

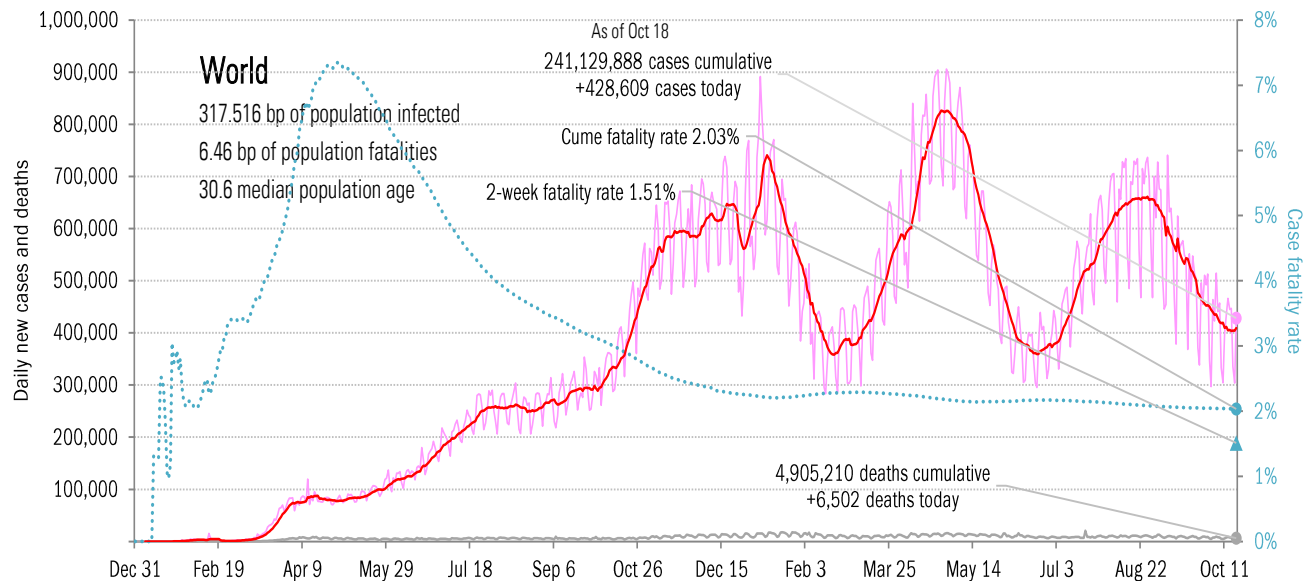
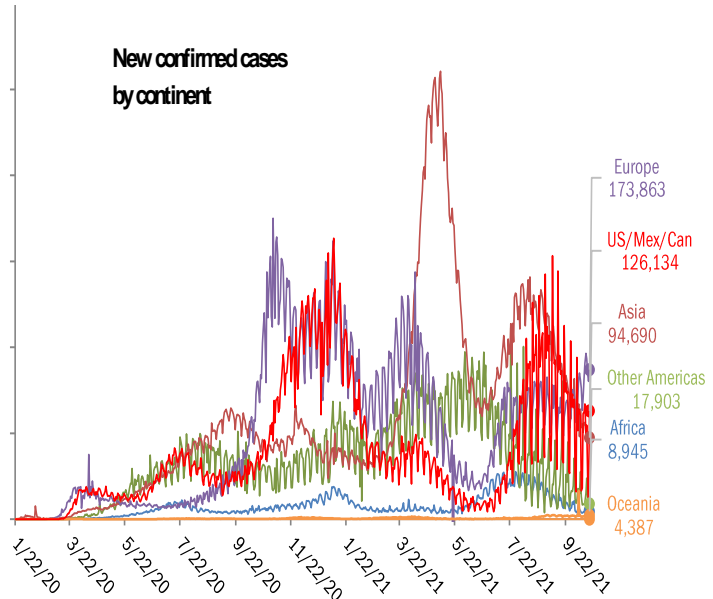
Data Insights: Covid-2019 Monitor

Tuesday, October 19, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+119,240	United States	+1,807
United Kingdom	+48,965	Russia	+981
Russia	+33,434	Romania	+261
Turkey	+29,240	Bulgaria	+214
India	+13,058	Turkey	+214
Iran	+11,844	Ukraine	+194
Ukraine	+10,415	Brazil	+183
Romania	+10,141	Iran	+181
Thailand	+10,111	India	+164
Belgium	+9,164	Mexico	+96
+295,612		+4,295	
World	+428,609	World	+6,502
Top ten	69%	Top ten	66%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

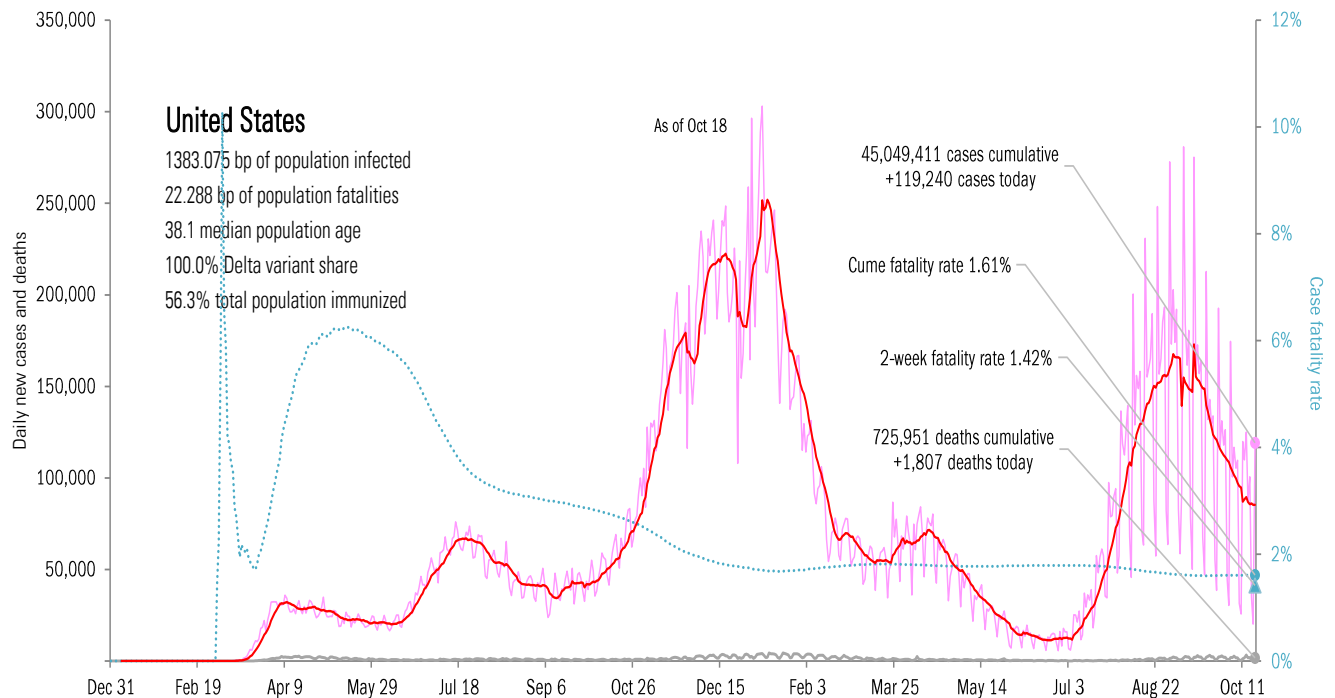
The ten worst US states

New cases			New Deaths			New in hospital			Cum cases			Cum deaths			Cum in hospital			Hospital use		ICU use	
CA	+13,399		CA	+213		CA	+41		CA	4,825,708		CA	70,829		TX	369,184		RI	89%	TX	89%
MI	+9,341		FL	+211		CO	+32		TX	4,184,467		TX	69,103		FL	315,093		MA	85%	ID	88%
NC	+6,933		GA	+166		KY	+30		FL	3,662,598		FL	57,897		CA	304,320		MI	85%	NM	88%
IL	+5,498		PA	+105		NV	+25		NY	2,511,182		NY	56,008		NY	160,500		MD	83%	ND	87%
CO	+5,303		KY	+103		MN	+23		IL	1,671,275		PA	30,523		GA	157,156		PA	82%	GA	87%
VA	+4,944		VA	+95		AZ	+22		GA	1,619,015		GA	27,940		CH	118,901		MN	82%	CK	86%
NY	+4,935		SC	+87		MO	+19		PA	1,513,332		IL	27,903		PA	112,458		CT	81%	AL	86%
TX	+4,435		NC	+80		NM	+19		CH	1,499,485		NJ	27,737		KY	109,493		WA	81%	KY	85%
PA	+3,846		TX	+69		MA	+15		NC	1,453,814		CH	23,327		IL	102,944		GA	80%	AK	85%
IN	+3,822		IN	+64		CT	+13		TN	1,266,252		MI	23,017		MI	87,847		NY	80%	MI	85%
+62,456			+1,193			+239			24,207,128			414,284			1,837,896						
All states	+119,240			+1,807			-364		All states	45,049,411			725,951			3,277,253		All states	70%		67%
Top ten	52%			66%			-66%		Top ten	54%			57%			56%		Median	74%		78%

Some states not reporting

Five most improved US states

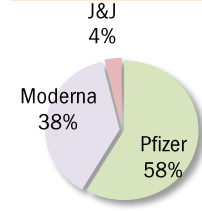
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
MO	-286	TX	-30	PA	-99	CA	+10 bp
AR	-241	AR	-3	GA	-45	DC	+10 bp
AL	-206	HI	-2	ID	-44	DE	+10 bp
WV	-170	MO	-1	TN	-41	FL	+10 bp
MD	-157	AK	0	TX	-41	KY	+10 bp



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	420,300,964		+0.542 million		US	56.3%	65.1%	
	One dose	% Pop	Immune	% pop	New immune today	UK	66.5%	72.5%
Total population	224,299,550	67%	194,048,583	58%	+0.153 million	France	67.2%	75.3%
Age 12 to 17	14,056,029	59%	11,602,360	49%	+0.019 million	Spain	79.3%	81.1%
Age 18 to 64	155,089,968	76%	133,818,868	66%	+0.118 million	Germany	65.2%	68.3%
Age 65 and over	54,056,900	99%	47,726,797	87%	+0.015 million	Italy	70.2%	76.7%
						Australia	56.5%	71.3%
						Israel	64.9%	70.6%
						Canada	73.0%	77.7%
						Japan	67.7%	75.9%
						Africa	5.1%	7.8%
						India	20.3%	50.0%
						Brazil	49.7%	73.1%
						China	72.6%	76.2%



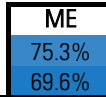
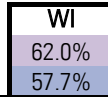
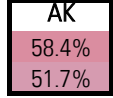
State
At least partial immunity as % population
Full immunity as % population



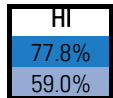
Every American >18 immune in **135 days** by Mar 1, 2022
 70.3% of population >18 immunized
 16.0% previously tested positive
86.3% vs 60% adult herd immunity

As of Oct 18

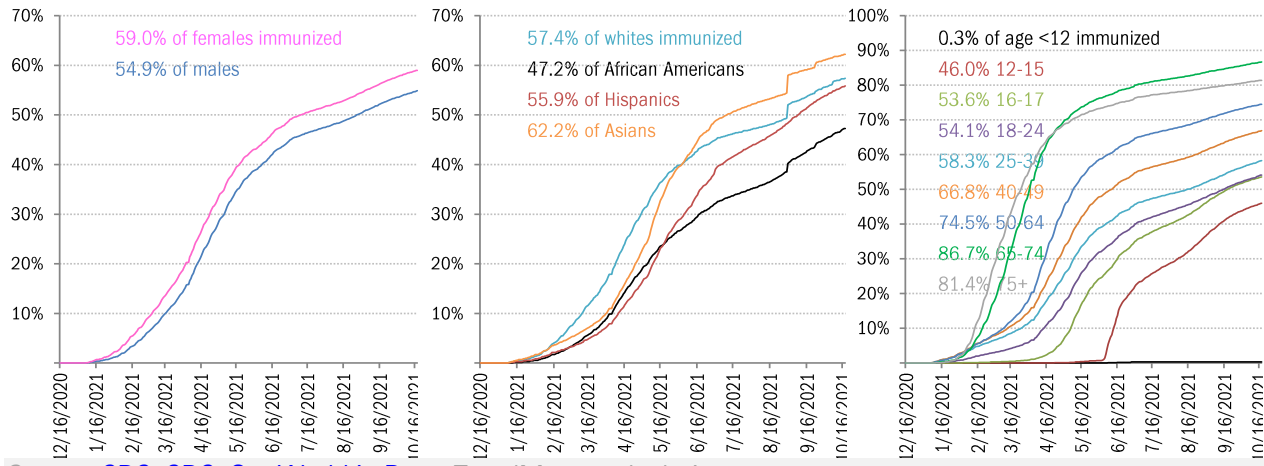
Global data differs from sources, timing



