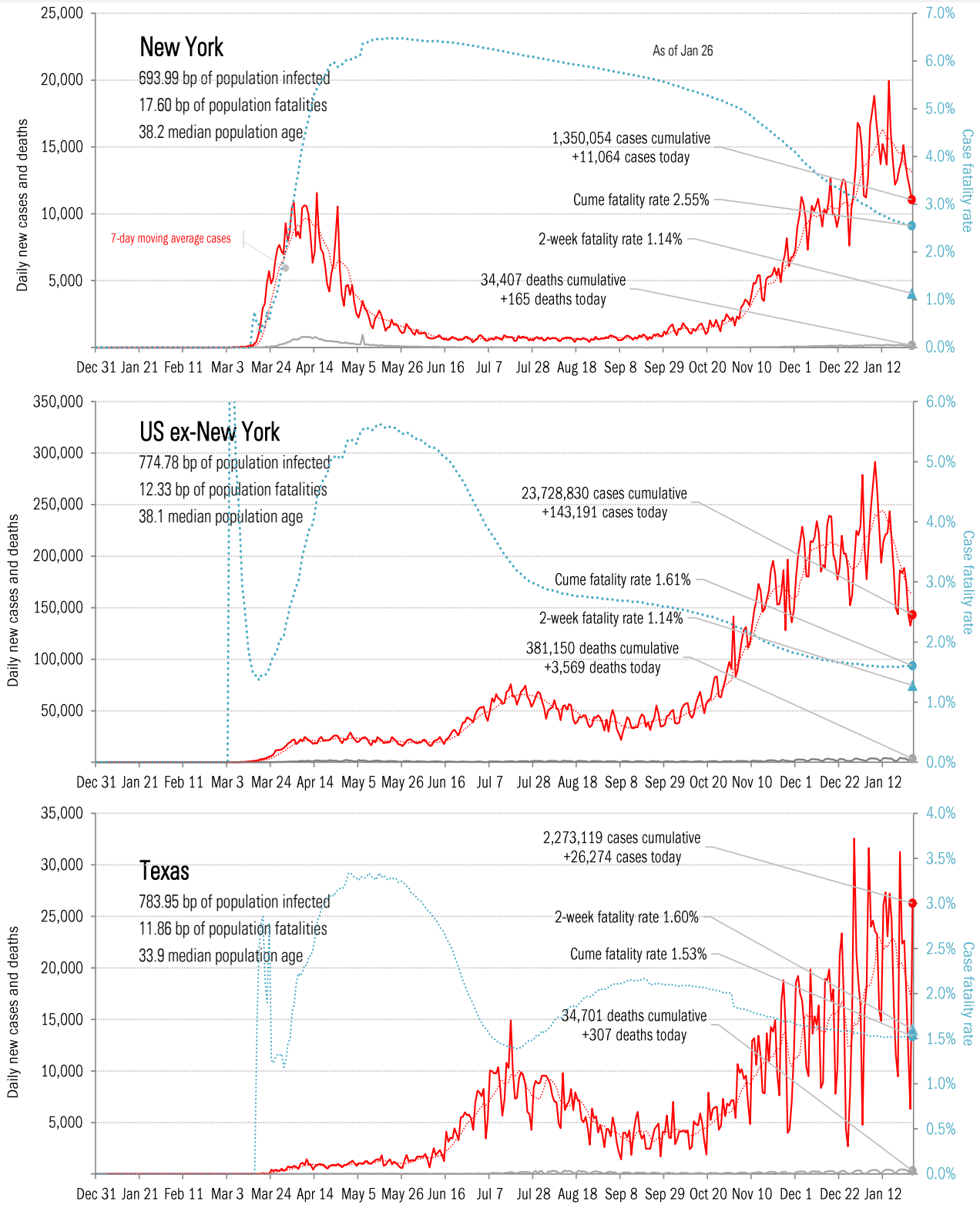


Healthcare system stress, peak and ultimate estimated at each model revision



