

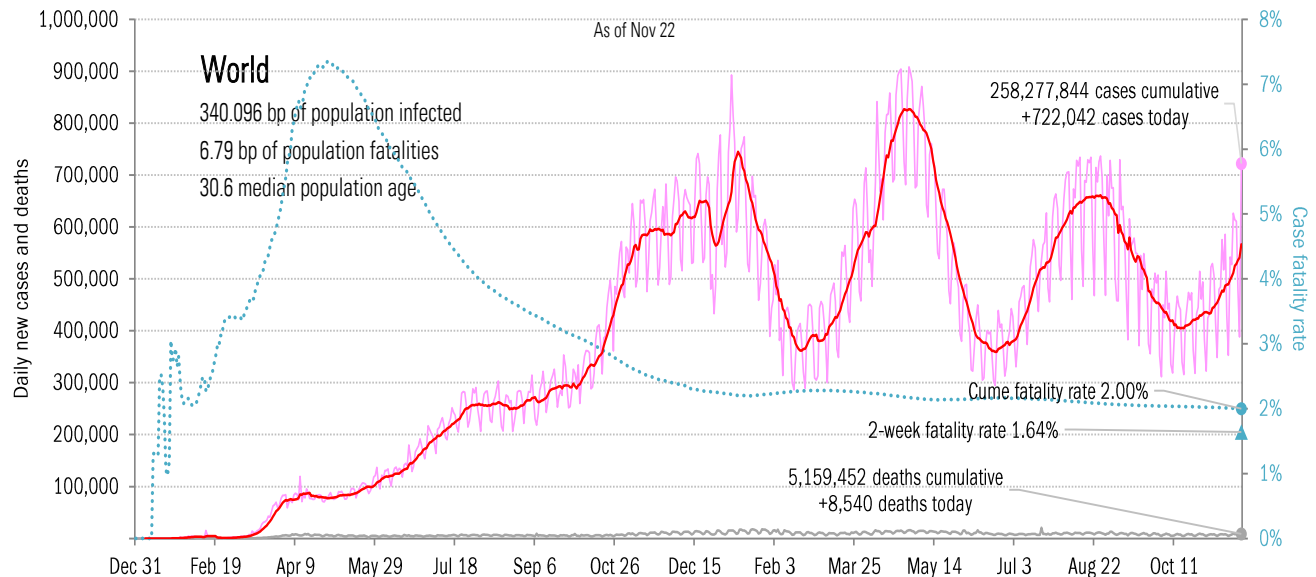
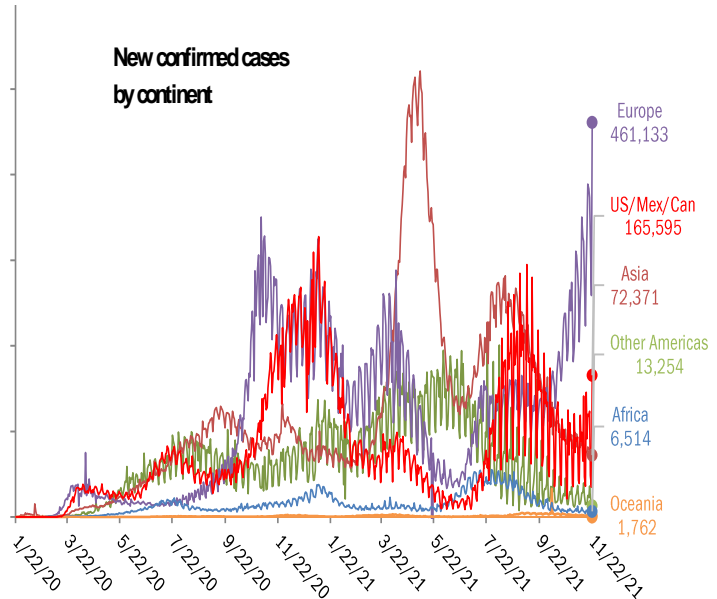
## Data Insights: Covid-2019 Monitor

Tuesday, November 23, 2021

### The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+158,993	France	+1,429
France	+93,697	Russia	+1,212
Germany	+47,887	United States	+1,203
United Kingdom	+45,653	Hungary	+392
Belgium	+42,060	Ukraine	+355
Russia	+34,533	Germany	+307
Hungary	+27,209	Bulgaria	+254
Turkey	+24,856	India	+236
Netherlands	+23,024	Czechia	+225
Czechia	+22,778	Philippines	+214
<b>+520,690</b>		<b>+5,827</b>	
World +722,042		World +8,540	
Top ten 72%		Top ten 68%	



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

### For more information contact us:

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 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

Cases: 7-day average and daily Deaths: Daily

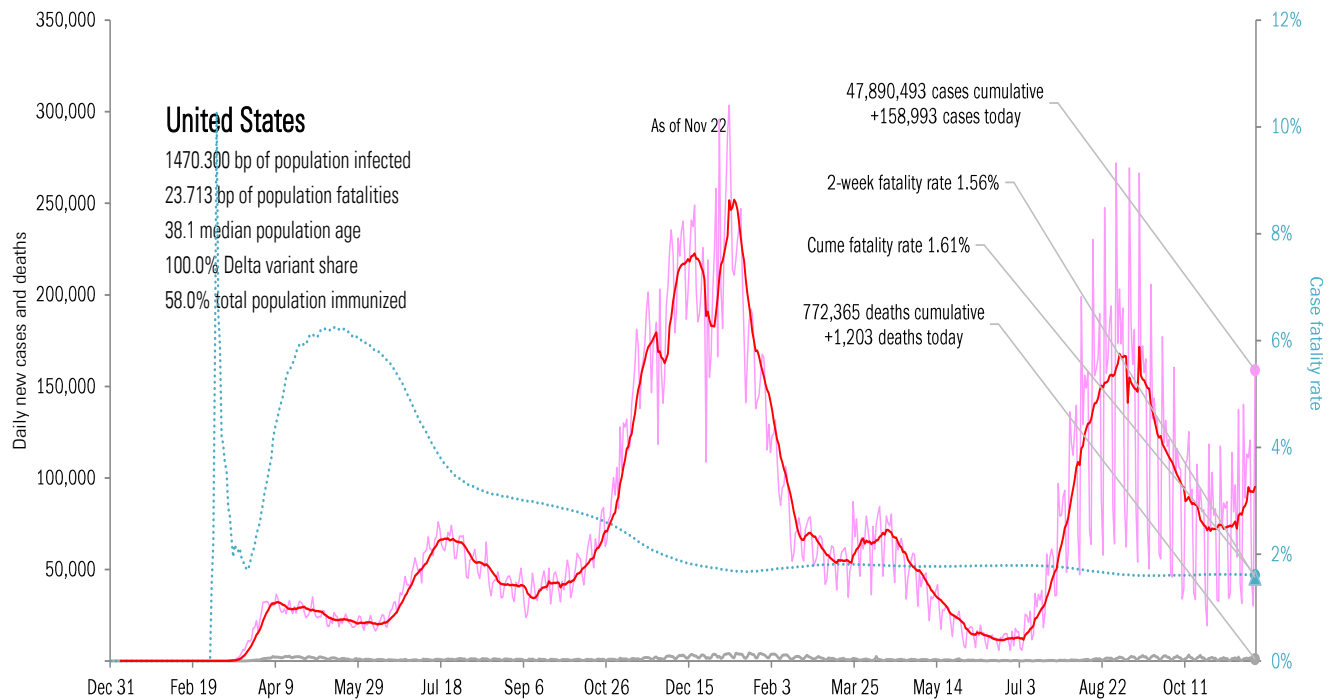
## The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
MI	+18,772		CA	+125		GA	+75		CA	5,049,468		CA	73,856		TX	381,387		RI	88%	NM	92%
CA	+11,535		CR	+103		PA	+74		TX	4,311,138		TX	73,424		FL	322,212		MI	86%	RI	89%
IL	+11,387		KY	+101		MI	+72		FL	3,723,825		FL	61,168		CA	317,979		NV	85%	TX	87%
IN	+7,922		MI	+87		IN	+29		NY	2,679,503		NY	57,215		NY	169,479		MA	84%	MI	86%
WI	+7,707		GA	+74		NM	+28		IL	1,775,253		PA	32,931		GA	162,498		WA	83%	DE	85%
MA	+7,141		CO	+73		VI	+28		PA	1,691,773		GA	30,236		CH	131,188		PA	83%	MN	84%
CO	+7,079		IN	+69		KS	+25		GA	1,656,992		IL	28,710		PA	123,375		MN	83%	PA	84%
PA	+5,604		VA	+56		NJ	+22		CH	1,647,237		NJ	28,265		KY	113,447		CT	82%	KY	83%
NC	+5,592		IL	+50		IL	+21		NC	1,520,471		CH	26,063		IL	108,538		MD	82%	NE	83%
NY	+5,303		TX	+46		MD	+21		MI	1,427,191		MI	24,928		MI	99,618		MO	81%	AK	83%
<b>+88,042</b>			<b>+784</b>			<b>+395</b>			<b>25,482,851</b>			<b>436,796</b>			<b>1,929,721</b>						
All states	+158,993			+1,203			+288		All states	47,890,493			772,365			3,463,635		All states	70%		67%
Top ten	55%			65%			137%		Top ten	53%			57%			56%		Median	75%		76%

Some states not reporting

## Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
NY	-3,138	MO	-73	MIN	-74	AZ	+10 bp
AZ	-380	NY	-7	KY	-71	CA	+10 bp
VT	-247	PA	-6	CH	-61	DC	+10 bp
MD	-174	MD	-2	NV	-42	H	+10 bp
DE	-99	ME	-1	WA	-39	IN	+10 bp

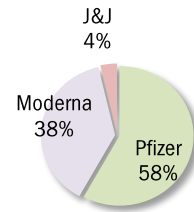


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	465,082,291	+1.220 million	US	58.0%	68.6%
Boosters	36,684,302	+0.675 million	UK	67.7%	74.5%
	<b>One dose</b>	<b>% Pop</b>	<b>Immune</b>	<b>% pop</b>	<b>New immune today</b>
Total population	236,537,500	71%	201,462,137	60%	+0.114 million
Age 12 to 17	14,573,650	61%	12,216,115	51%	+0.009 million
Age 18 to 64	161,309,794	79%	139,349,739	69%	+0.088 million
Age 65 and over	56,641,451	100%	48,950,604	89%	+0.016 million

France	69.1%	76.5%
Spain	80.3%	81.8%
Germany	67.4%	70.0%
Italy	73.1%	77.9%
Australia	71.4%	76.9%
Israel	62.1%	67.5%
Canada	75.9%	79.3%
Japan	76.5%	79.0%
Africa	7.0%	10.4%
India	29.2%	55.2%
Brazil	60.0%	75.9%
China	74.5%	84.8%



**State**

At least partial immunity as % population

Full immunity as % population

Best

Middle

Worst

Every American >18 immunized in **243 days** by Jul 22, 2022

72.9% of population >18 immunized

17.1% previously tested positive

**90.0%** vs 60% adult herd immunity

Global data differs due to sources, timing

AK
61.9%
53.9%

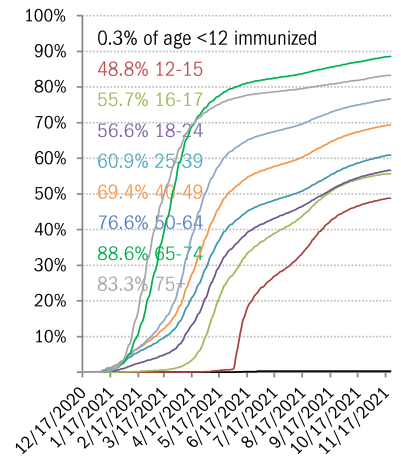
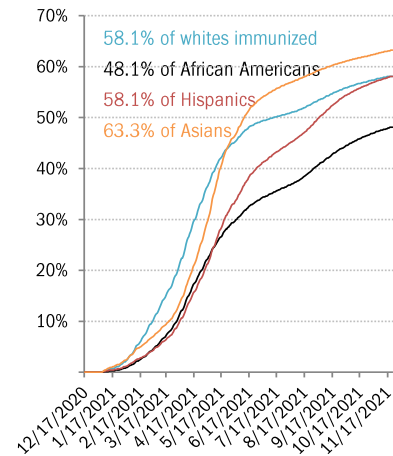
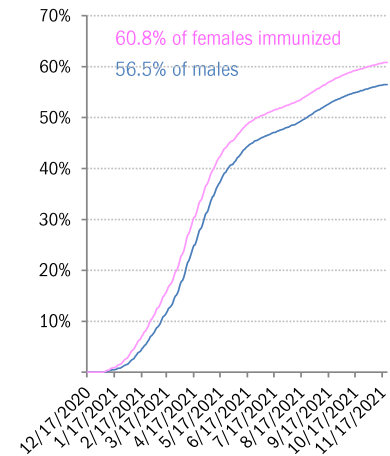
WI
65.2%
59.3%