WA	ID	MT	ND	MN	IL	MI	NY	VT	NH	
68.4%	48.2%	56.0%	52.4%	64.4%	69.5%	57.5%	73.0%	78.8%	72.9%	
62.5%	42.9%	49.7%	45.4%	59.2%	54.4%	53.0%	65.5%	70.6%	62.4%	
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
67.7%	62.2%	49.8%	60.7%	58.9%	53.1%	55.2%	75.5%	73.9%	78.9%	
62.2%	52.0%	43.0%	52.7%	54.8%	49.3%	51.3%	59.6%	65.6%	68.9%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
73.4%	60.2%	66.7%	60.2%	56.0%	62.1%	48.7%	70.0%	72.0%	77.8%	76.9%
60.4%	52.5%	60.7%	55.6%	49.1%	54.1%	40.8%	62.1%	65.4%	69.9%	69.9%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	60.4%	73.9%	61.3%	56.8%	53.7%	62.2%	56.6%	72.7%	68.0%	
	52.3%	64.4%	52.4%	46.9%	46.8%	51.8%	49.1%	61.5%	59.1%	
			OK	LA	MS	AL	GA			
			58.1%	52.8%	51.3%	53.7%	56.0%			
			49.1%	46.8%	44.9%	44.0%	47.1%			
			TX					FL		PR
			60.6%					68.2%		80.5%
			52.5%					58.9%		72.0%



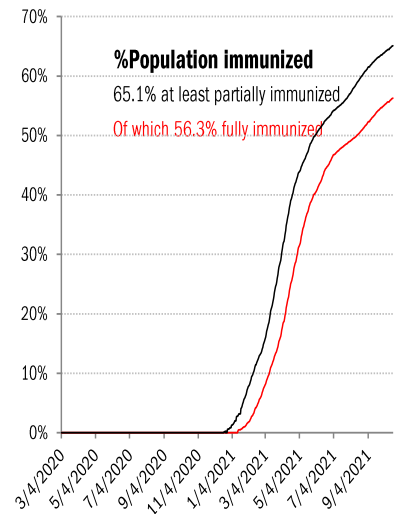
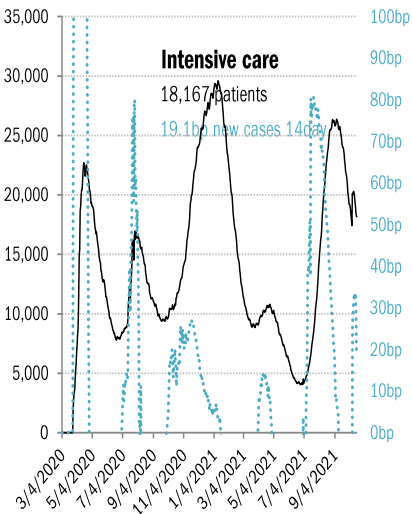
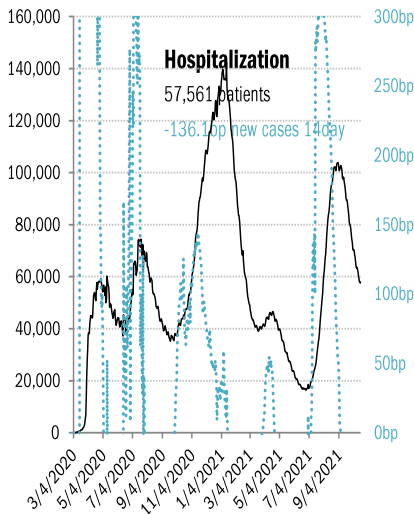
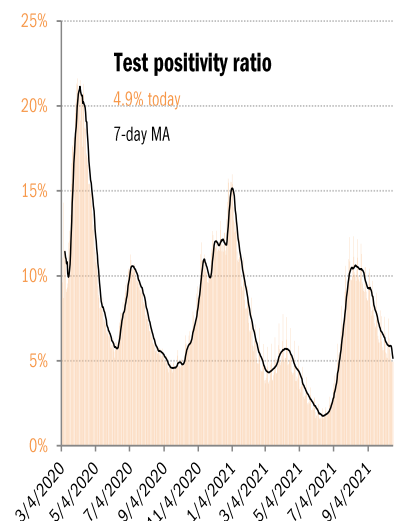
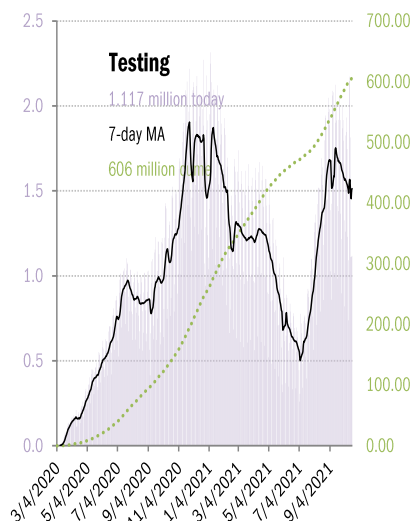
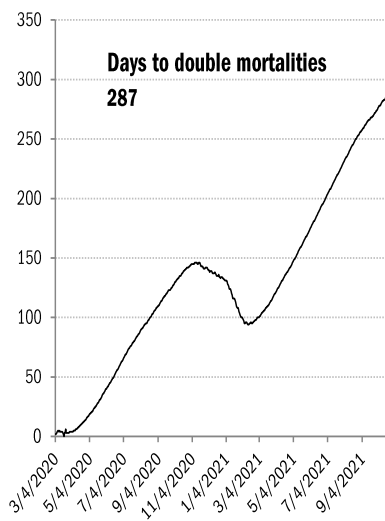
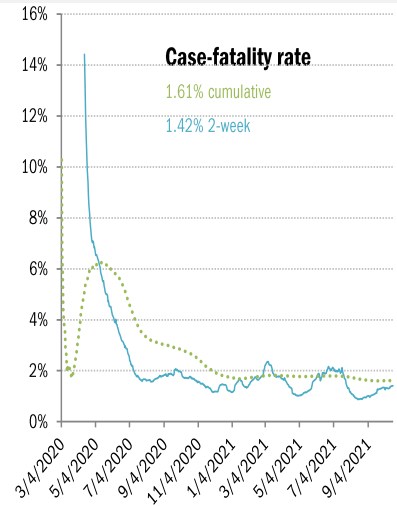
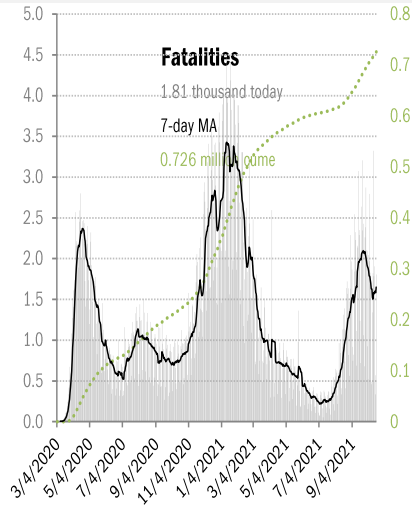
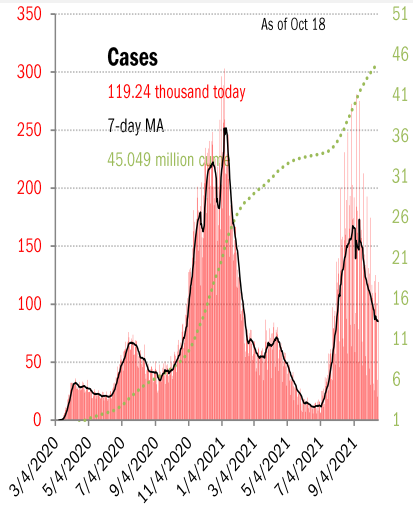
The demographics of US vaccination



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

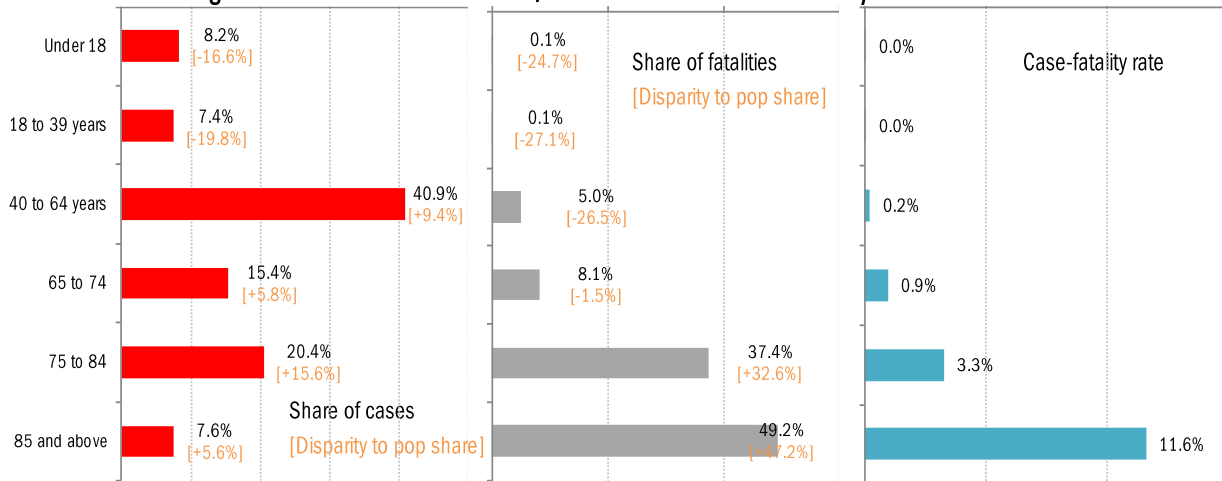
US deep-dive

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

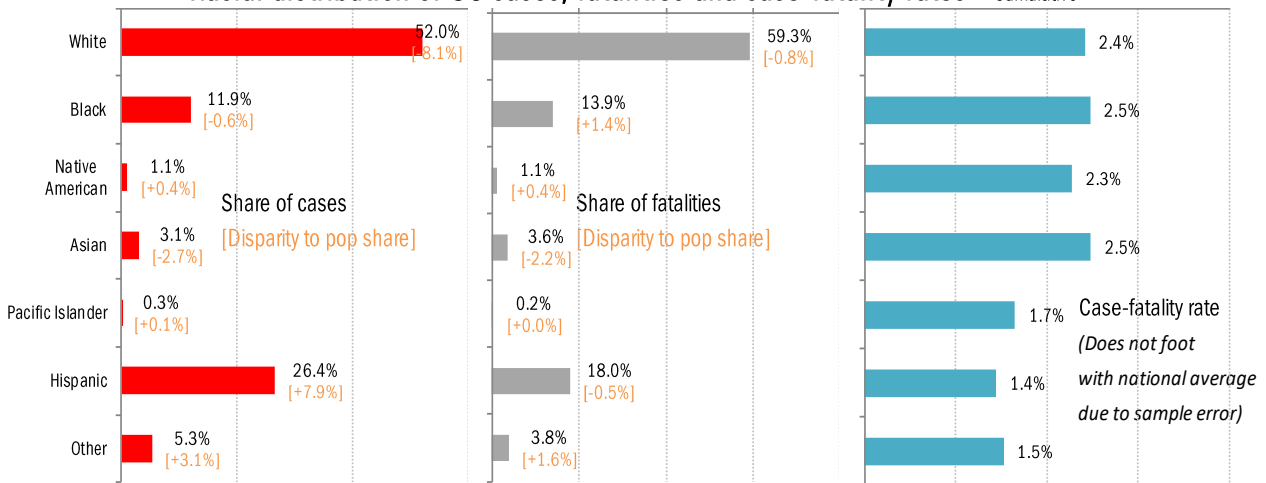


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

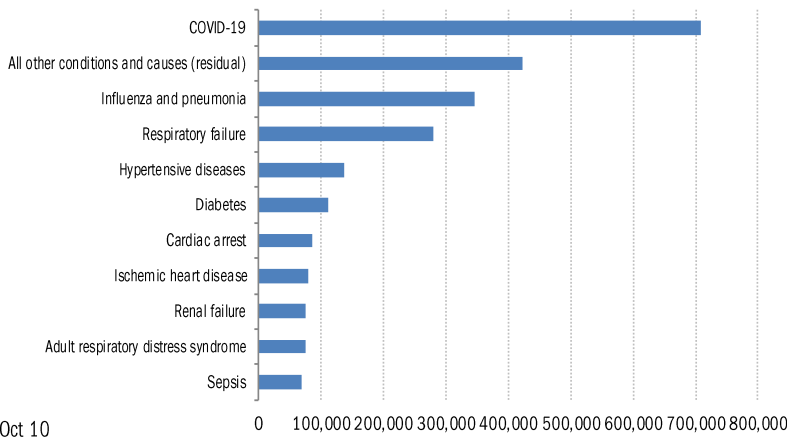


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Oct 10

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.