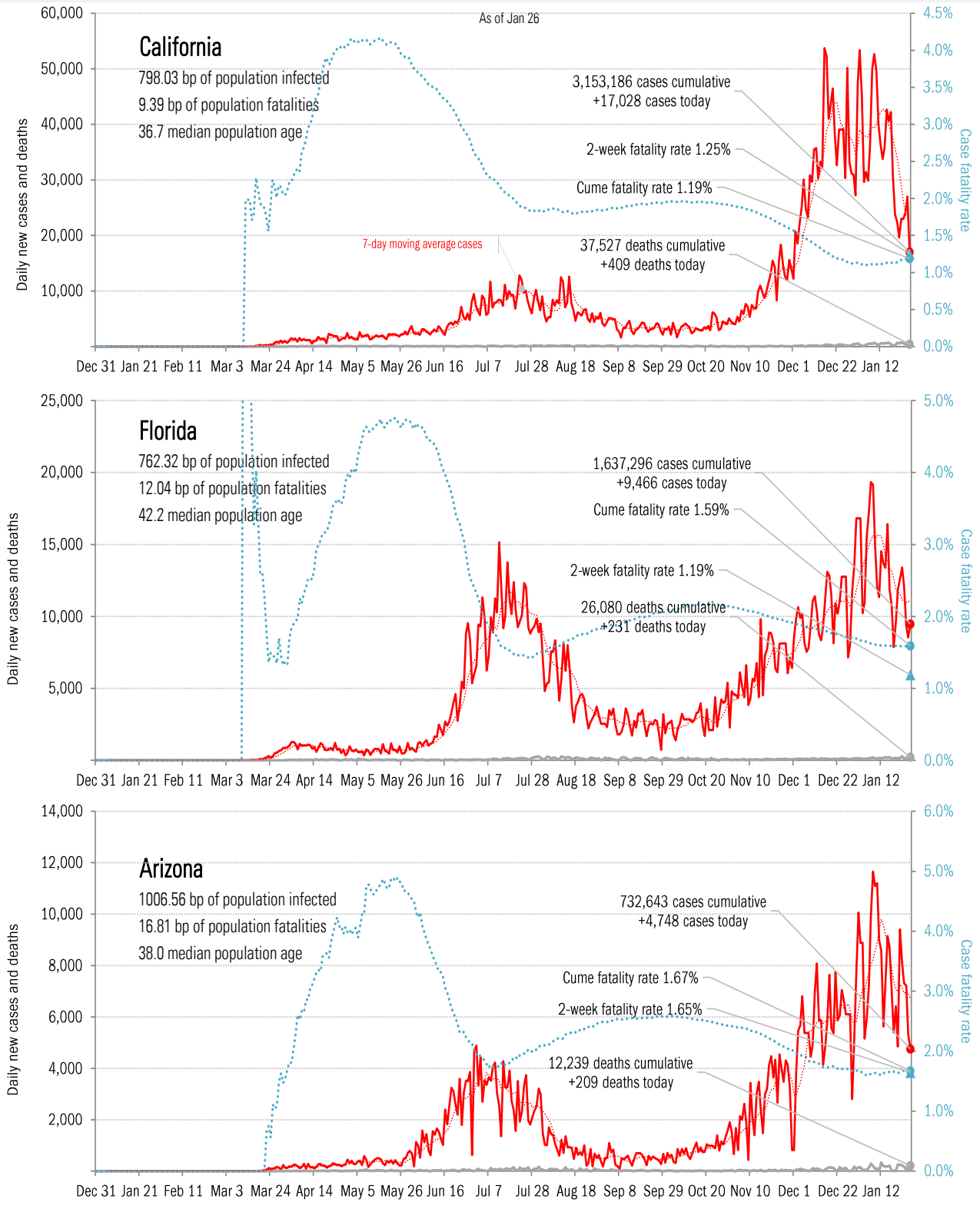
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



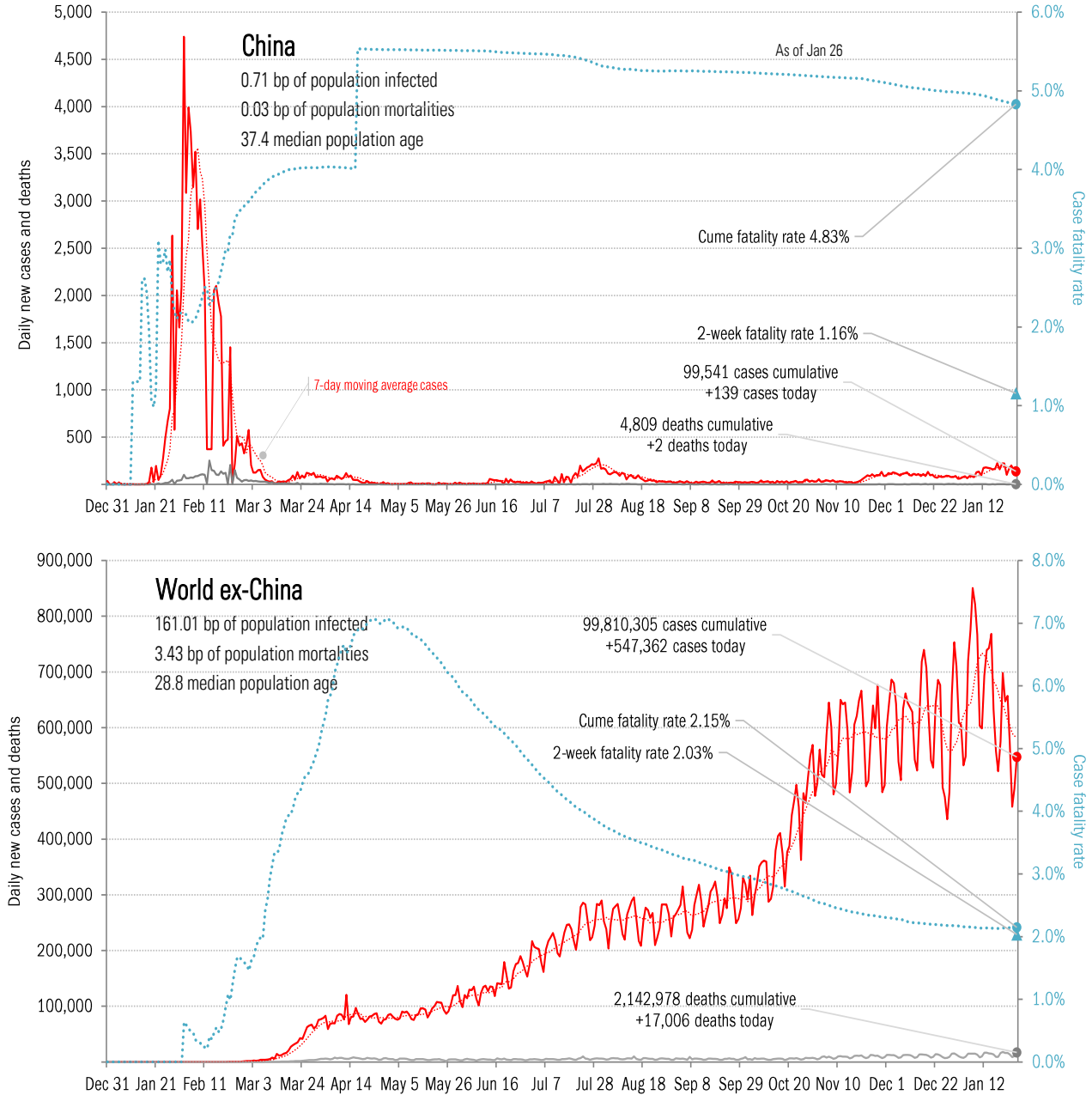
