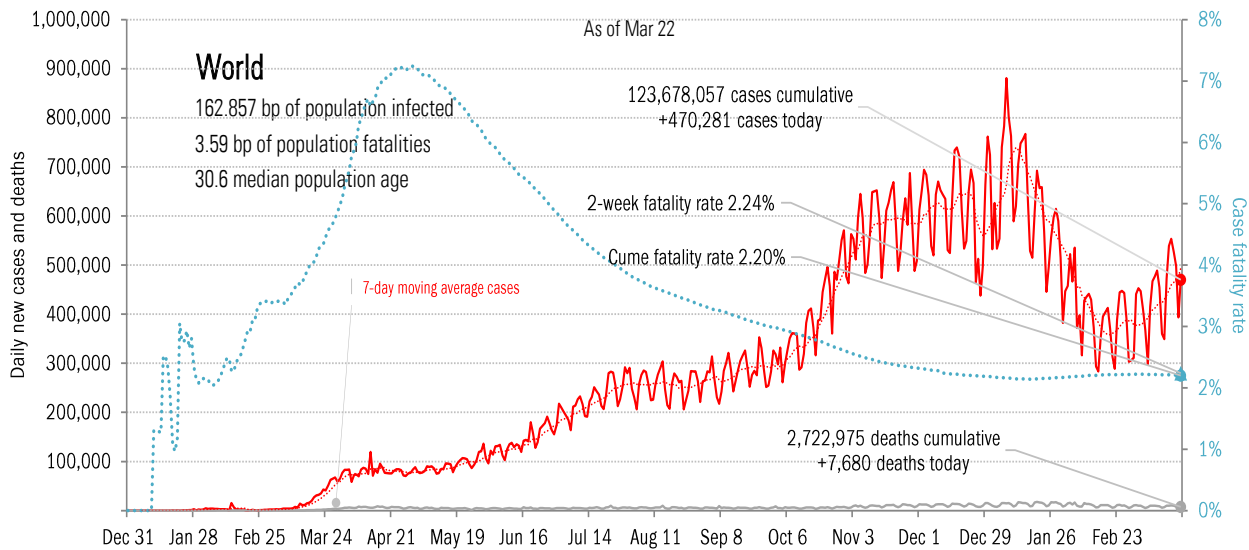
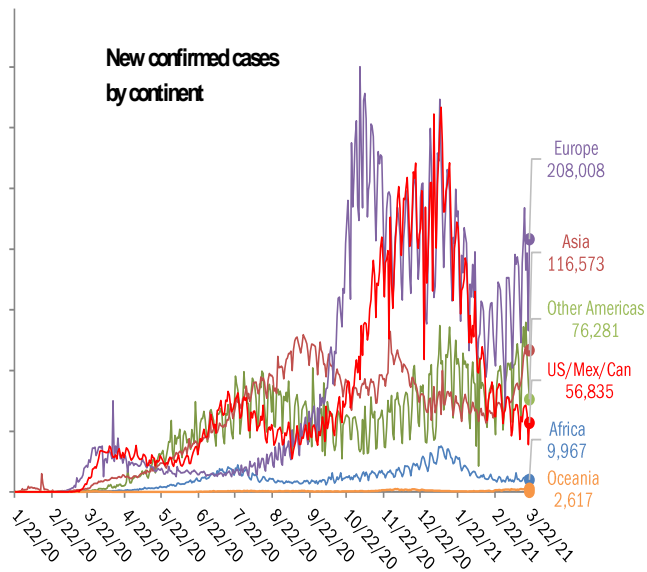


Data Insights: Covid-2019 Monitor

Tuesday, March 23, 2021

The global scorecard

The worst ten countries			
New cases		New Deaths	
France	+81,124	Brazil	+1,383
United States	+50,584	France	+657
Brazil	+49,293	Spain	+633
India	+40,715	United States	+590
Turkey	+22,216	Italy	+386
Spain	+16,471	Russia	+355
Poland	+14,579	Germany	+253
Italy	+13,805	Mexico	+203
Jordan	+9,269	India	+199
Russia	+9,195	Hungary	+189
+307,251		+4,848	
World	+470,281	World	+7,680
Top ten	65%	Top ten	63%



Source: [Johns Hopkins](#), TrendMacro calculations

For more information contact us:

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

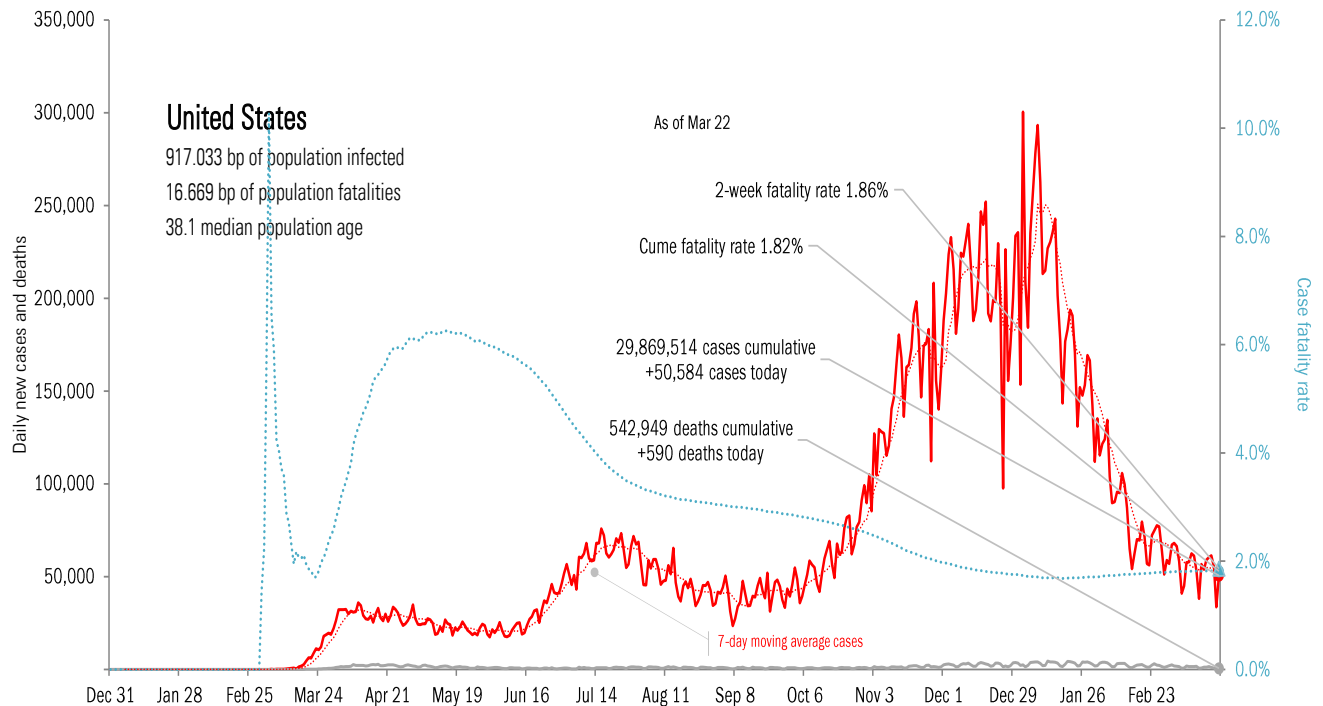
The ten worst US states

New cases			New Deaths		New in hospital		Cum cases		Cum deaths		Cum in hospital		Hospital use		ICU use	
MI	+5,768		CA	+117	MI	+97	CA	3,644,488	CA	57,622	TX	222,778	R	94%	NY	19%
CA	+3,383		TX	+100	PA	+59	TX	2,757,552	NY	49,444	CA	219,763	ID	83%	MD	18%
NJ	+3,151		KY	+61	FL	+52	FL	2,011,211	TX	47,446	FL	147,730	MA	82%	DC	16%
TN	+3,024		LA	+42	GA	+51	NY	1,785,565	FL	32,779	NY	109,577	MD	80%	TX	15%
CT	+2,976		FL	+37	NY	+32	IL	1,222,992	PA	24,798	GA	92,807	PA	80%	GA	14%
TX	+2,936		MA	+27	CH	+26	GA	1,046,382	NJ	24,181	CH	73,979	CT	79%	MS	14%
FL	+2,862		GA	+26	MN	+25	CH	1,001,194	IL	23,379	PA	71,396	MO	77%	NM	13%
NC	+2,839		IL	+22	CO	+15	PA	990,150	GA	18,556	KY	66,982	MI	77%	MO	12%
NY	+2,796		SC	+20	NJ	+12	NC	898,102	CH	18,339	IL	66,782	FL	77%	NJ	12%
PA	+1,494		NY	+18	IL	+11	NJ	869,037	MI	16,912	AZ	57,653	DC	77%	ID	12%
+31,229			+470		+380		16,226,673		313,456		1,129,447					
All states	+50,584		+590		+142		All states	29,869,514	542,949		2,007,777		All states	70%	67%	
Top ten	62%		80%		268%		Top ten	54%	58%		56%		Median	71%	9%	

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-1,125	NJ	-33	TX	-64	ME	+109 bp
NY	-939	IN	-19	NC	-27	RI	+97 bp
GA	-872	AZ	-12	WA	-24	NH	+41 bp
MA	-605	PA	-11	TN	-17	CT	+40 bp
SC	-571	SC	-10	NJ	-16	MA	+35 bp



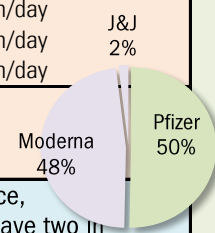
Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

US overall	Over last day	Share pop full immunization
164.31 million doses distributed	+0.00 million/day	United States 13.4%
132.11 million doses administered	+2.09 million/day	United Kingdom 3.4%
85.94 million persons partially immunized	+1.39 million/day	France 3.6%
46.93 million persons fully immunized	+0.80 million/day	Spain 4.5%
7.67 million shots long-term care residents/staff	+0.01 million/day	Germany 4.0%
		Italy 4.2%
		Australia 0.5%
		Israel 53.1%
		Canada 1.7%
		Japan 0.0%
		Africa 0.2%
		India 0.6%
		Brazil 1.7%

80.4% of distributed doses administered
 25.7% of US pop partial
 100% of LTC partial

14.0% full immunity
 62.6% full immunity



At today's dosing pace, every American will have two in 250 days by Nov 27, 2021

US will achieve herd immunity in 96 days by Jun 26, 2021

State	Best
Doses distributed as % population	Best
Partial immunity as % population	Middle
Full immunity as % population	Worst

AK
71.2%
31.5%
20.1%

Global data differs due to sources

China NA	ME
	50.6%
	29.7%
	16.4%

WI	VT	NH
44.9%	55.0%	47.9%
27.0%	28.8%	28.0%
15.6%	15.1%	14.0%

WA	ID	MT	ND	MN	IL	MI	NY	MA
47.1%	43.9%	51.6%	51.3%	45.2%	46.6%	45.5%	49.3%	48.2%
25.8%	22.4%	26.6%	29.0%	27.2%	26.1%	24.5%	26.1%	29.1%
14.6%	14.0%	16.0%	17.0%	15.4%	14.2%	13.9%	12.7%	15.5%

OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
45.9%	43.8%	54.3%	58.9%	47.0%	44.0%	47.4%	48.9%	46.7%	53.3%	48.5%
24.2%	24.1%	23.3%	30.4%	26.8%	22.1%	24.5%	25.1%	28.3%	30.3%	29.3%
14.0%	13.5%	14.8%	18.7%	16.3%	14.4%	14.1%	12.8%	14.7%	16.9%	15.8%

CA	UT	CO	NE	MO	KY	WV	VA	MD	DE
47.8%	41.2%	46.6%	48.7%	46.4%	46.4%	52.4%	44.8%	47.4%	49.9%
25.5%	21.7%	24.8%	26.6%	22.6%	27.3%	26.5%	25.8%	25.9%	25.8%
12.9%	9.6%	15.3%	15.3%	12.2%	14.1%	16.0%	14.3%	14.1%	13.7%

AZ	NM	KS	AR	TN	NC	SC	DC
47.6%	56.5%	49.8%	48.6%	46.1%	47.0%	43.4%	63.1%
25.2%	33.3%	25.5%	22.5%	21.3%	25.3%	23.3%	21.3%
14.4%	20.3%	13.5%	11.6%	11.2%	13.9%	12.8%	10.6%

OK	LA	MS	AL	GA
56.6%	46.6%	47.7%	44.4%	42.9%
27.3%	23.1%	22.0%	19.8%	19.4%
14.8%	13.5%	12.4%	11.6%	11.0%

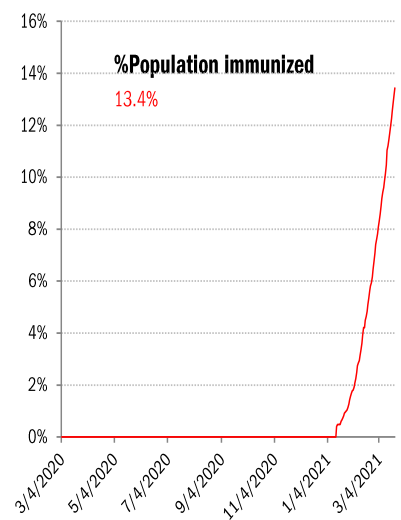
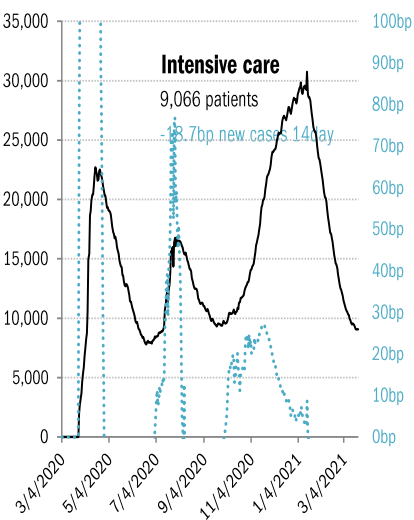
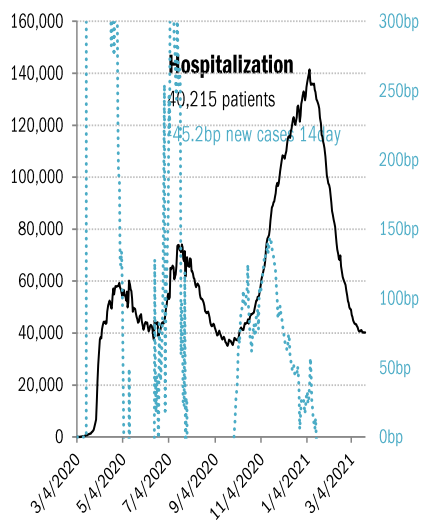
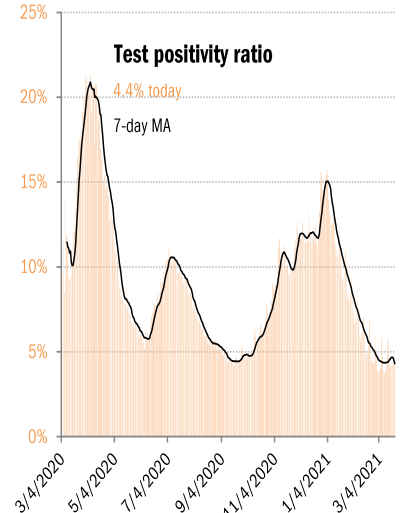
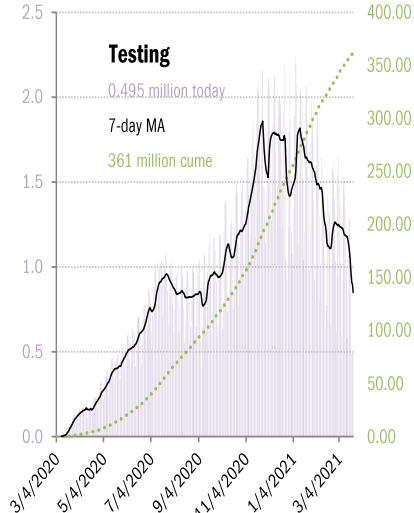
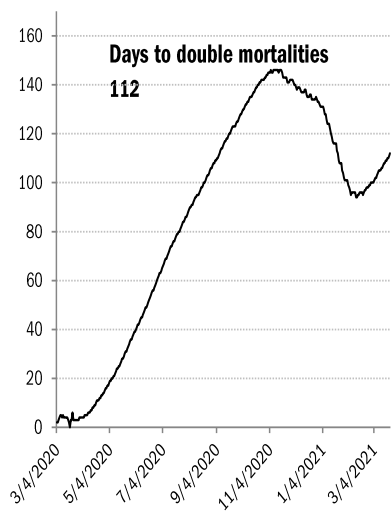
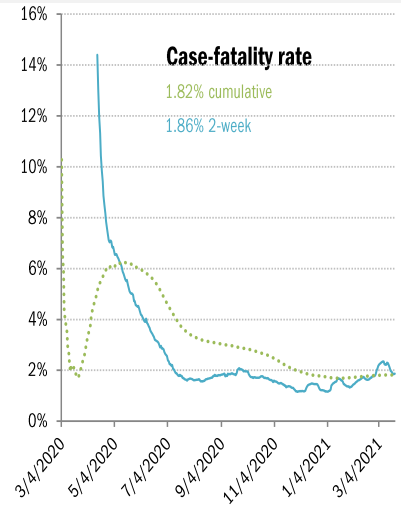
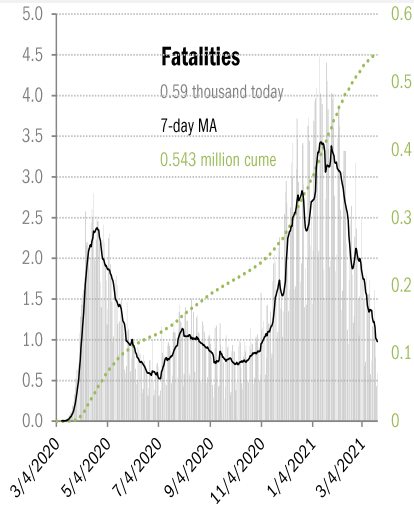
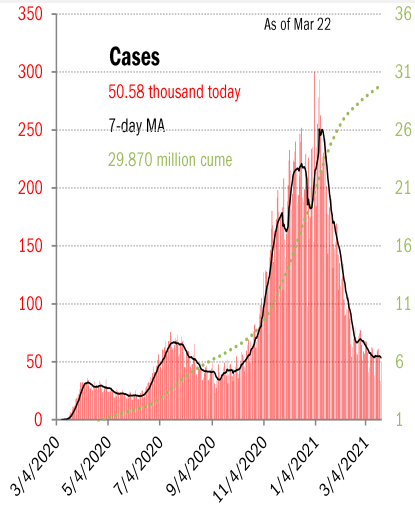
HI	TX	FL	PR
54.2%	43.5%	49.8%	51.7%
27.6%	22.0%	23.8%	18.0%
16.4%	11.0%	13.3%	10.4%

As of Mar 22

Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

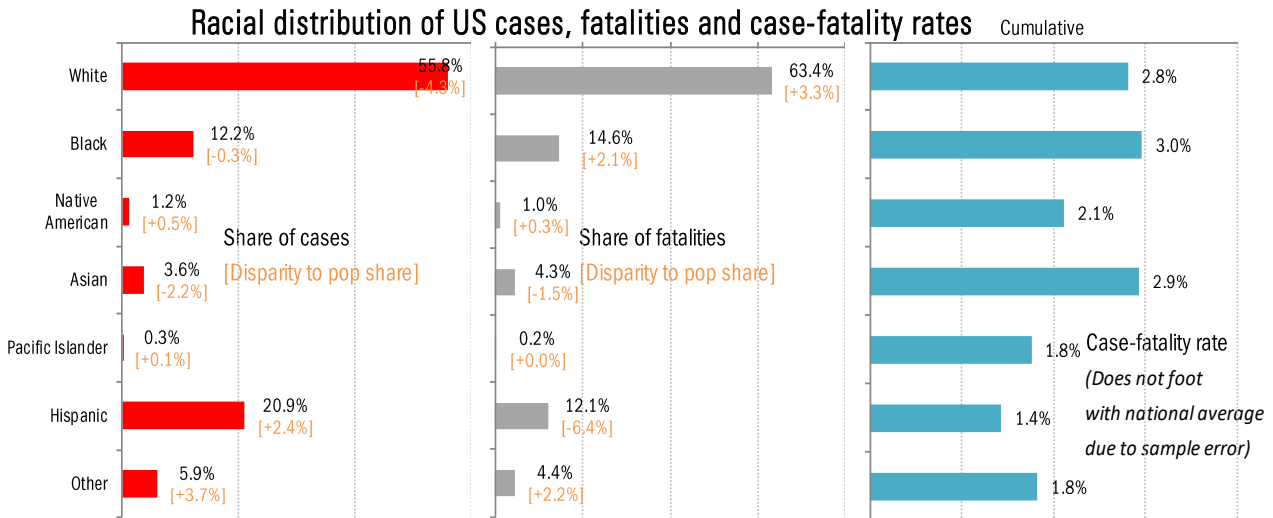
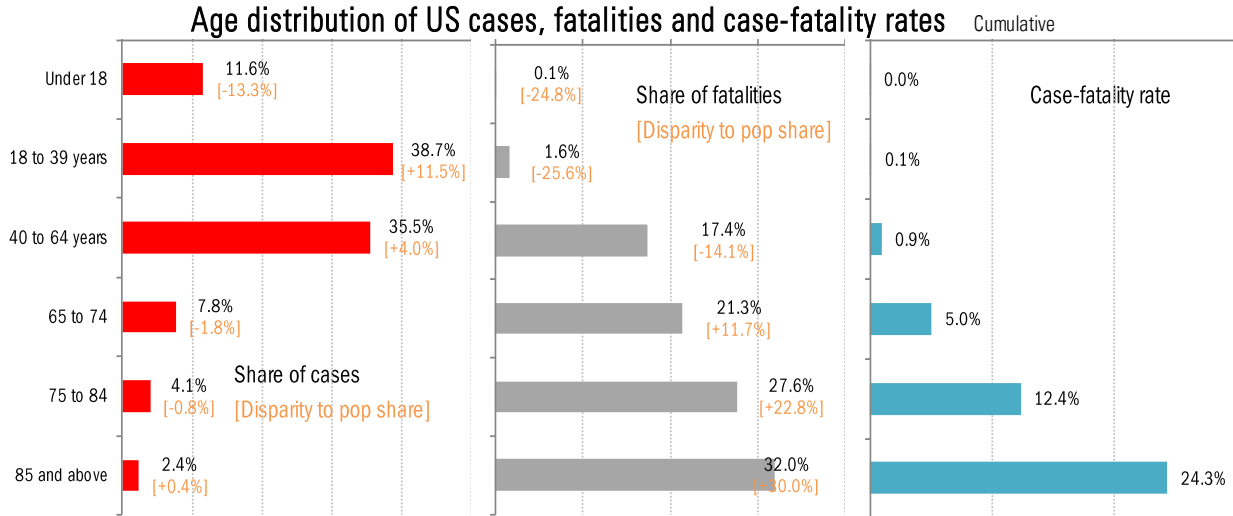
US deep-dive

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

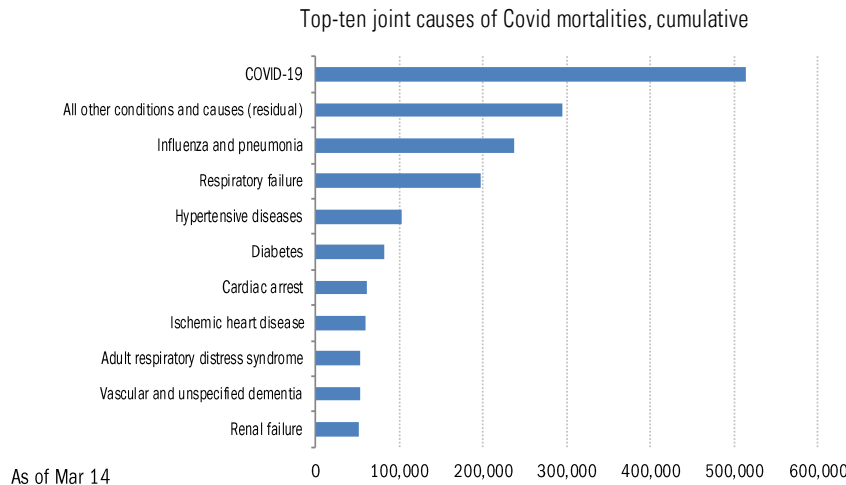


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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



Comorbidities



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 3.8 additional conditions or causes per death.

Source: Distributions [CDC](#), Comorbidities [CDC](#), TrendMacro calculations

Recommended reading

[U.S. Health Officials Raise Concerns Over AstraZeneca Vaccine Data](#)

Jenny Strasburg and Cecilia Butini
Wall Street Journal
March 23, 2021

[The Dubious Origins of Long Covid](#)

Jeremy Devine
Wall Street Journal
March 22, 2021

[First Covid, Then Psychosis: 'The Most Terrifying Thing I've Ever Experienced'](#)

Pam Belluck
New York Times
March 22, 2021

[Studies Find that Masks Work](#)

Paul Mirengoff
Power Line Blog
March 22, 2021

[Aspirin Use Is Associated With Decreased Mechanical Ventilation, Intensive Care Unit Admission, and In-Hospital Mortality in Hospitalized Patients With Coronavirus Disease 2019](#)

Jonathan H. Chow et al.
Anesthesia & Analgesia
April 2021

[Review of Paper Claiming 20% of Infected Are Vulnerable to Reinfection](#)

Mike Hearn
Lockdown Sceptics
March 21, 2021

[When does it end?](#)

Washington Examiner
March 22, 2021

[Johnson lobbies EU leaders in bid to avert vaccine export blocks](#)

George Parker Michael Peel and Sam Fleming
Financial Times
March 21, 2021

[The Lyric Brings the Ring Underground, Literally](#)

Graham Meyer
Chicago Magazine
March 18, 2021

[Astra Vaccine 79% Effective in U.S., Shows No Safety Issues](#)

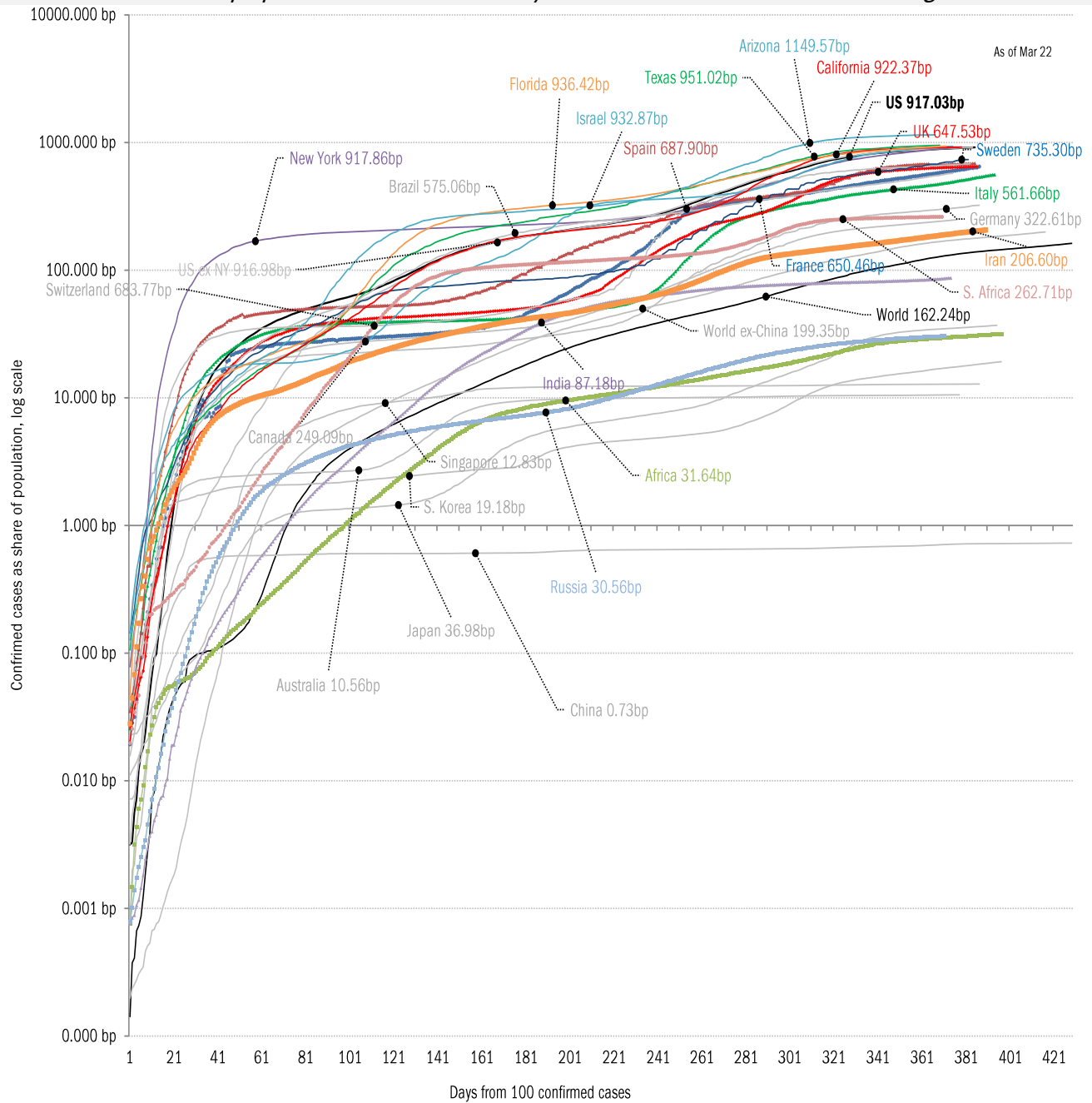
James Paton and Suzi Ring
Bloomberg
March 22, 2021

Meme of day



Source: Our beloved clients, and [Power Line blog "The Week in Pictures"](#)

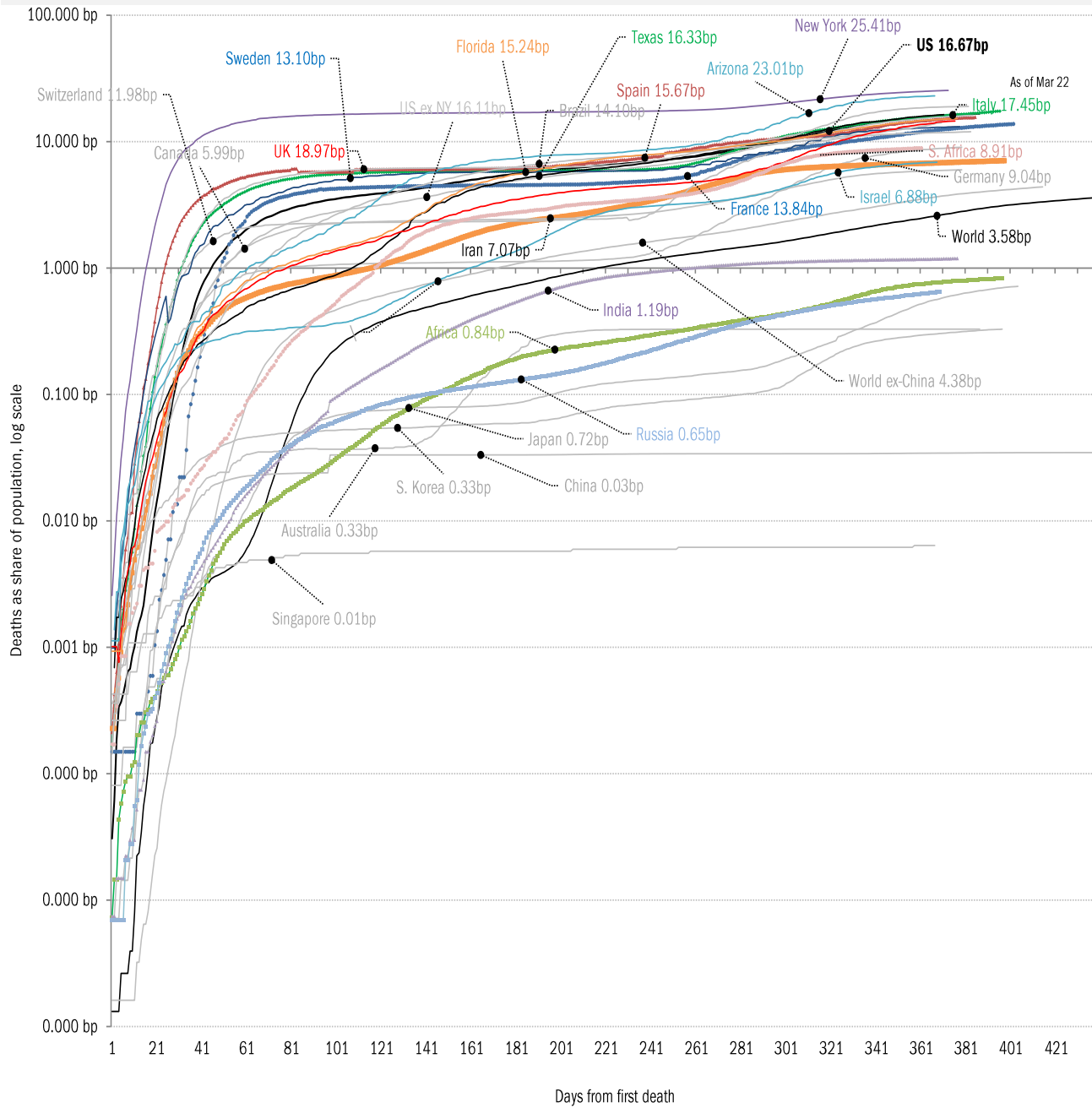
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [Johns Hopkins](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

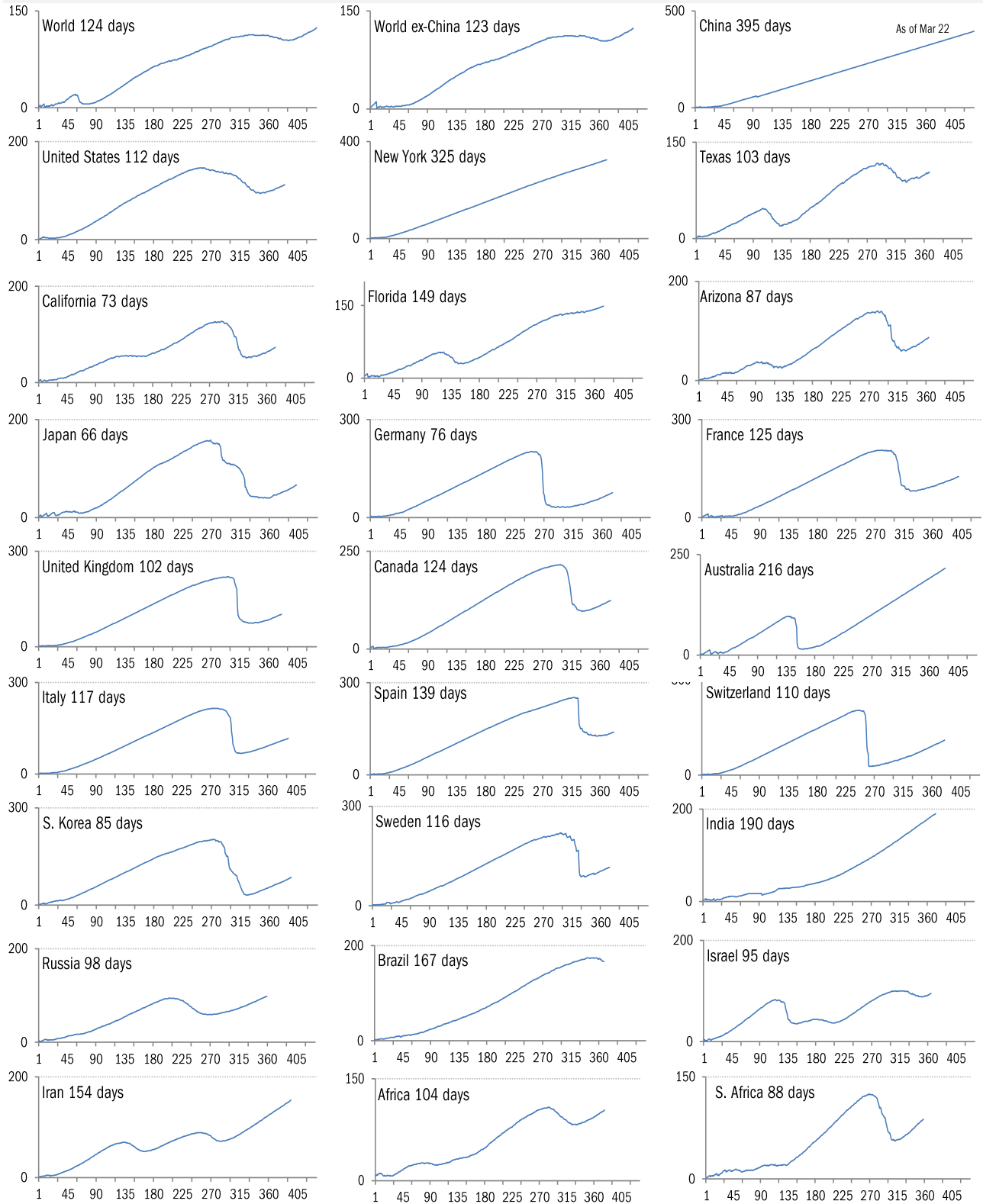


Source: [Johns Hopkins](#), TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-19

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

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

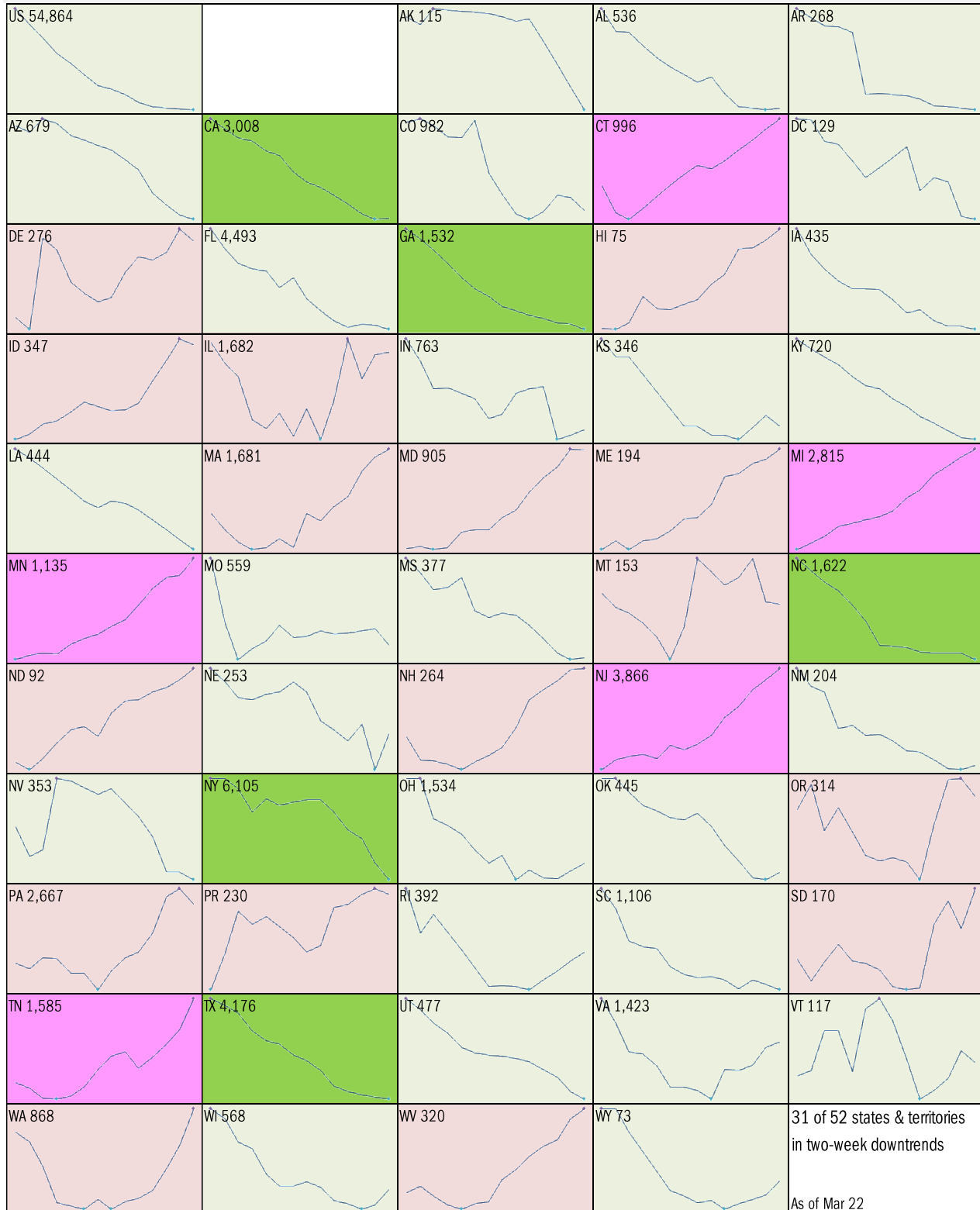


Source: [Johns Hopkins](#), TrendMacro calculations

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

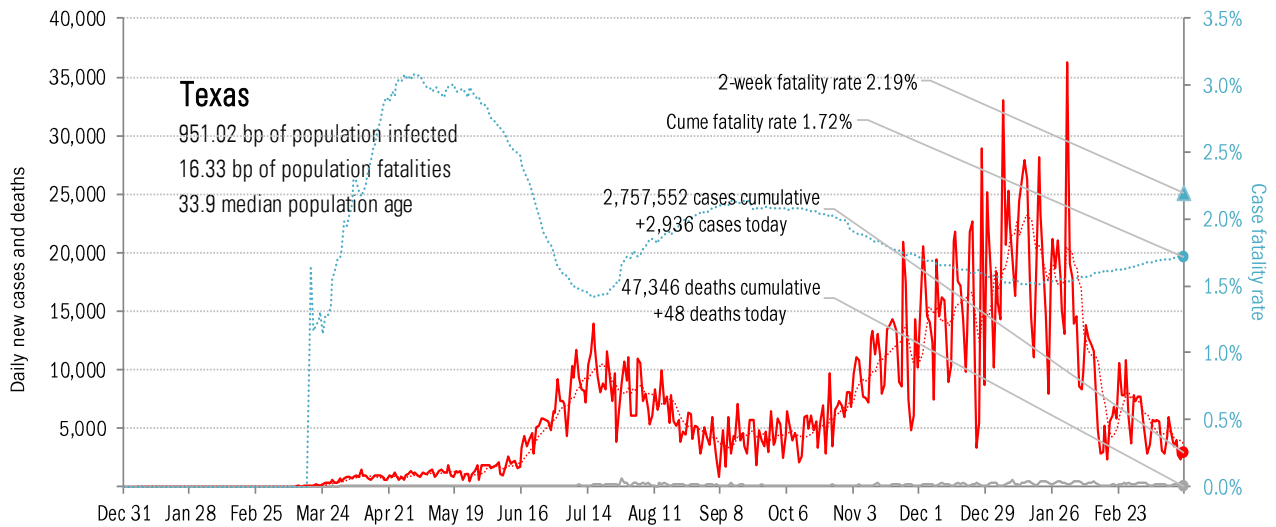
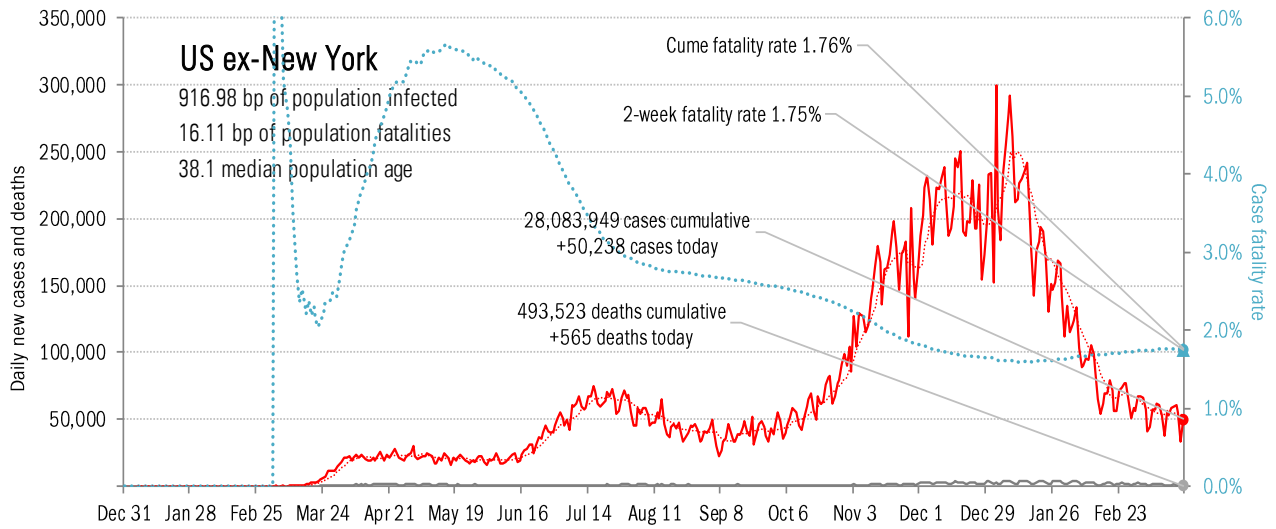
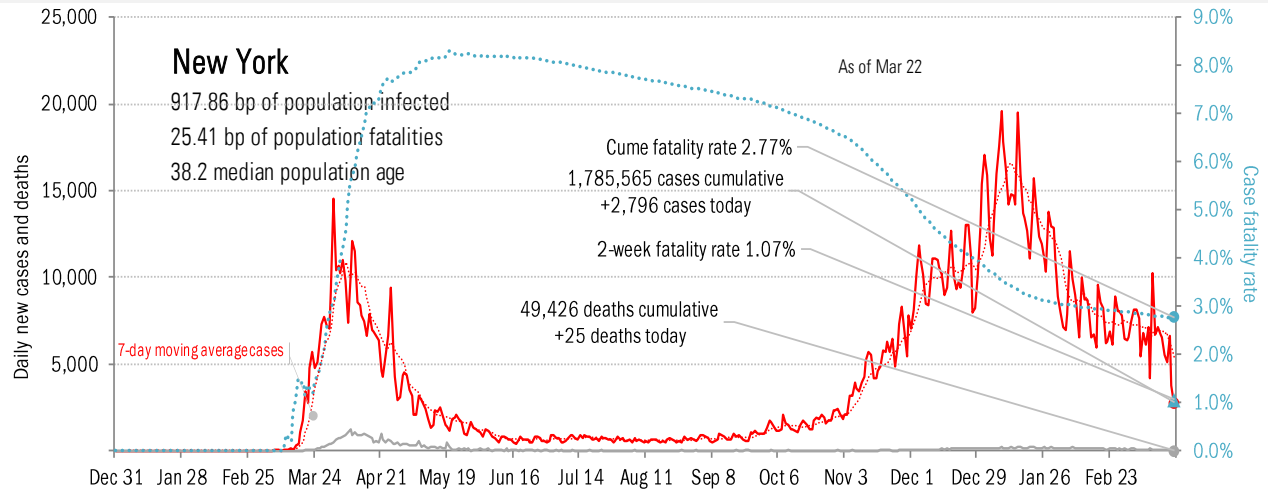
14-day moving average, last 14 days Most recent value displayed ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



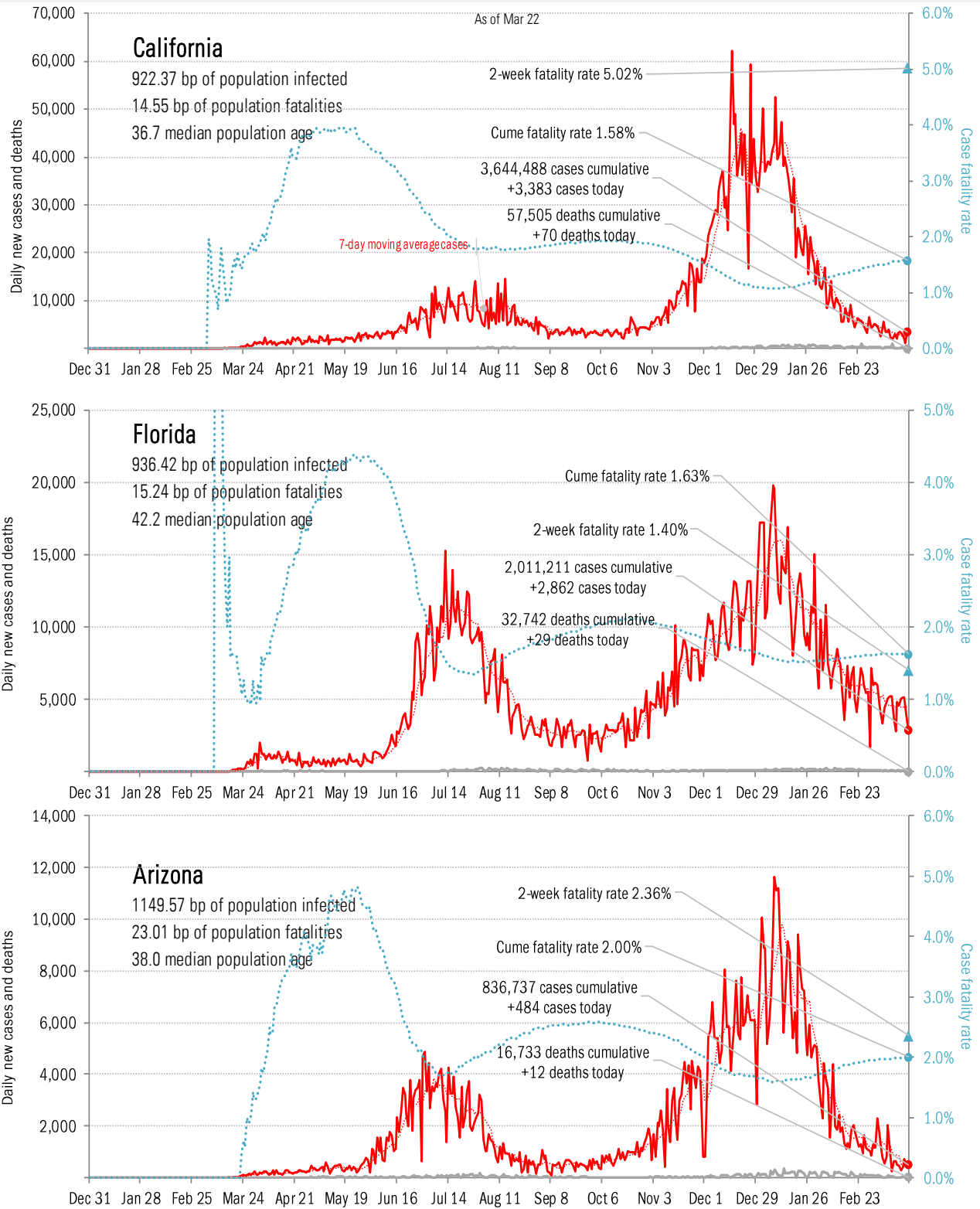
Source: [Covid Act Now](#), TrendMacro calculations

From Ground Zero to the Rio Grande



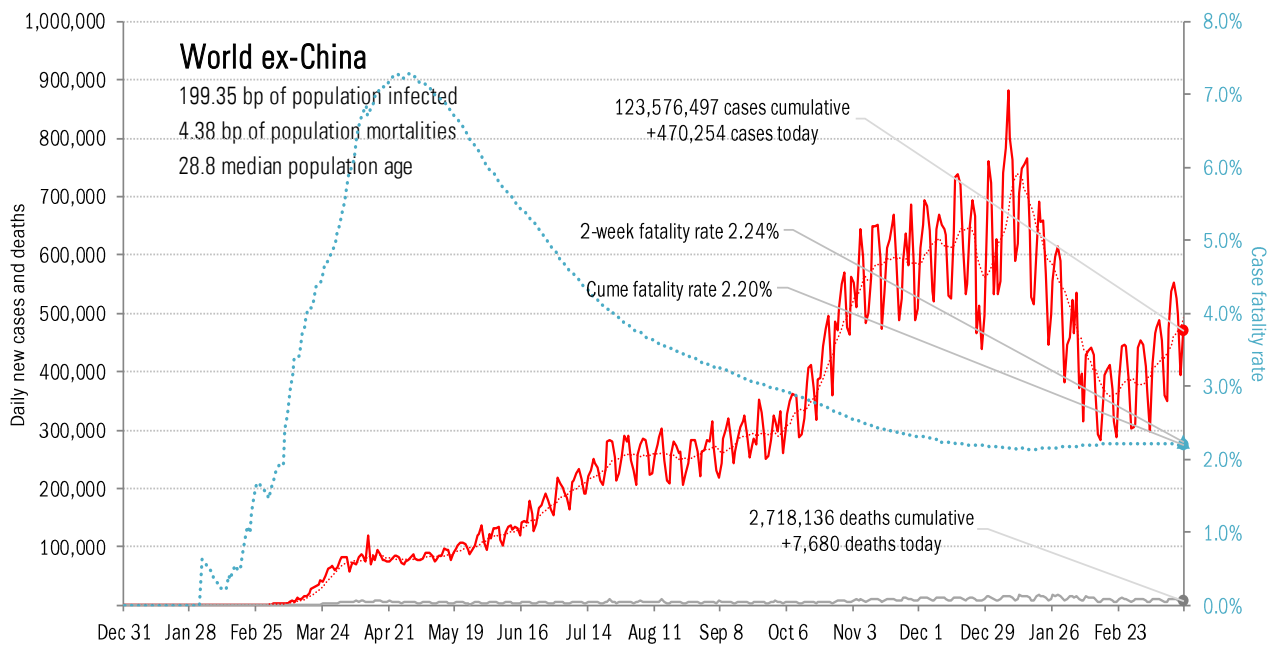
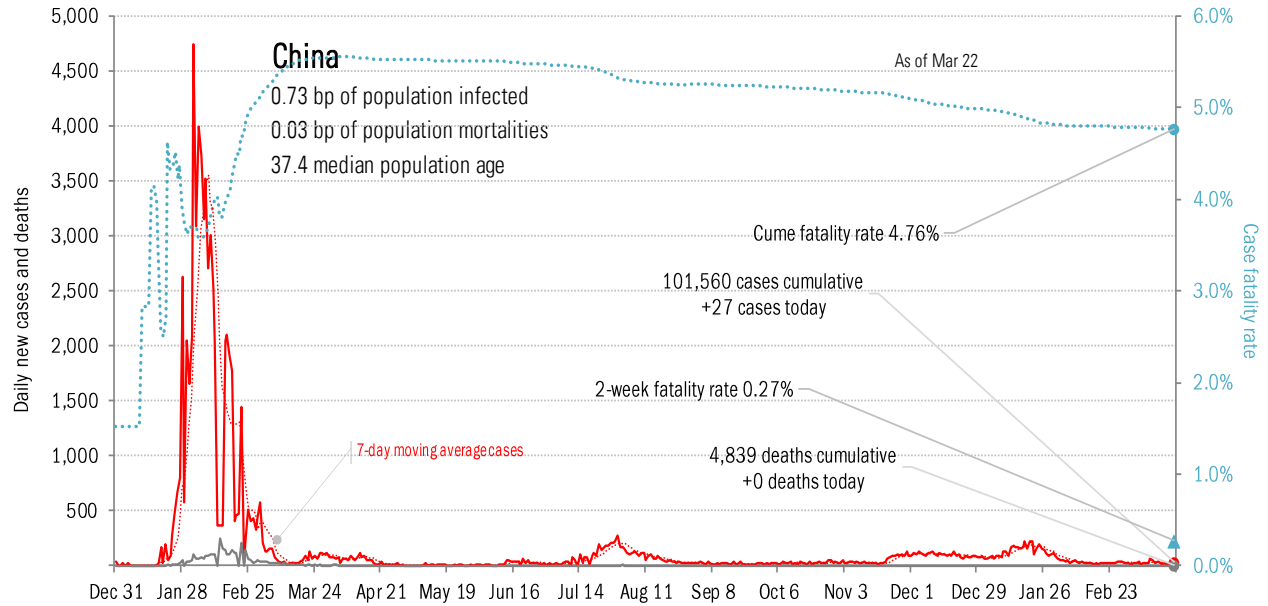
Source: [Johns Hopkins](#), TrendMacro calculations

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



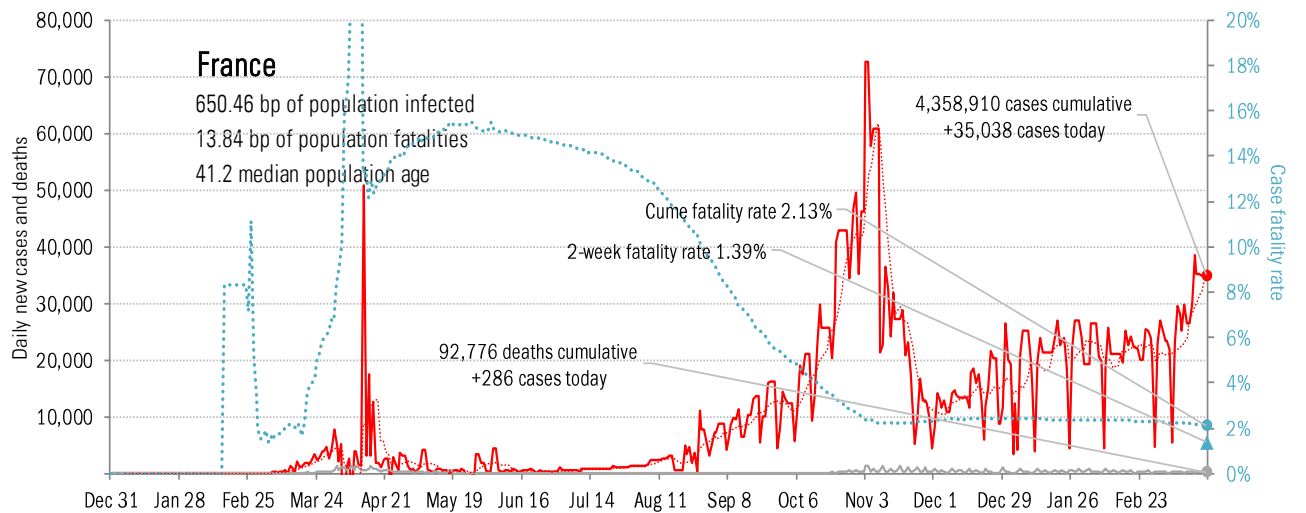
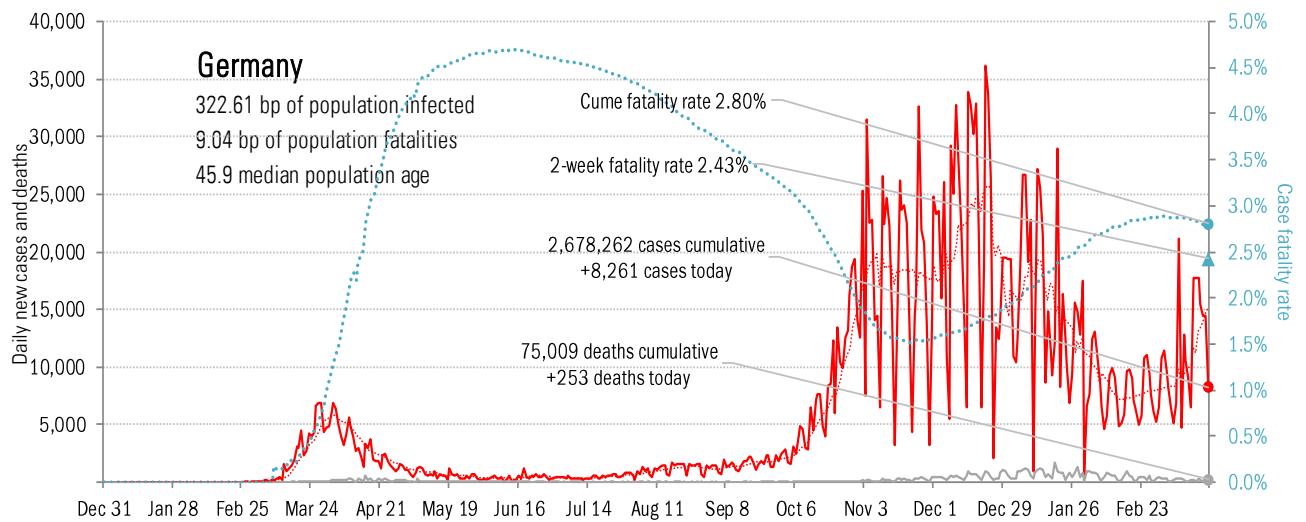
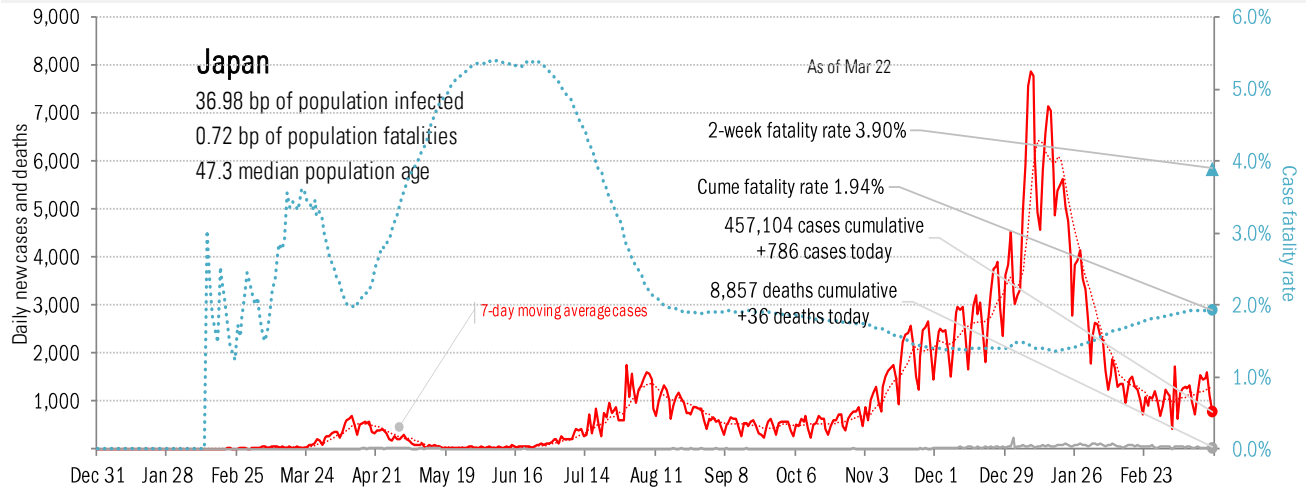
Source: [Johns Hopkins](#), TrendMacro calculations

Patient zero... and then everyone else



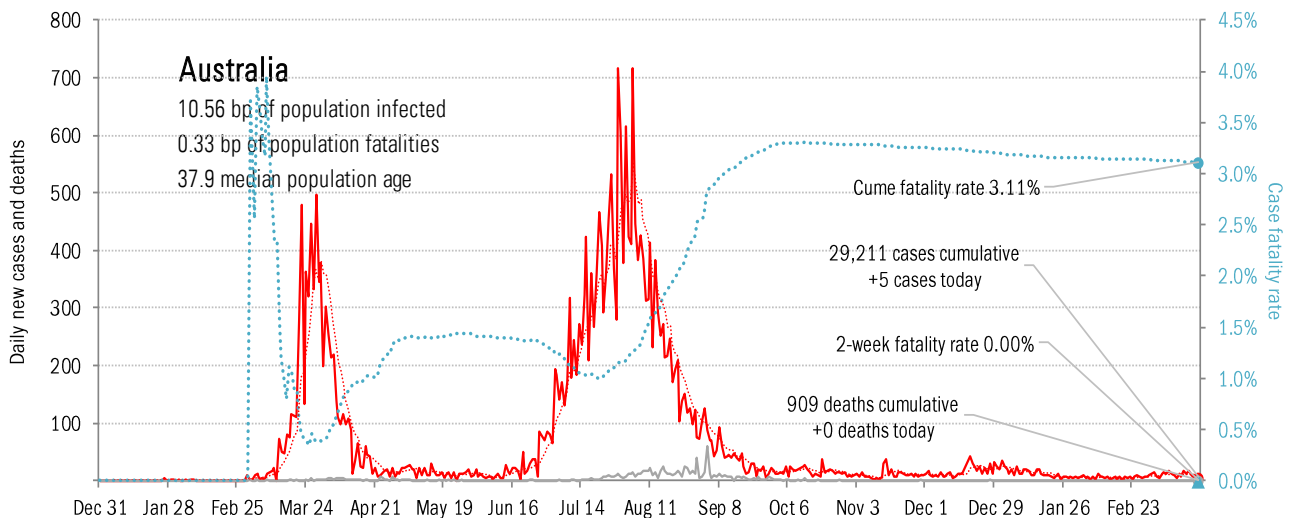
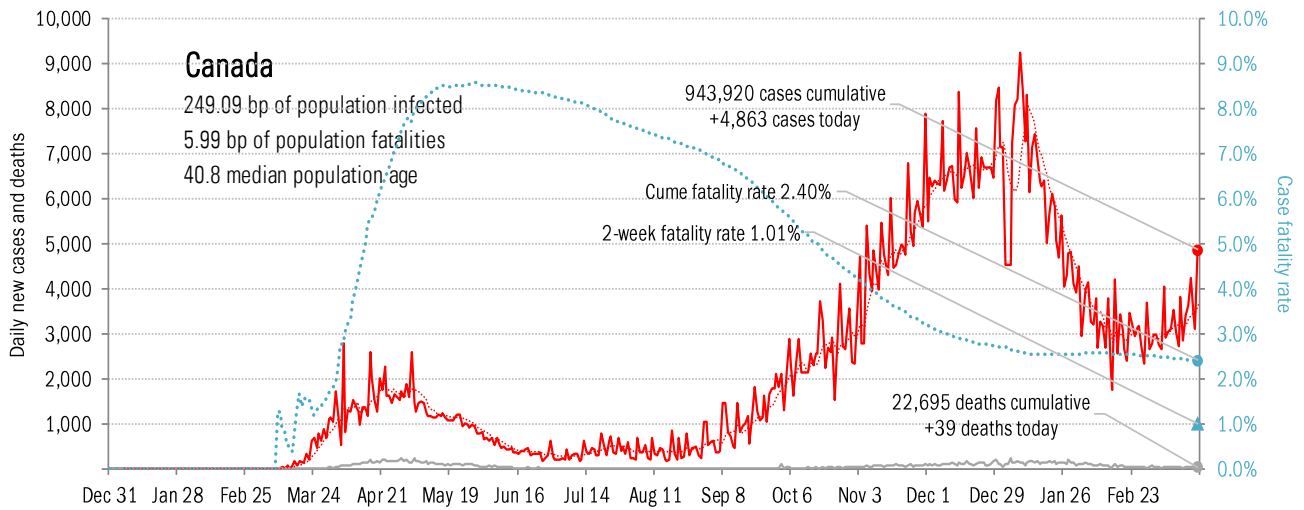
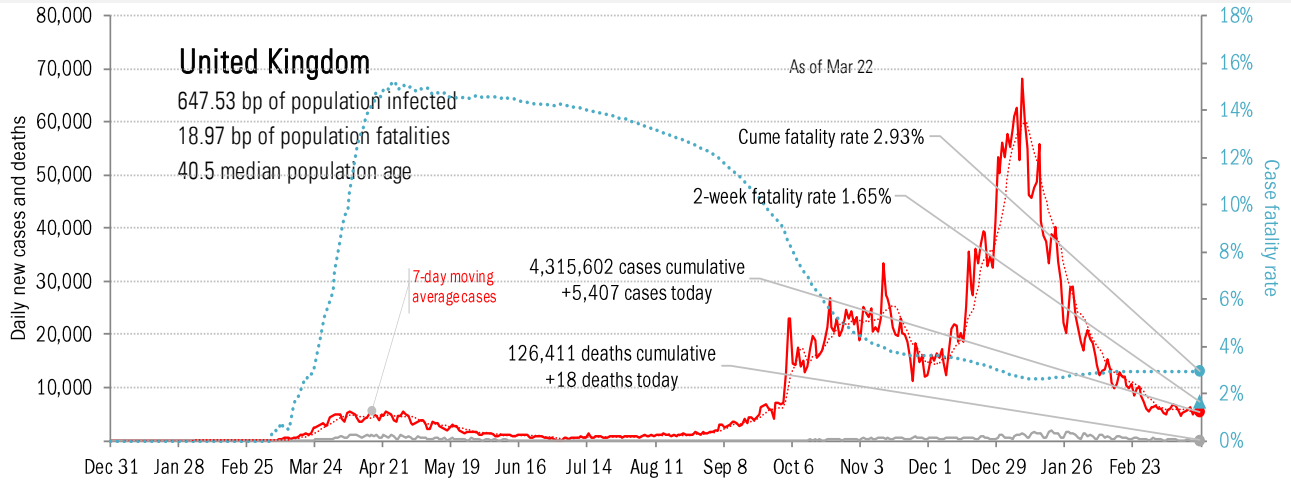
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the largest economies



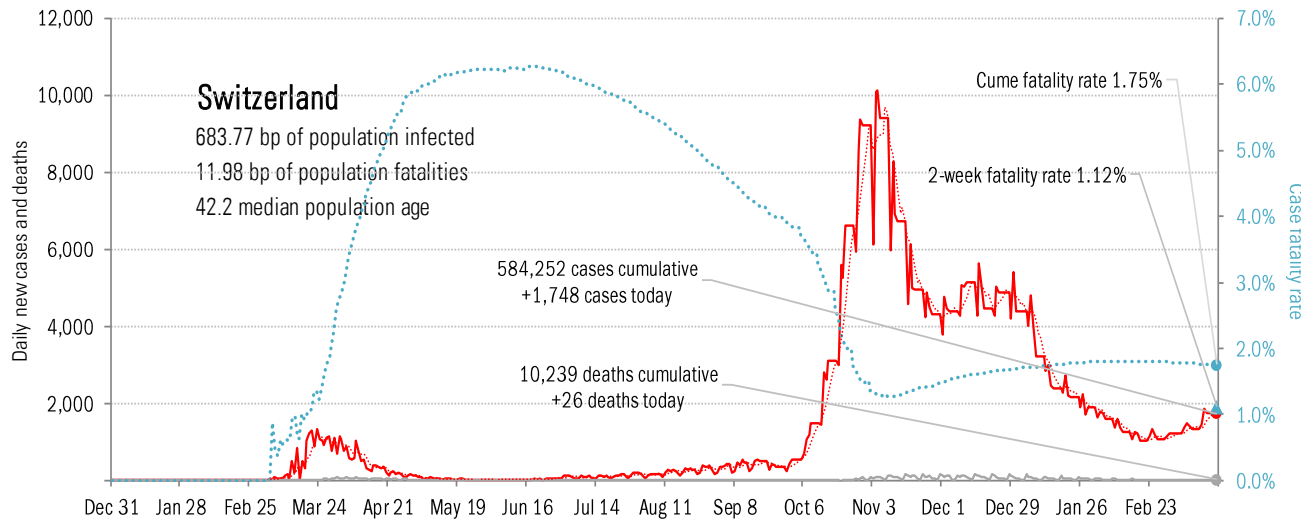
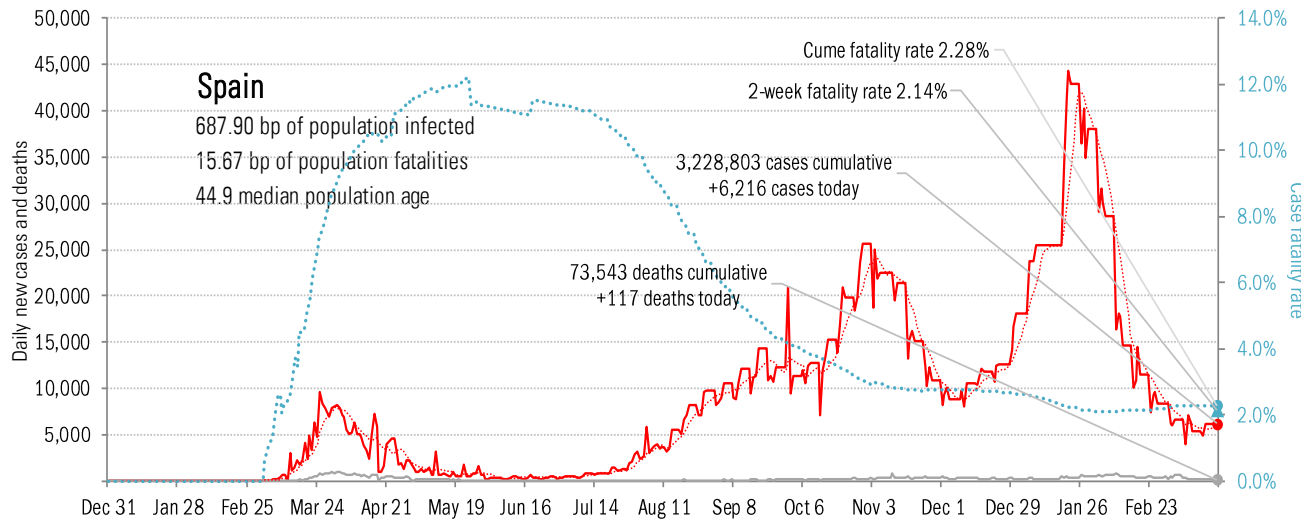
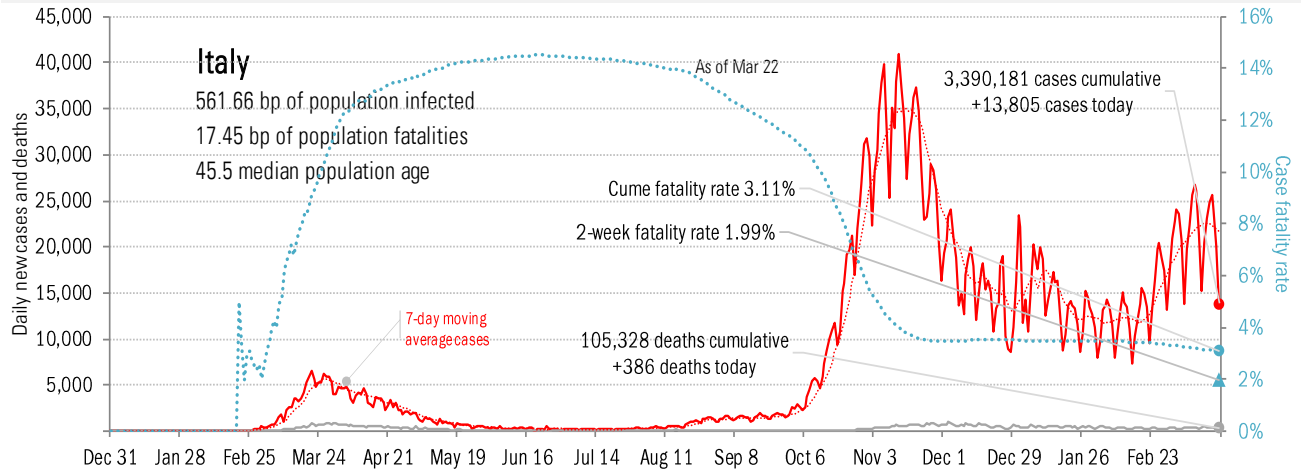
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in The Anglosphere



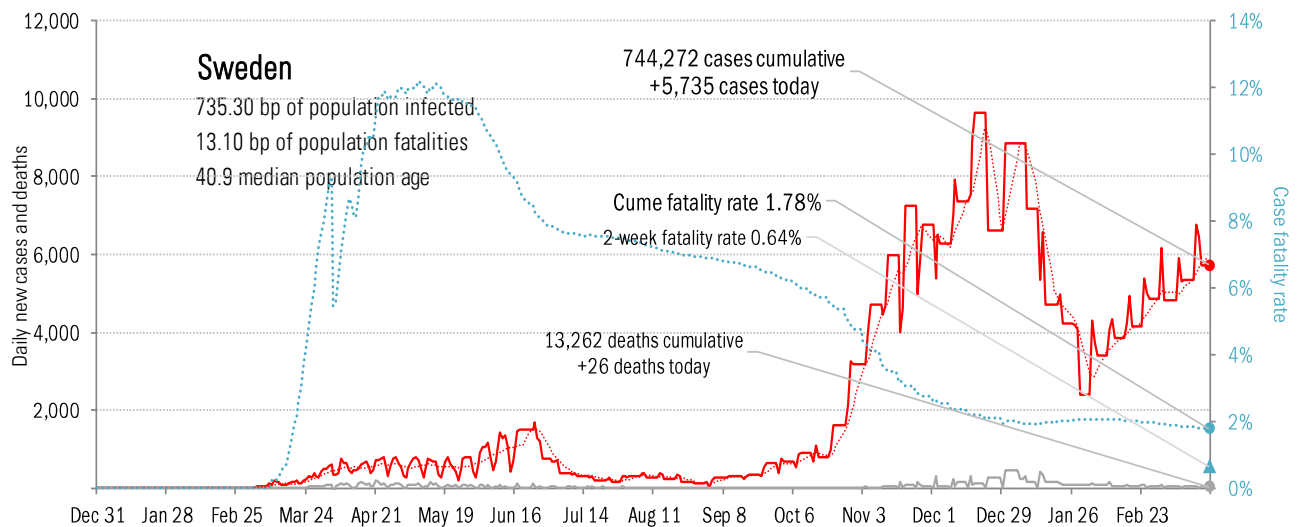
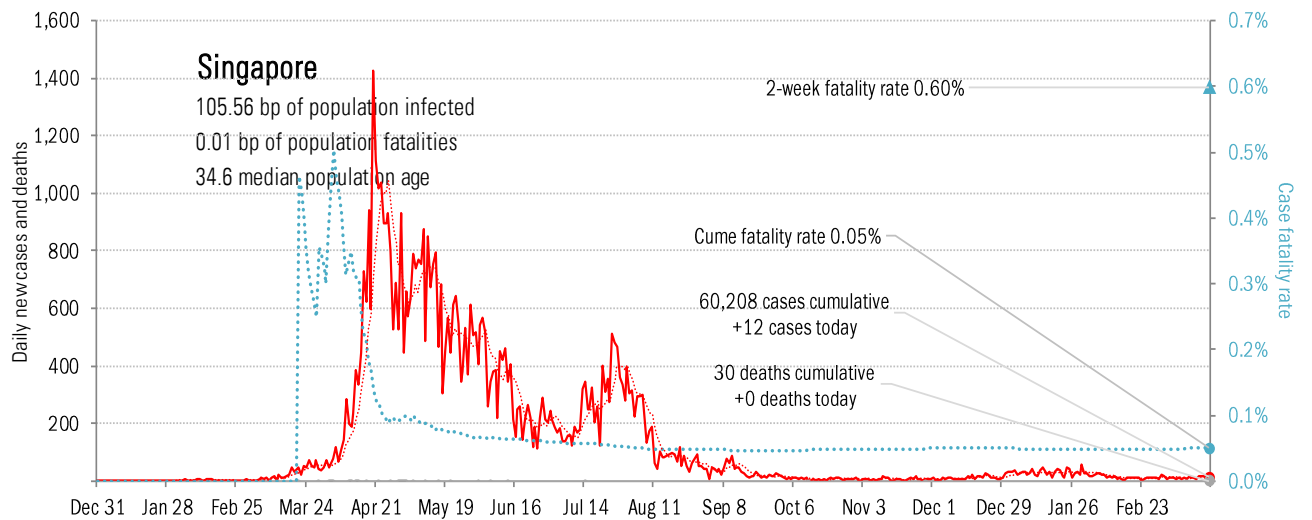
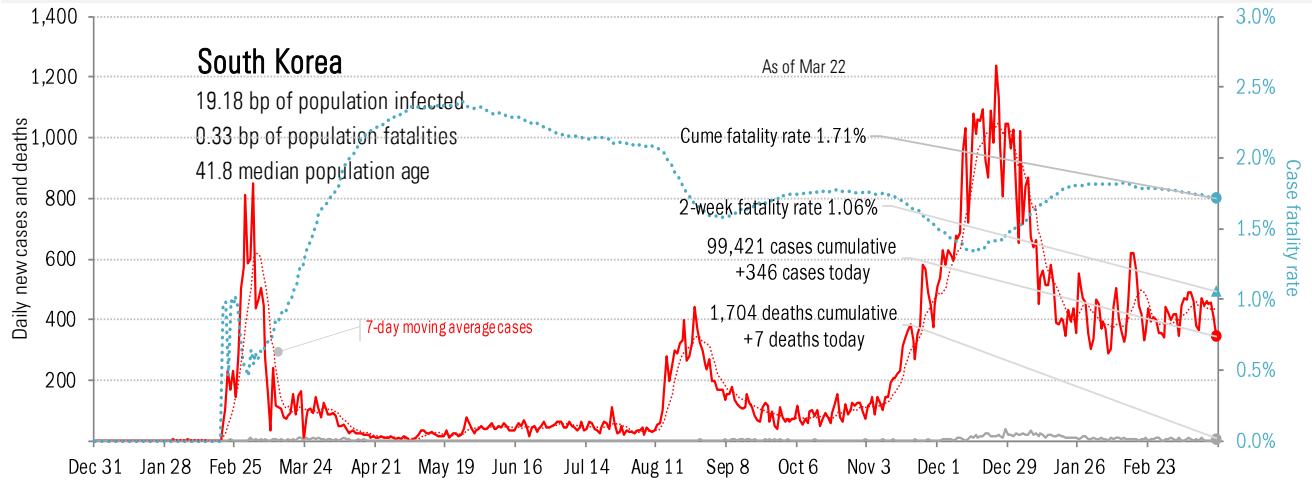
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in continental Europe



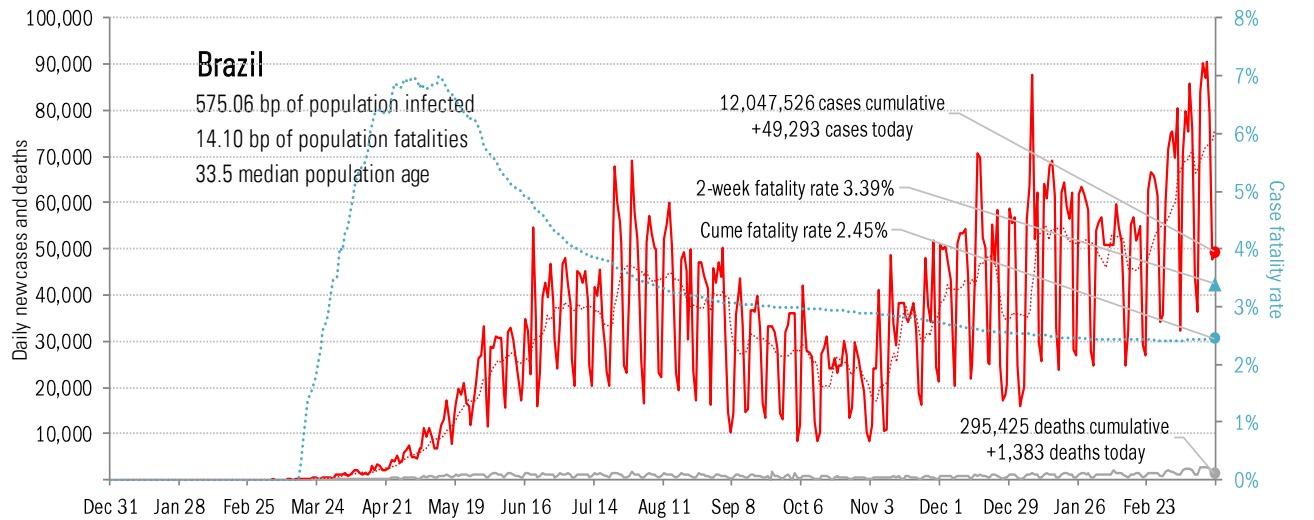
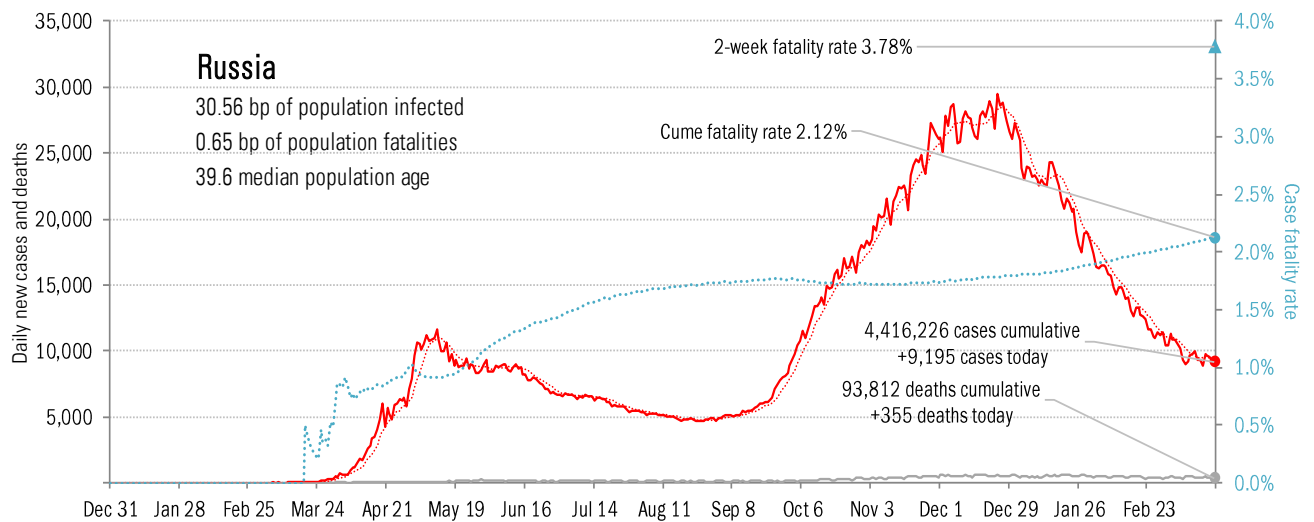
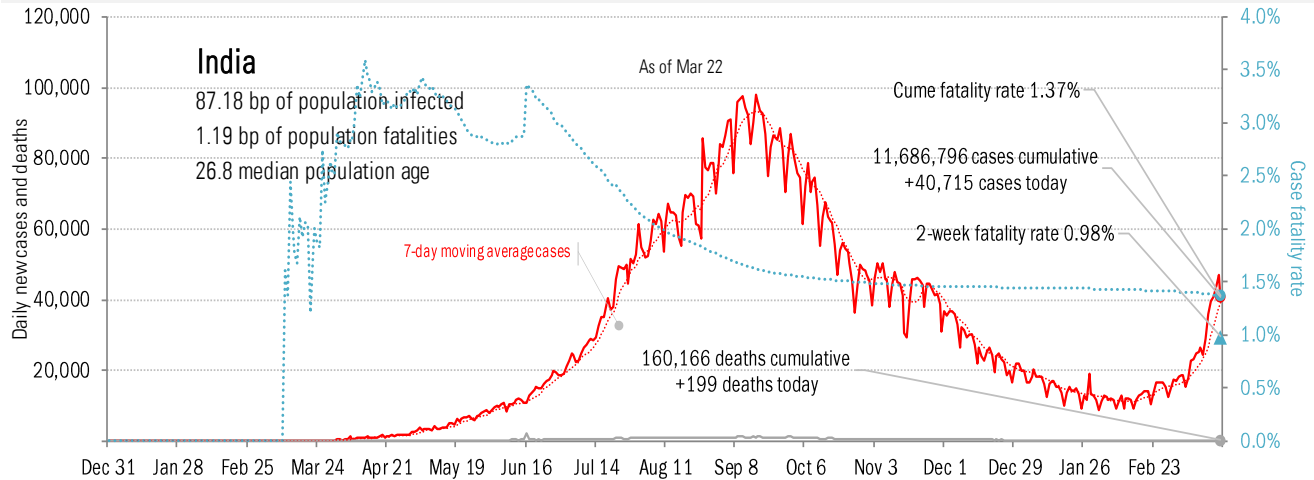
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in other hot-spots



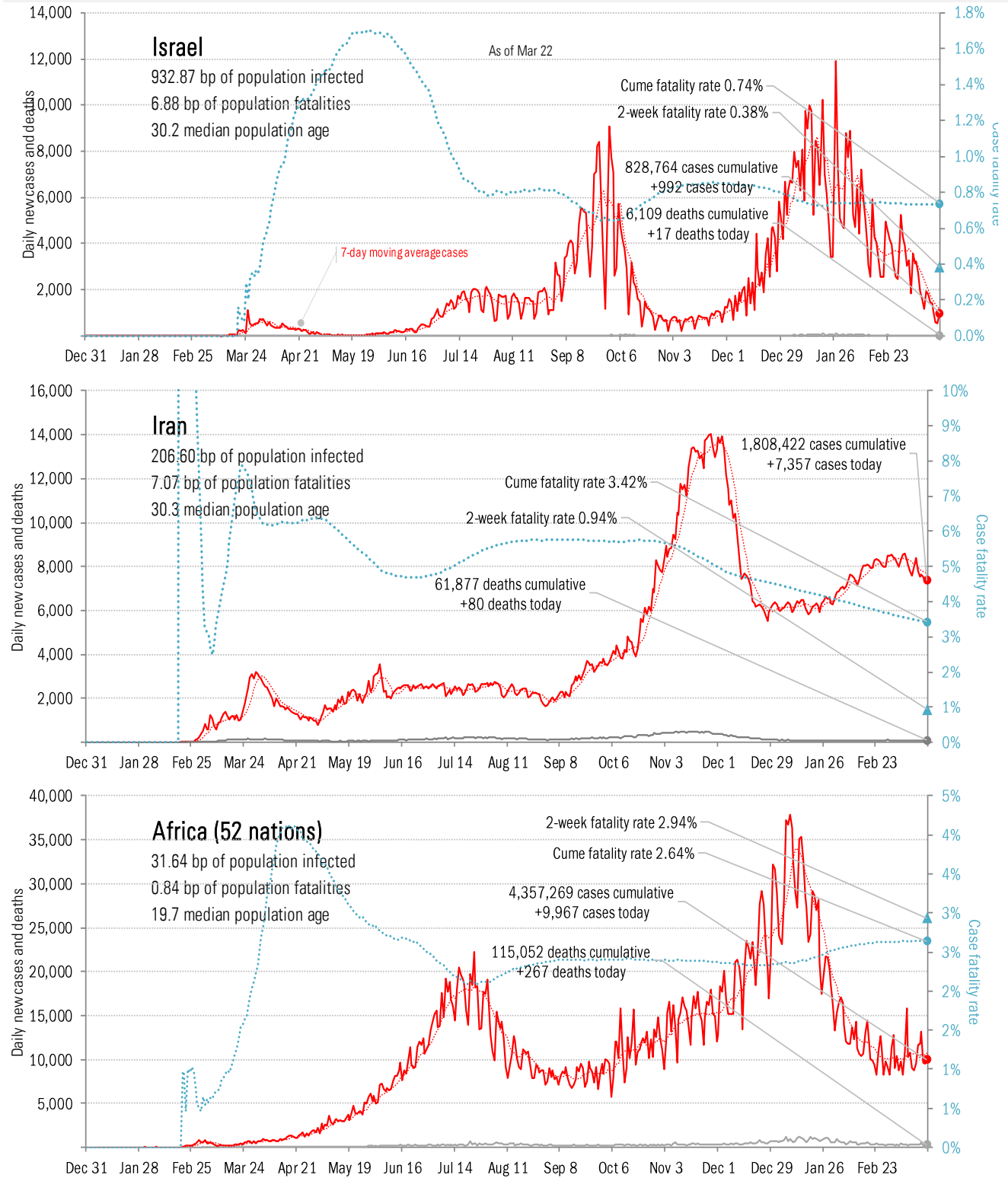
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the BRICs ex-China



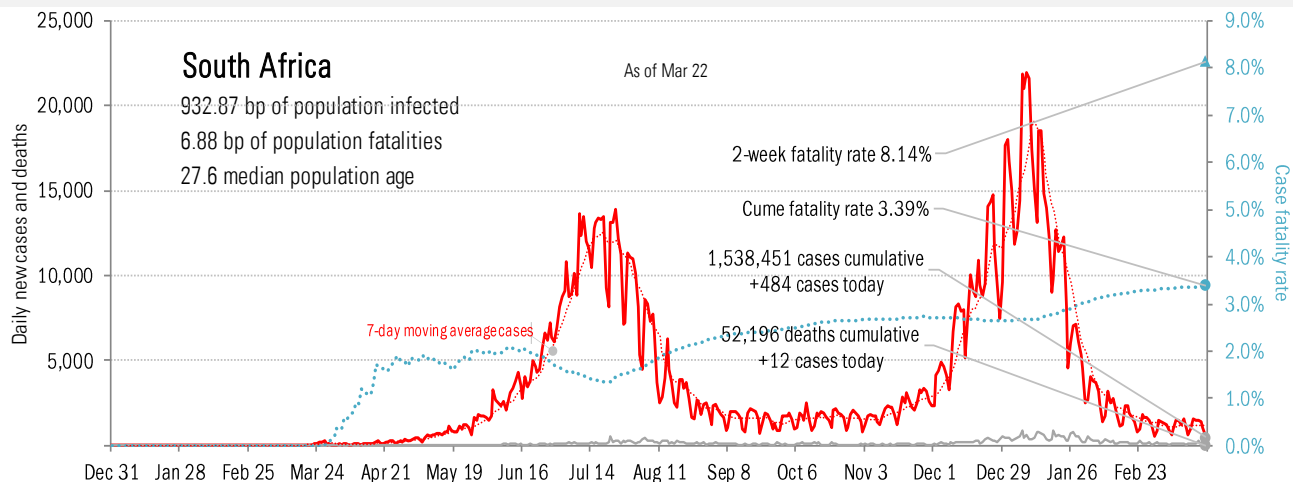
Source: [Johns Hopkins](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations

Impact in Africa, continued



Source: [Johns Hopkins](#), TrendMacro calculations