Recommended reading

[F.D.A. to Allow 'Mix and Match' Approach for Covid Booster Shots](#)

Sharon LaFraniere and Noah Weiland
New York Times
October 18, 2021

[Colin Powell, first Black US secretary of state, dies of Covid-19 complications amid cancer battle](#)

Devan Cole
CNN
October 18, 2021

[U.K. Covid Surge Sparks Call for Probe Into Delta Plus Mutation](#)

Yueqi Yang
Bloomberg
October 17, 2021

[Delta Air Lines CEO ditches 'divisive' COVID vaccine mandate; marks 90% employee vaccination rate](#)

Angelica Stabile
Fox News
October 15, 2021

[Former Australian Member of Parliament Says Pfizer and AstraZeneca Paid Lobbyists to Direct Australia's Leaders to Push Vaccine Mandates](#)

Cristina Laila
Gateway Pundit
October 2, 2021

[Pfizer Senior Director Literally Runs Away After Journalist Confronts Her About COVID Vaccines](#)

Jonathan Davis
Conservative Brief
October 15, 2021

[India's Ivermectin Blackout - Part V: The Secret Revealed](#)

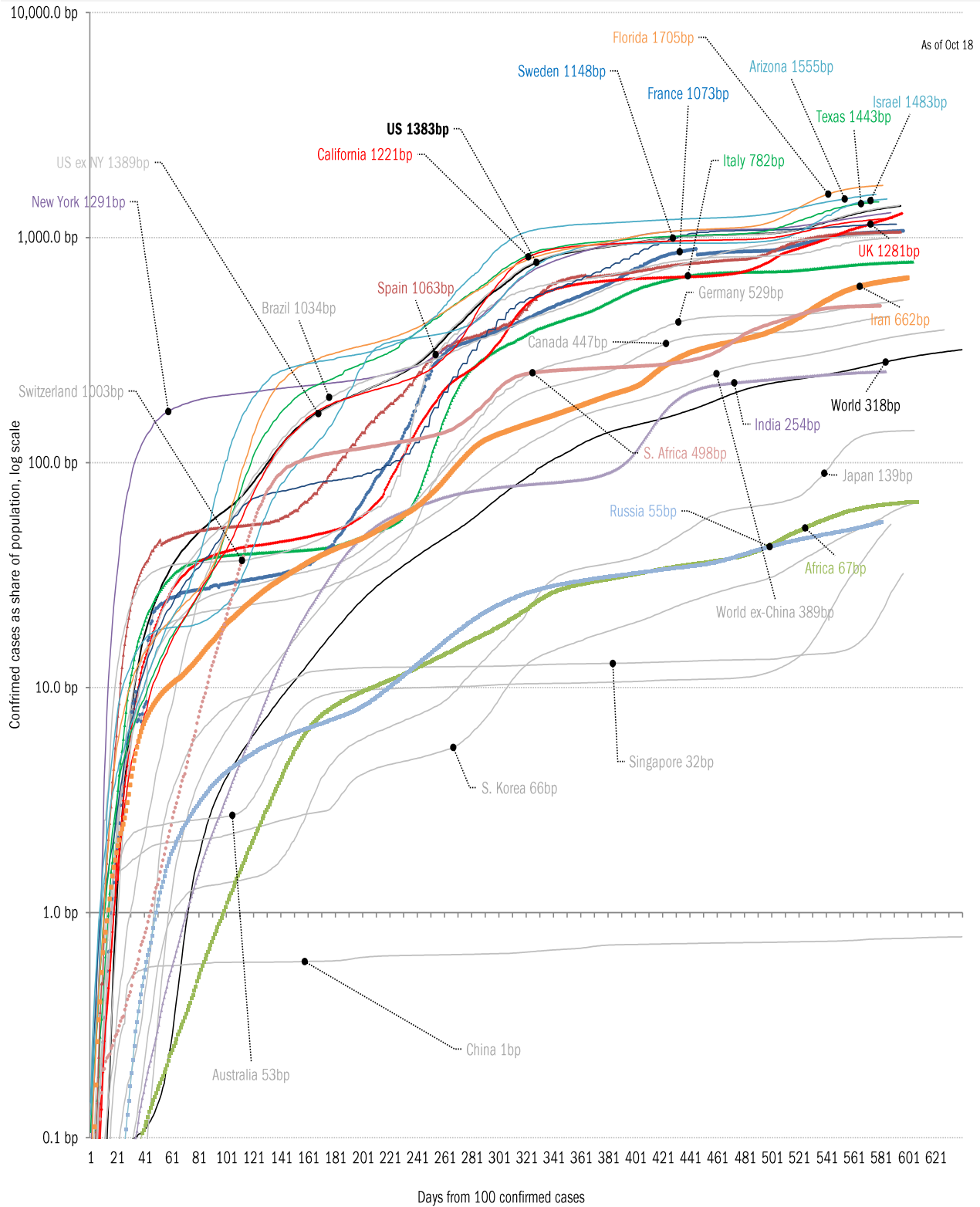
Justus R. Hope, MD
Desert Review
September 27, 2021

Meme of the day



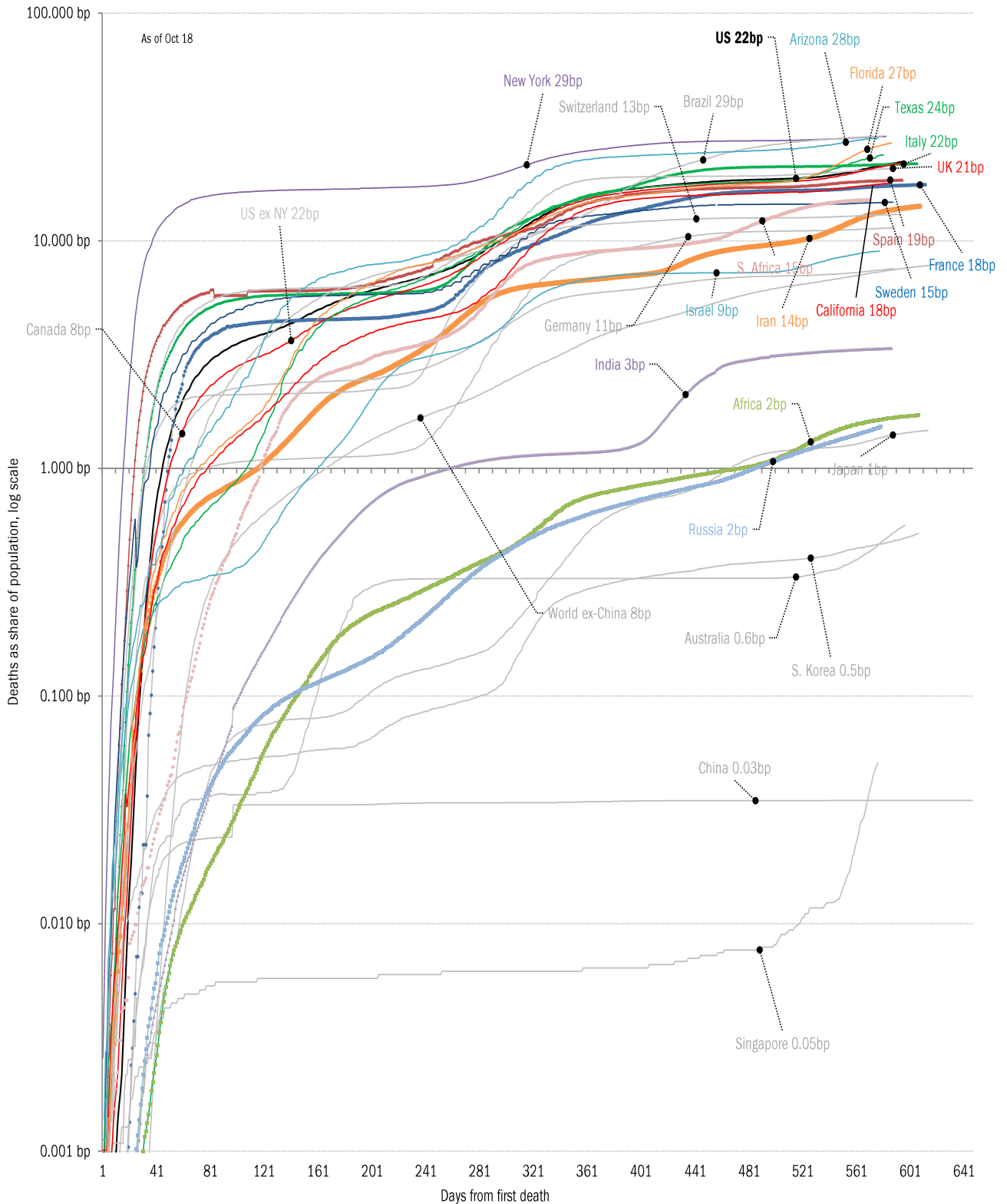
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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