Source: Covid Tracking Project,, TrendMacro calculations

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



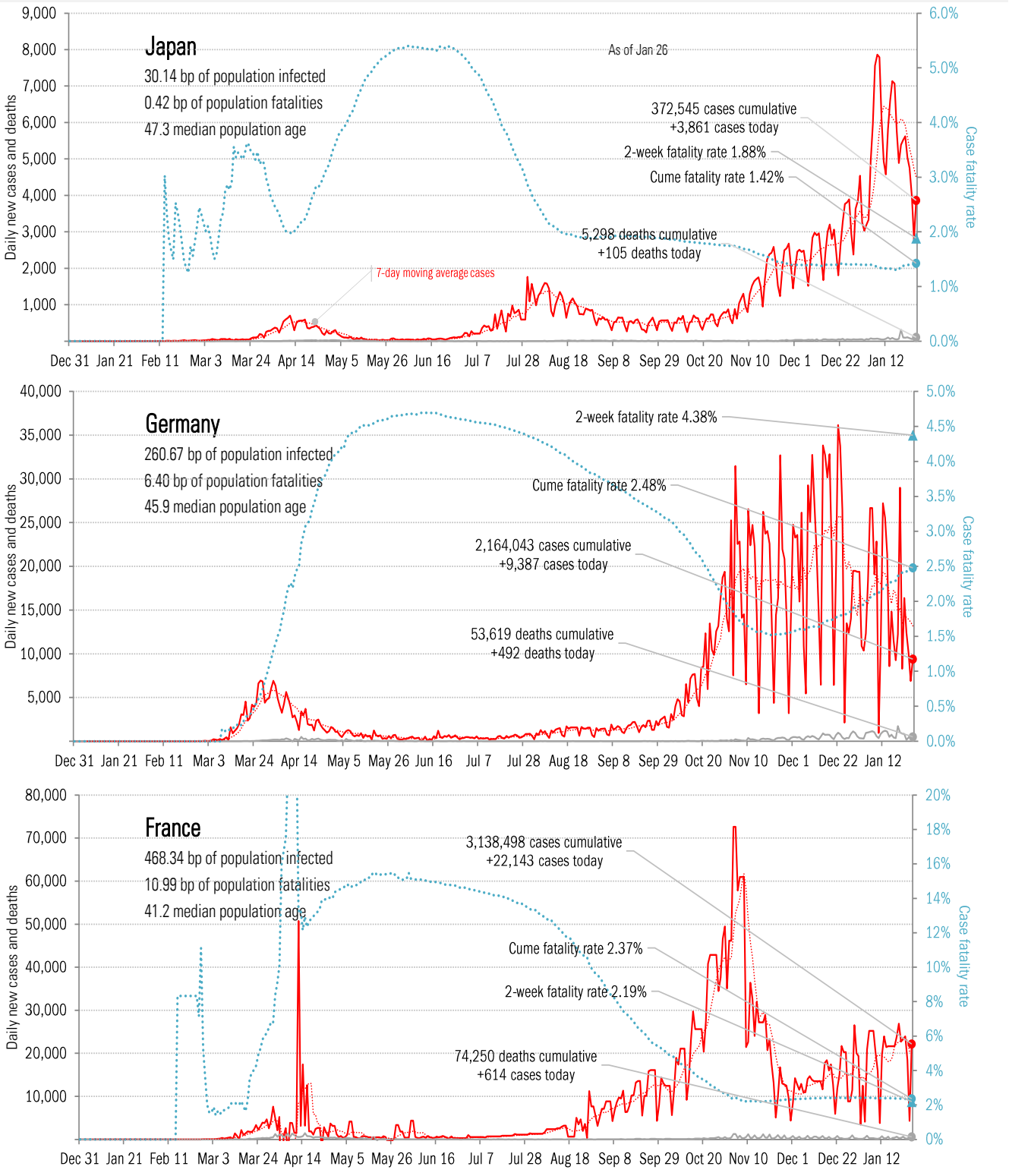
