

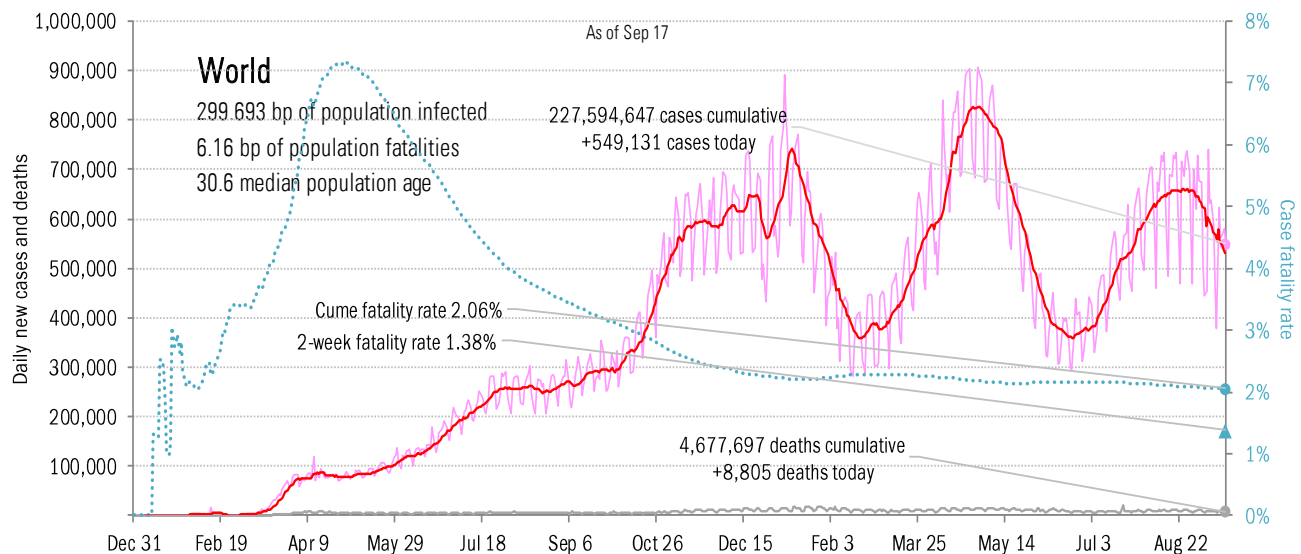
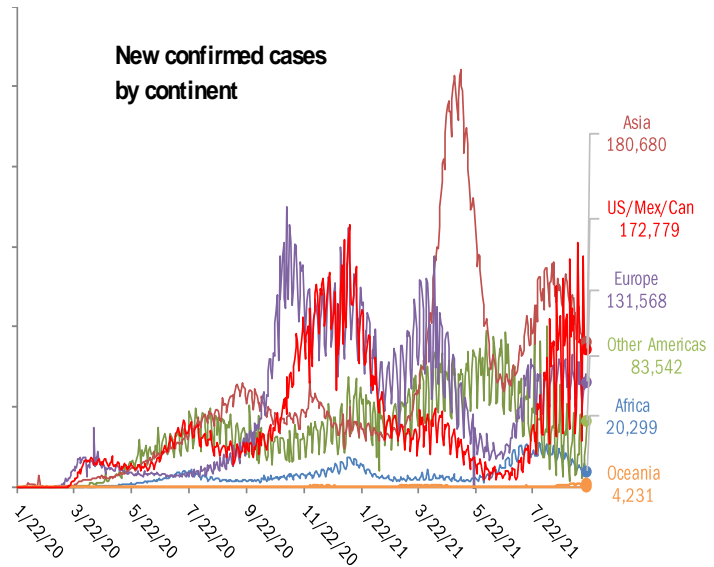
Data Insights: Covid-2019 Monitor

Saturday, September 18, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries			
New cases		New Deaths	
United States	+ 163,918	United States	+ 2,559
India	+ 35,662	Russia	+ 771
United Kingdom	+ 32,566	Malaysia	+ 388
Turkey	+ 27,692	Iran	+ 364
Philippines	+ 20,283	Brazil	+ 327
Russia	+ 19,589	Philippines	+ 310
Iran	+ 17,605	India	+ 281
Malaysia	+ 17,577	Turkey	+ 237
Thailand	+ 14,555	Indonesia	+ 219
Vietnam	+ 11,521	Vietnam	+ 212
+ 360,968		+ 5,668	
World	+ 549,131	World	+ 8,805
Top ten	66%	Top ten	64%



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

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The US scorecard

Cases: 7-day average and daily Deaths: Daily

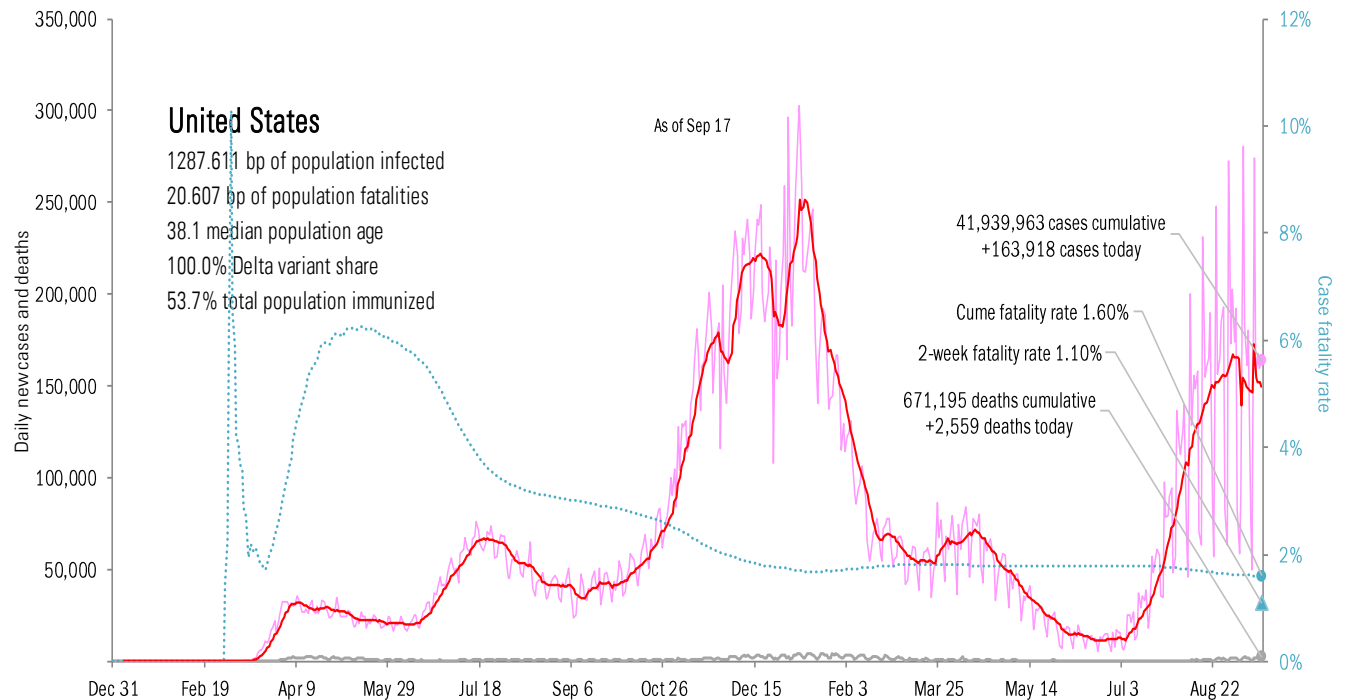
The ten worst US states

New cases			New Deaths			New in hospital			Cume cases			Cume deaths			Cume in hospital			Hospital use		ICU use	
TX	+16,888		TX	+353		CH	+32		CA	4,620,663		CA	67,781		TX	344,703		RI	90%	AL	100%
FL	+10,857		FL	+353		AR	+28		TX	3,925,136		TX	61,558		FL	298,801		GA	89%	GA	97%
CA	+9,816		CH	+206		WA	+21		FL	3,474,872		NY	54,846		CA	291,491		MA	86%	ID	93%
CH	+8,447		AL	+192		GA	+20		NY	2,362,682		FL	49,800		NY	151,997		PA	85%	TX	93%
NC	+7,905		GA	+117		IA	+19		IL	1,590,342		PA	28,812		GA	146,581		MD	85%	AR	93%
MI	+6,686		CA	+113		ME	+15		GA	1,525,114		NJ	27,165		CH	105,361		SC	85%	KY	93%
TN	+6,446		NY	+104		MI	+15		PA	1,370,247		IL	26,979		KY	103,030		CT	84%	MS	91%
NY	+6,002		NC	+95		WV	+15		CH	1,336,061		GA	24,577		PA	102,578		MO	84%	OK	90%
GA	+5,592		SC	+82		MT	+12		NC	1,330,492		MI	21,997		IL	97,023		FL	83%	FL	89%
PA	+5,198		MI	+77		CO	+10		TN	1,178,168		CH	21,471		MI	80,806		DC	83%	RI	88%
+83,837			+1,692			+187			22,713,777			384,986			1,722,371						
All states	+163,918		+2,559			-1053			All states	41,939,963		671,195			3,052,954			All states	70%		67%
Top ten	51%		66%			-18%			Top ten	54%		57%			56%			Median	79%		81%

Some states not reporting

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-3,448	GA	-80	KY	-180	FR	+90 bp
AL	-998	CA	-73	AL	-132	GA	+40 bp
TX	-916	PA	-28	TN	-118	AL	+30 bp
NY	-780	ID	-27	NY	-114	DE	+30 bp
IL	-748	TX	-22	SC	-101	TX	+30 bp

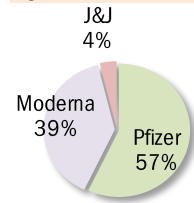


Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

Rolling out the vaccines in the US and the world

Administered	Cumulative	Today	Immunity	Full	Partial
Doses	394,801,195	+0.983 million	US	53.7%	62.8%
	One dose	% Pop	Immune	% pop	New immune today
Total population	216,228,156	65%	185,124,081	55%	+0.495 million
Age 12 to 17	13,301,812	56%	10,588,080	45%	+0.068 million
Age 18 to 64	149,324,129	73%	126,854,482	62%	+0.368 million
Age 65 and over	52,550,877	96%	46,823,550	86%	+0.057 million

France	63.7%	73.6%
Spain	76.6%	80.0%
Germany	62.3%	66.4%
Italy	65.3%	73.1%
Australia	36.0%	57.3%
Israel	63.4%	68.9%
Canada	69.1%	75.2%
Japan	53.3%	65.6%
Africa	3.8%	6.0%
India	13.7%	42.1%
Brazil	36.5%	67.8%
China	70.0%	75.8%



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

Best
Middle
Worst

Every American >18 immune in **94 days** by Dec 20, 2021
67.2% of population >18 immunized
14.3% previously tested positive
81.5% vs 60% adult herd immunity