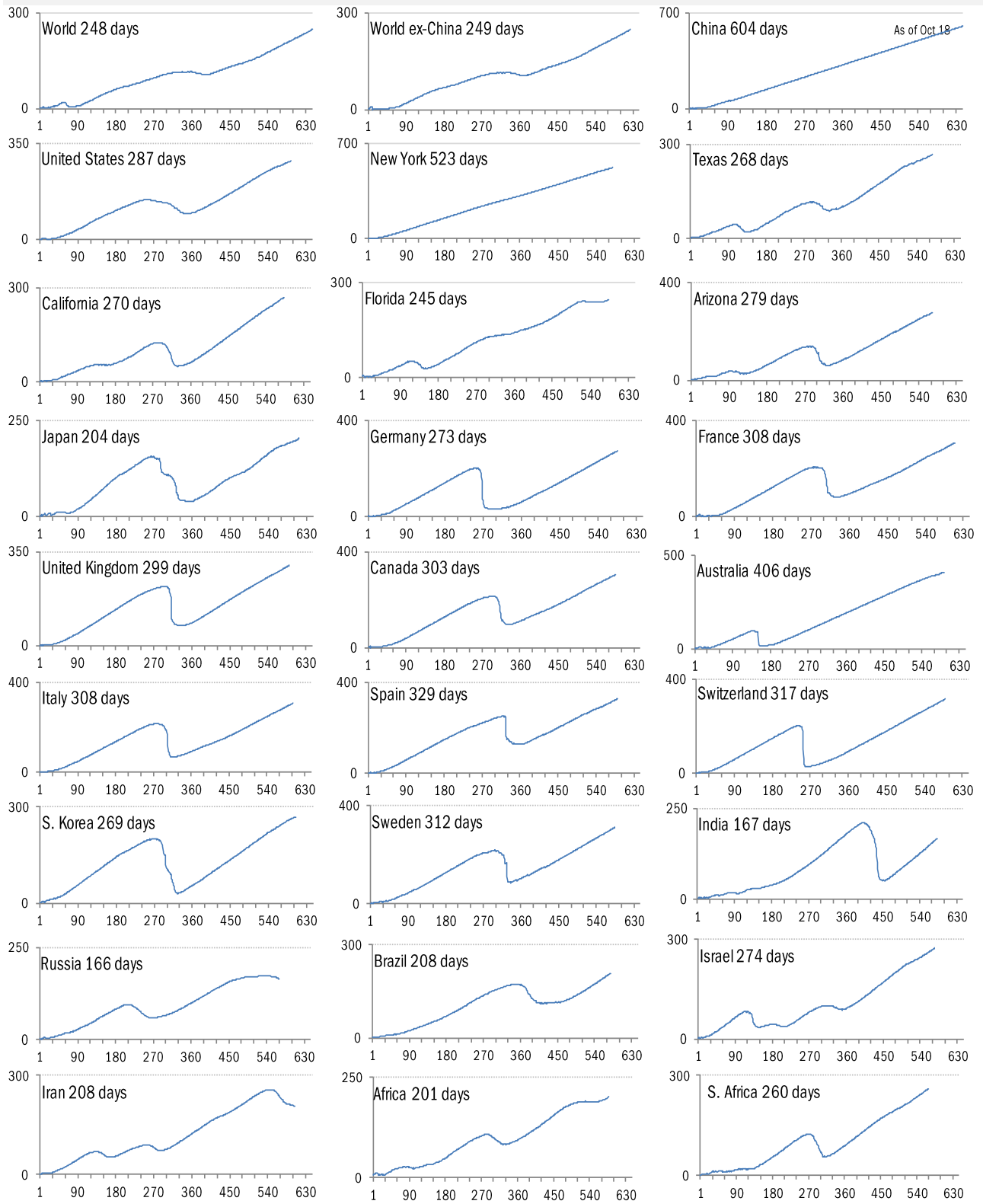


Source: [Johns Hopkins](#), TrendMacro calculations

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

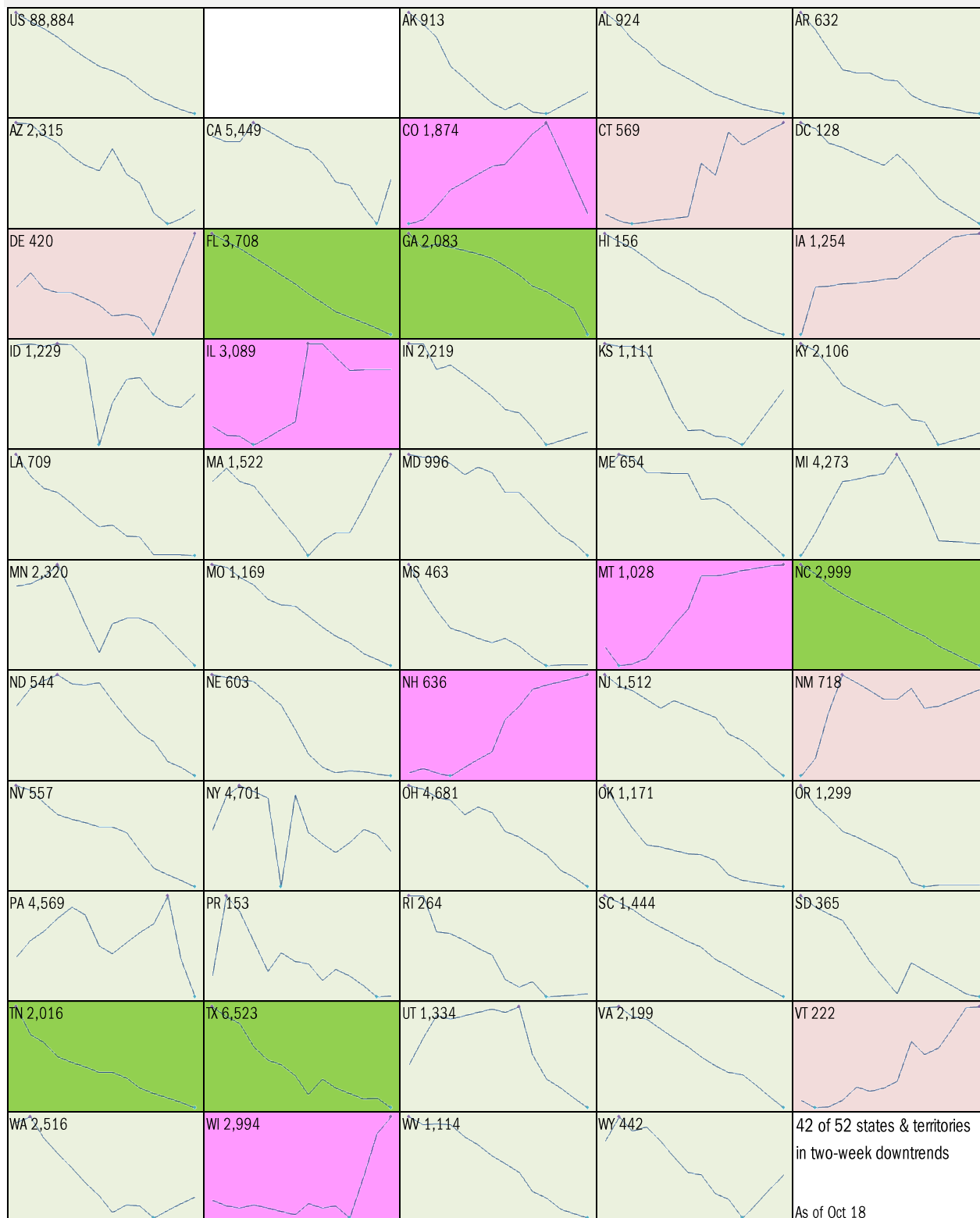
Vertical: days to double deaths Horizontal: days from first death

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

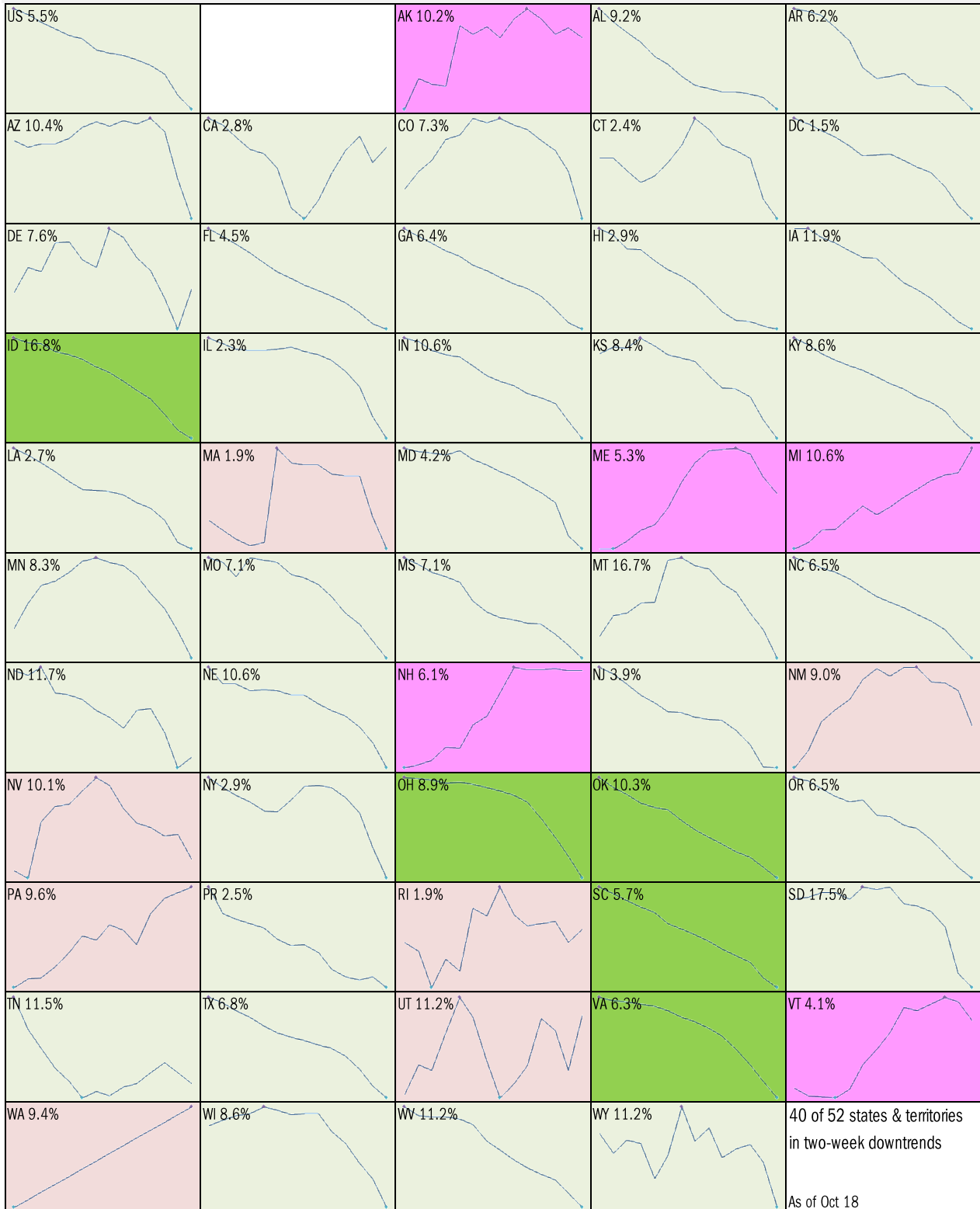


Source: [Johns Hopkins](#), TrendMacro calculations

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

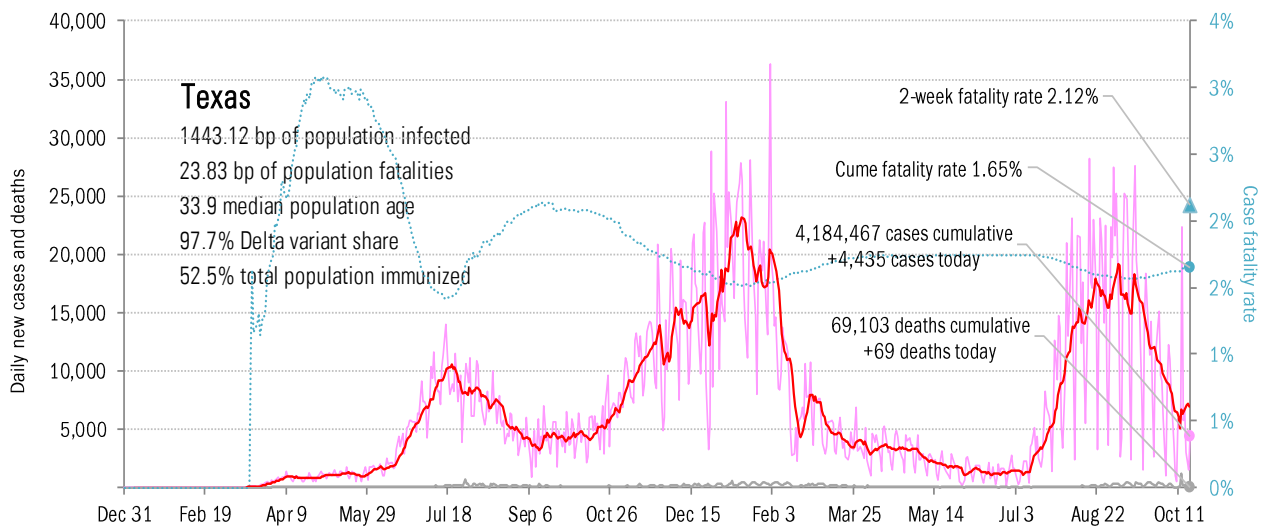
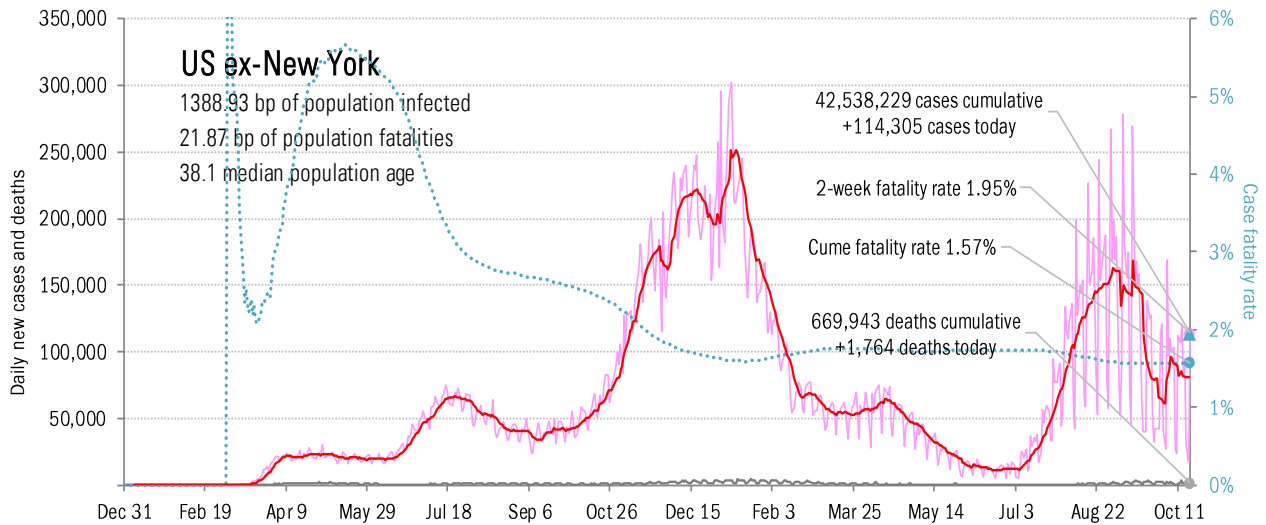
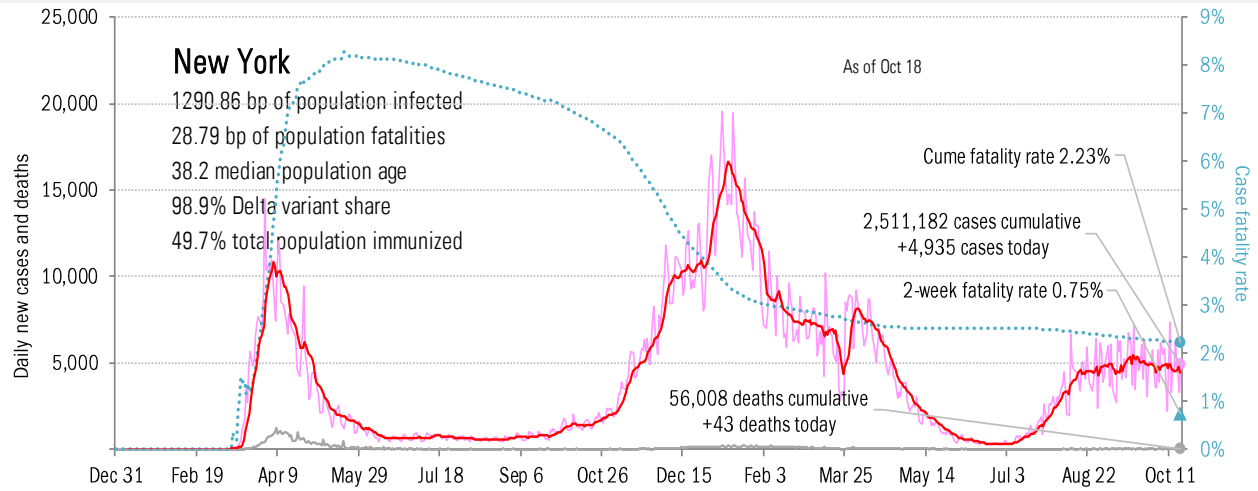
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