Source: Covid Tracking Project., TrendMacro calculations

Patient zero… and then everyone else



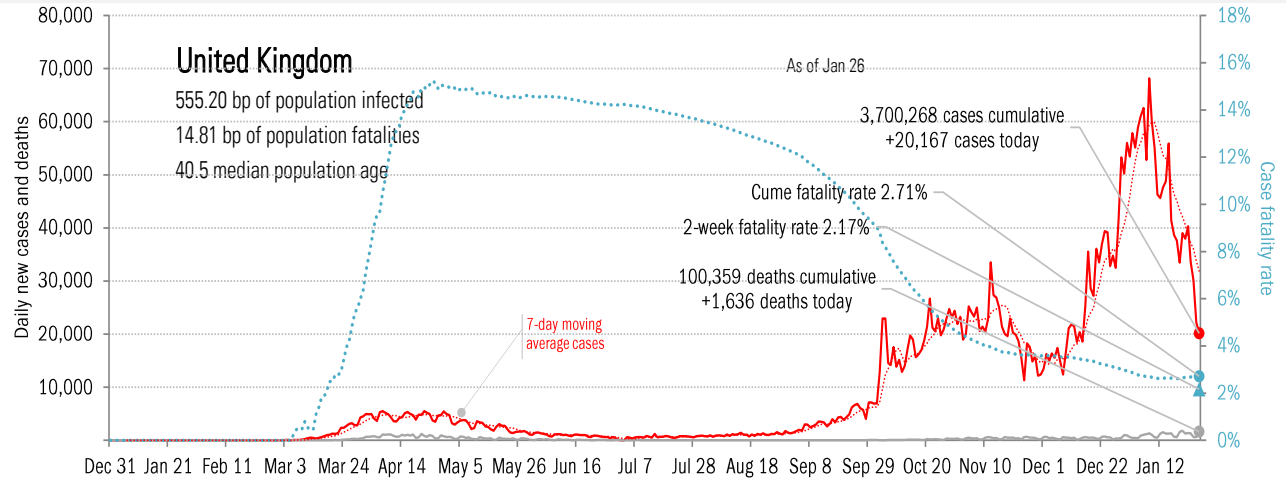