As of Nov 22

ME
80.7%
71.9%

WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
71.8%	50.4%	59.1%	57.1%	68.3%	67.0%	60.6%	77.2%	84.1%	84.6%	
64.6%	45.0%	51.6%	48.4%	62.1%	61.1%	54.4%	68.1%	72.6%	64.0%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
70.8%	65.8%	53.0%	65.3%	61.9%	55.4%	57.9%	84.3%	78.2%	84.7%	
63.7%	54.2%	45.2%	54.1%	56.4%	50.5%	52.8%	62.1%	67.4%	70.8%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
77.9%	63.6%	70.6%	63.5%	59.2%	59.7%	53.8%	74.7%	74.6%	83.0%	82.1%
62.8%	55.2%	62.8%	57.1%	50.7%	51.8%	41.5%	64.6%	67.1%	71.7%	72.1%
AZ	NM	KS	AR	TN	NC	SC	DC	DE		
63.6%	75.7%	65.4%	59.9%	56.2%	68.7%	59.7%	79.8%	71.3%		
54.4%	63.3%	54.3%	49.0%	49.2%	53.8%	51.1%	64.0%	60.9%		
OK	LA	MS	AL	GA						
62.1%	55.1%	53.4%	56.0%	58.4%						
51.2%	48.6%	46.8%	45.8%	49.3%						
TX										
63.5%										
54.4%										
HI							FL		PR	
81.4%							71.2%		84.8%	
60.7%							60.9%		74.4%	

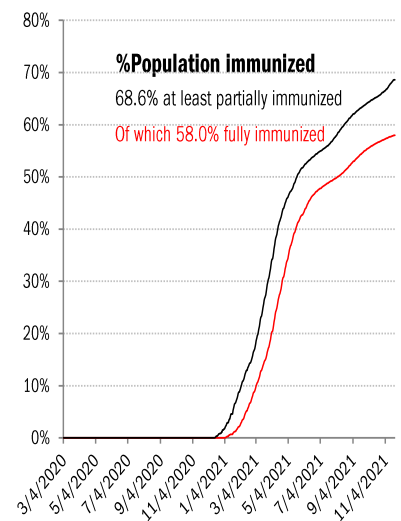
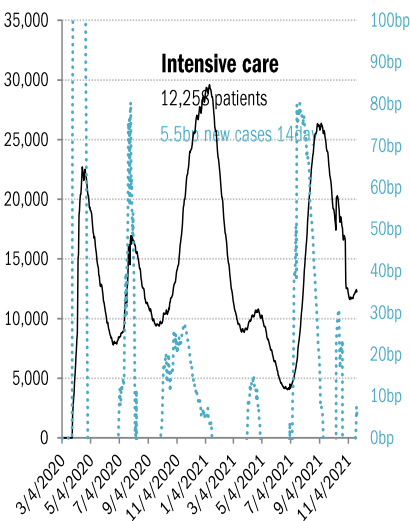
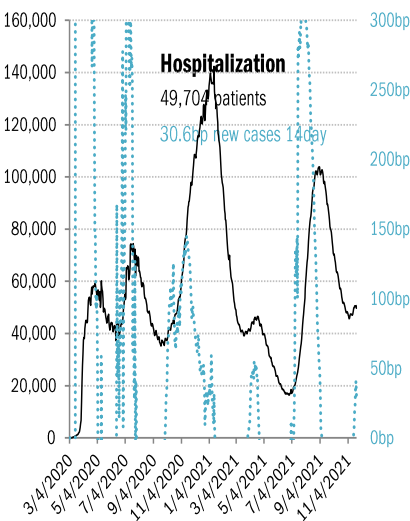
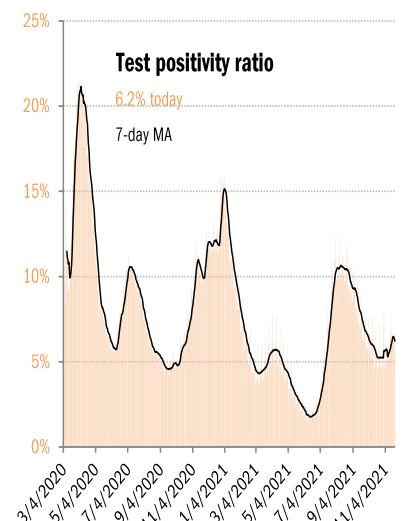
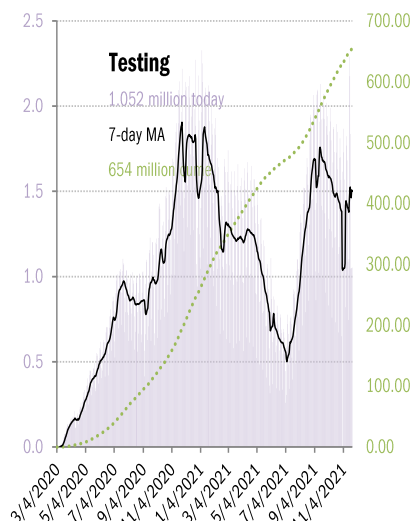
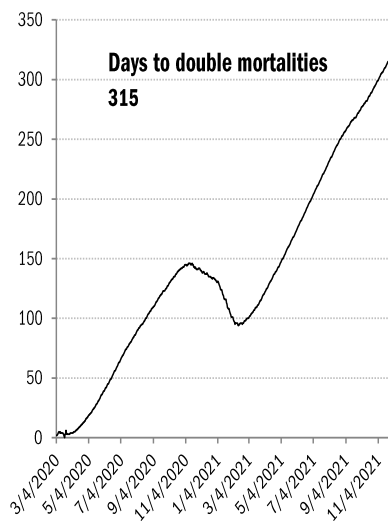
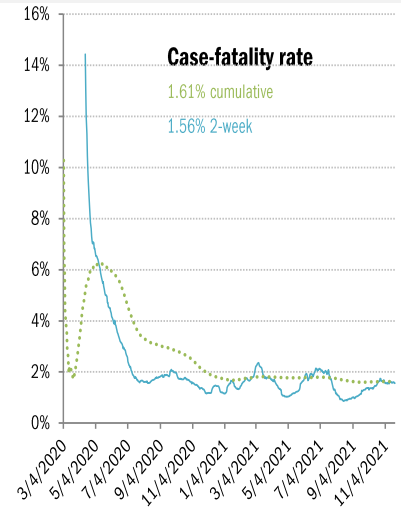
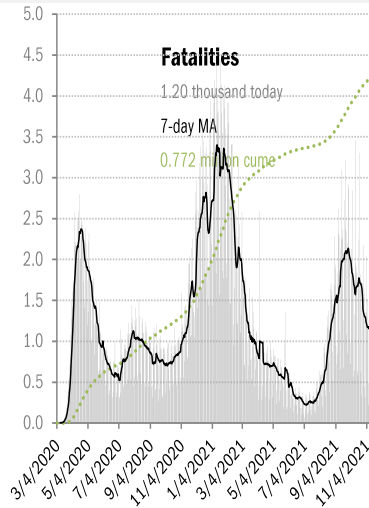
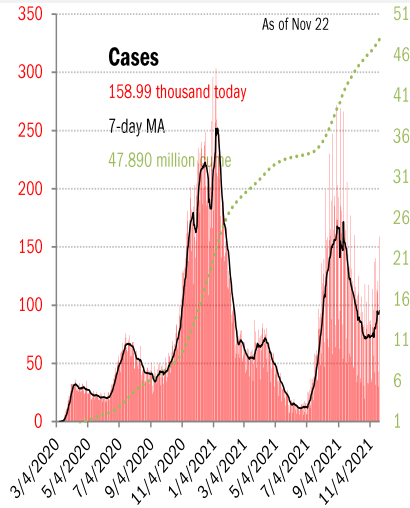
## The demographics of US vaccination



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

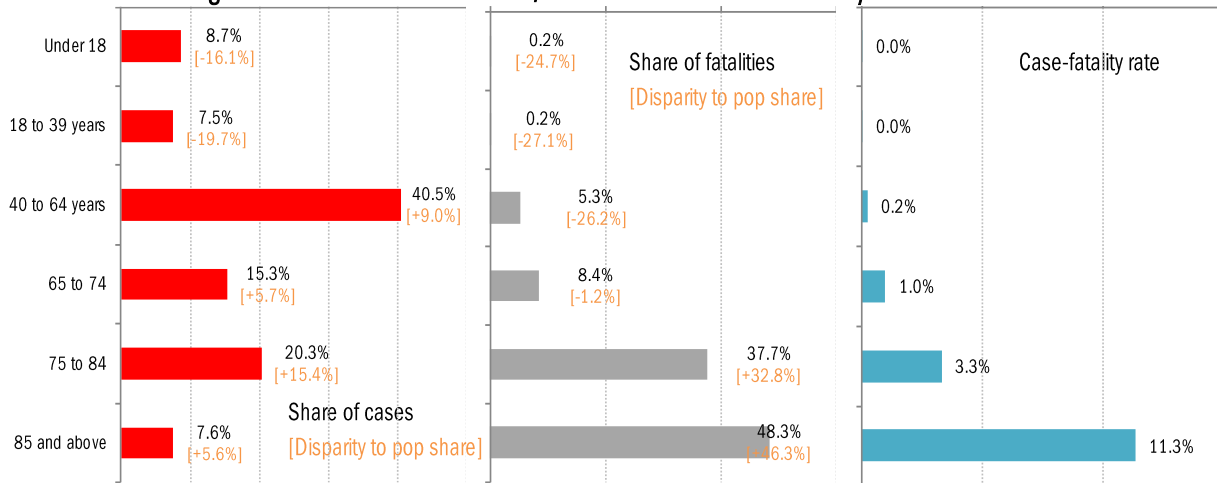
# US deep-dive

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

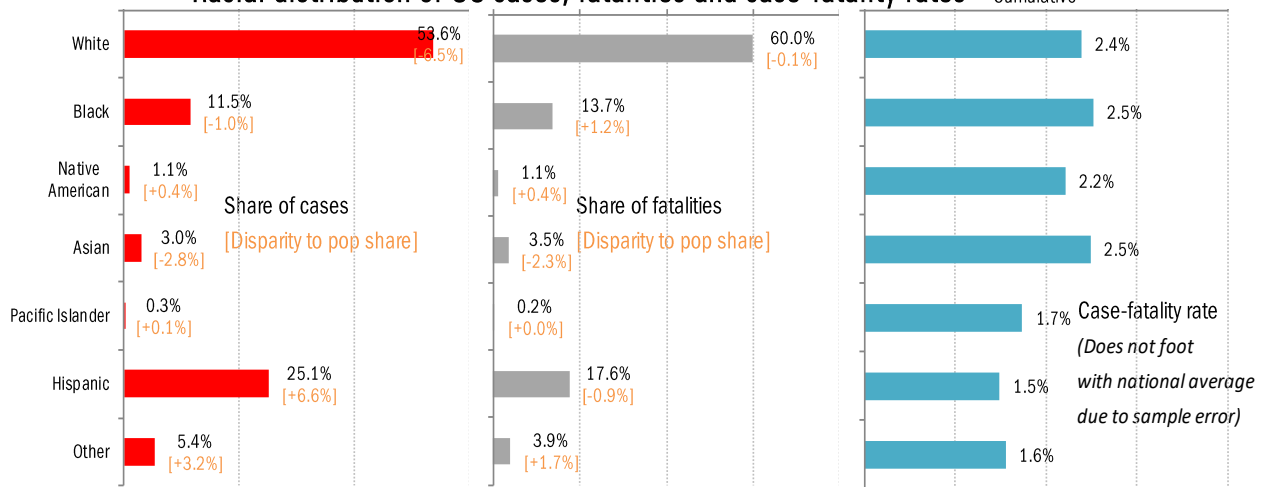


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

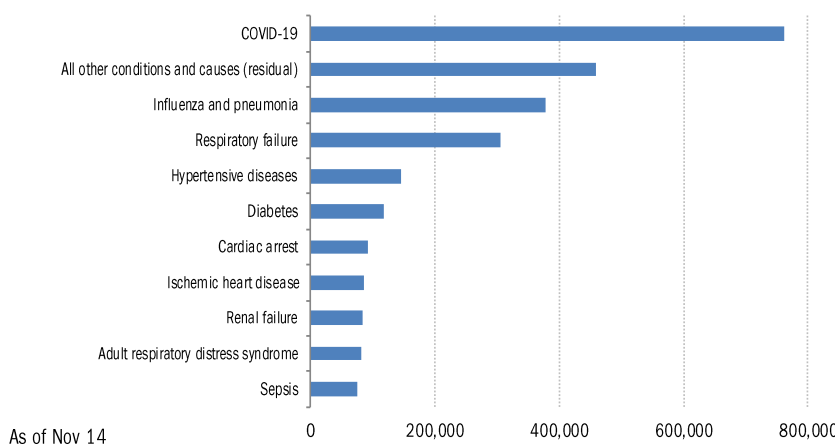


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

[Children and COVID-19: State-Level Data Report](#)

*American Academy of Pediatrics*

November 22, 2021

[Pediatricians say Covid cases in children are on the rise.](#)

Alyssa Lukpat

*New York Times*

November 23, 2021

[As Virus Cases Rise in Europe, an Economic Toll Returns](#)

Patricia Cohen and Melissa Eddy

*New York Times*

November 23, 2021

['Vaccinated, Recovered or Dead': Europe Fights Covid Wave — and Itself](#)

Steven Erlanger

*New York Times*

November 22, 2021

[Yes, You Should Get a Covid Booster](#)

Marc Siegel

*Wall Street Journal*

November 22, 2021

## Meme of the day

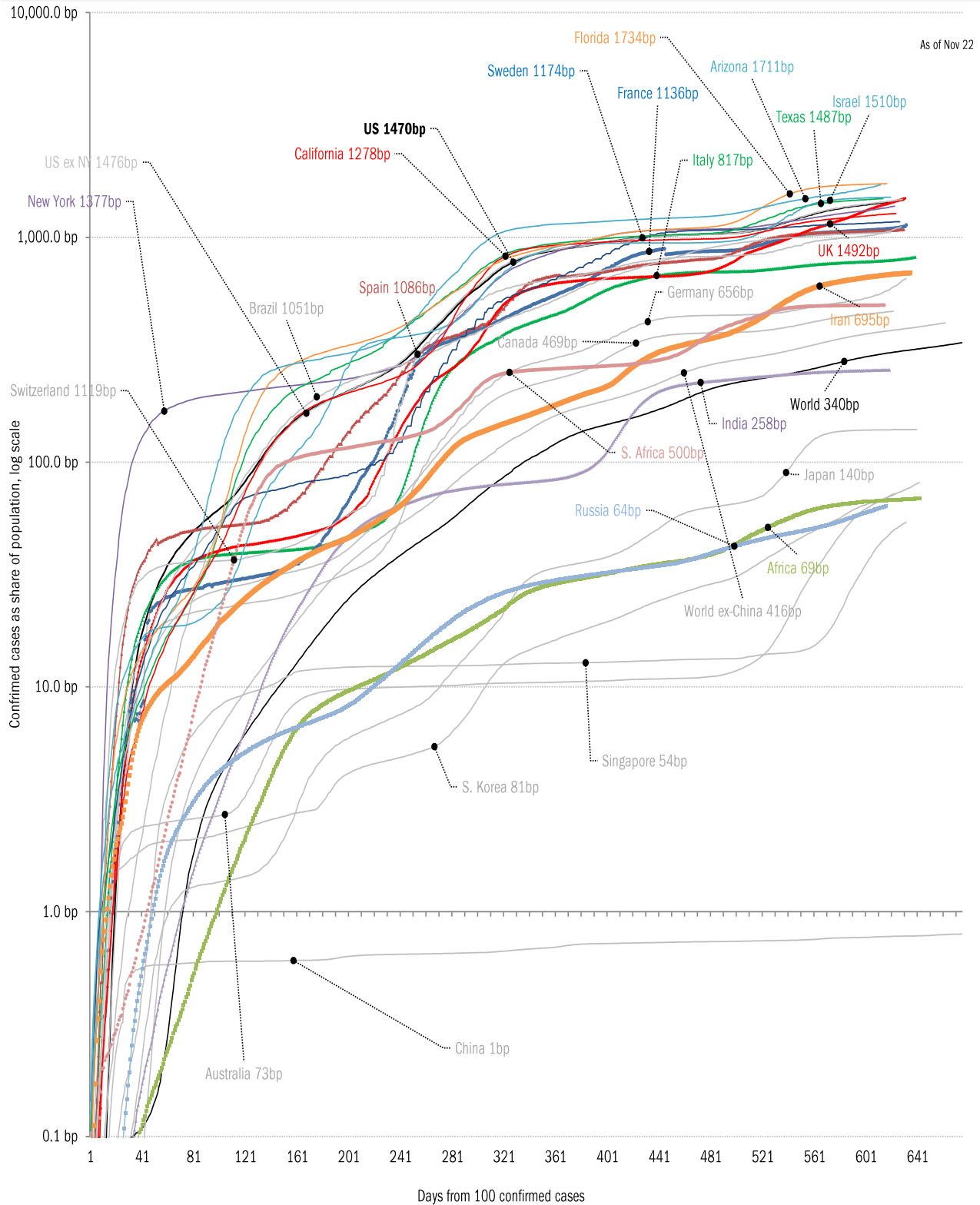
2 weeks to flatten the curve.

2 weeks:



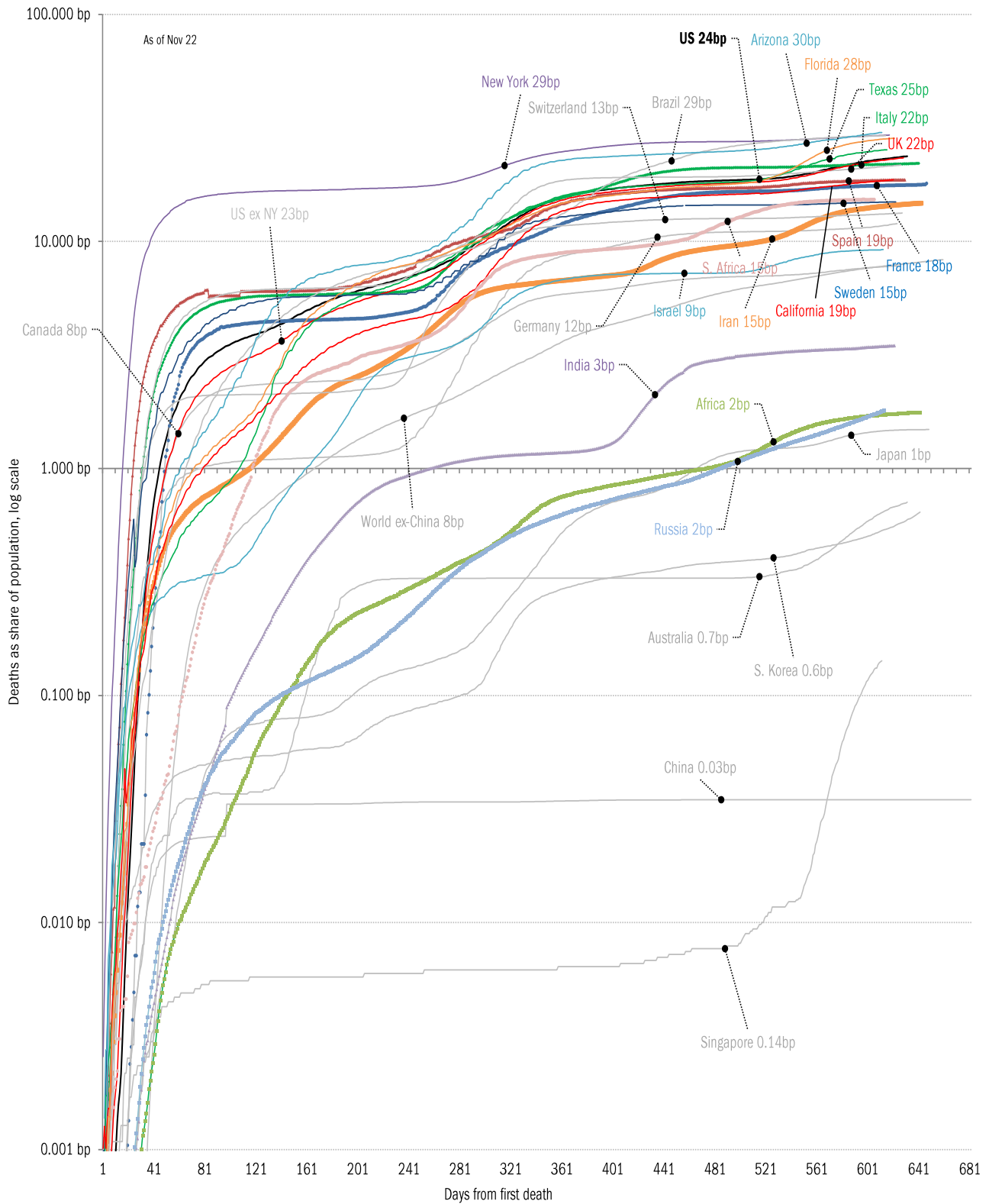
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



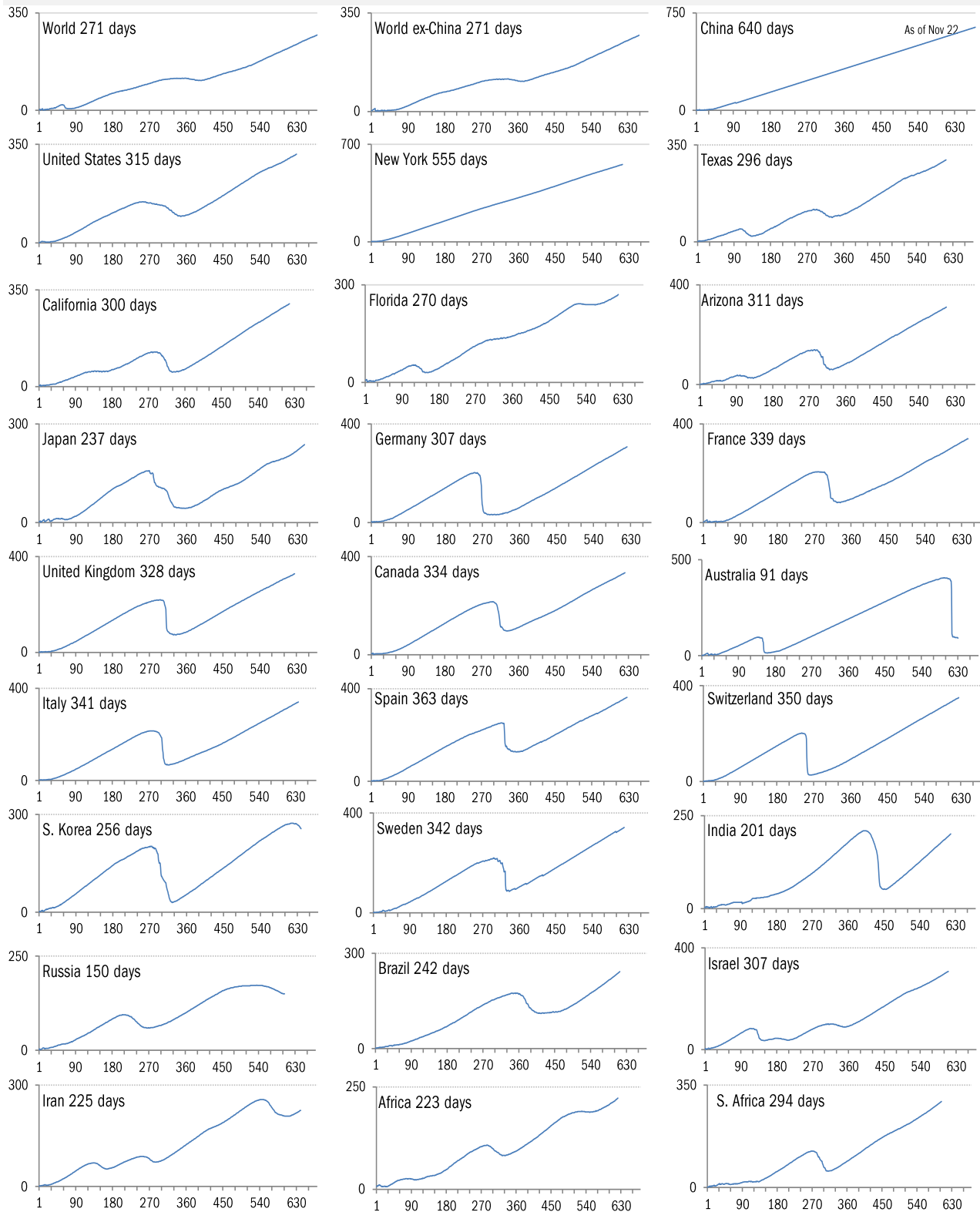
Source: [Johns Hopkins](#), TrendMacro calculations



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

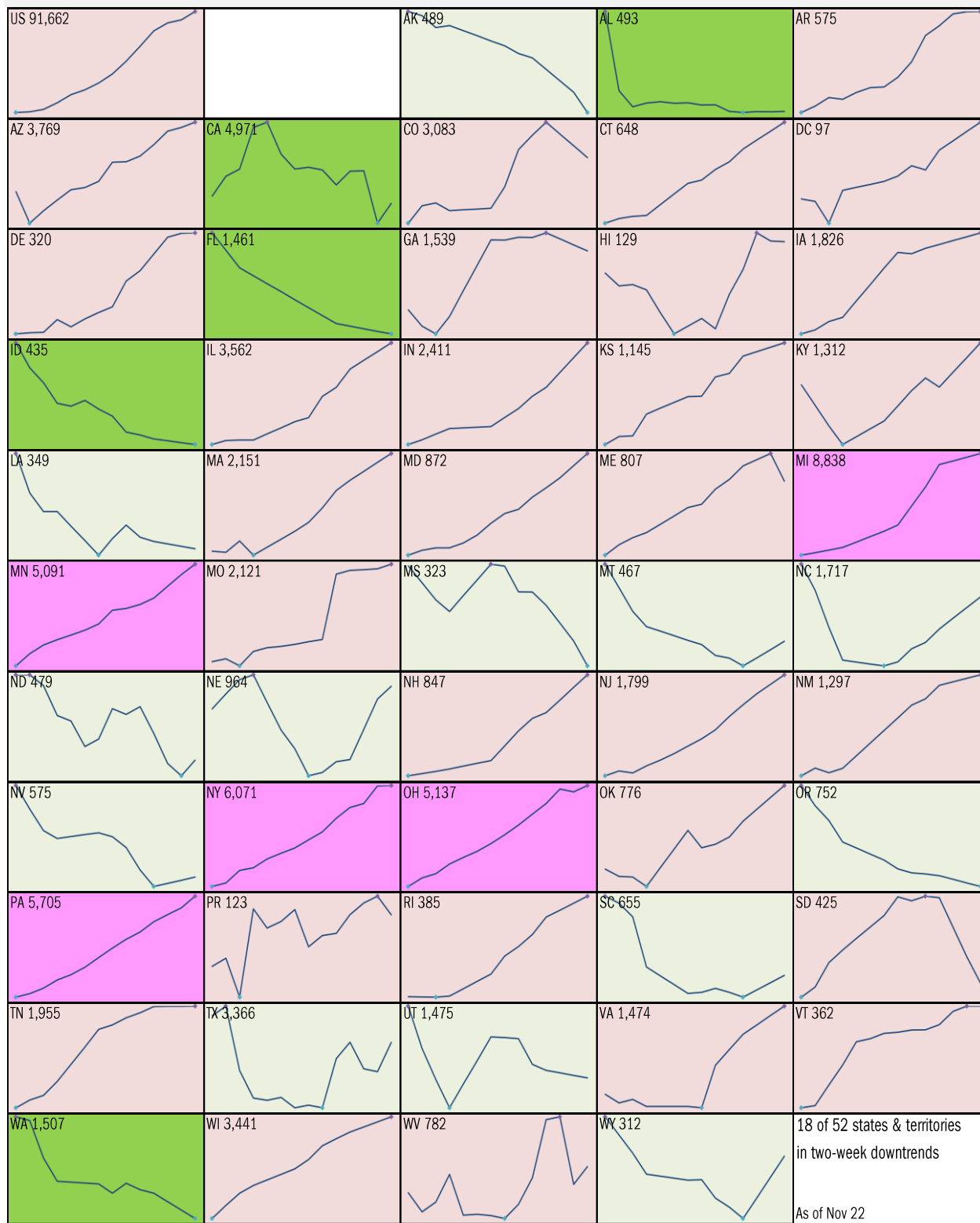
Vertical: days to double deaths Horizontal: days from first death

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

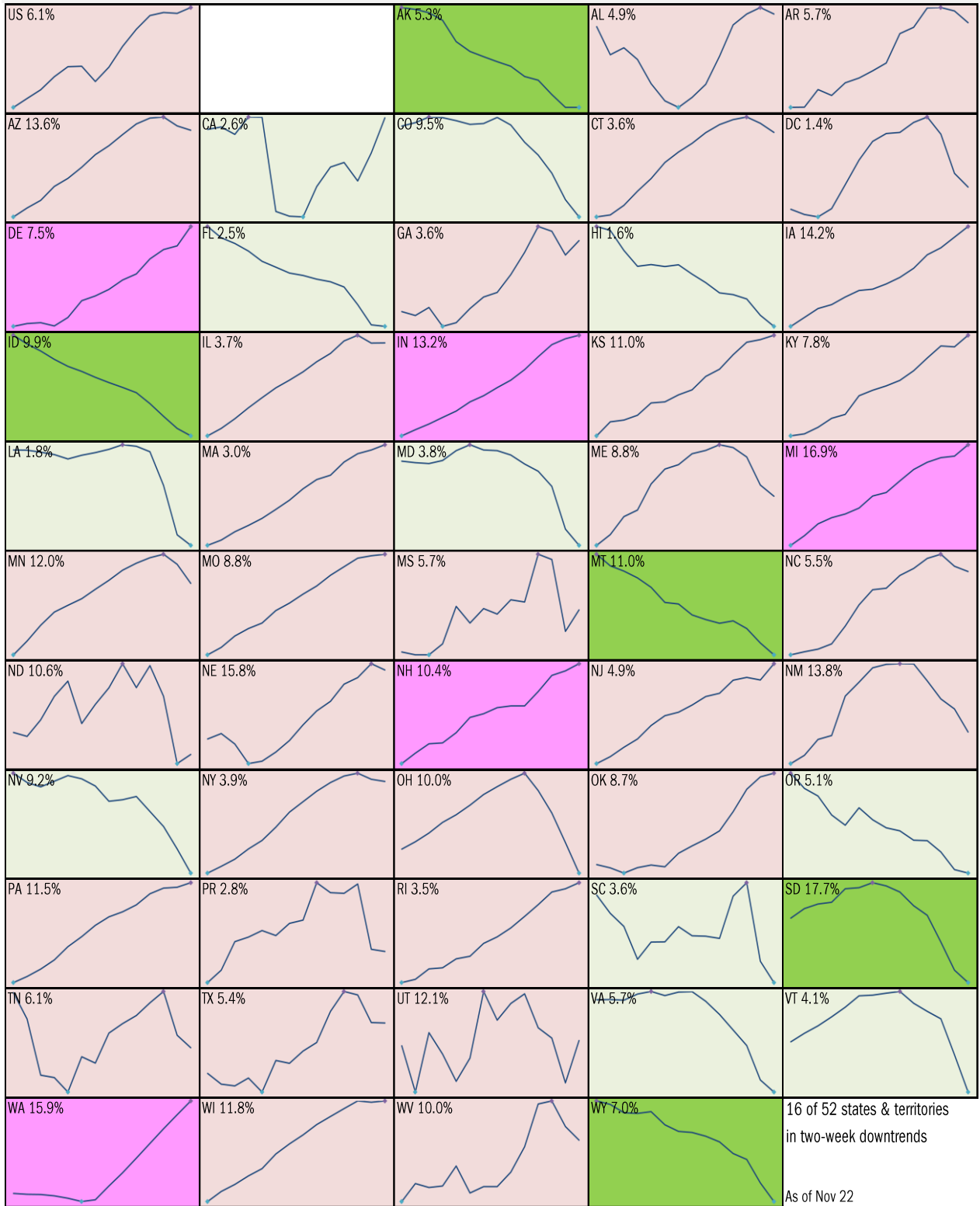


Source: [Johns Hopkins](#), TrendMacro calculations

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

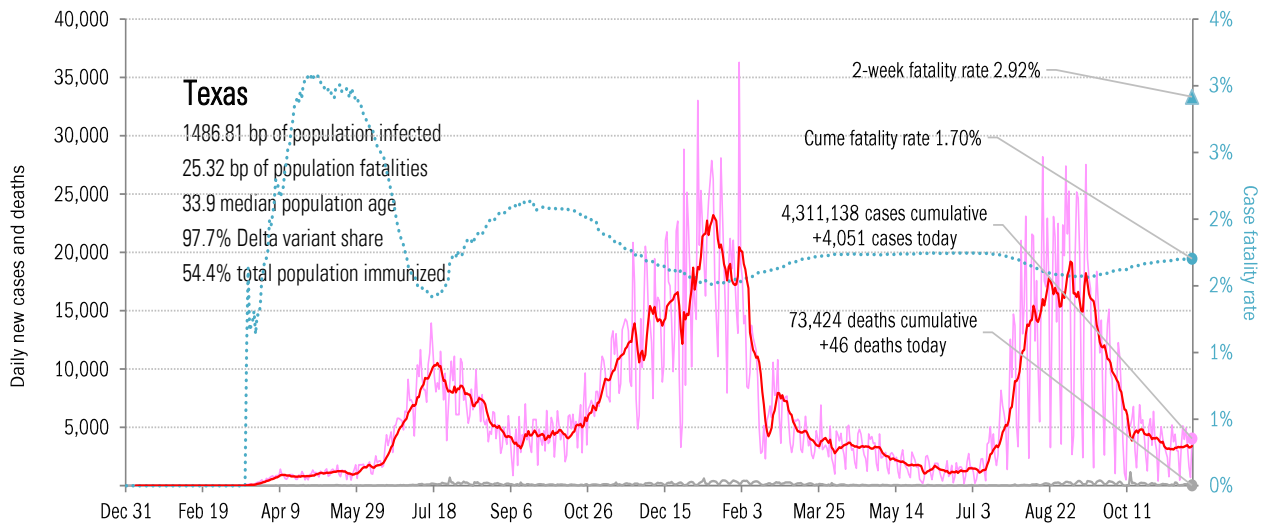
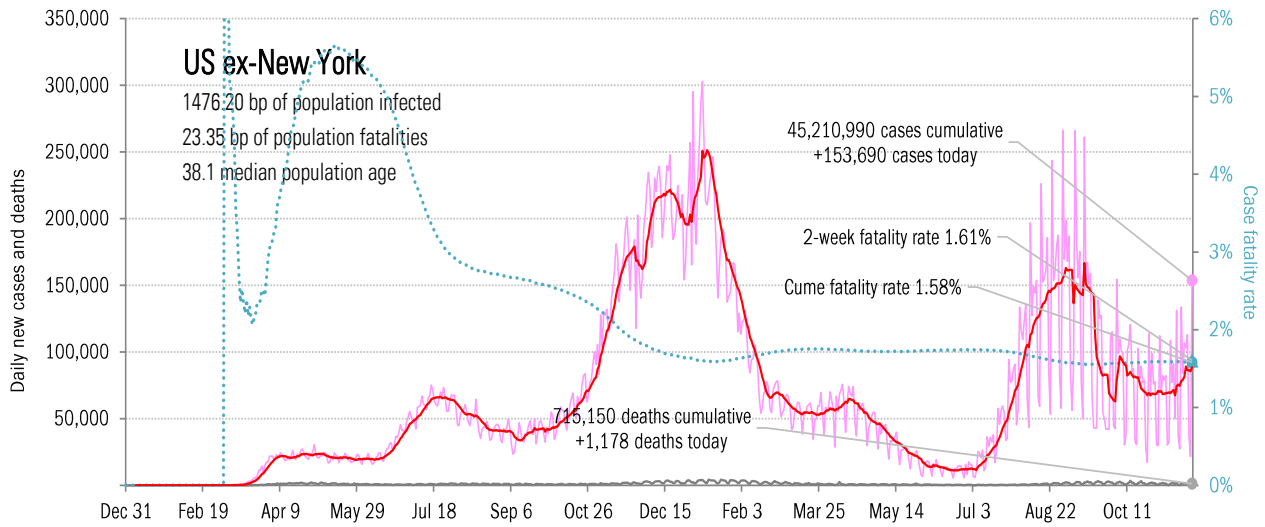
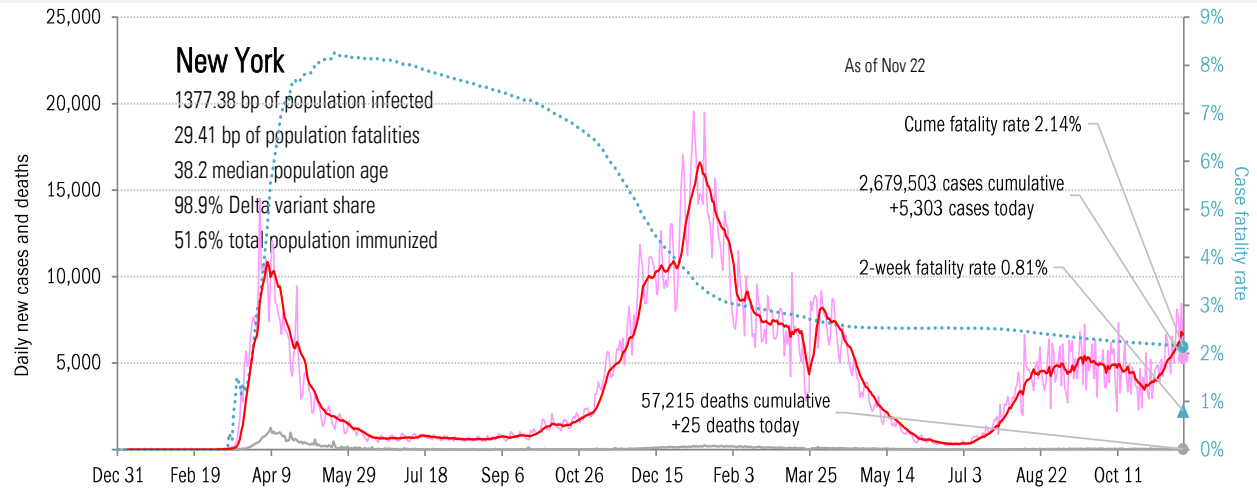
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

# From Ground Zero to the Rio Grande

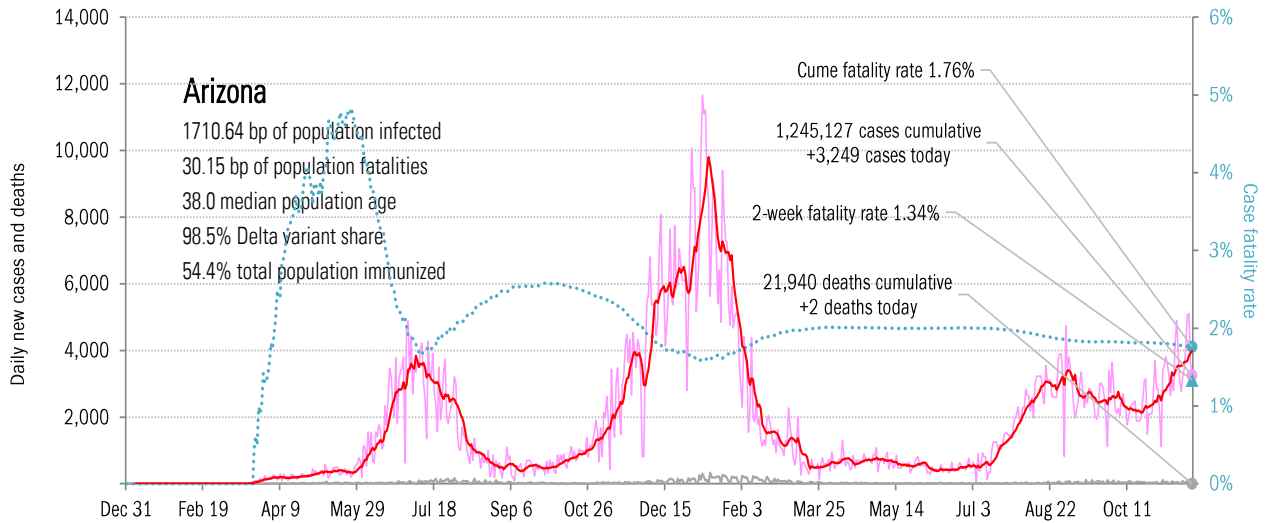
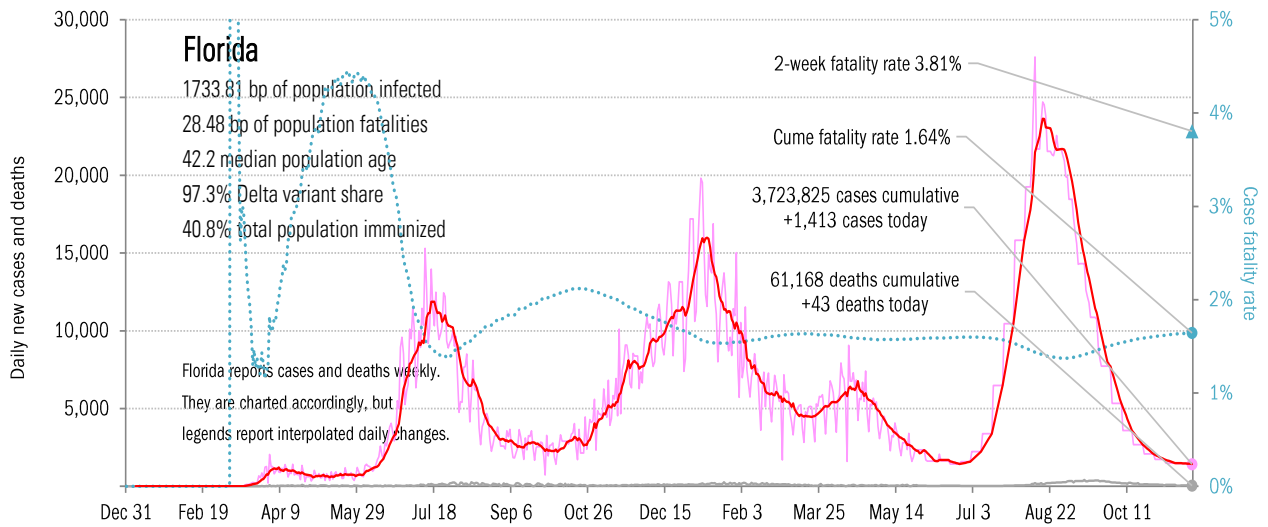
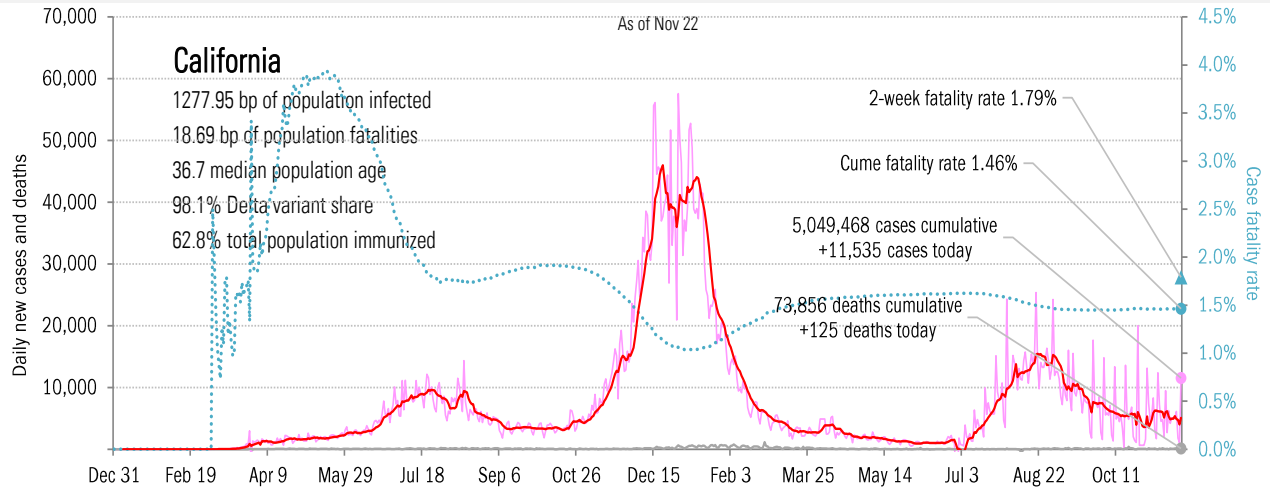
Cases: 7-day average and daily Deaths: Daily



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

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

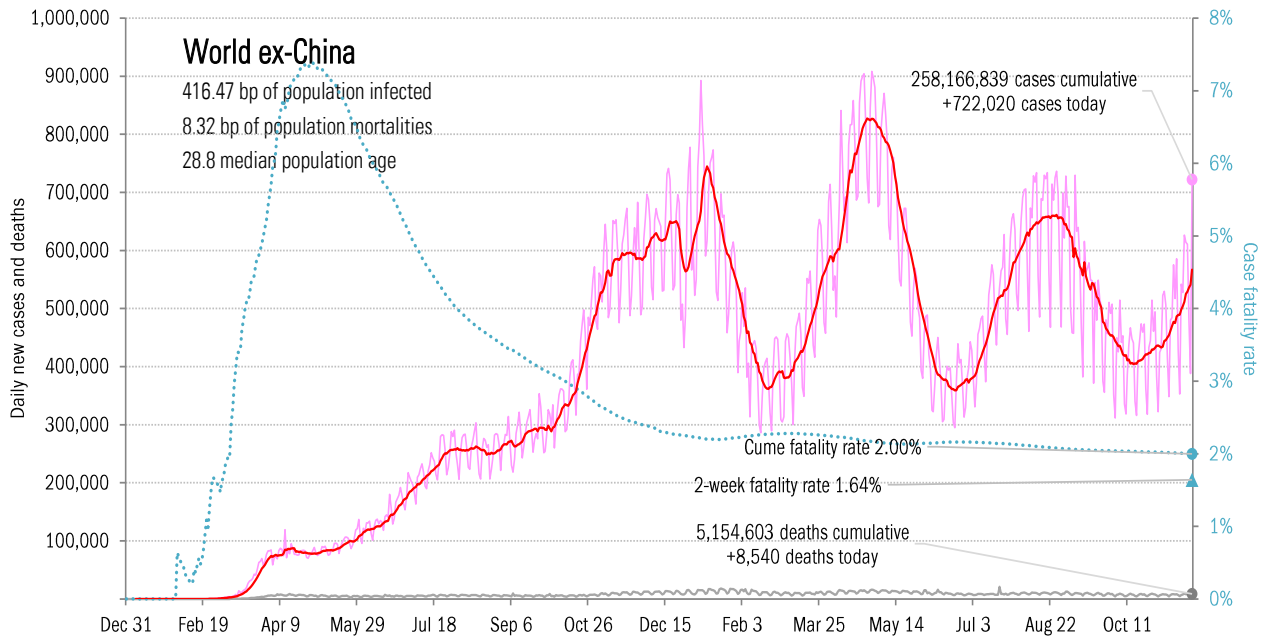
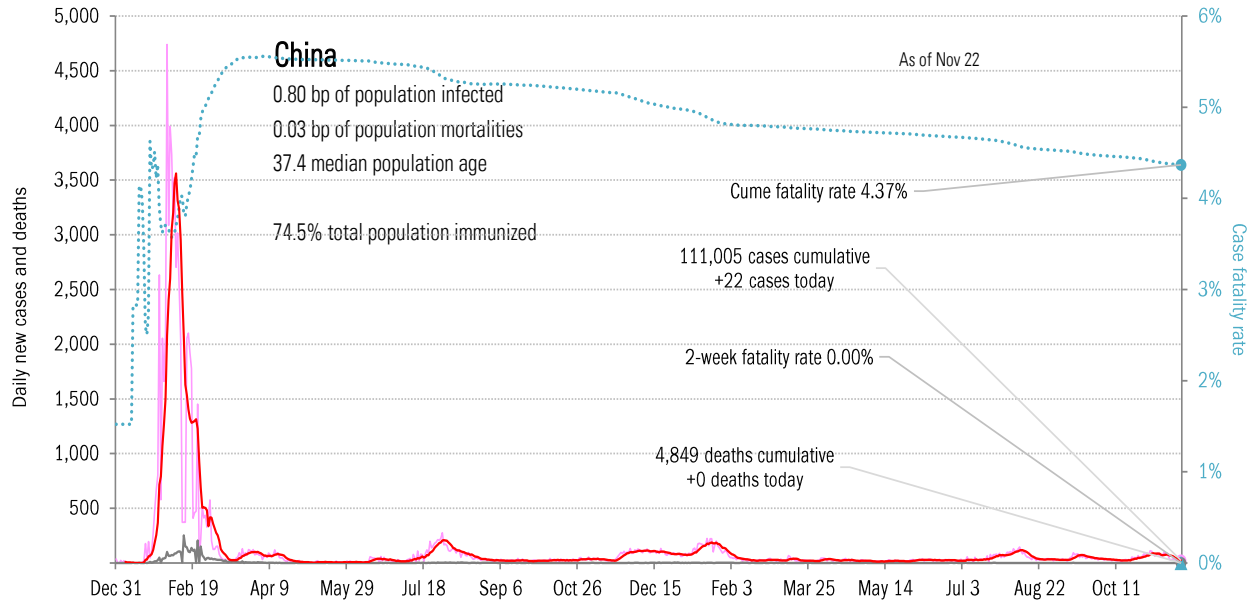
Cases: 7-day average and daily Deaths: Daily



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

# Patient zero... and then everyone else

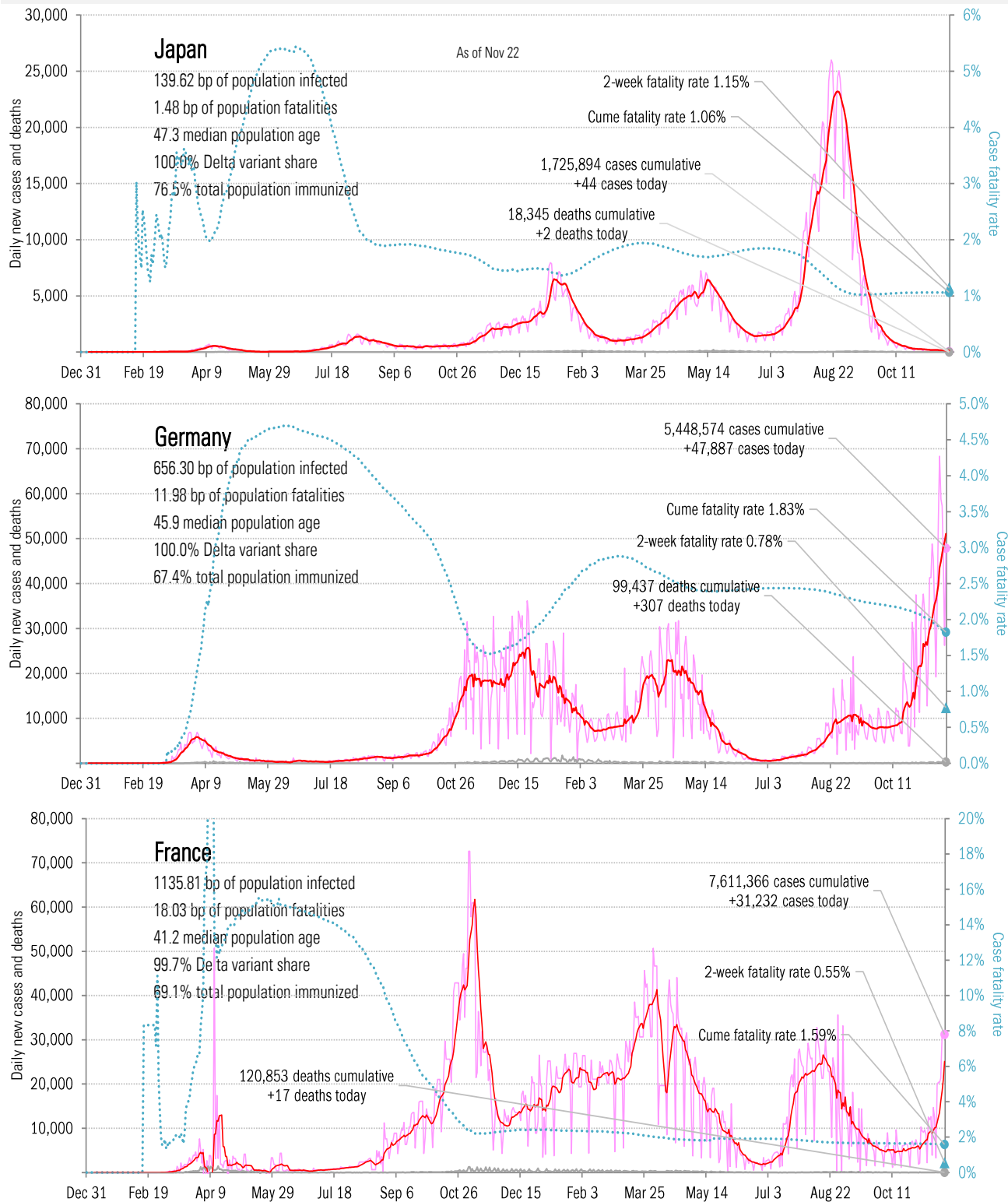
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the largest economies

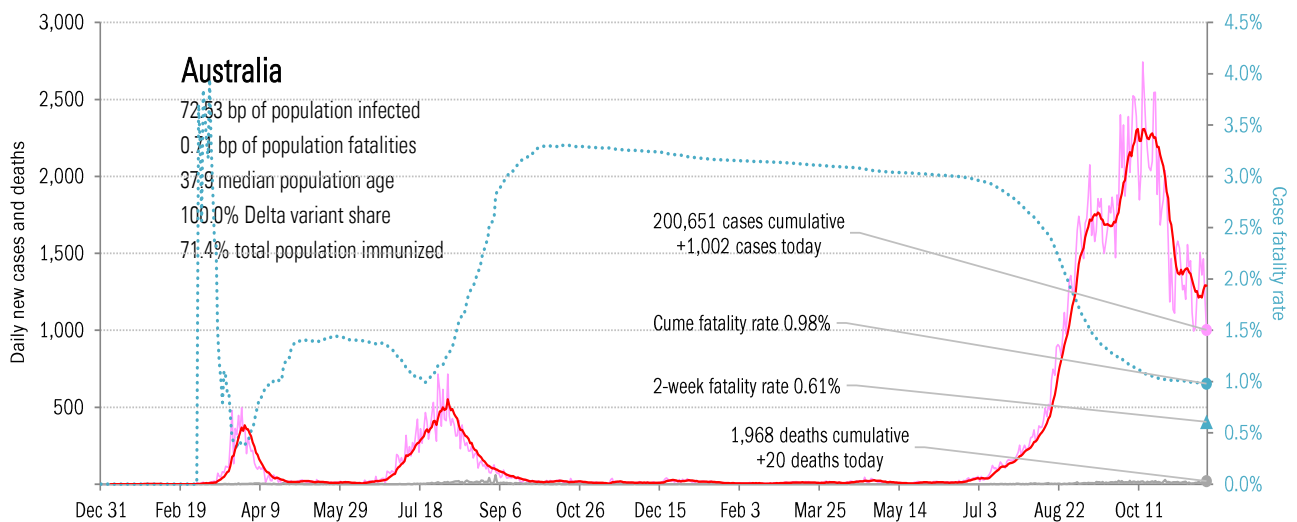
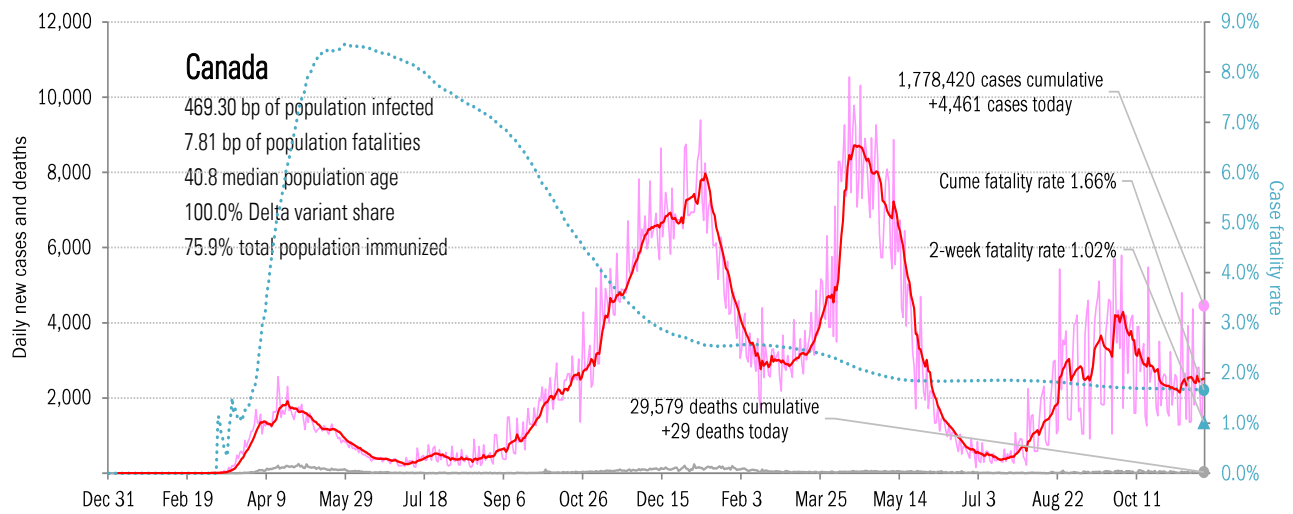
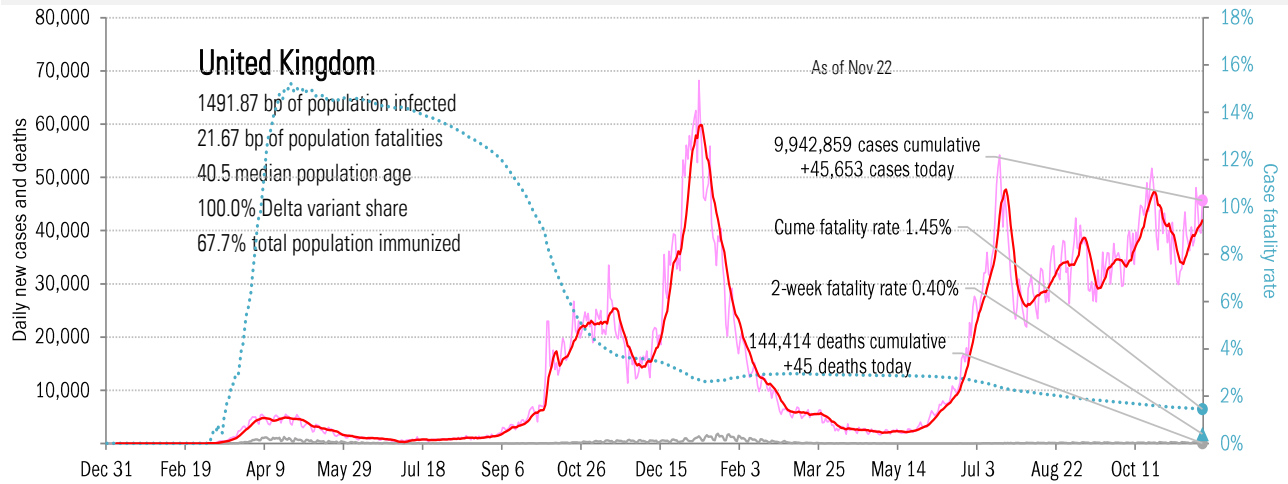
Cases: 7-day average and daily Deaths: Daily



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

# Impact in The Anglosphere

Cases: 7-day average and daily Deaths: Daily

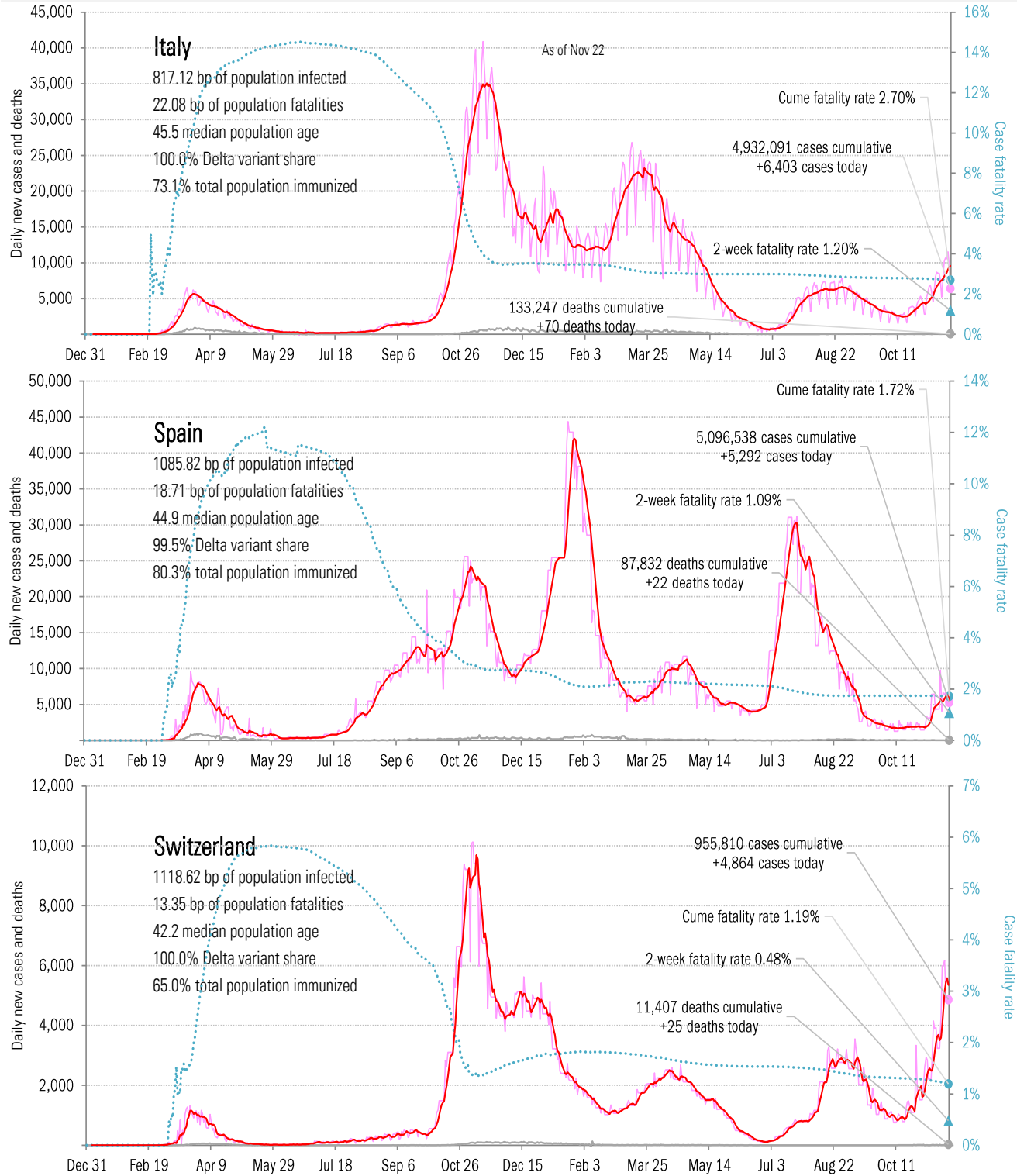


Source: [Johns Hopkins](#), TrendMacro calculations



# Impact in continental Europe

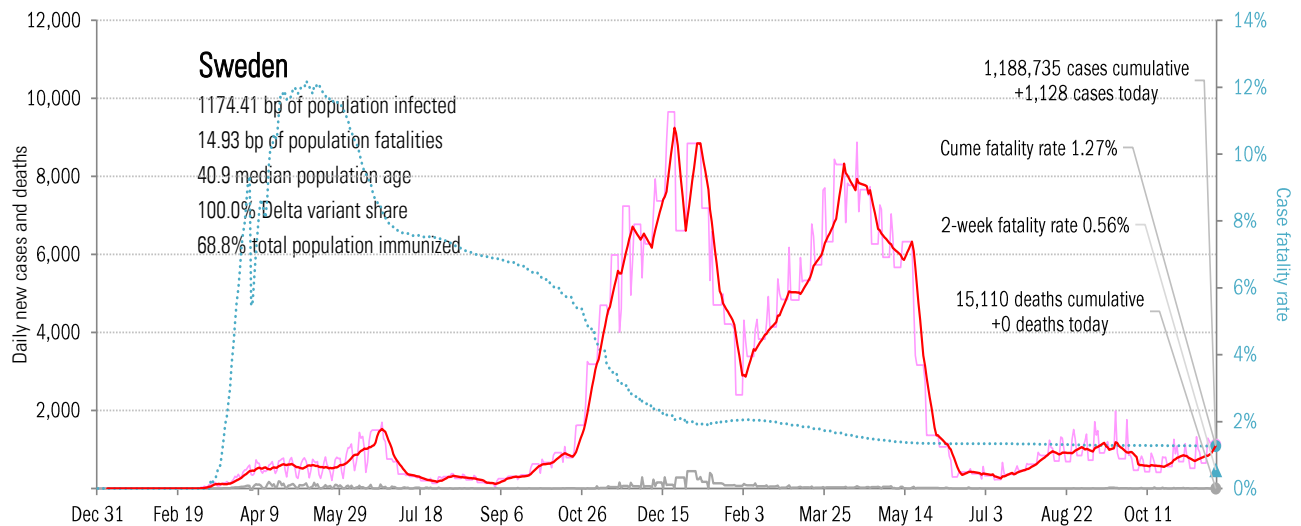
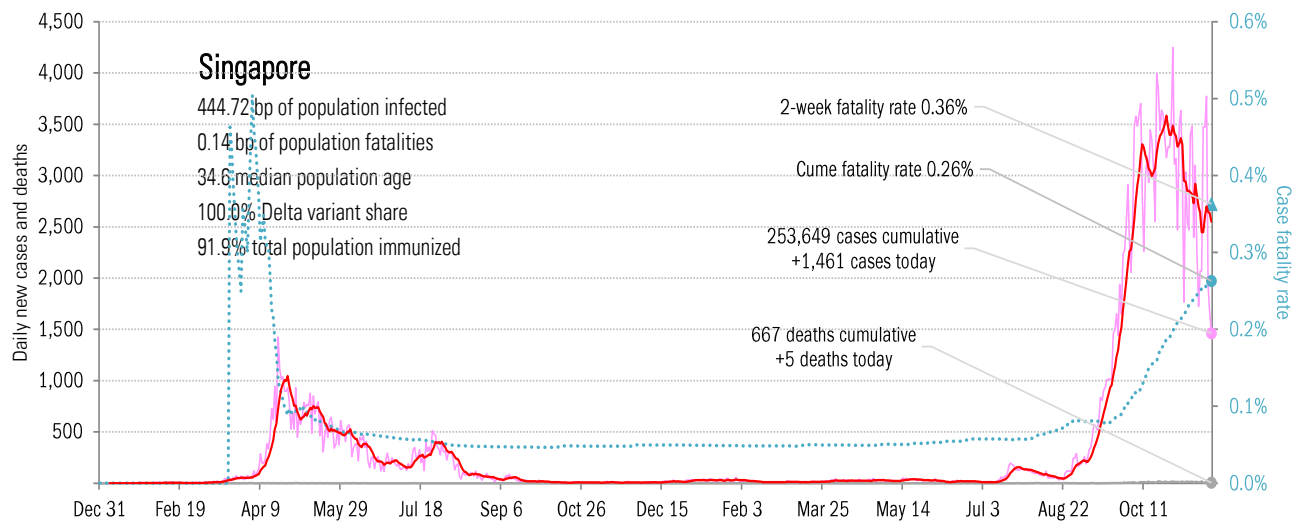
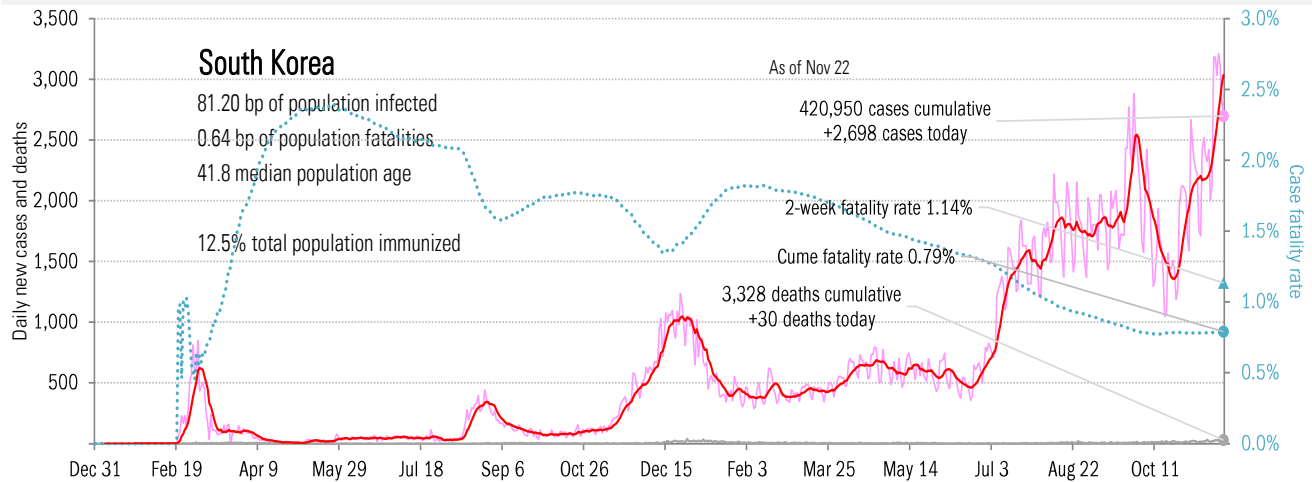
Cases: 7-day average and daily Deaths: Daily



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

# Impact in other hot-spots

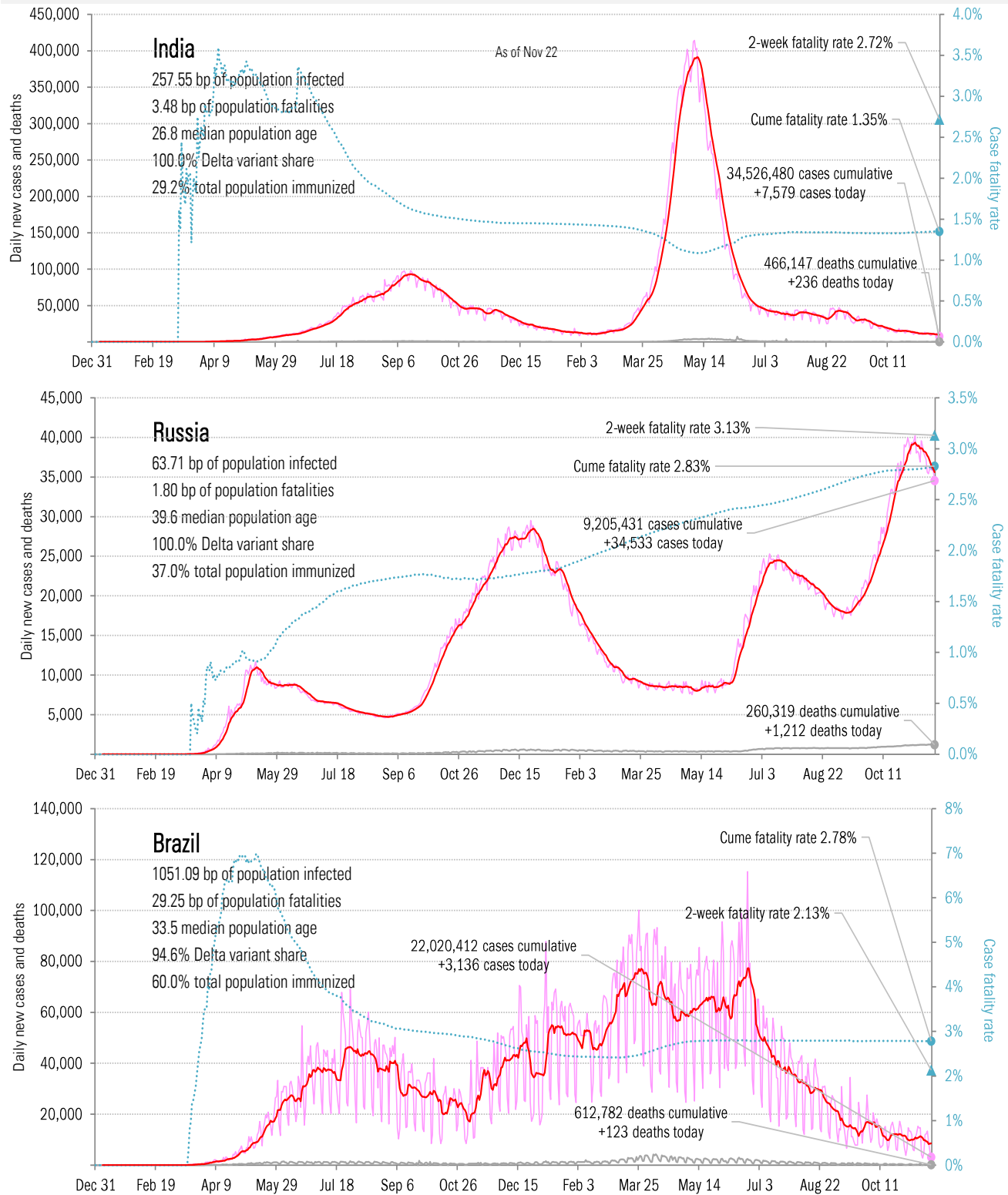
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the BRICs ex-China

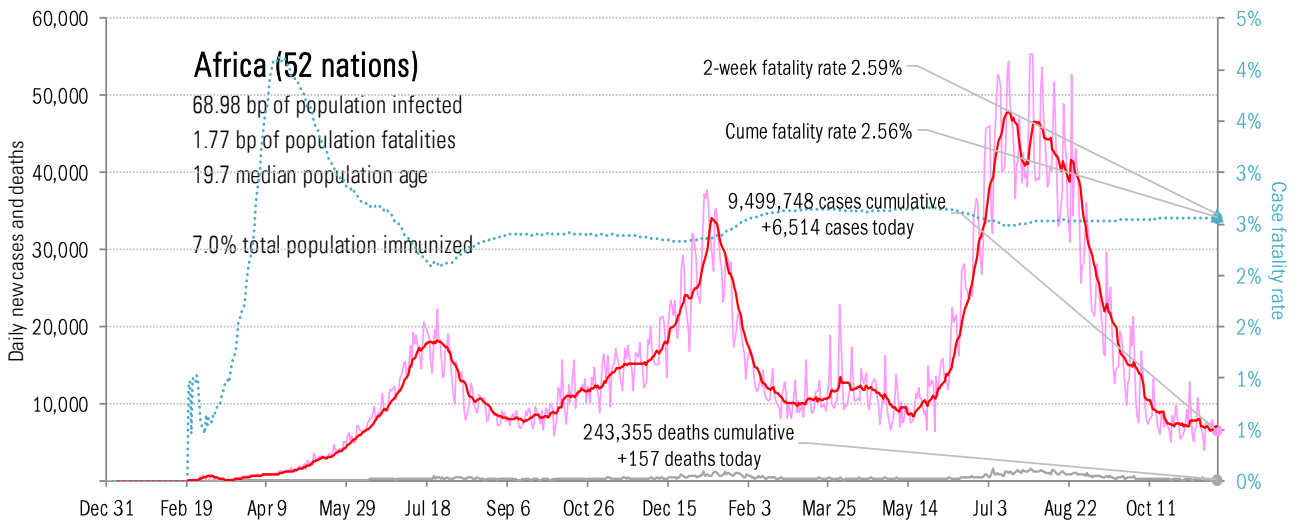
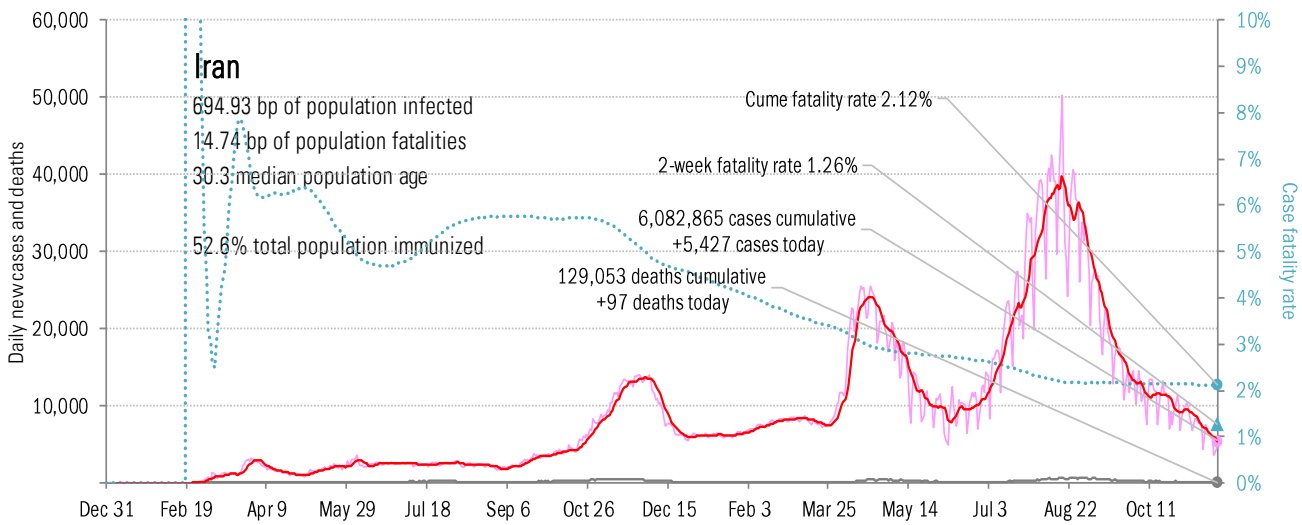
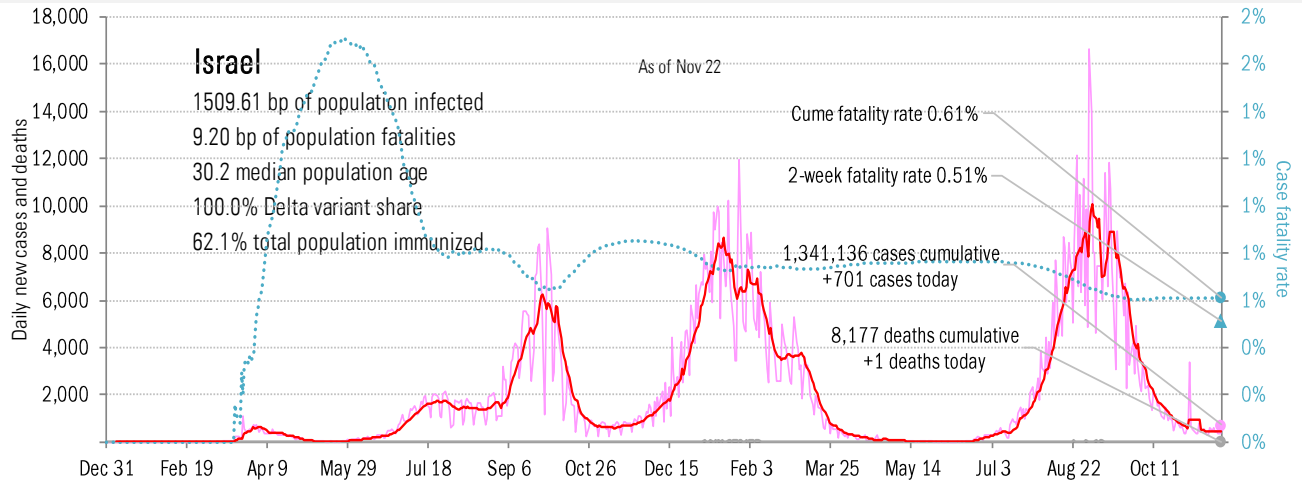
Cases: 7-day average and daily Deaths: Daily



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

# Impact in the Middle East and Africa

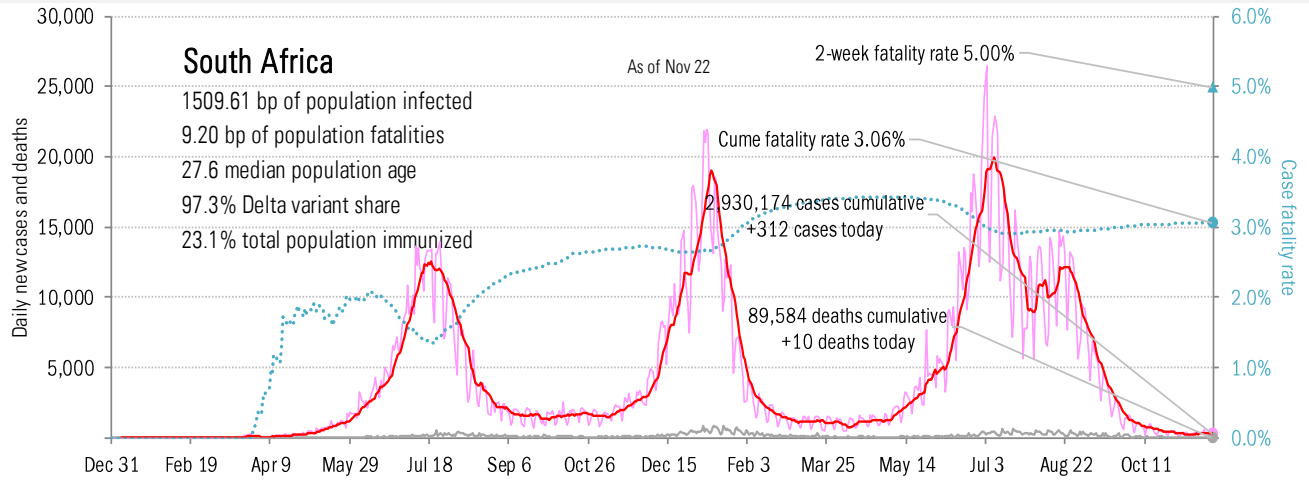
Cases: 7-day average and daily Deaths: Daily



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

# Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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