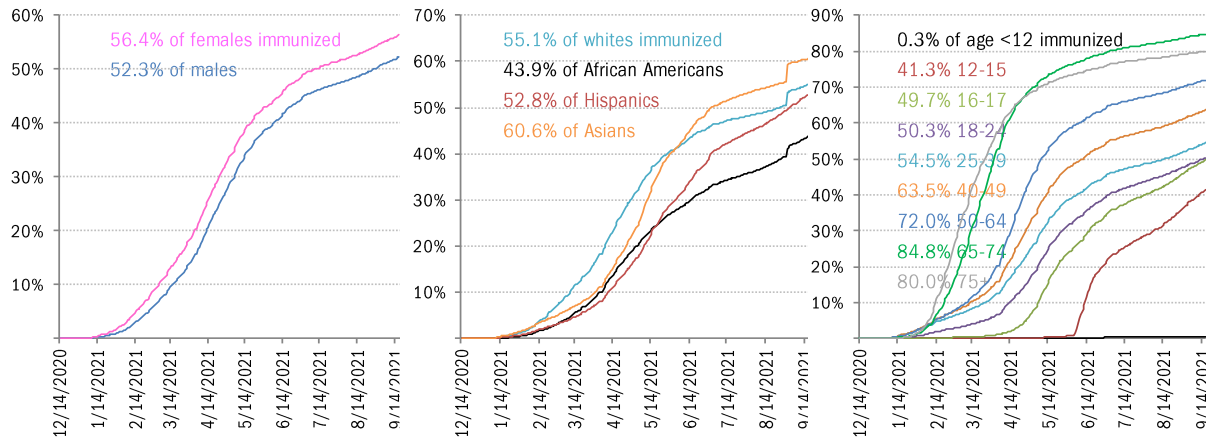
AK
56.3%
48.8%

WI
60.1%
55.4%

ME
73.1%
67.3%

WA 70.2% 62.1%	ID 45.9% 40.6%	MT 53.8% 47.6%	ND 50.0% 43.1%	MN 62.9% 57.3%	IL 67.5% 52.5%	MI 56.1% 51.4%	NY 69.7% 62.3%	VT 77.1% 68.8%	NH 68.6% 60.9%	
OR 65.8% 59.6%	NV 59.7% 49.6%	WY 47.4% 40.5%	SD 58.1% 50.6%	IA 57.4% 53.1%	IN 51.4% 47.5%	OH 53.5% 49.4%	PA 71.2% 56.8%	NJ 71.6% 63.2%	MA 76.5% 67.0%	
CA 70.5% 57.6%	UT 57.9% 49.2%	CO 64.7% 58.4%	NE 58.7% 53.7%	MO 54.0% 46.8%	KY 59.4% 50.7%	WV 47.7% 40.1%	VA 67.0% 59.0%	MD 69.7% 63.1%	CT 75.1% 67.6%	RI 73.8% 66.7%
	AZ 58.4% 50.1%	NM 71.6% 61.9%	KS 58.9% 50.0%	AR 54.9% 44.3%	TN 51.7% 44.0%	NC 58.1% 48.4%	SC 54.0% 45.6%	DC 69.4% 59.0%	DE 65.4% 56.8%	
		OK 55.5% 46.2%	LA 50.9% 44.0%	MS 49.1% 41.7%	AL 51.7% 41.0%	GA 53.8% 43.9%				
		TX 58.9% 49.8%					FL 65.9% 55.7%		PR 78.1% 68.3%	

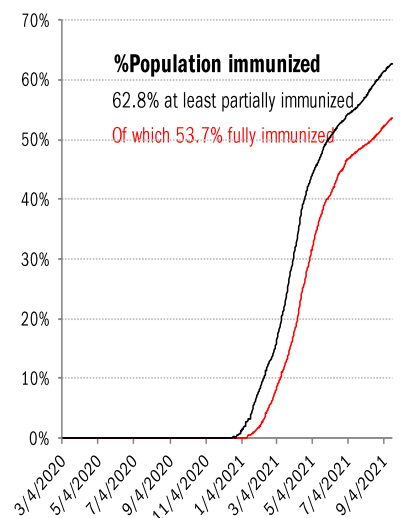
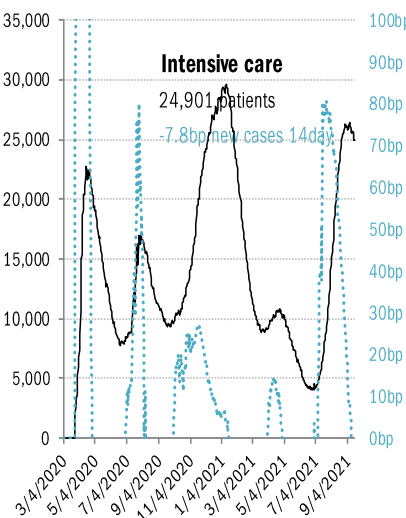
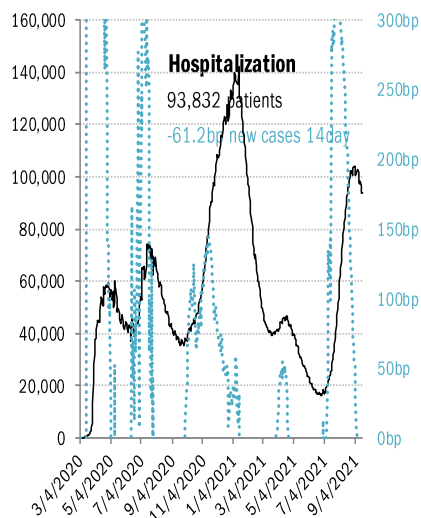
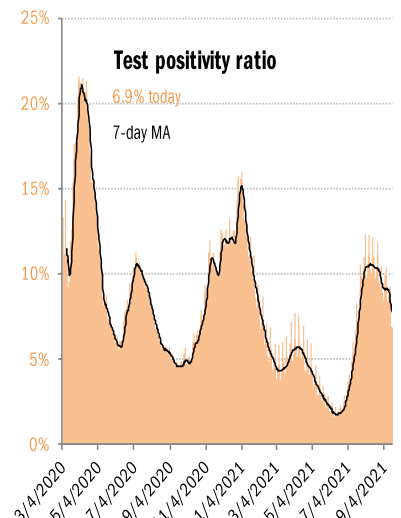
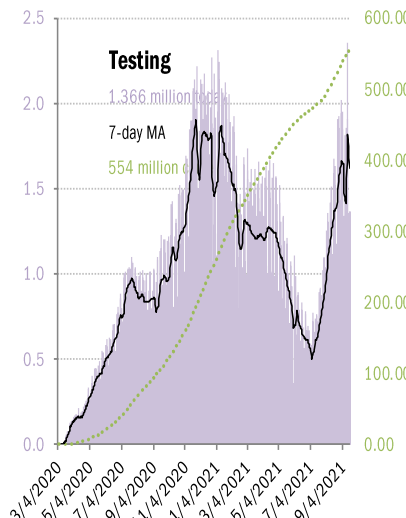
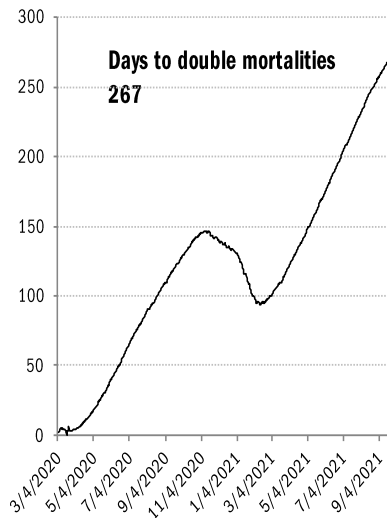
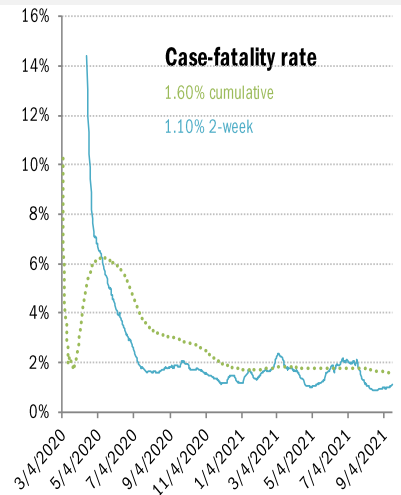
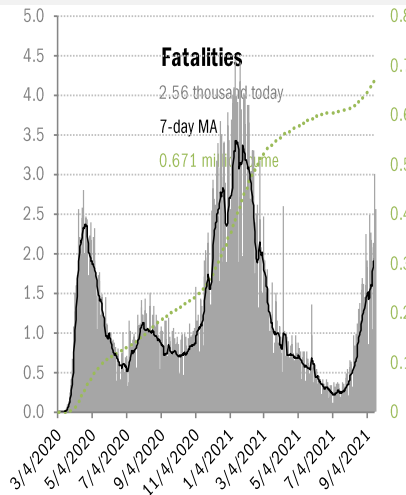
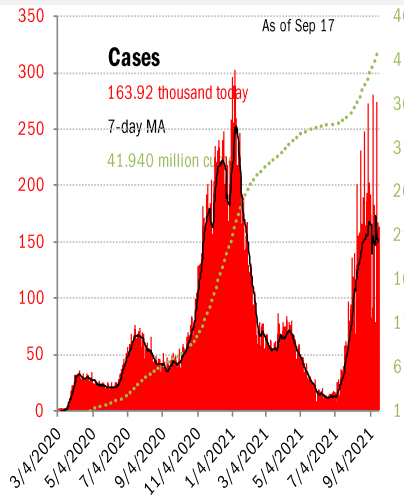
The demographics of US vaccination