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

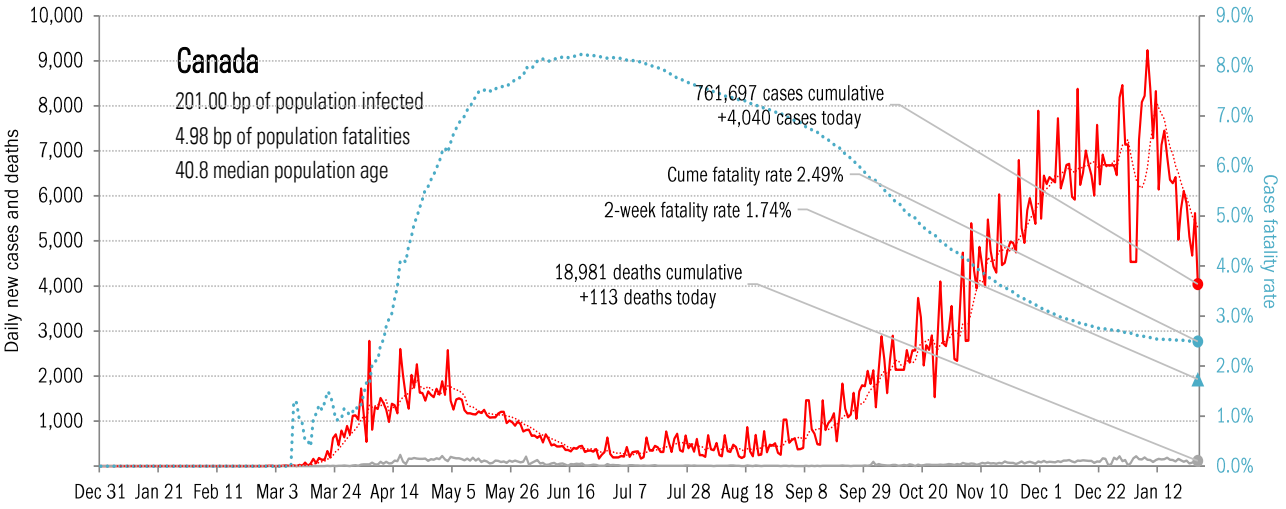
Impact in the largest economies