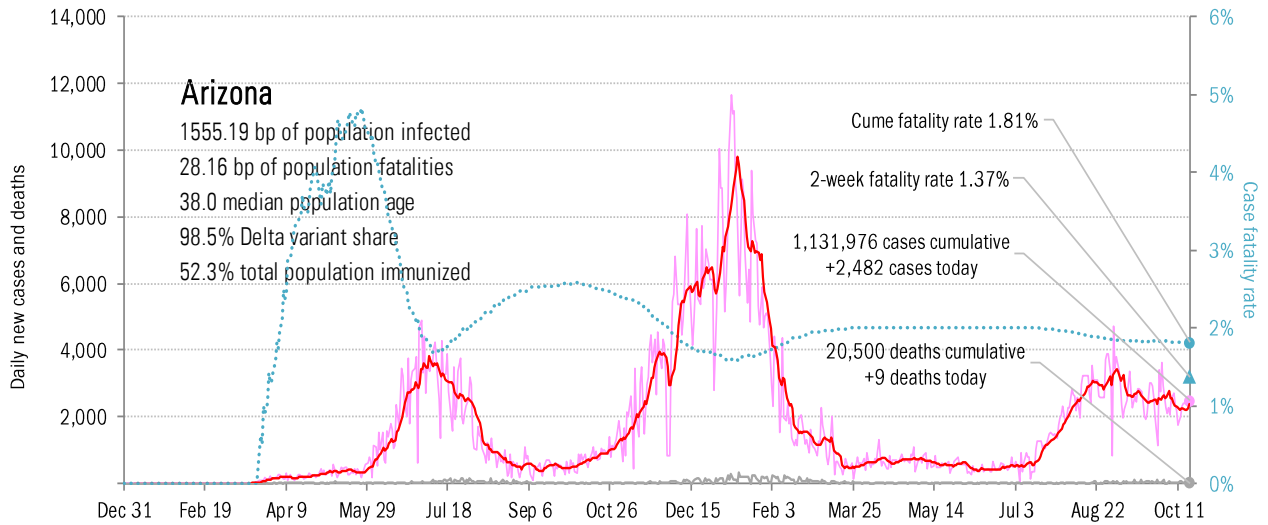
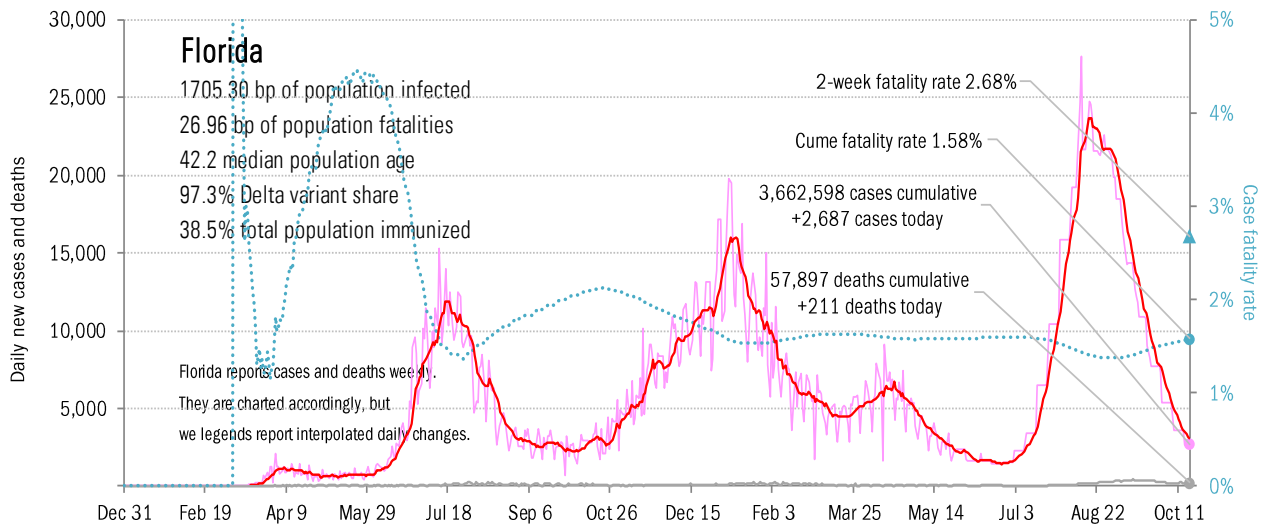
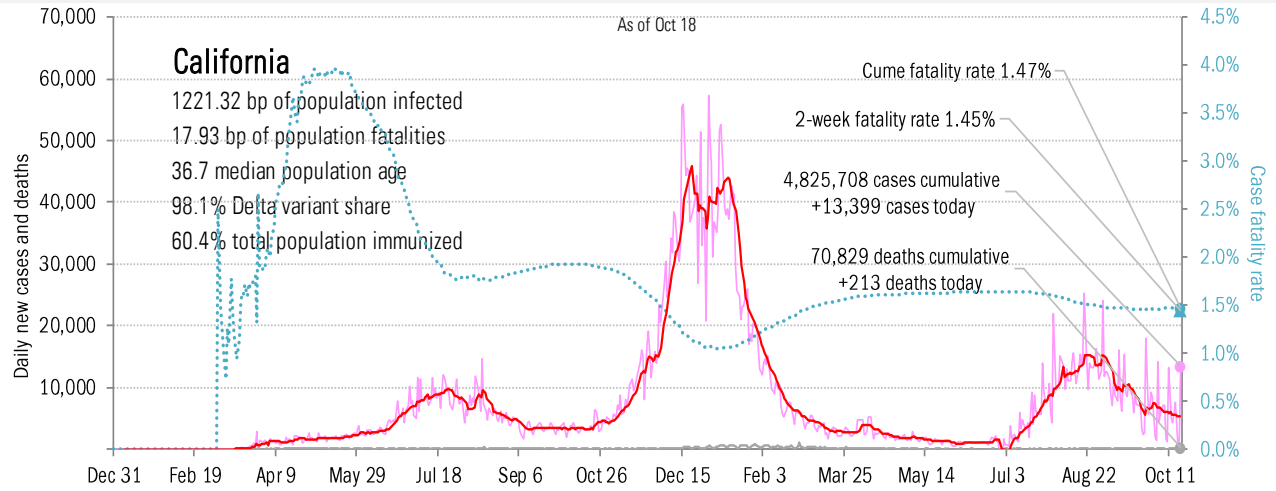
Cases: 7-day average and daily Deaths: Daily



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

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

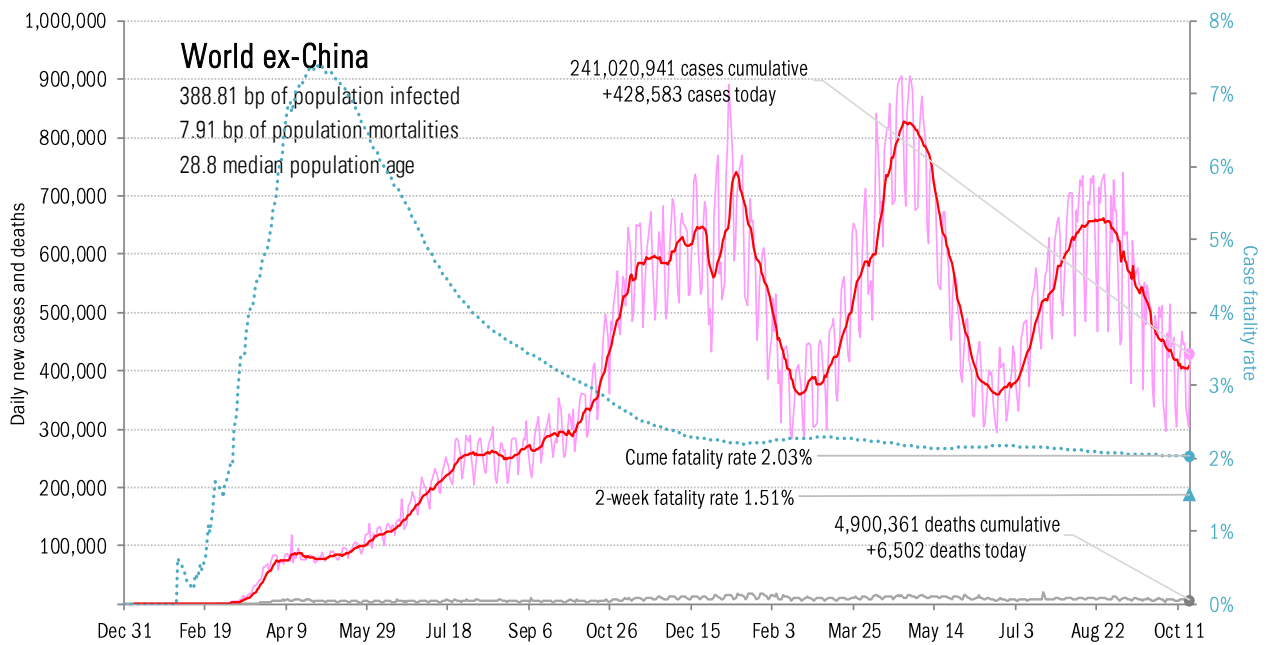
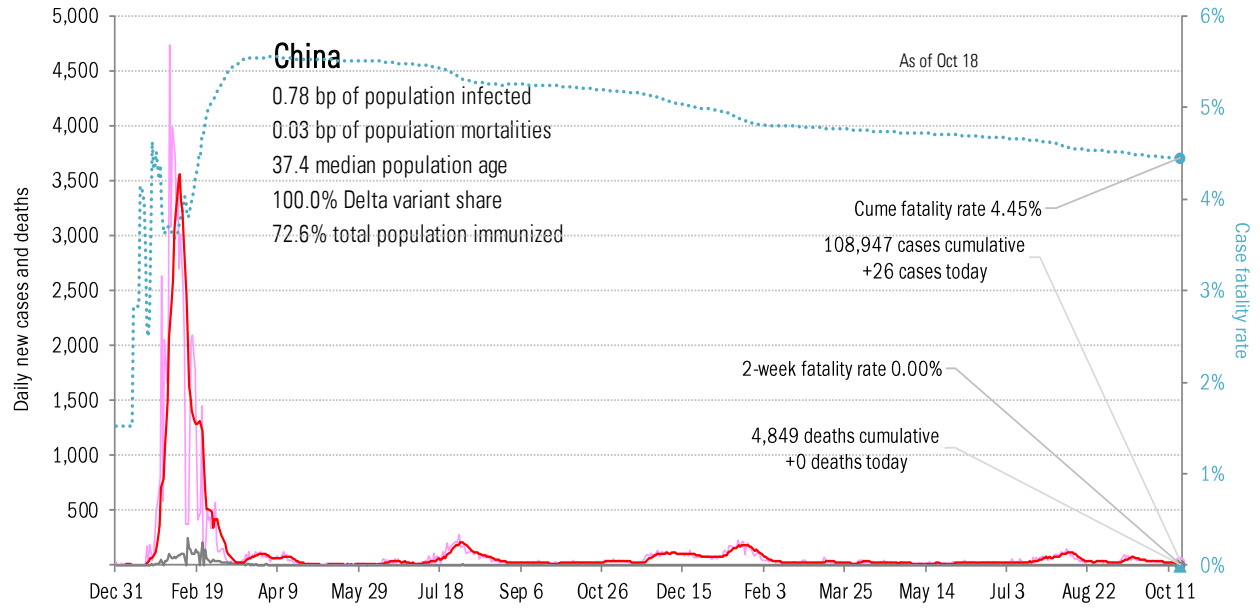
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

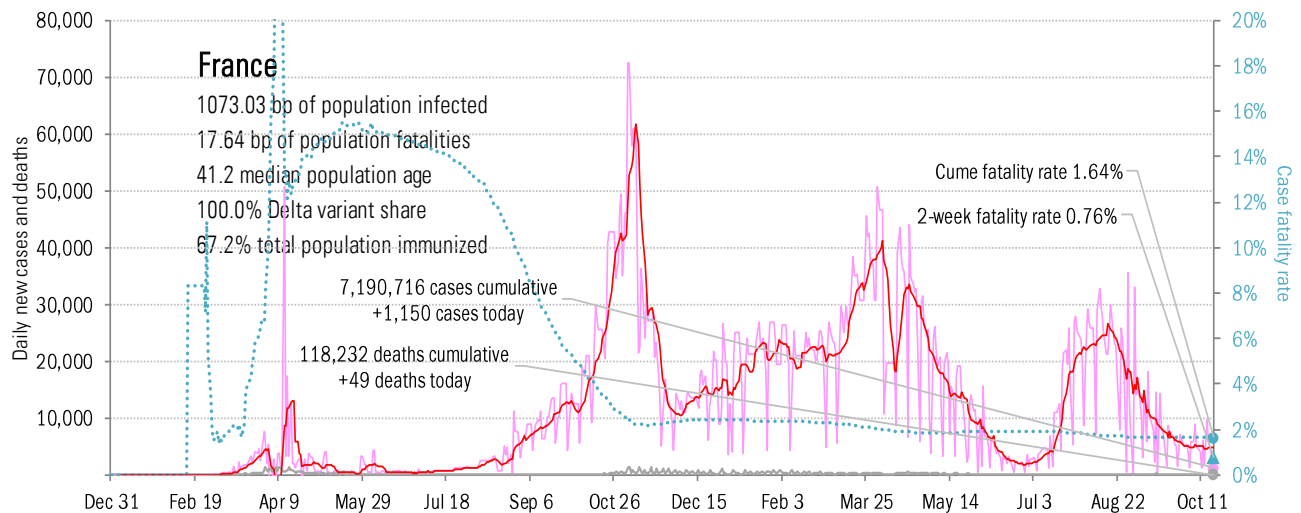
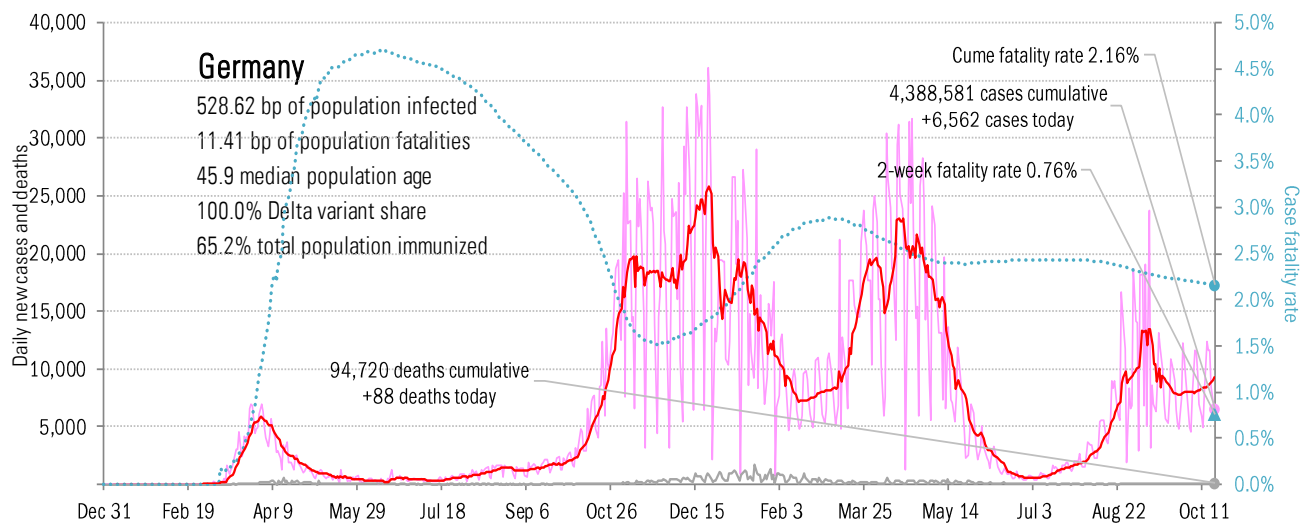
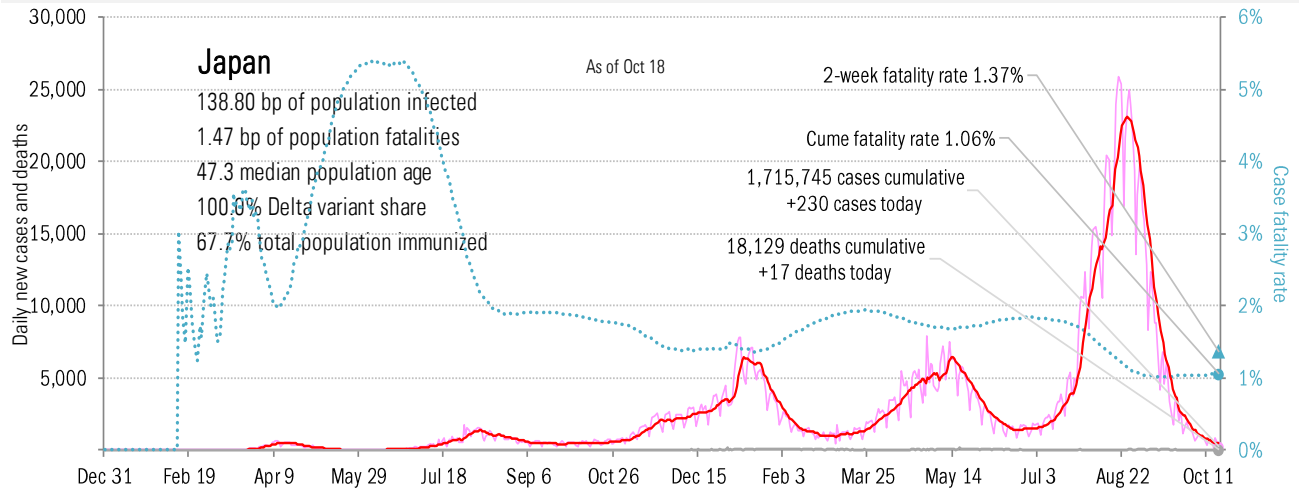
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

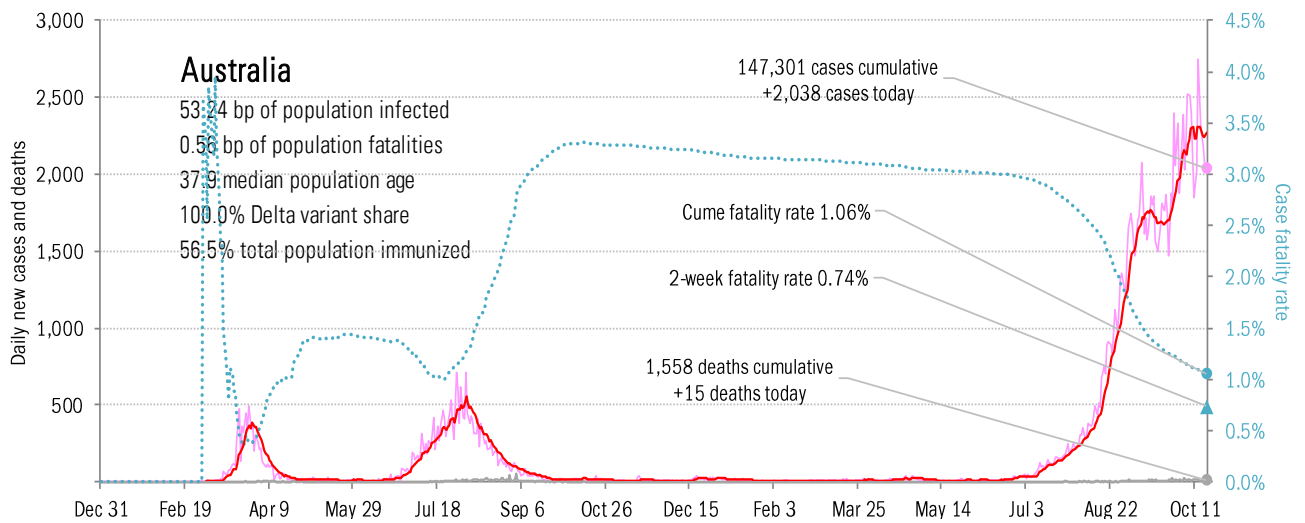
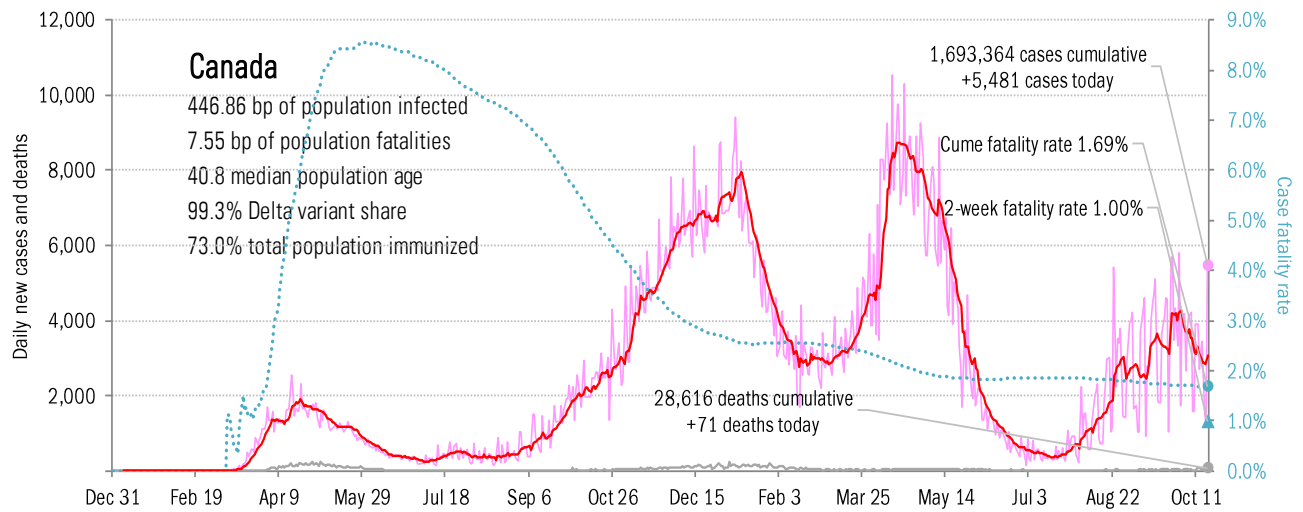
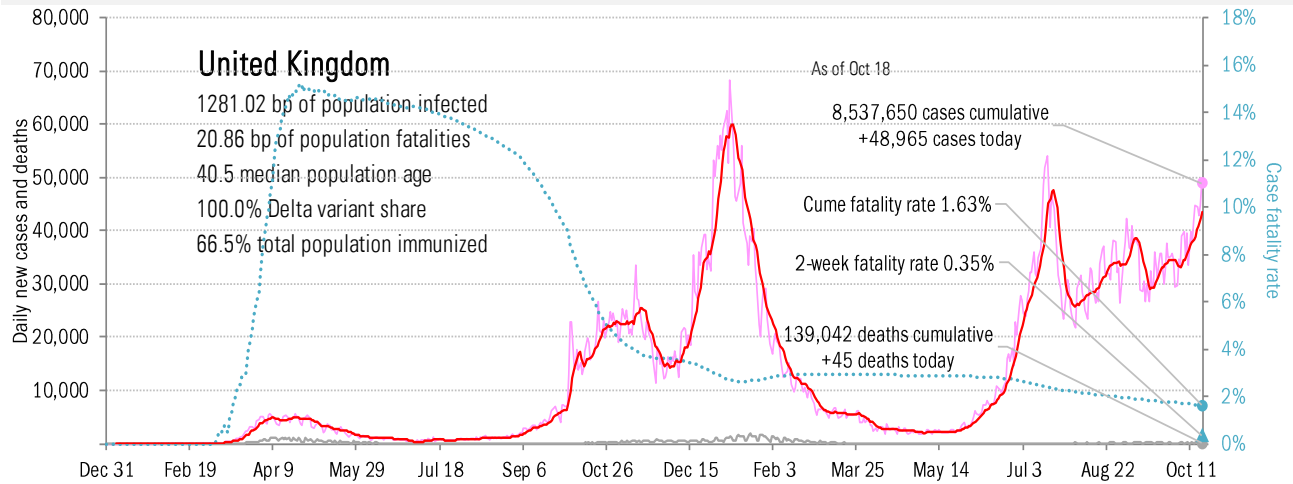
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

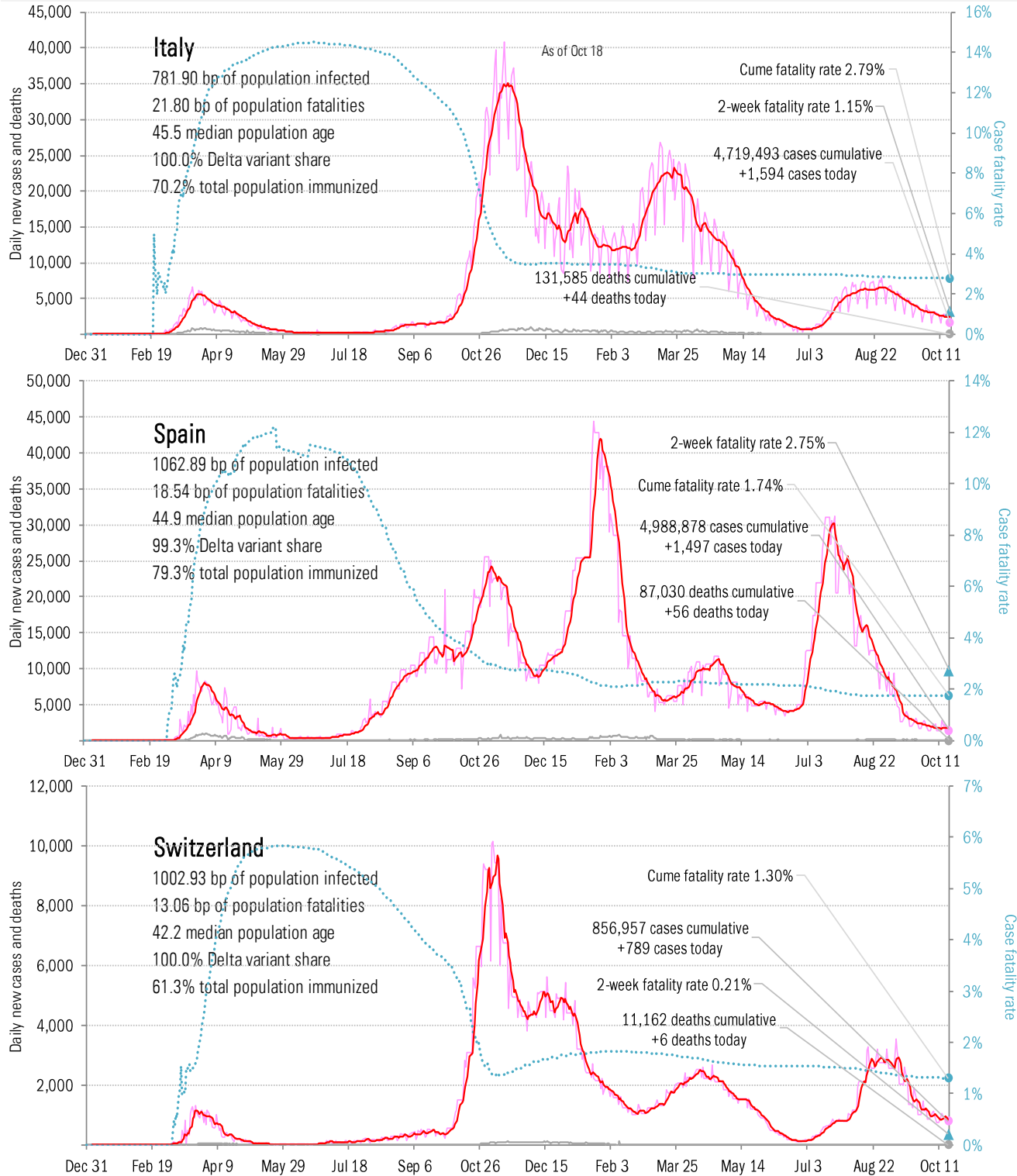
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

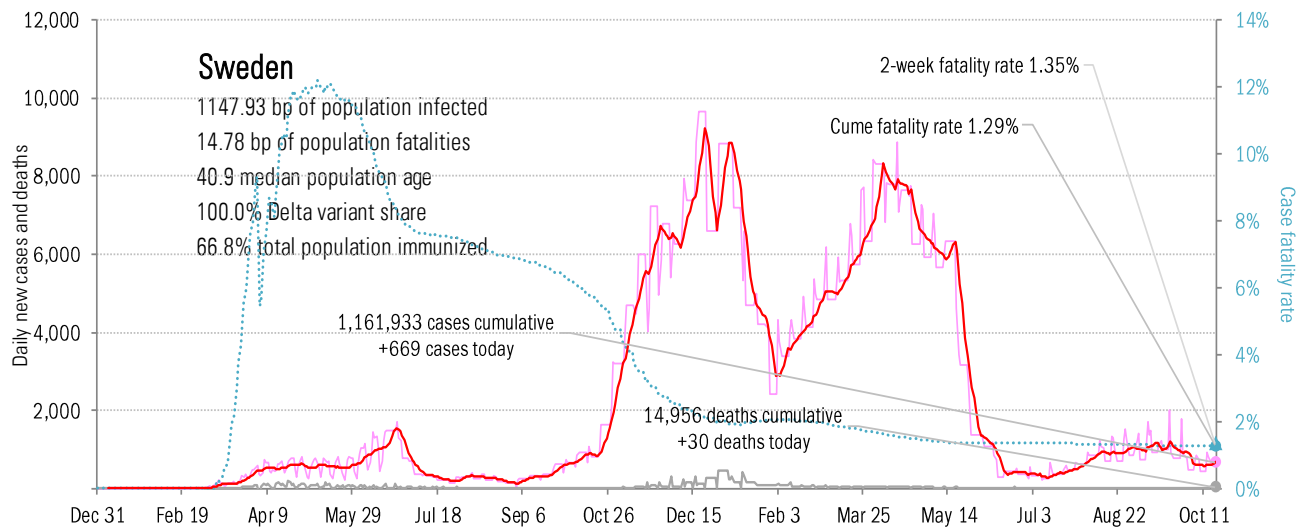
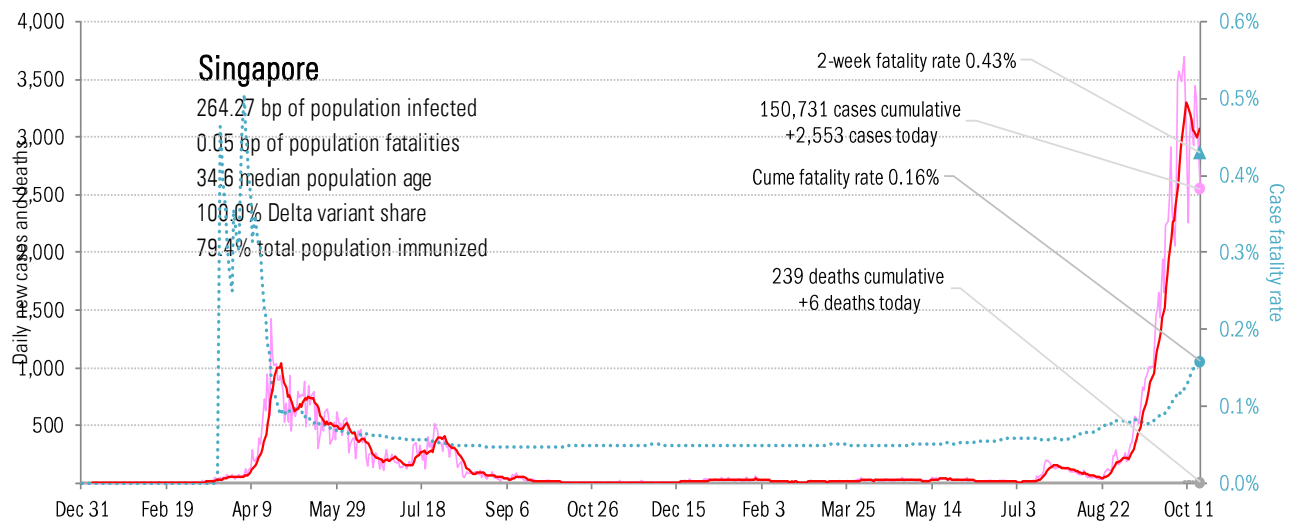
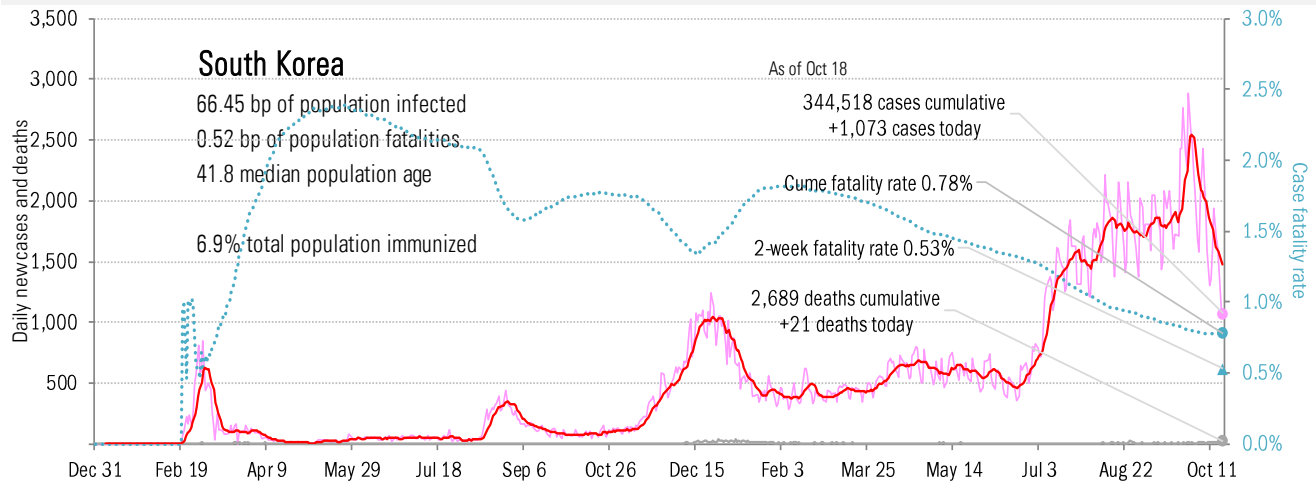
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

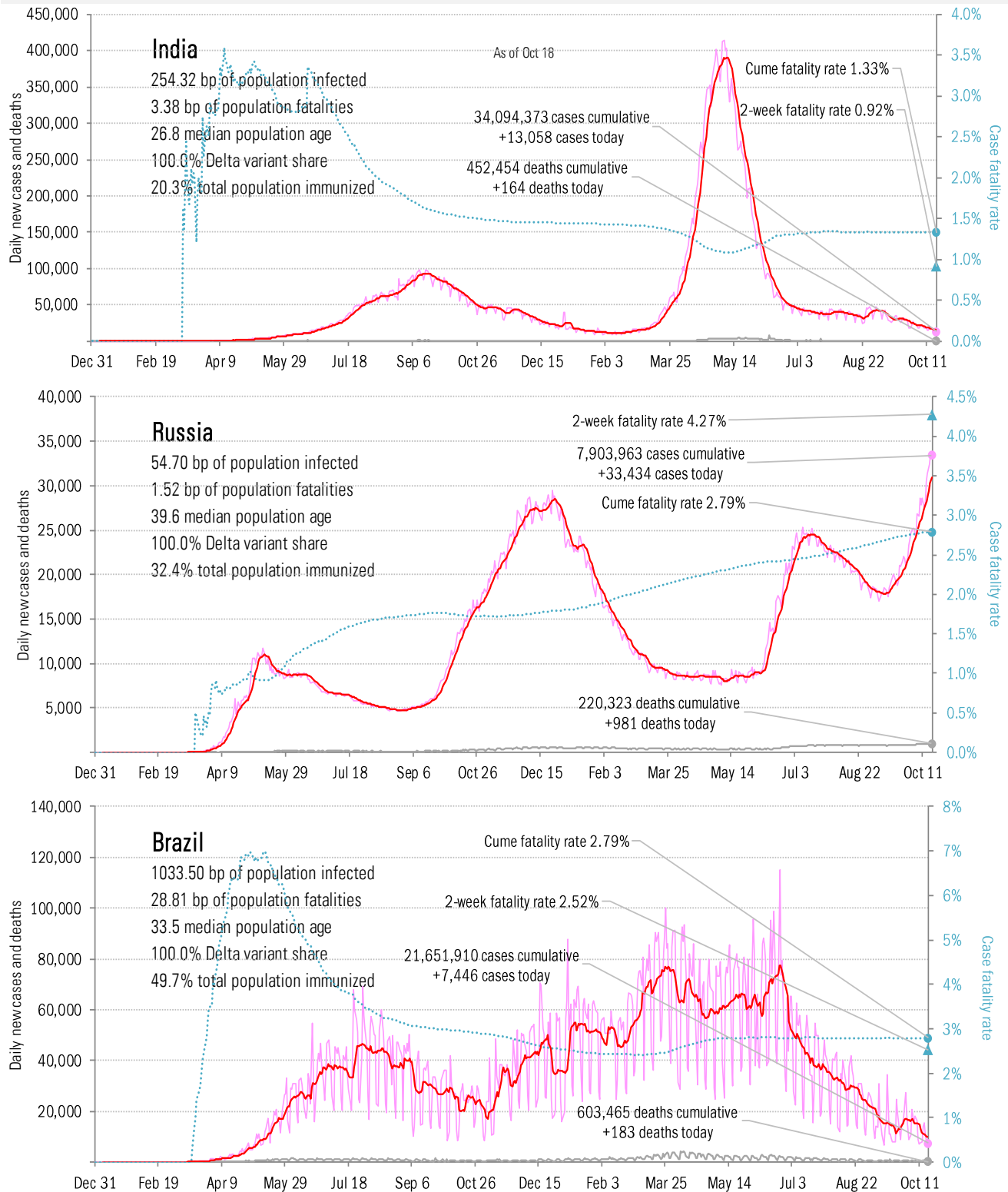
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

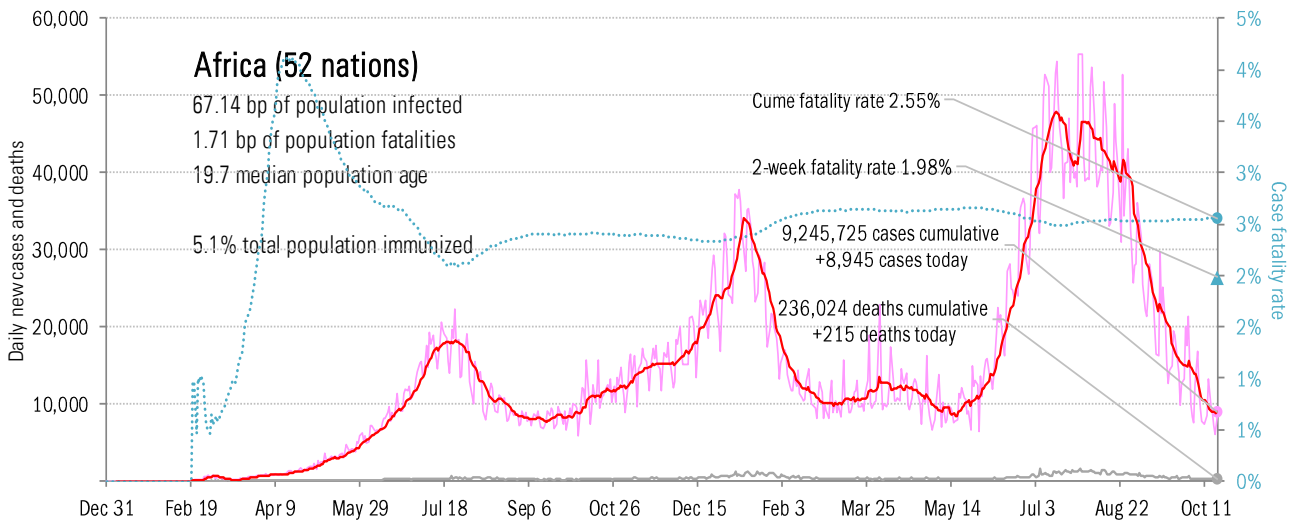
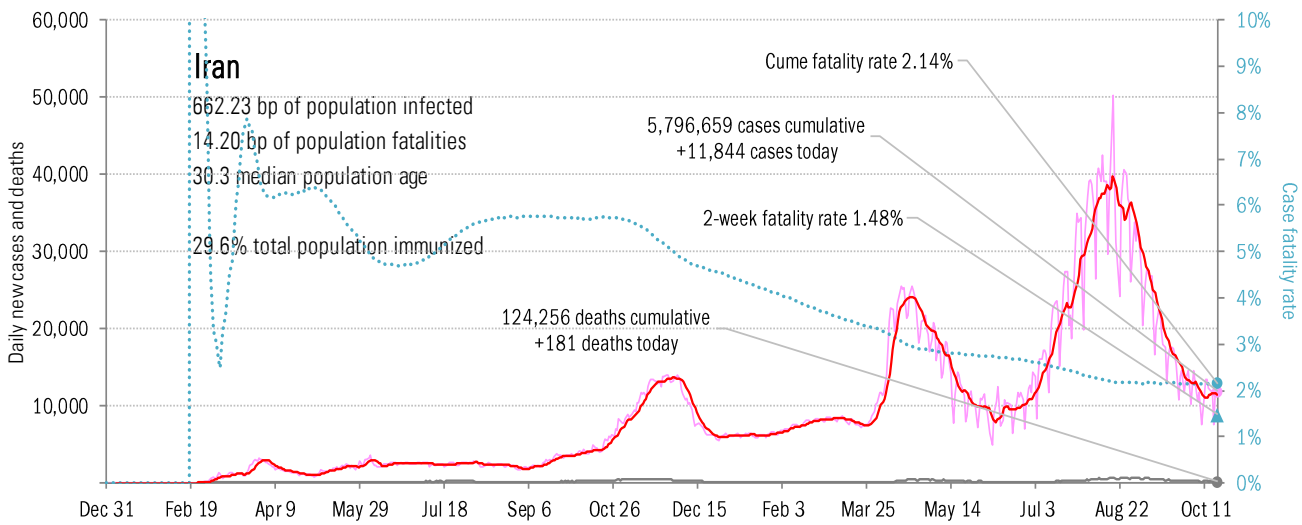
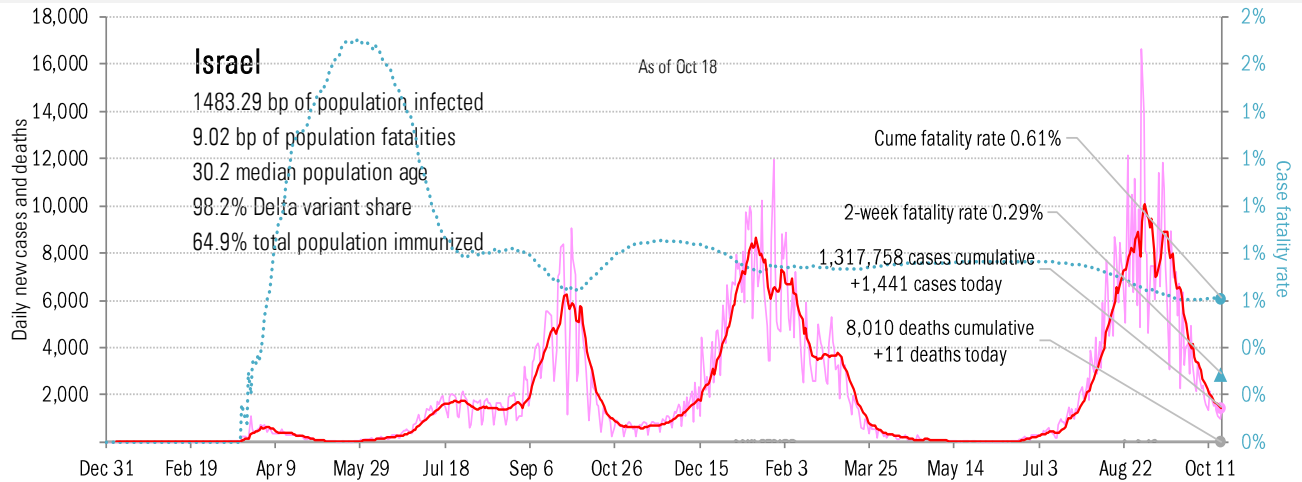
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

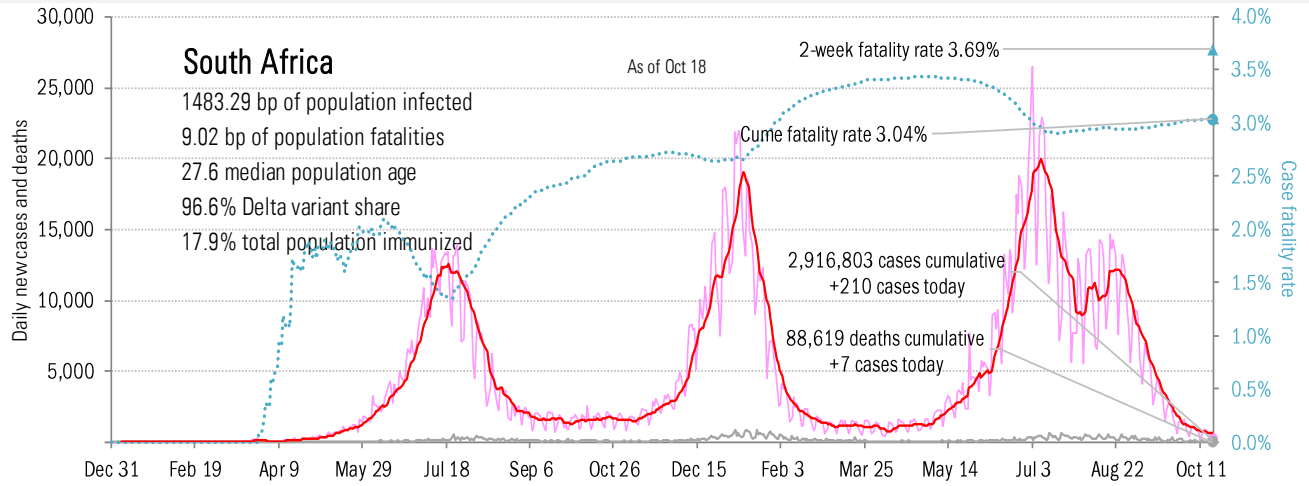
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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