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

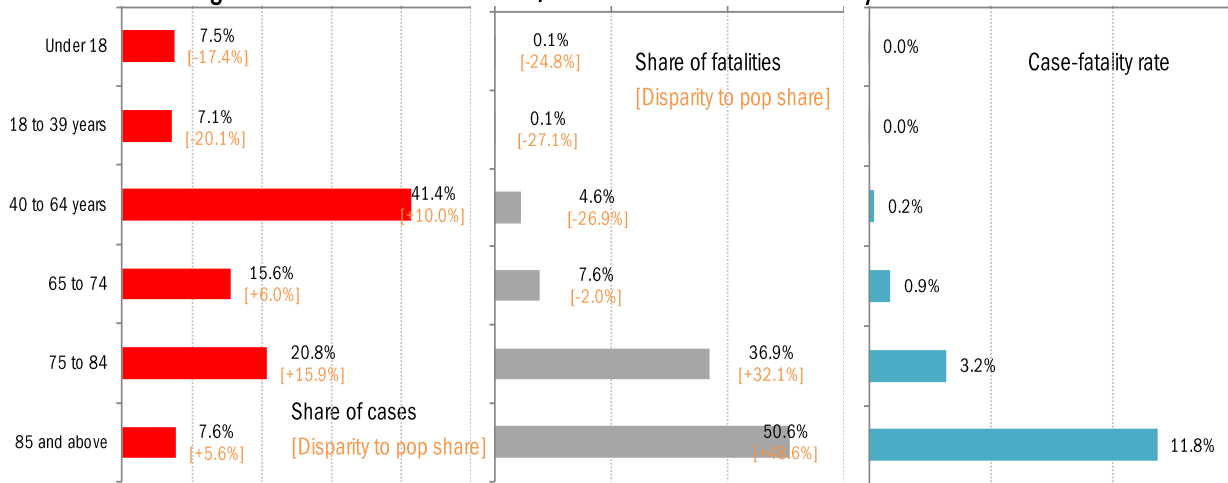
US deep-dive

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

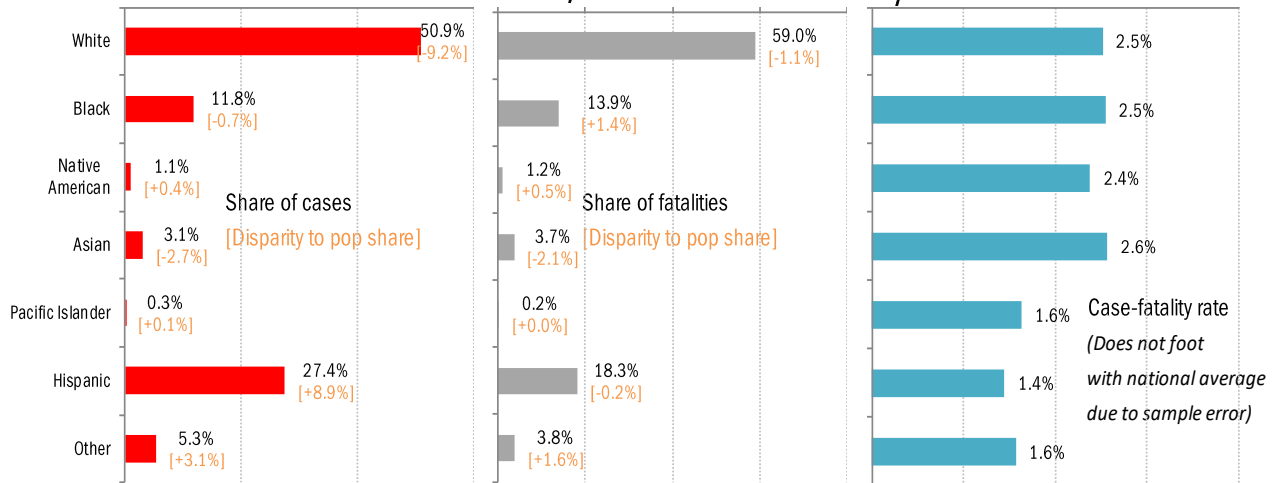


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

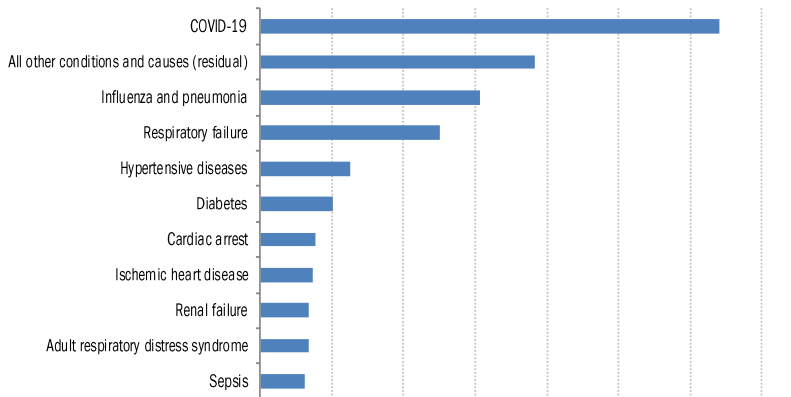


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Sep 5

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. Advisory Panel Recommends Pfizer Boosters for Older People and Others at High Risk](#)

Sharon LaFraniere and Noah Weiland
New York Times
September 17, 2021

[Biden plans a coronavirus summit next week, aiming to create a 'bigger tent' to fight the pandemic.](#)

Sheryl Gay Stolberg and Lara Jake
New York Times
September 17, 2021

[An F.D.A. panel recommended against approving a Pfizer-BioNTech booster for people 16 and older.](#)

Noah Weiland and Sharon LaFraniere
New York Times
September 17, 2021

[Here's where – and why – San Francisco Marathon runners will need to wear masks](#)

Marcus White
KCBS
September 17, 2021

[Comparative Effectiveness of Moderna, Pfizer-BioNTech, and Janssen \(Johnson & Johnson\) Vaccines in Preventing COVID-19 Hospitalizations Among Adults Without Immunocompromising Conditions — United States, March–August 2021](#)

Wesley H. Self et al.
CDC
September 17, 2021

[Why the Empire State Building, and New York, May Never Be the Same](#)

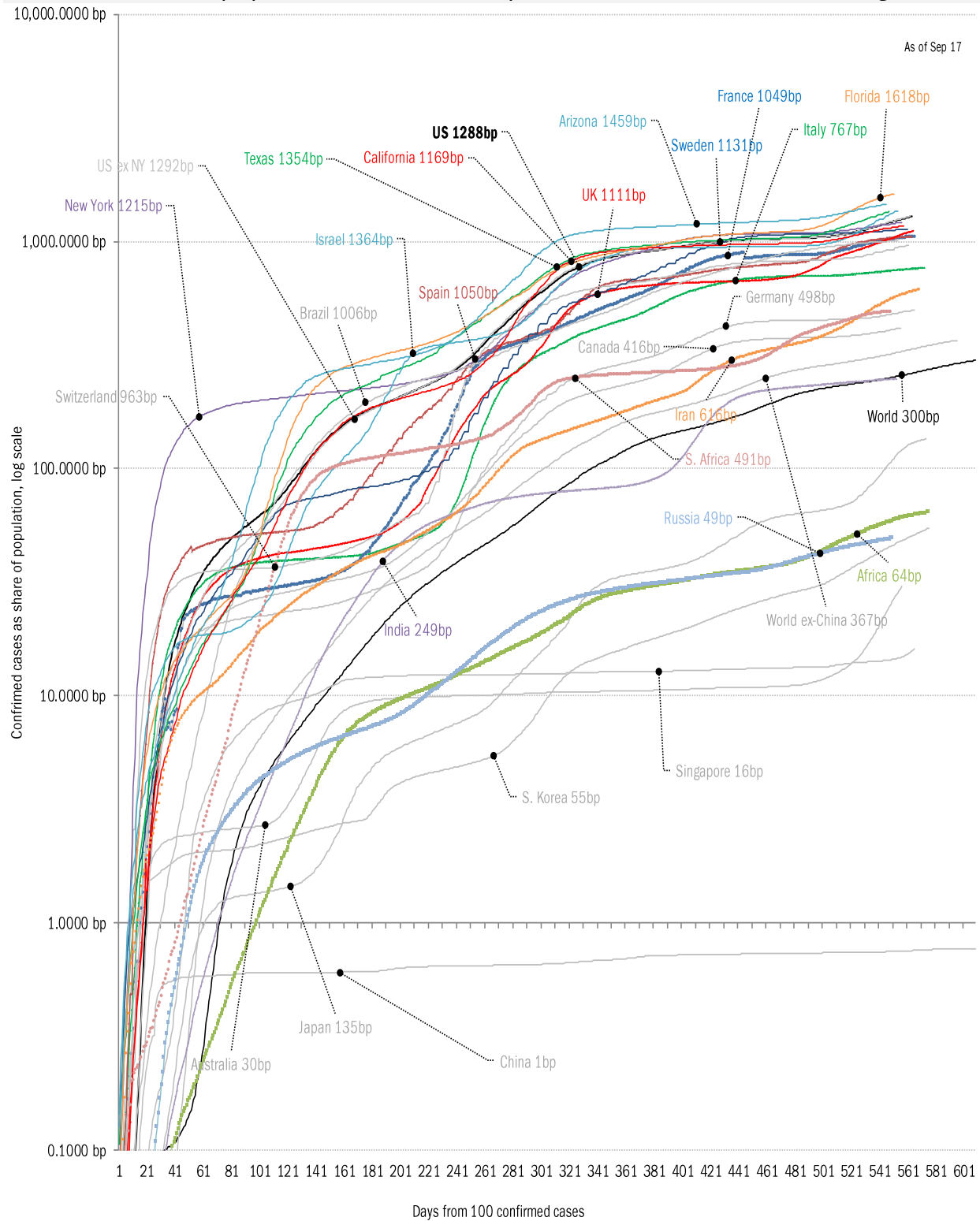
Keith Collins et al.
New York Times
September 15, 2021

Meme of the day



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

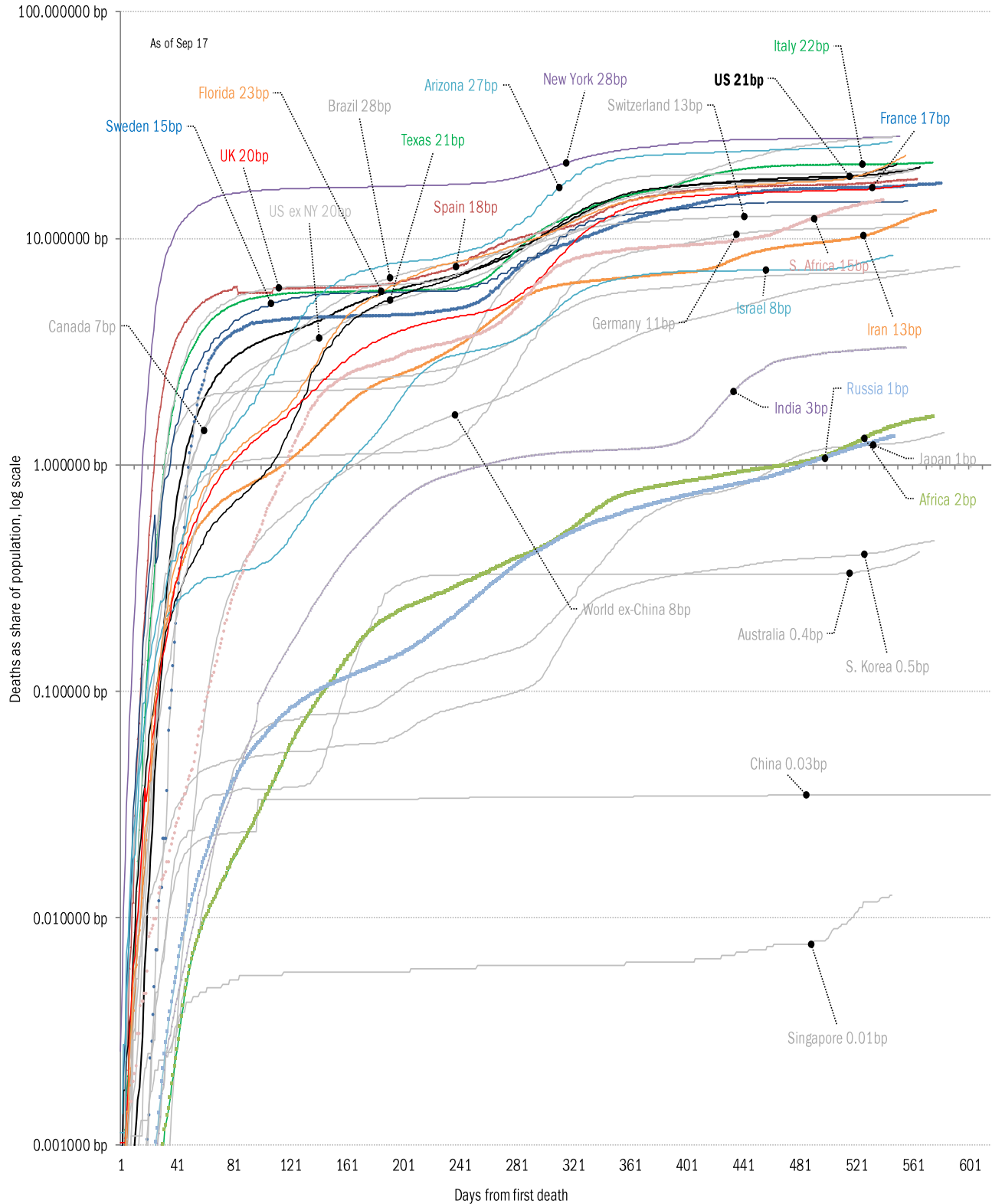
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



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

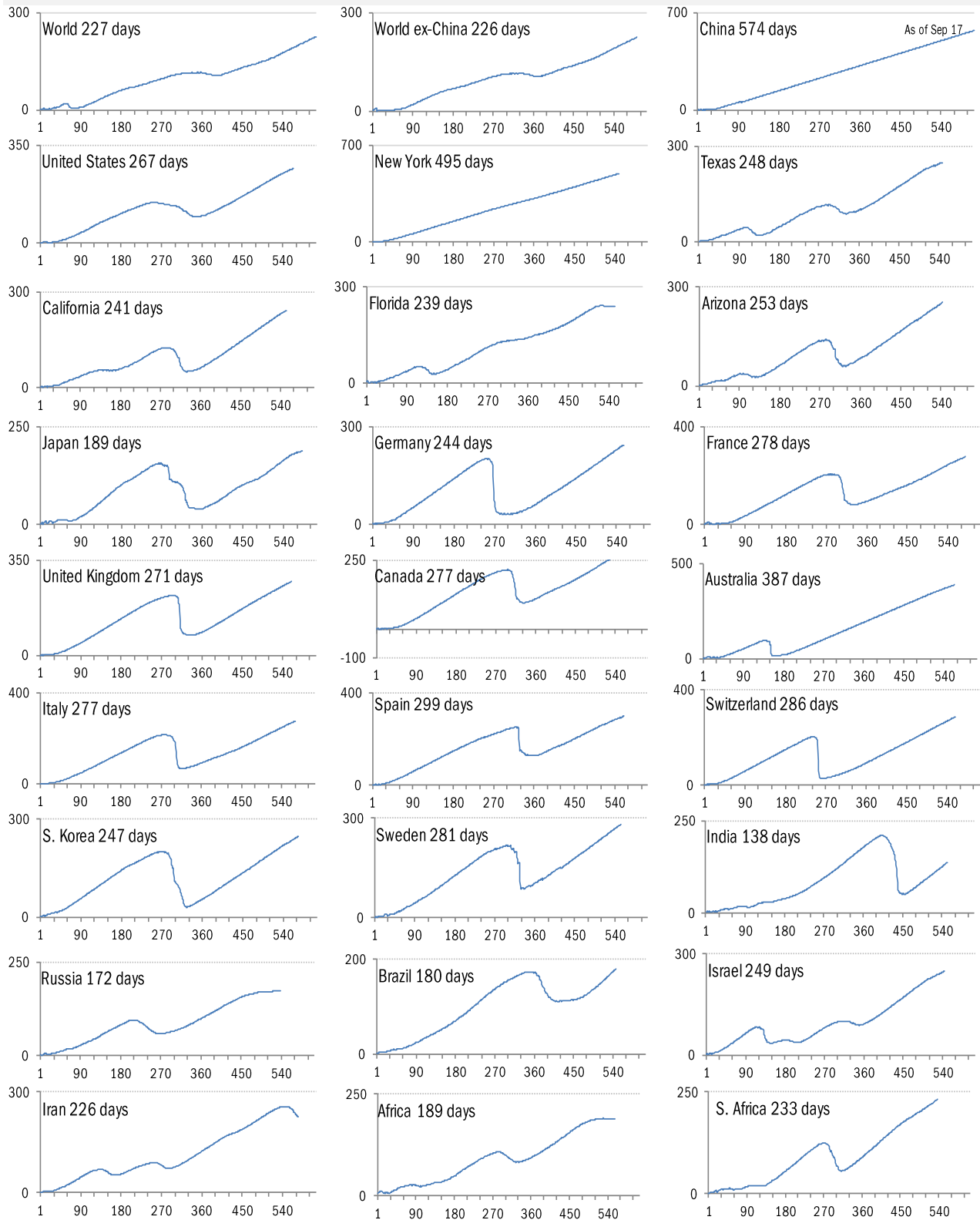


Source: [Johns Hopkins](#), TrendMacro calculations

"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

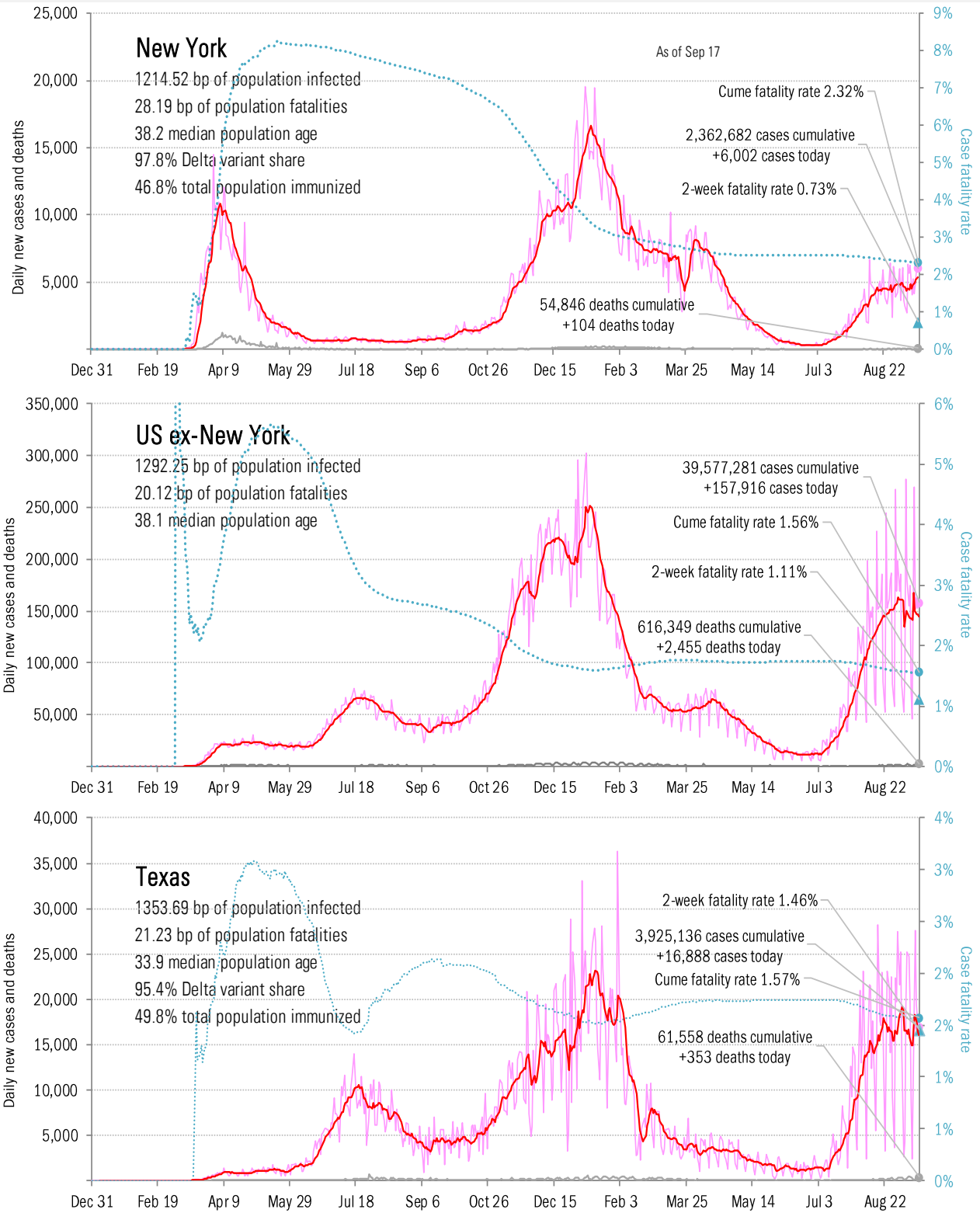
■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



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

From Ground Zero to the Rio Grande

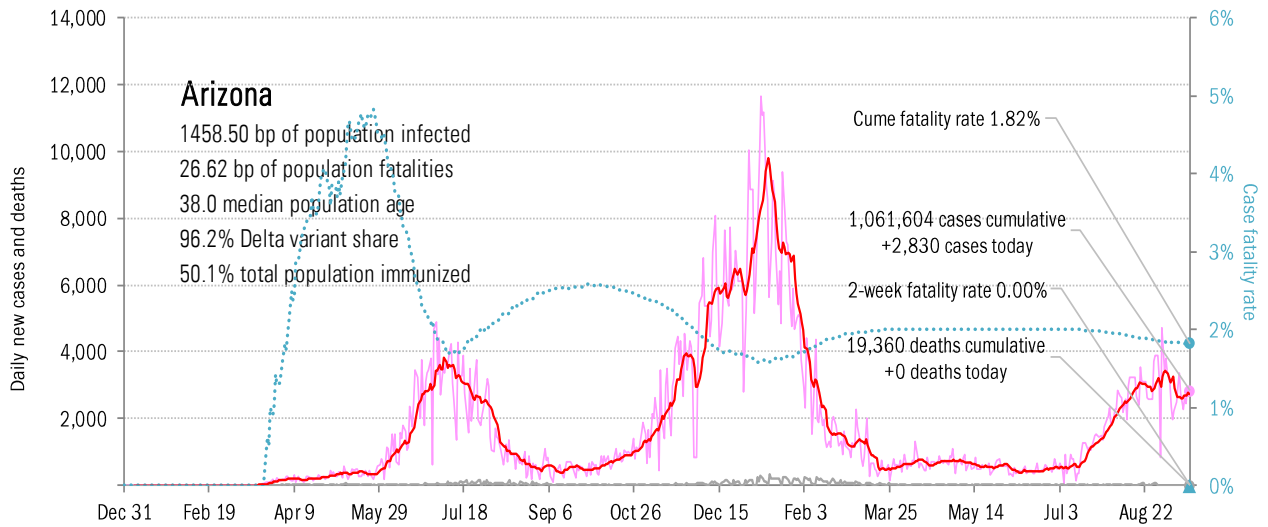
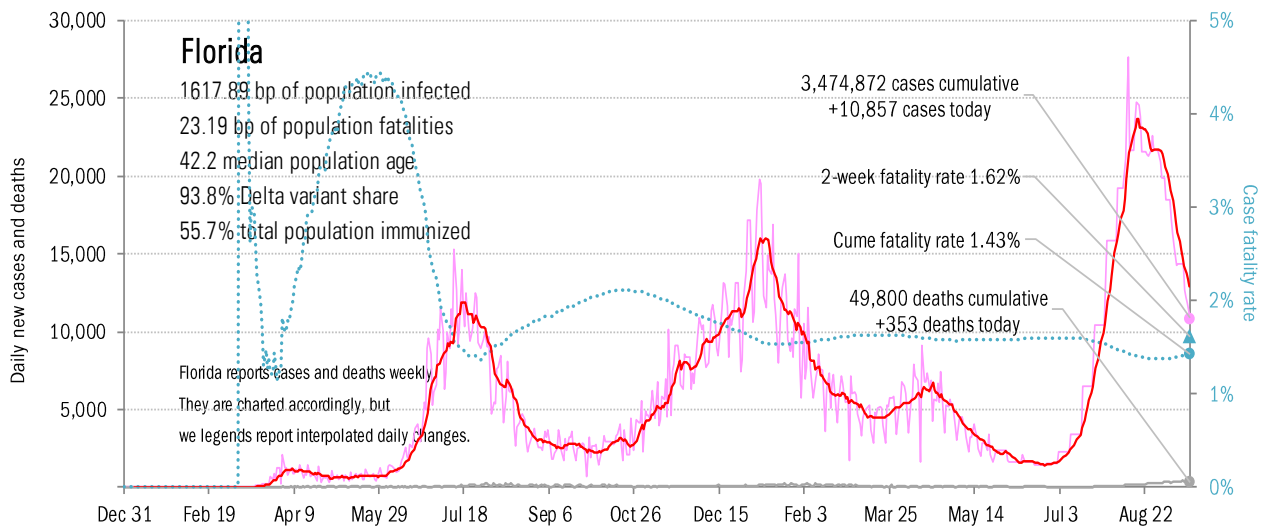
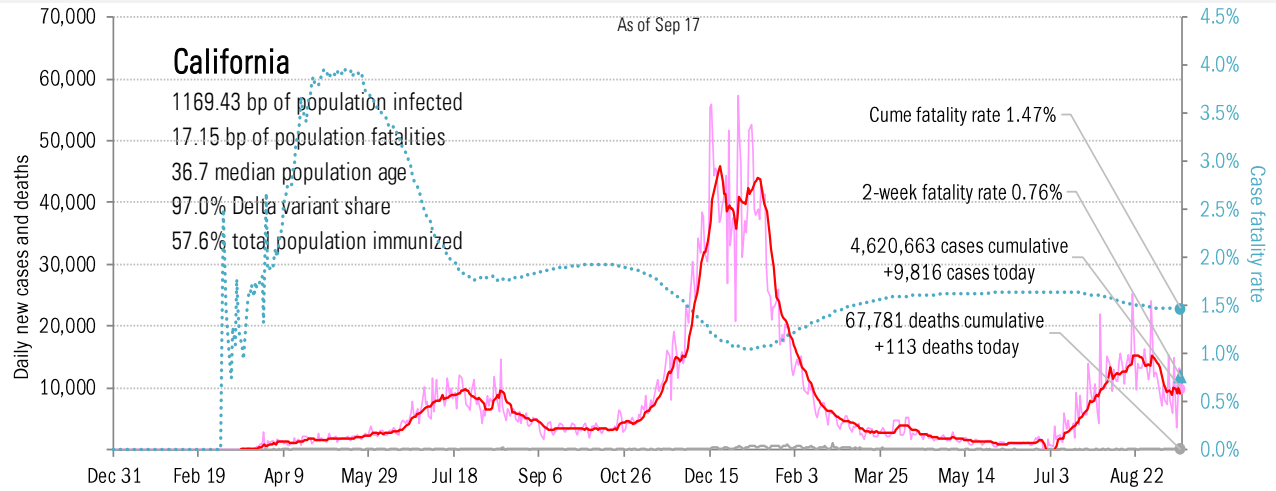
Cases: 7-day average and daily Deaths: Daily