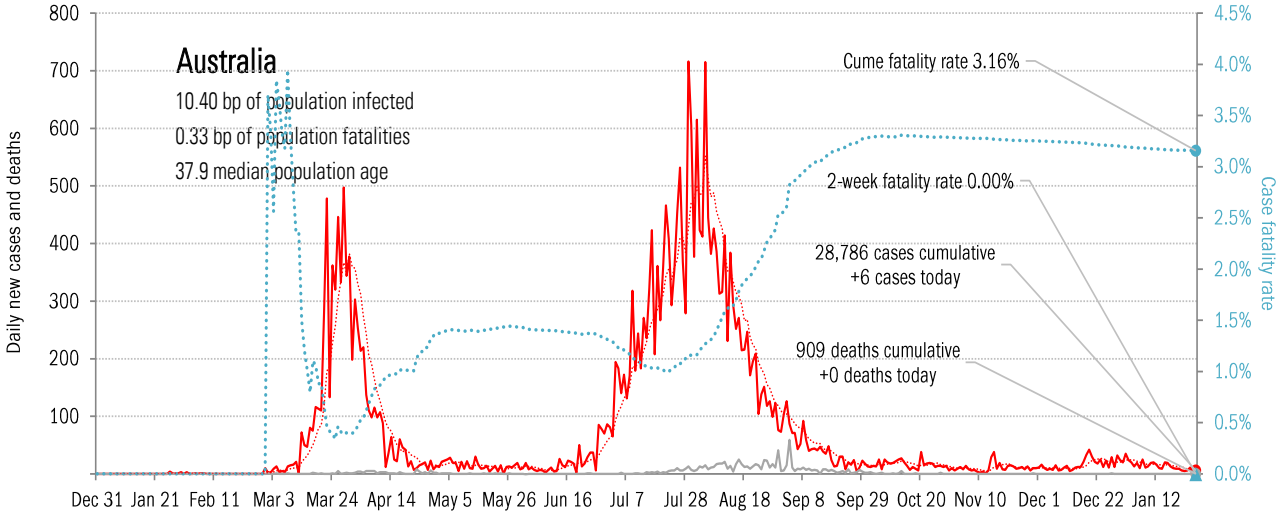


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

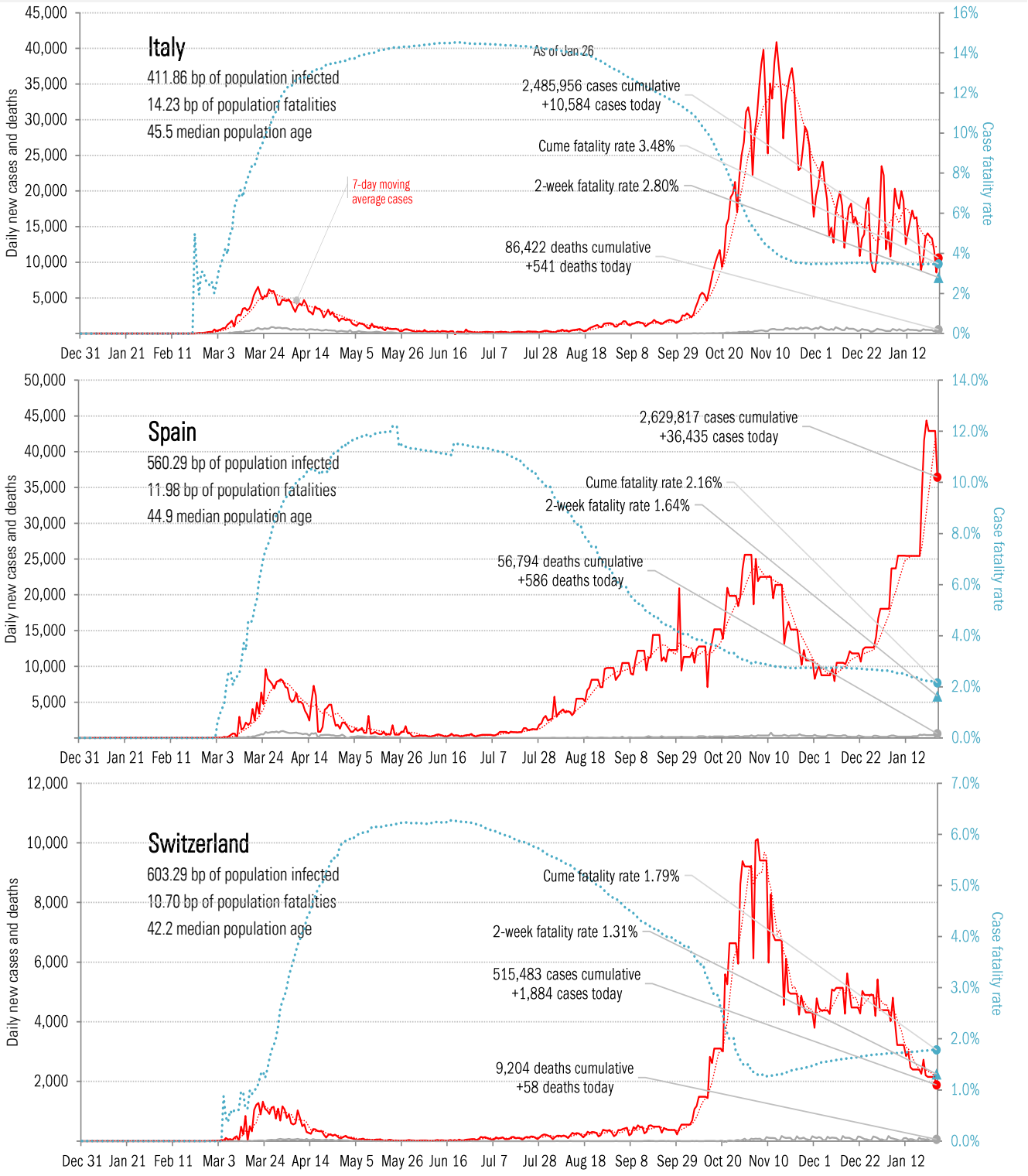






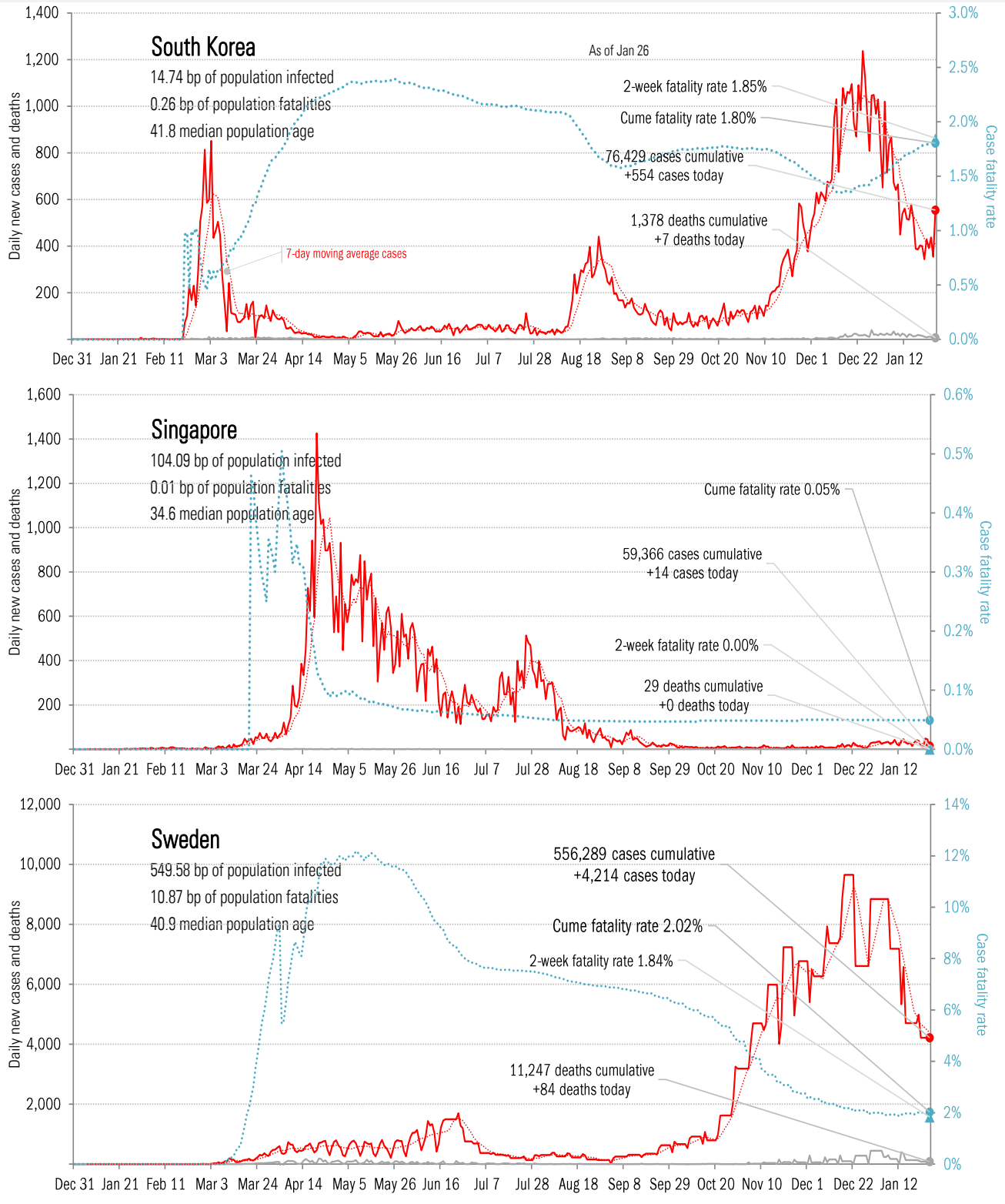
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



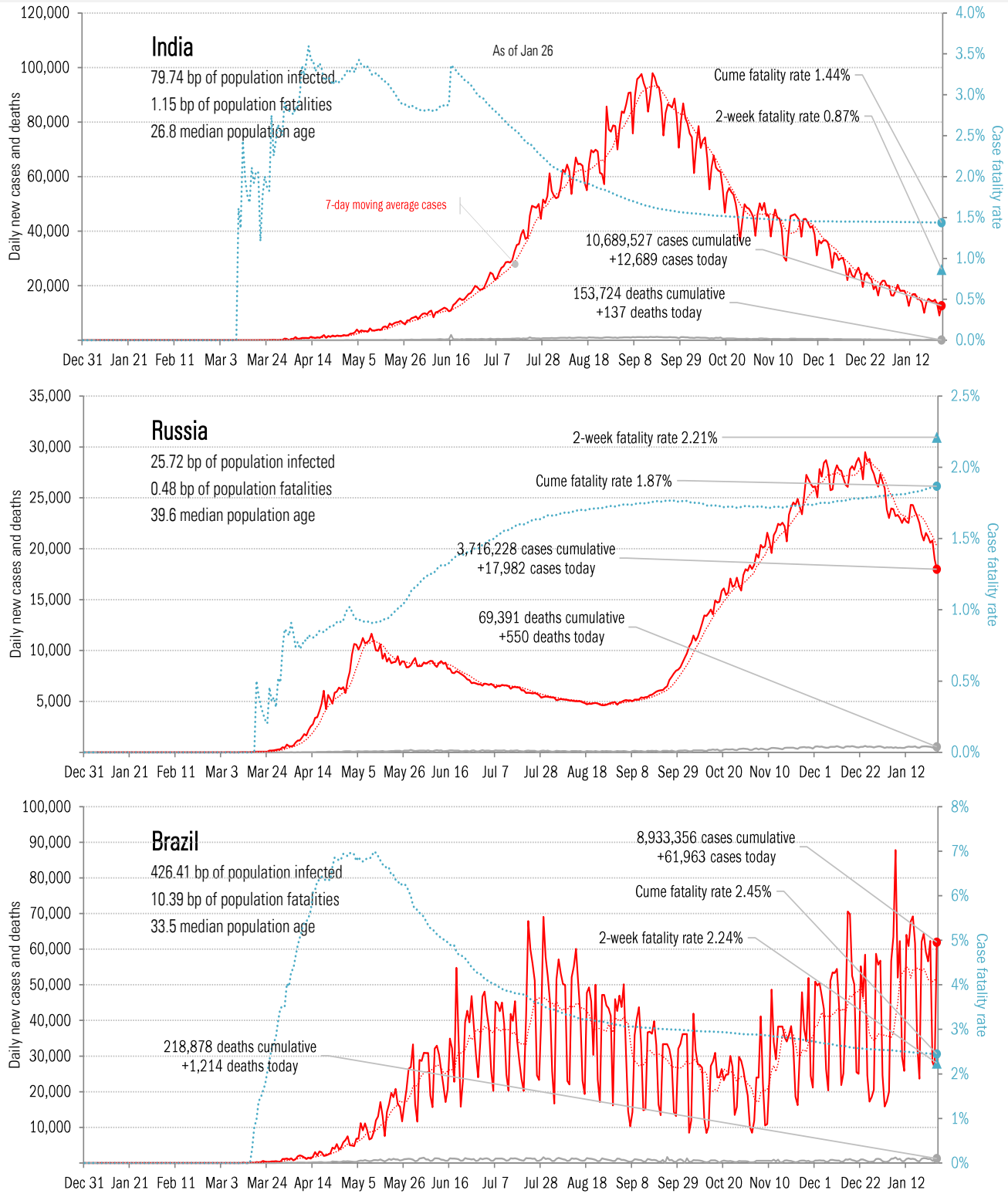