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

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

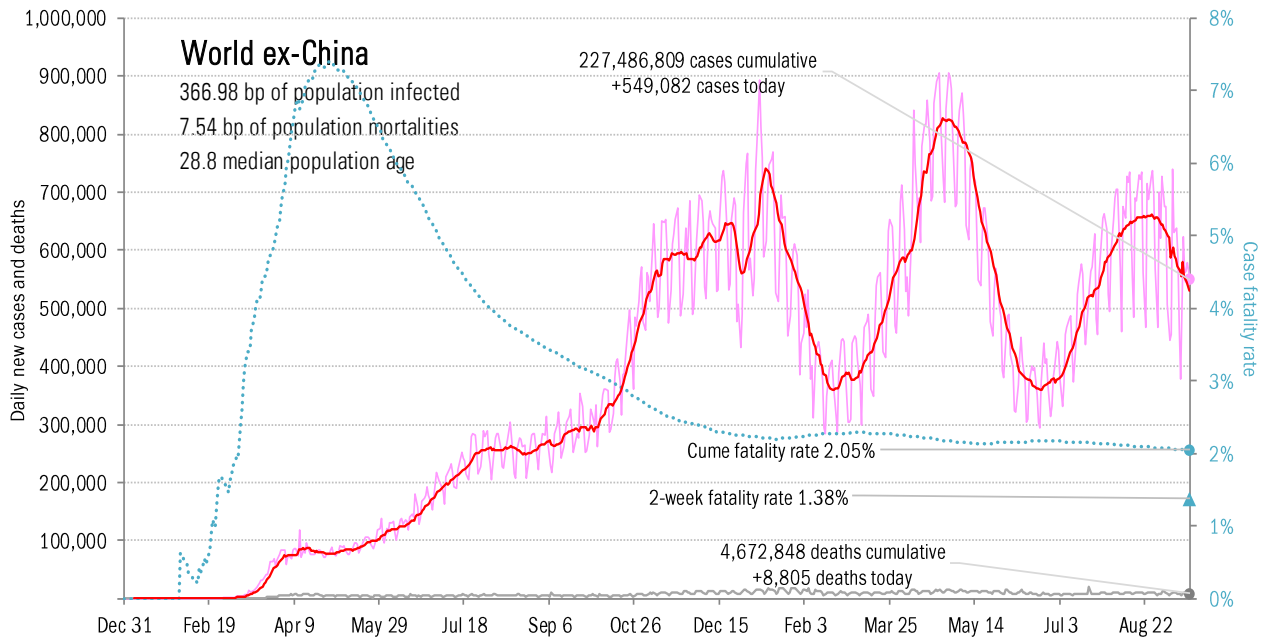
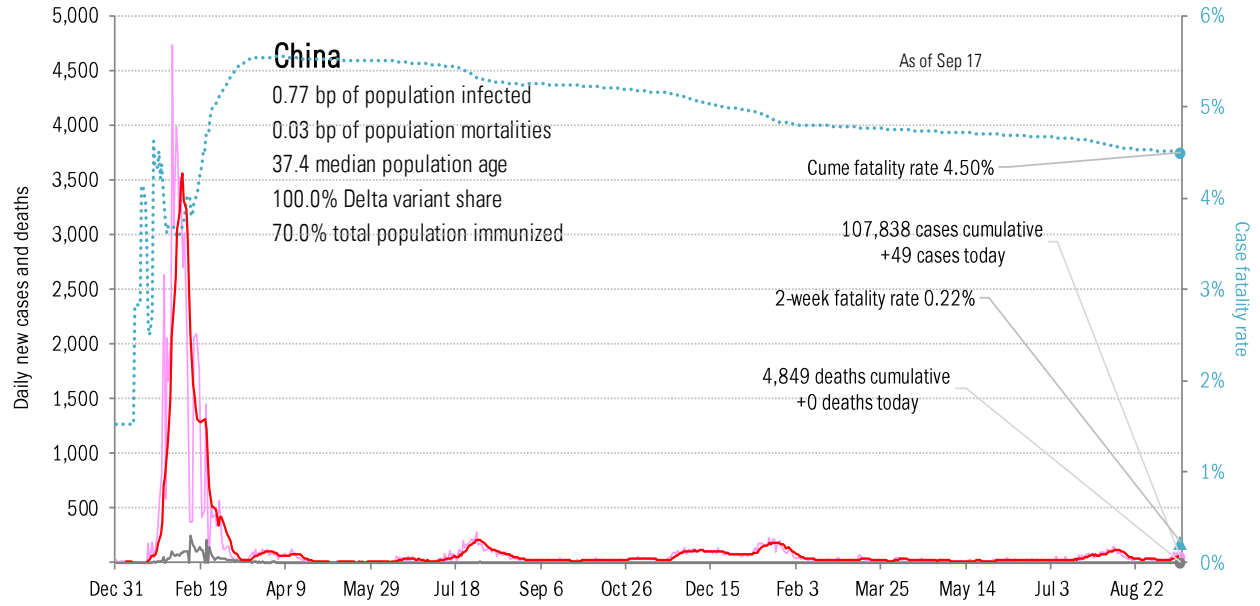
Cases: 7-day average and daily Deaths: Daily



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

Patient zero... and then everyone else

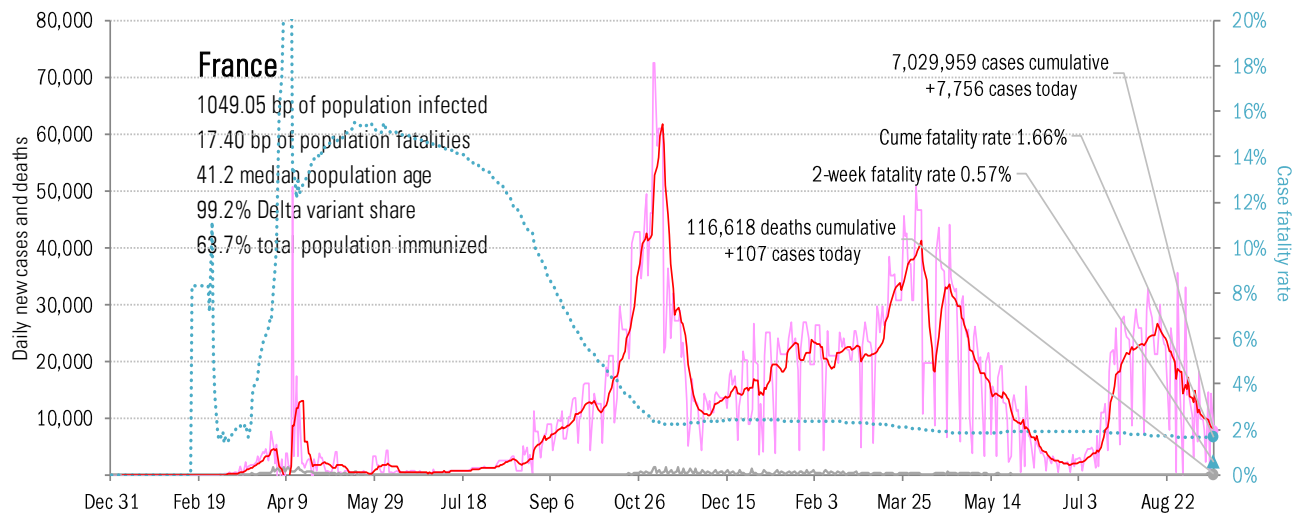
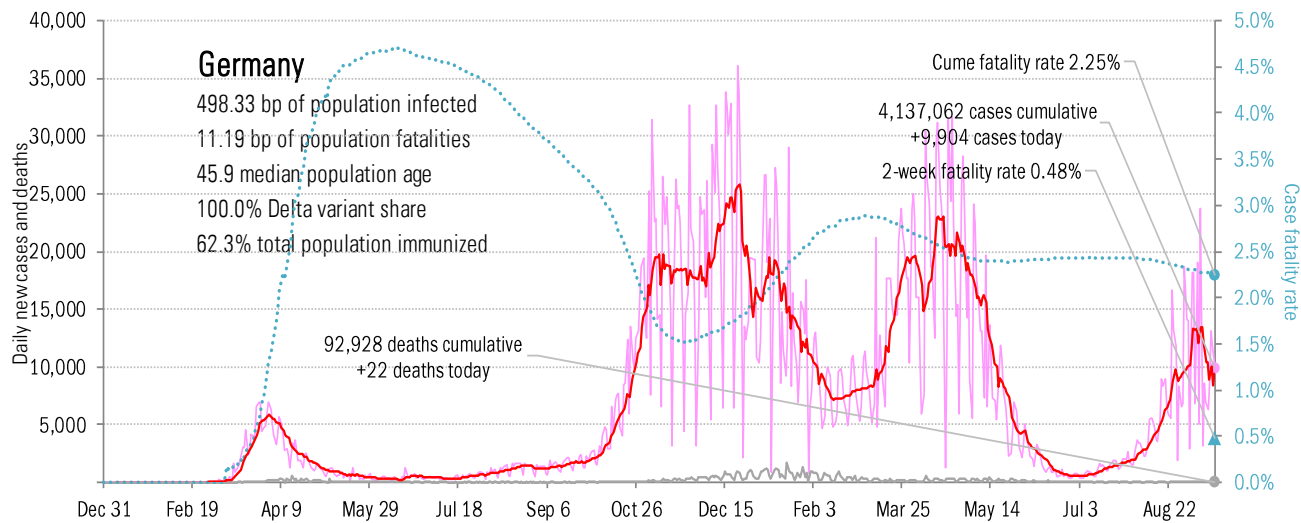
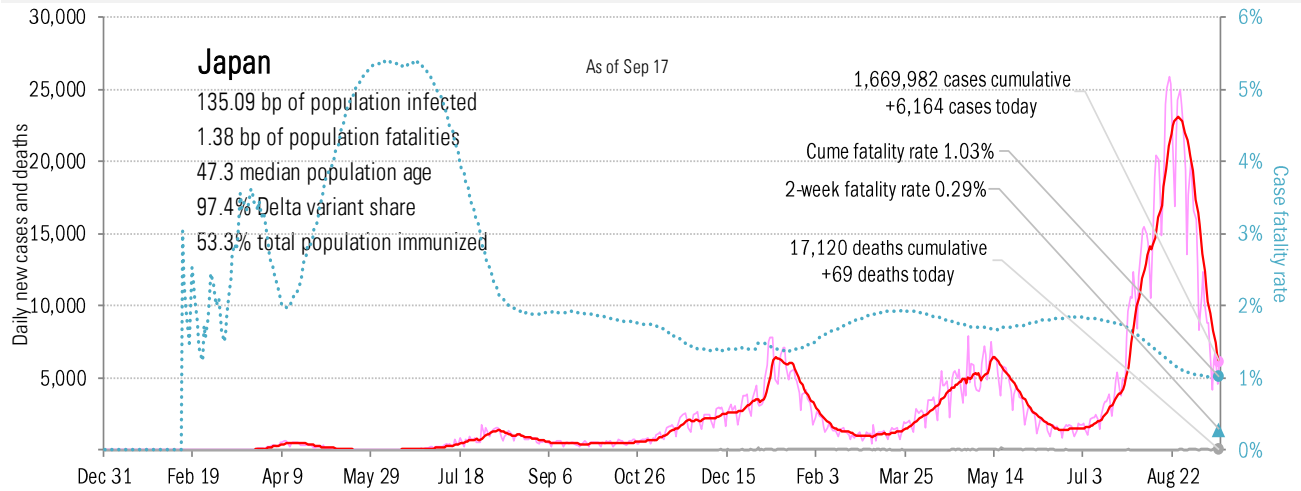
Cases: 7-day average and daily Deaths: Daily



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

Impact in the largest economies

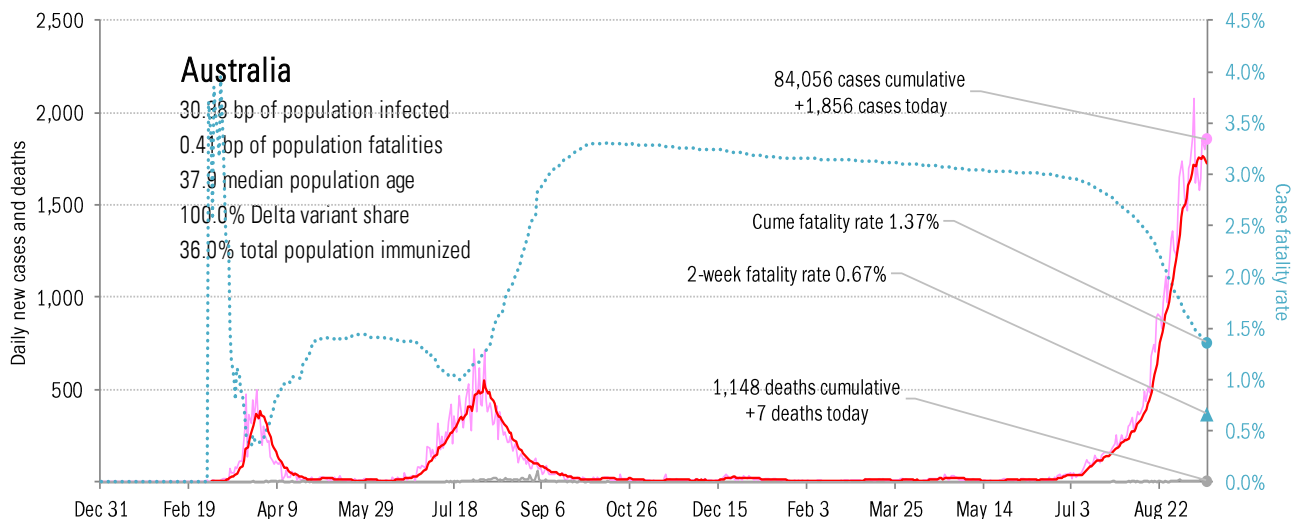
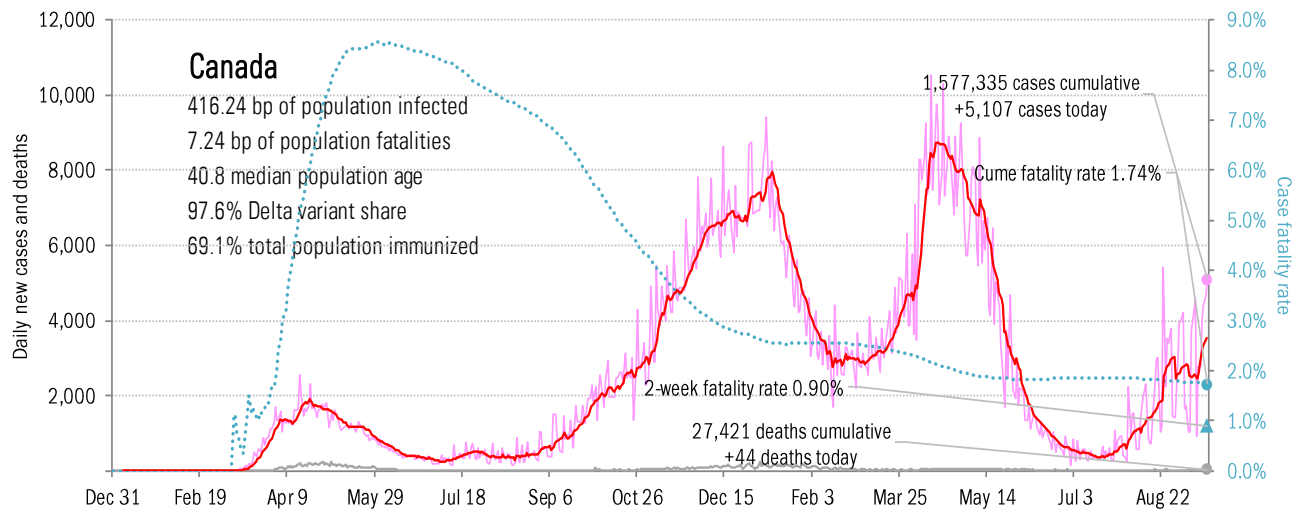
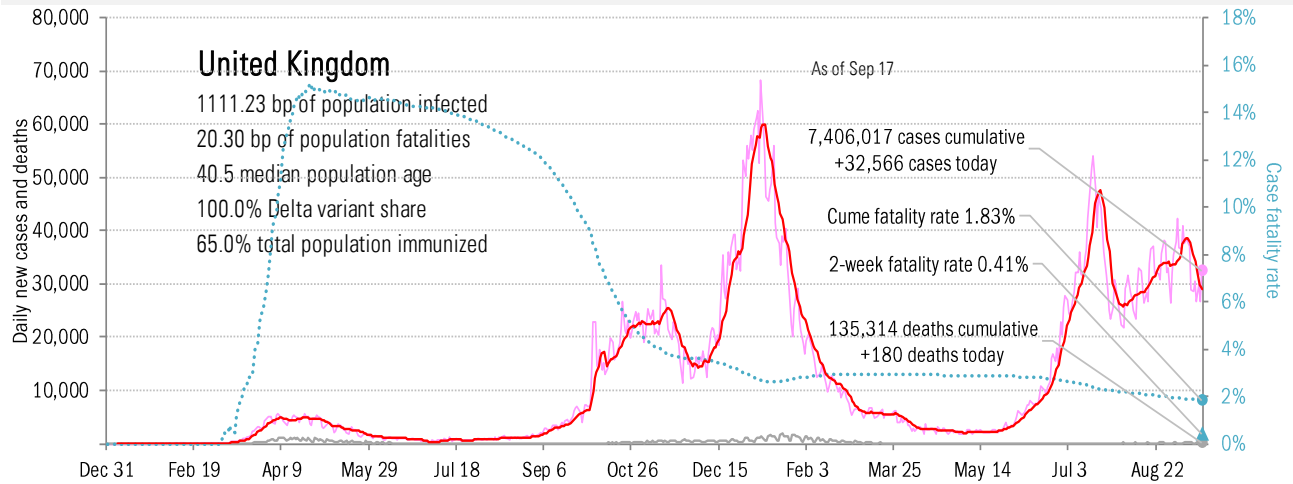
Cases: 7-day average and daily Deaths: Daily



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

Impact in The Anglosphere

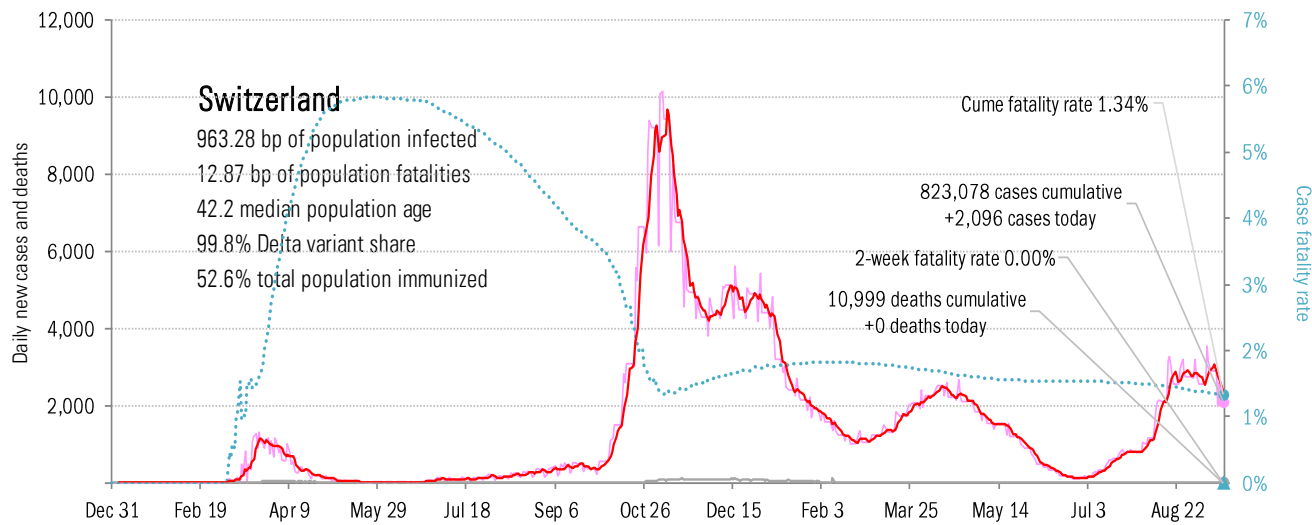
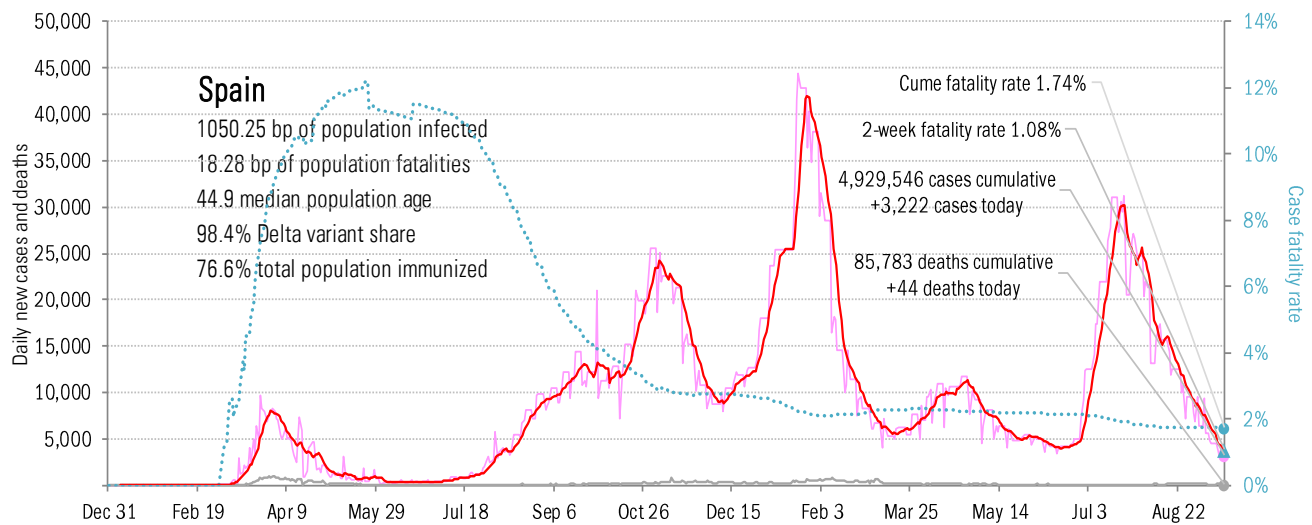
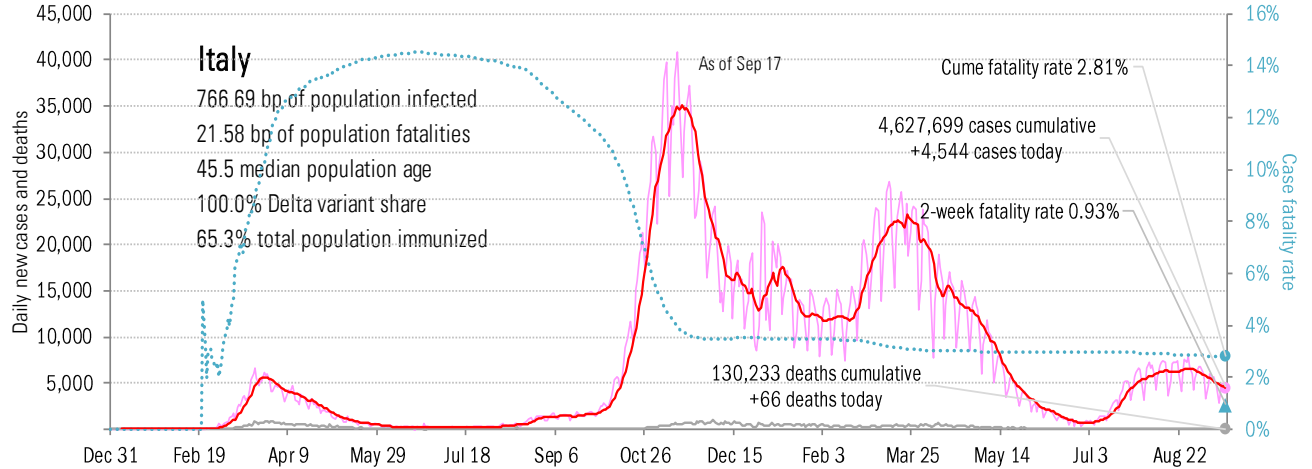
Cases: 7-day average and daily Deaths: Daily



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

Impact in continental Europe

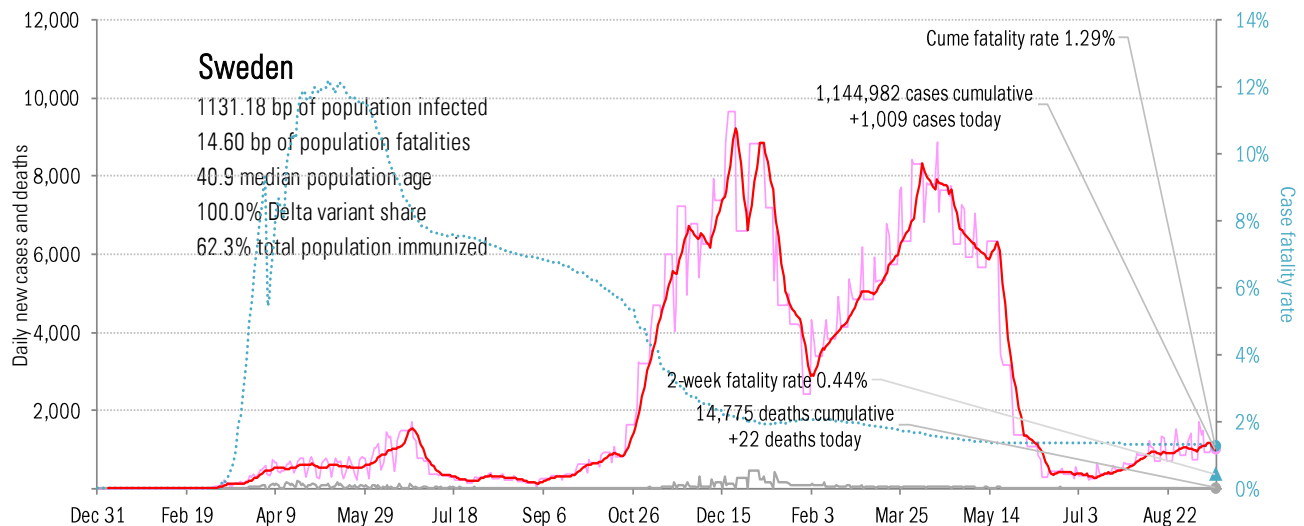
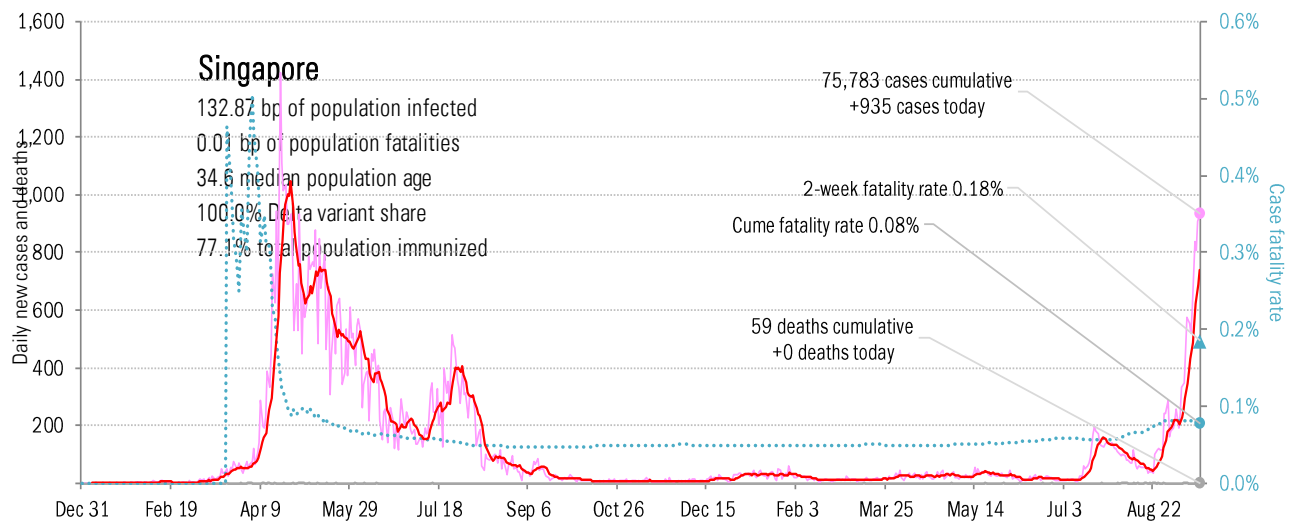
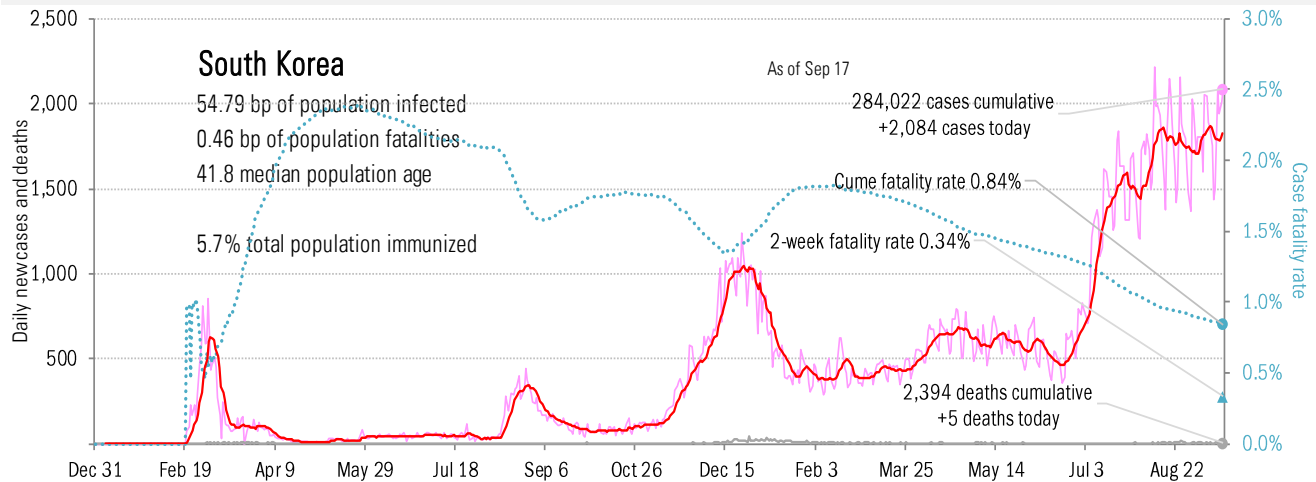
Cases: 7-day average and daily Deaths: Daily



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

Impact in other hot-spots

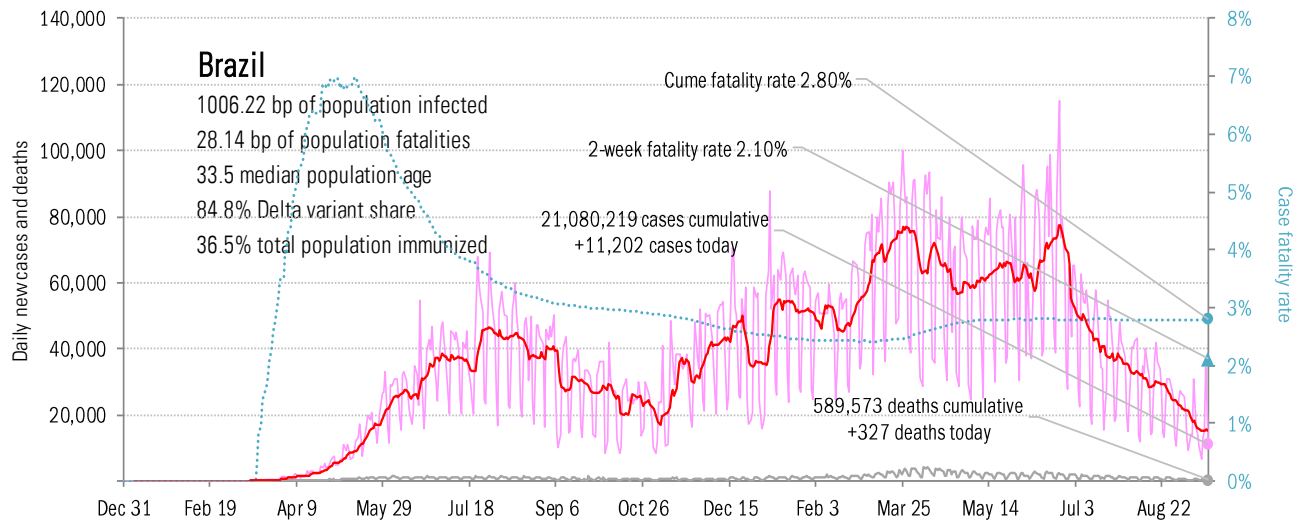
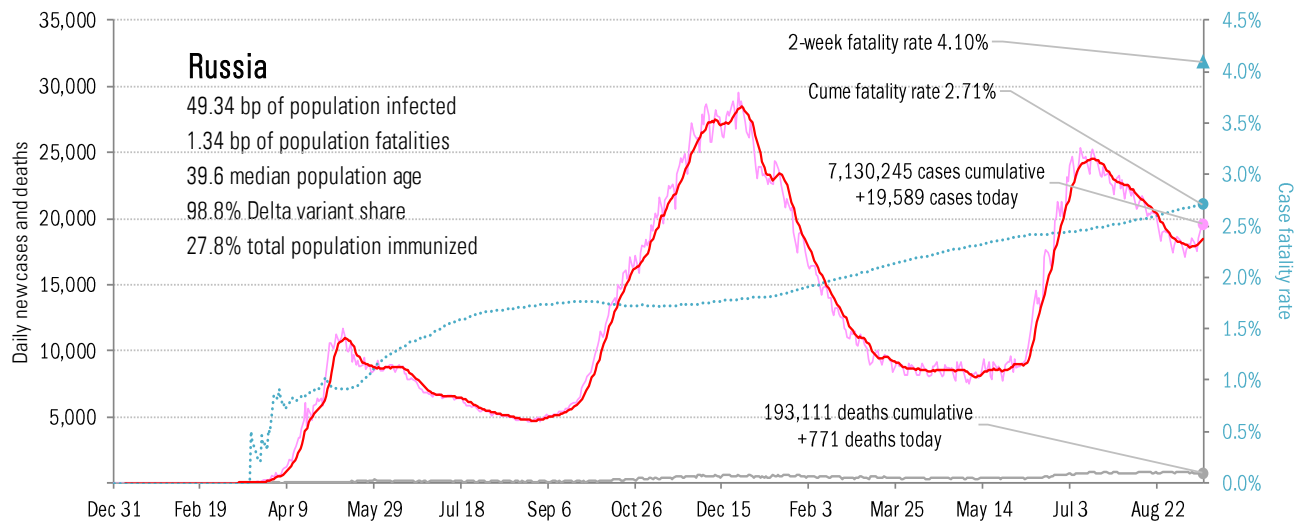
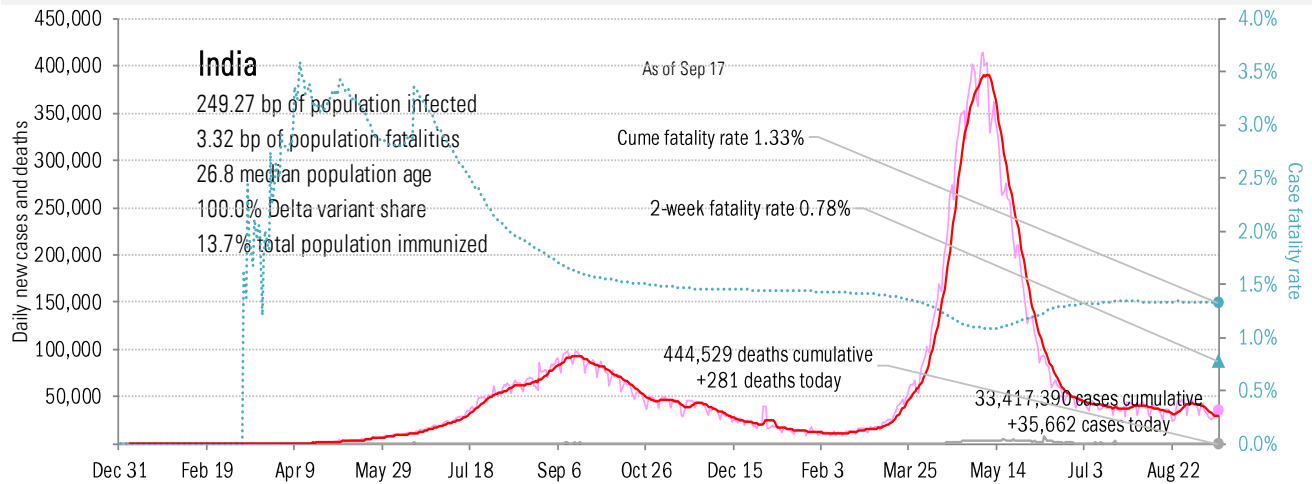
Cases: 7-day average and daily Deaths: Daily



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

Impact in the BRICs ex-China

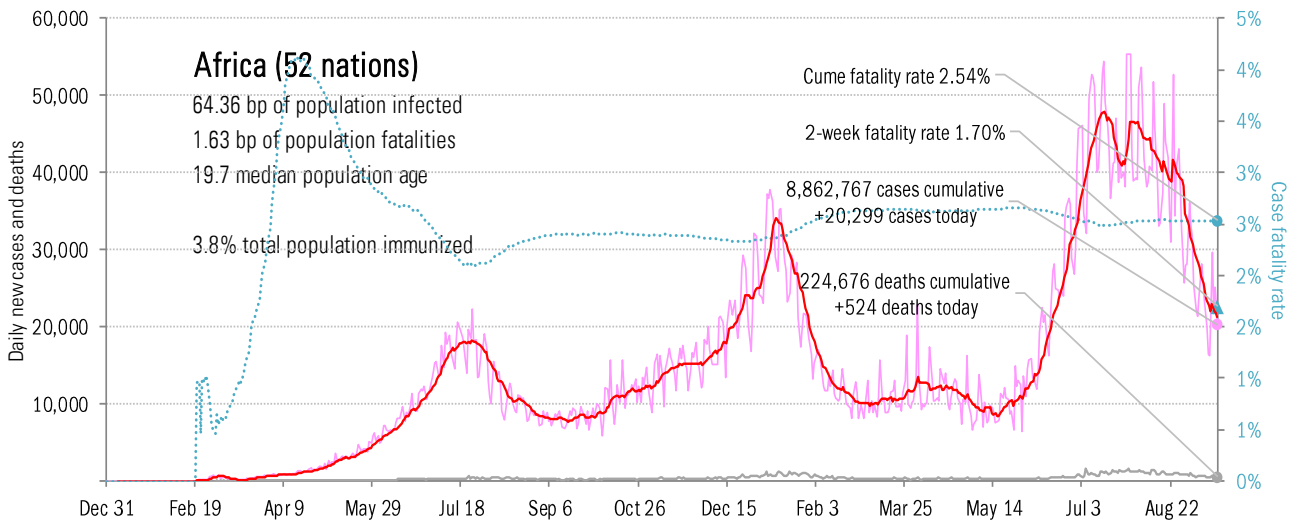
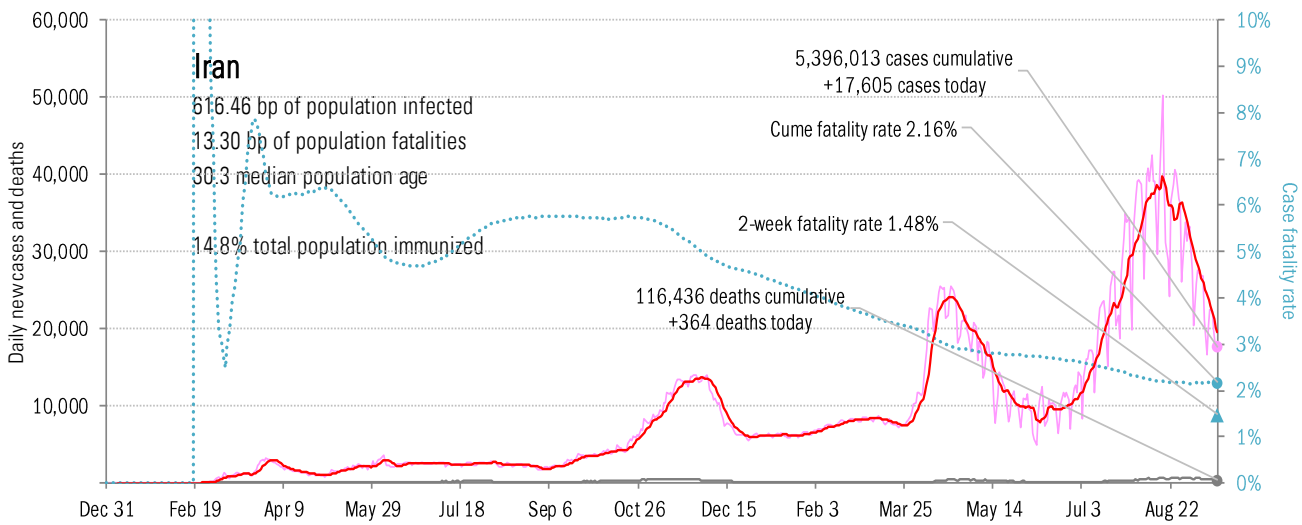
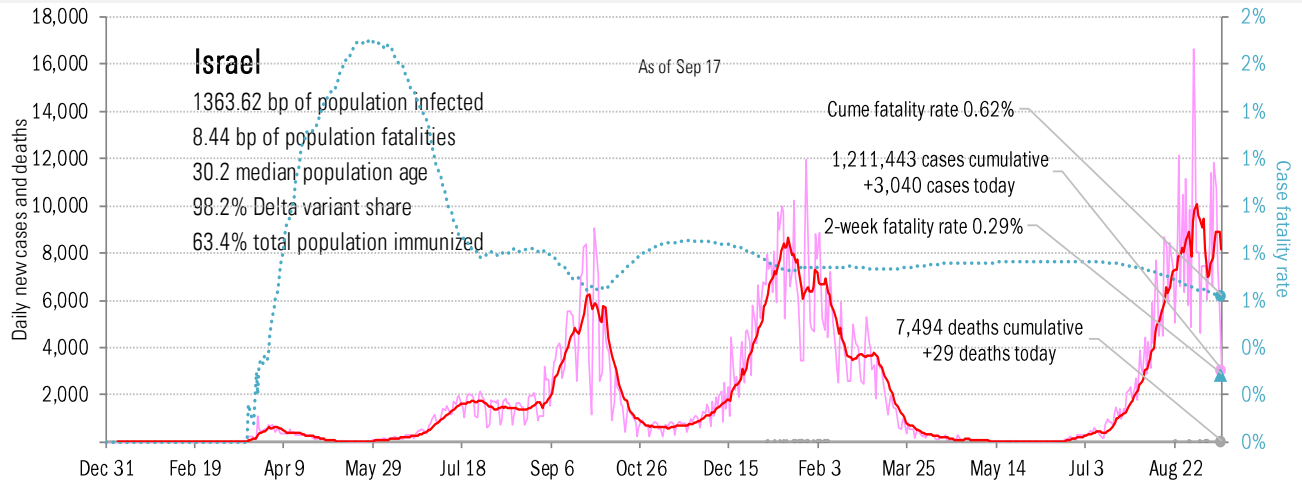
Cases: 7-day average and daily Deaths: Daily



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

Impact in the Middle East and Africa

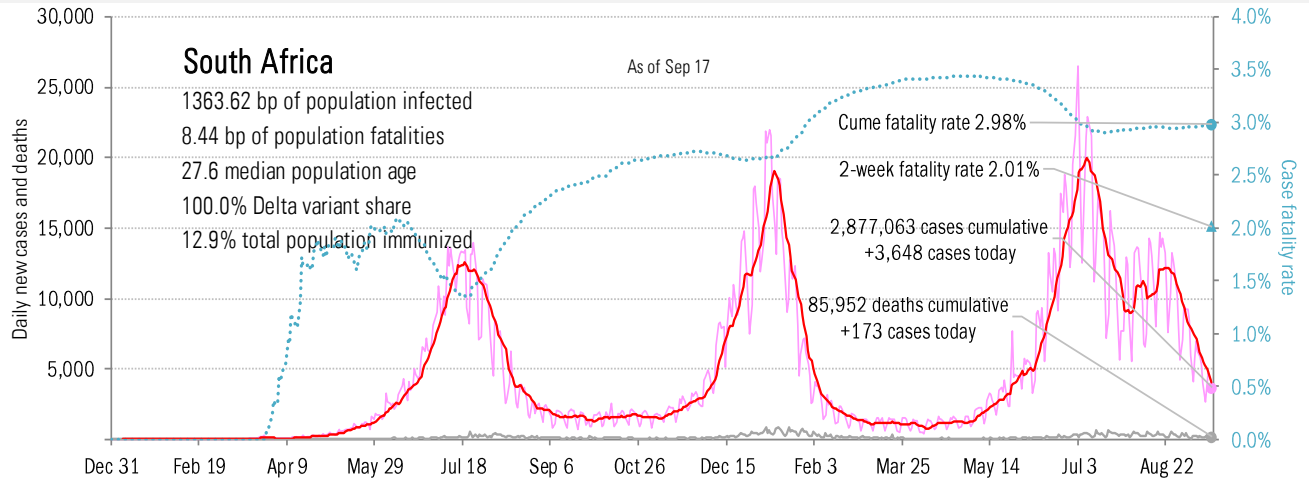
Cases: 7-day average and daily Deaths: Daily



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

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



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