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



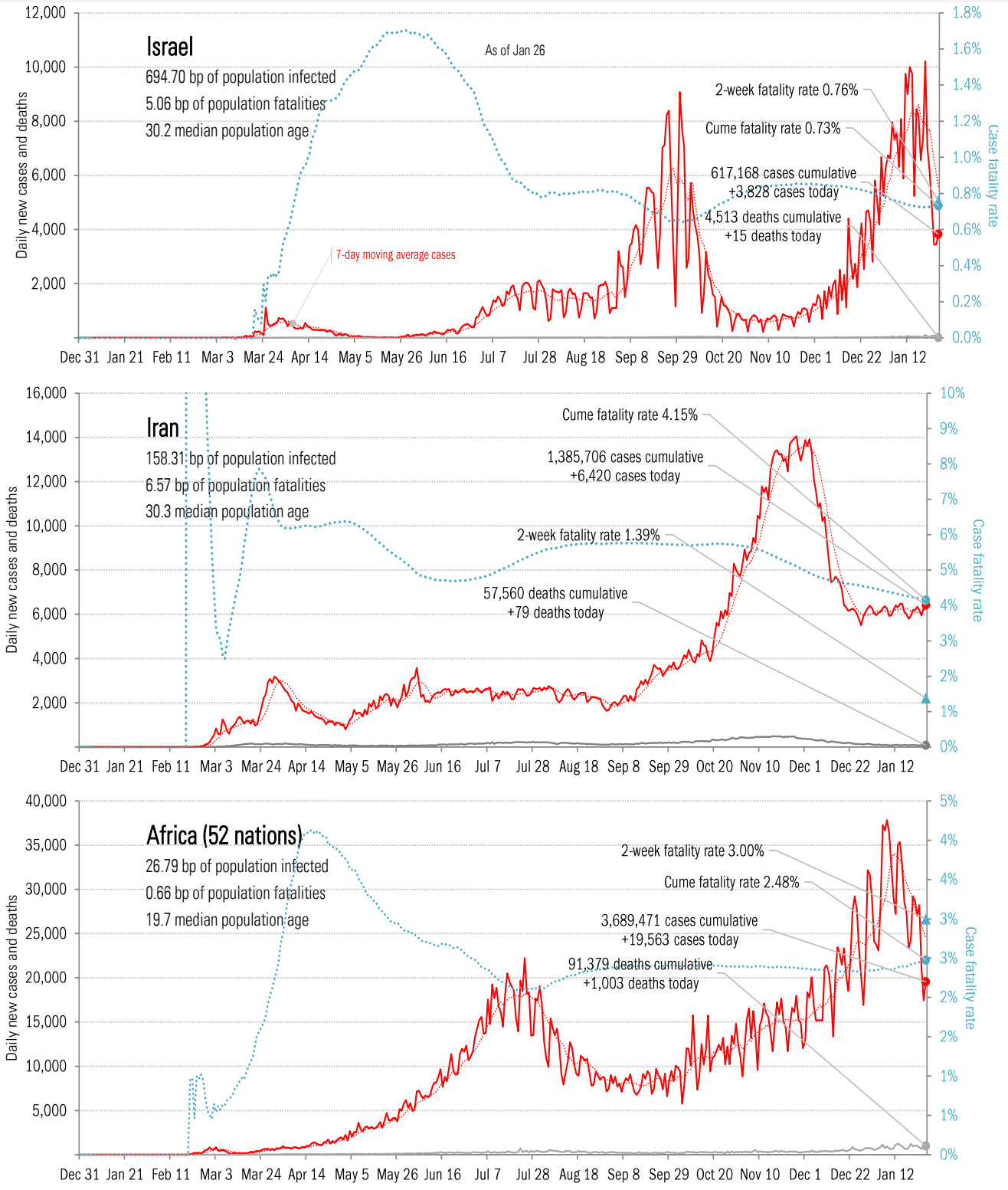
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations