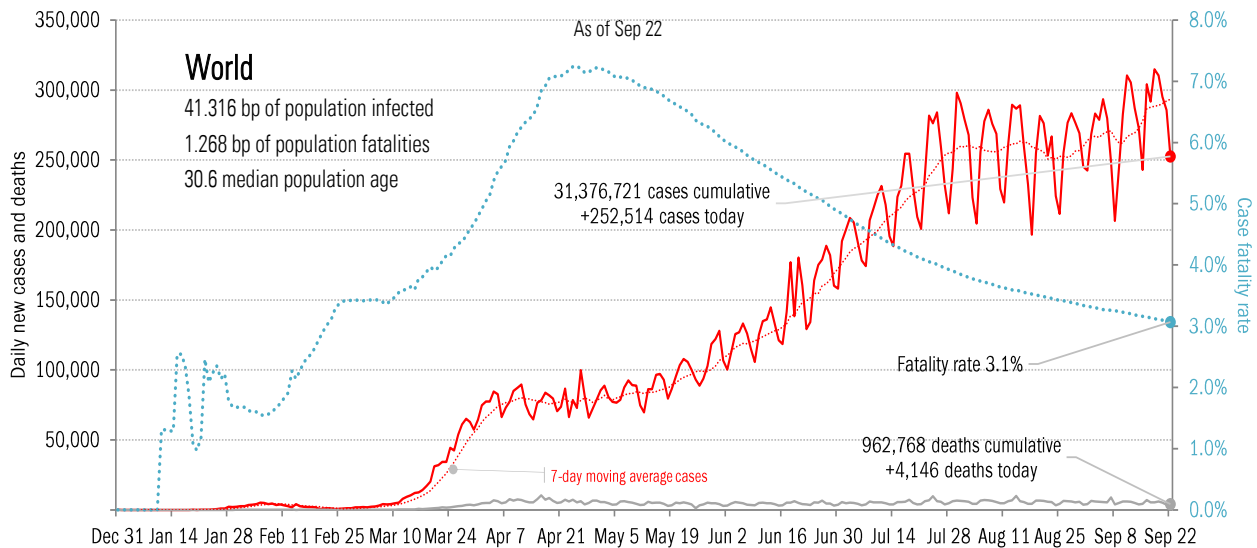
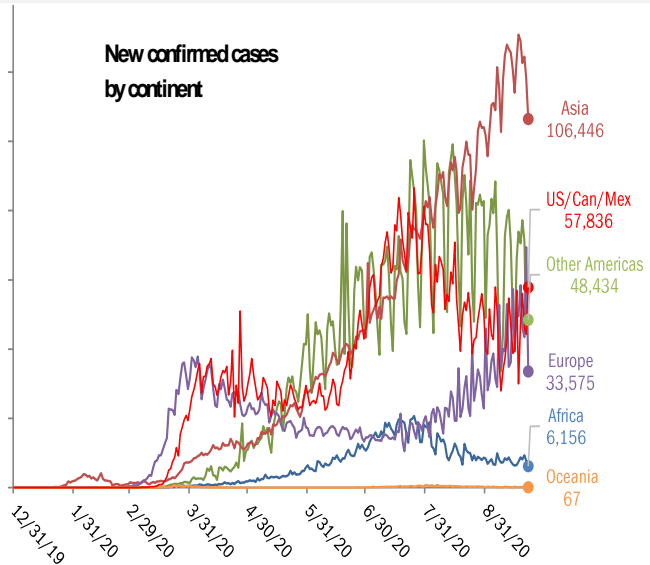


Data Insights: Covid-2019 Monitor

Tuesday, September 22, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+75,083	India	+1,053
US	+31,356	Argentina	+573
Argentina	+17,213	Brazil	+377
Brazil	+13,439	US	+372
Russia	+6,196	Mexico	+204
Colombia	+5,359	Colombia	+189
UK	+4,368	Iran	+177
France	+4,298	Indonesia	+124
Indonesia	+4,176	Peru	+105
Israel	+4,152	Russia	+71
+165,640		+3,245	
World	+252,514	World	+4,146
Top ten	66%	Top ten	78%



Source: [ECDC](#), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

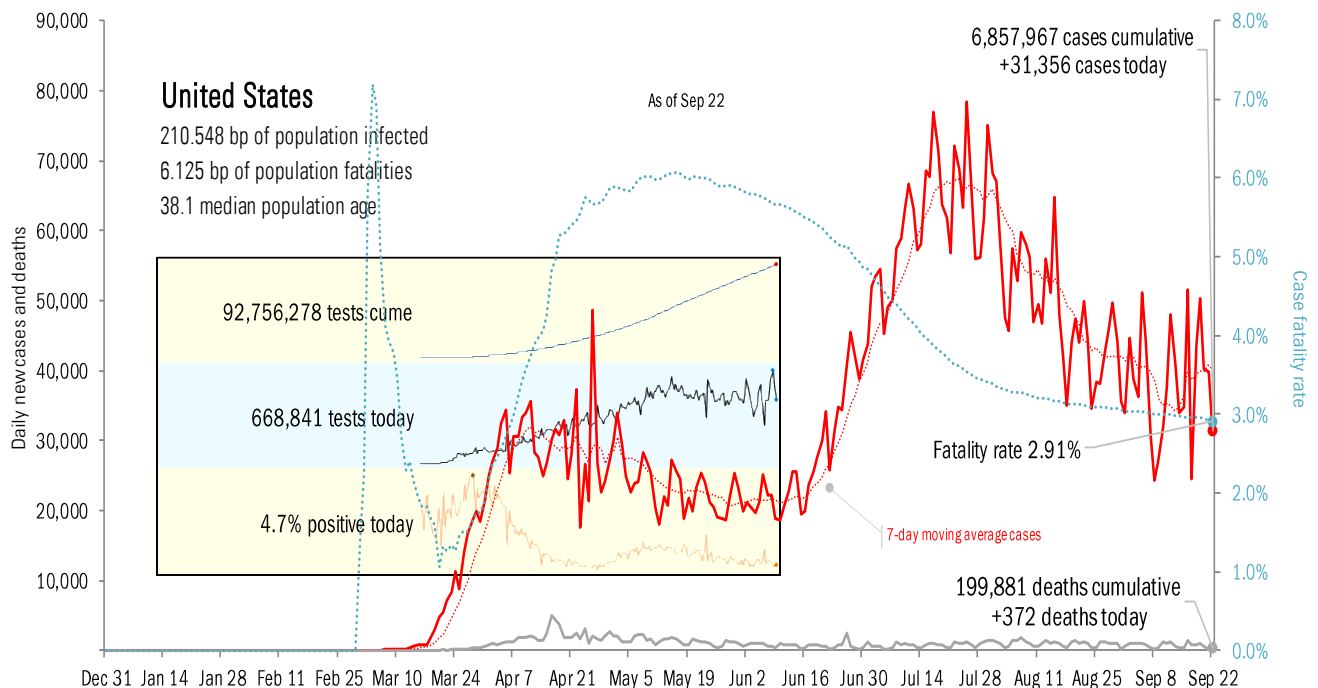
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+3,294	CA	+31	AL	+260	CA	781,694	NY	25,428	NY	89,995
TX	+1,742	TX	+24	MS	+108	TX	690,276	NJ	16,069	FL	43,033
FL	+1,685	PA	+23	FL	+94	FL	685,439	CA	15,018	GA	27,394
KS	+1,674	FL	+21	VA	+79	NY	450,473	TX	14,917	NJ	23,135
MI	+1,575	AR	+16	CH	+56	GA	307,339	FL	13,480	AZ	21,878
IL	+1,477	TN	+15	OK	+53	IL	277,933	MA	9,317	VA	17,898
MO	+1,463	SC	+13	MD	+52	AZ	214,251	IL	8,693	AL	16,487
WI	+1,296	MI	+12	IN	+41	NJ	200,154	PA	8,004	MD	15,171
GA	+1,184	MO	+12	SC	+41	NC	194,381	MI	6,981	CH	14,829
OK	+1,101	IA	+9	TN	+40	TN	184,409	GA	6,604	MA	12,553
+16,491		+176		+824		3,986,349		124,511		282,373	
All states	+31,356	All states	+287	All states	+1,139	All states	6,802,017	All states	191,920	All states	396,354
Top ten	53%	Top ten	61%	Top ten	72%	Top ten	59%	Top ten	65%	Top ten	71%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TN	-1,180	CA	-44	GA	-22	NC	+9,165
CA	-971	TX	-21	H	-22	MS	+6,356
FL	-836	VA	-19	WA	-19	TX	+2,646
TX	-724	LA	-17	IN	-11	IN	+1,083
LA	-693	MA	-8	SD	-11	WI	+998



Source: States and test data [Covid Tracking Project](#), US data [ECDC](#), TrendMacro calculations

Recommended reading

[CDC Removes Guidelines Saying Coronavirus Can Spread From Tiny Air Particles](#)

Caitlin McCabe
Wall Street Journal
September 21, 2020

[Thousands in UK fined for breaking 'unclear' rules](#)

George Russell
Financial Times
September 21, 2020

[Almost one third of Covid deaths in July and August 'primarily caused by other conditions'](#)

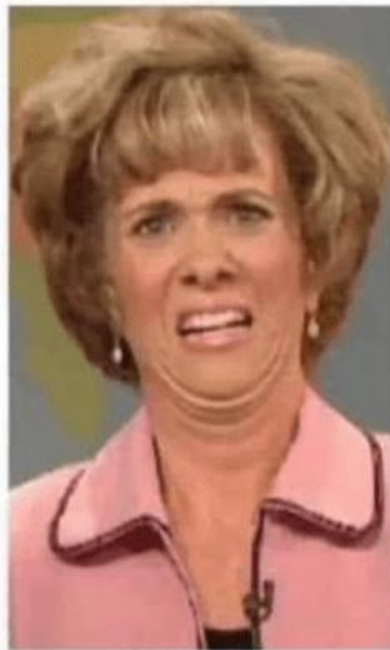
Sarah Knapton
The Telegraph
September 18, 2020

Meme of day

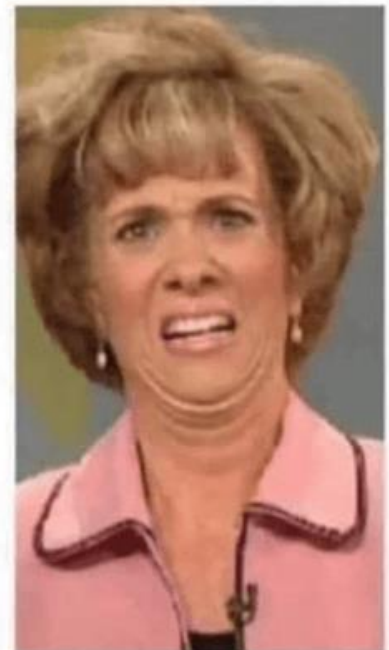
Every parent right now



**STARTING SCHOOL
IN PERSON**



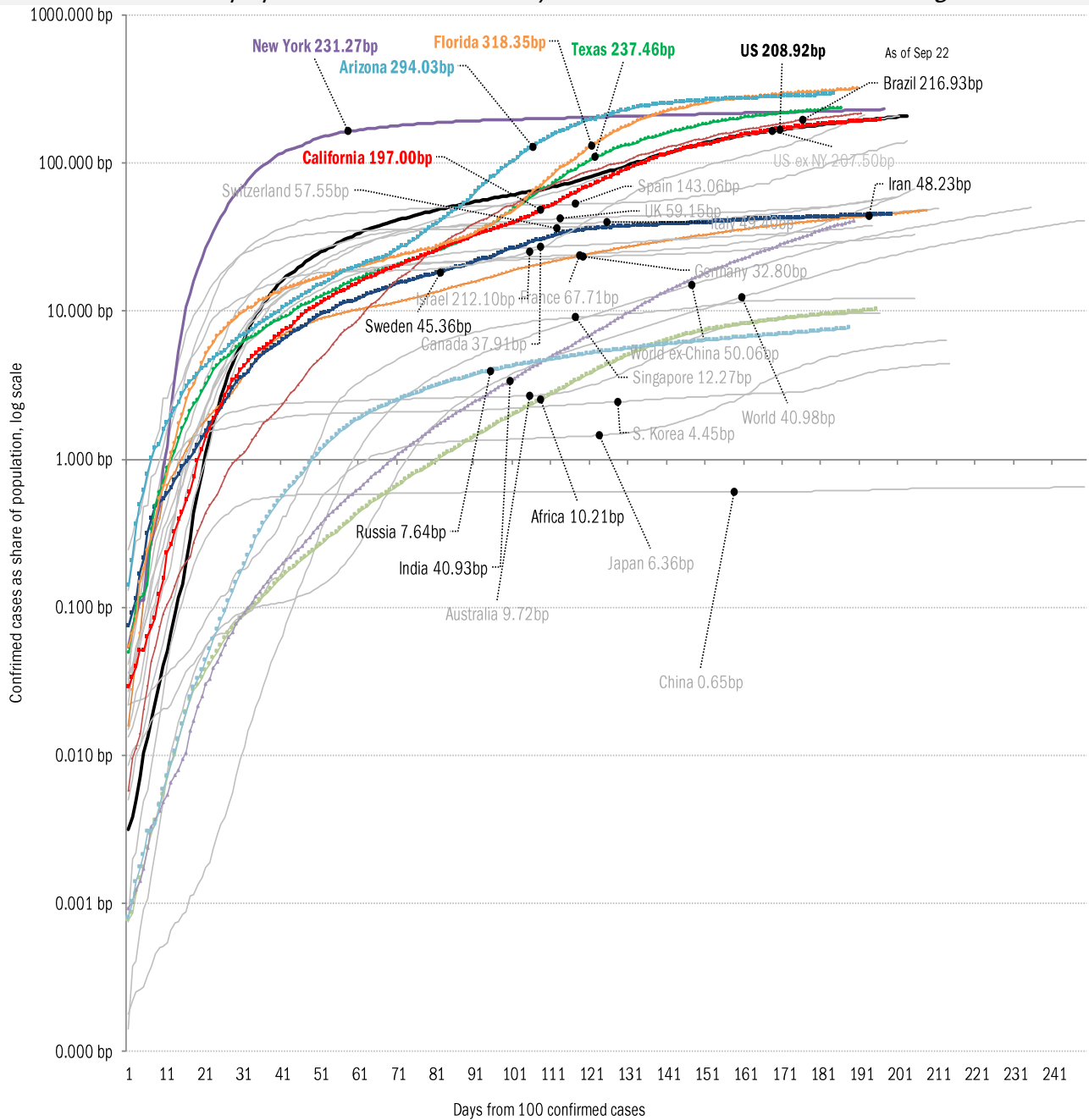
**STARTING
SCHOOL ONLINE**



HOMESCHOOLING

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

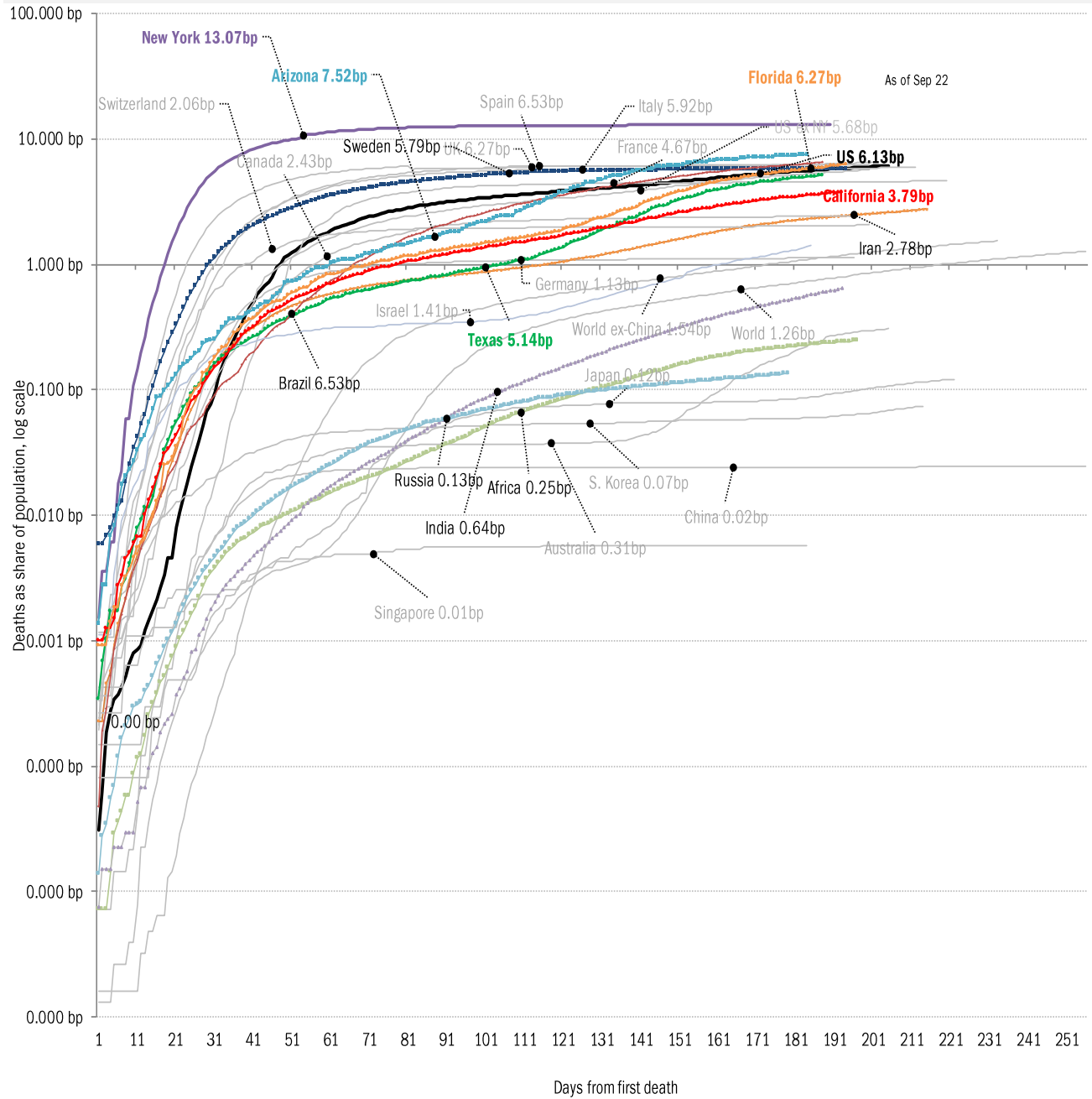
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

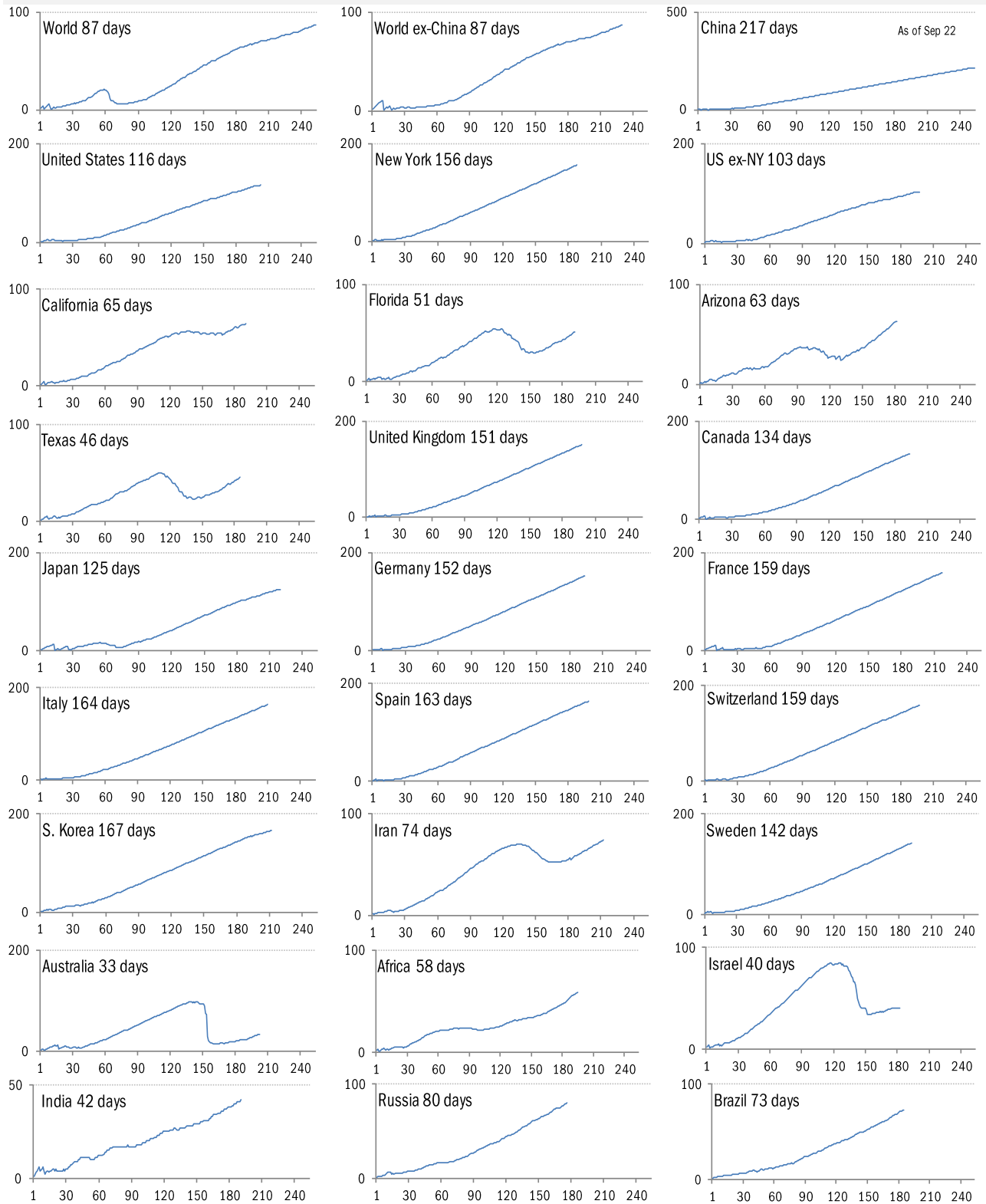


Source: [ECDC](#), TrendMacro calculations

Our most reliable evidence of slowing exponential growth of Covid-2019

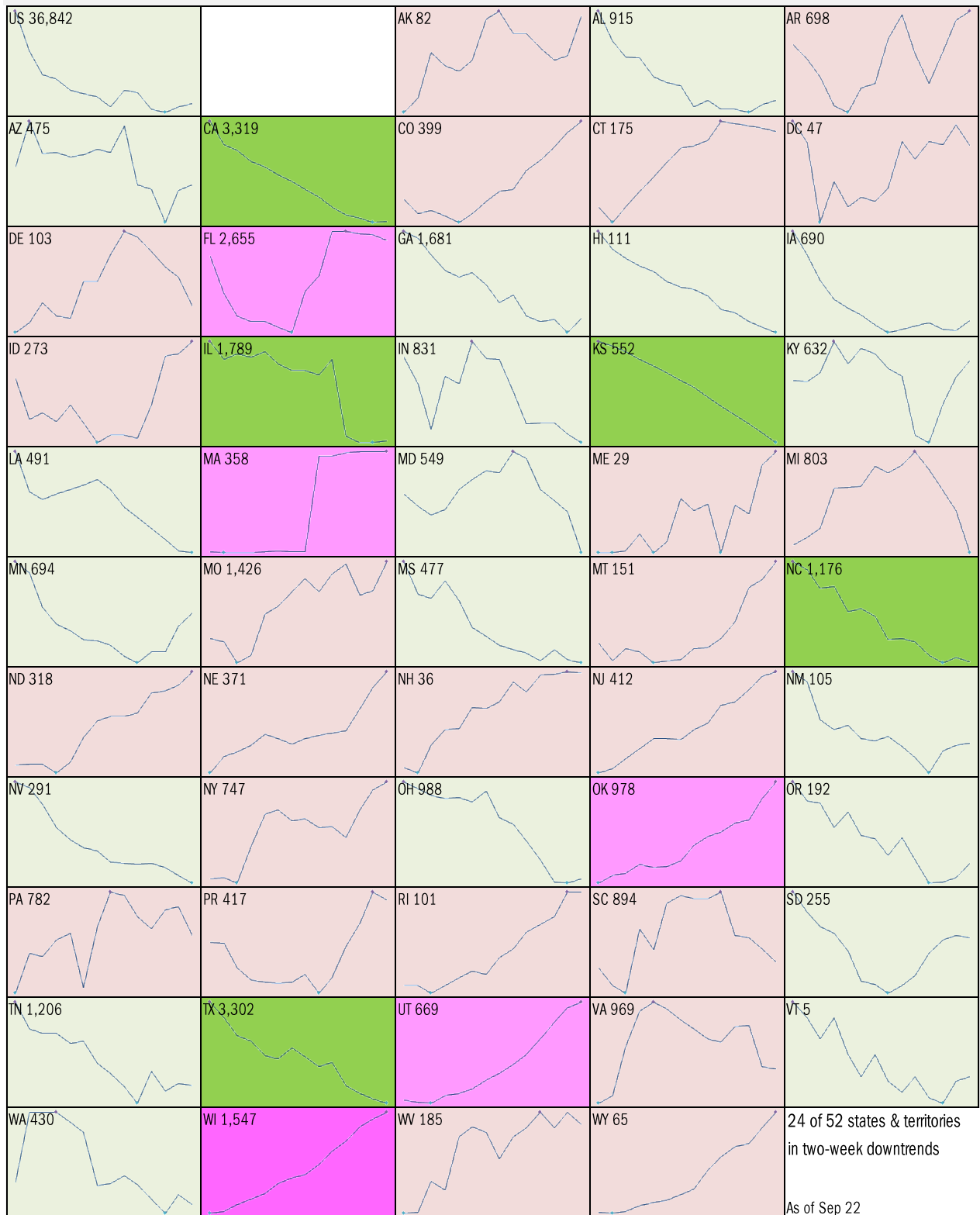
Vertical: days to double deaths Horizontal: days from first death

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



Source: [ECDC](https://www.ecdc.europa.eu/en), 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



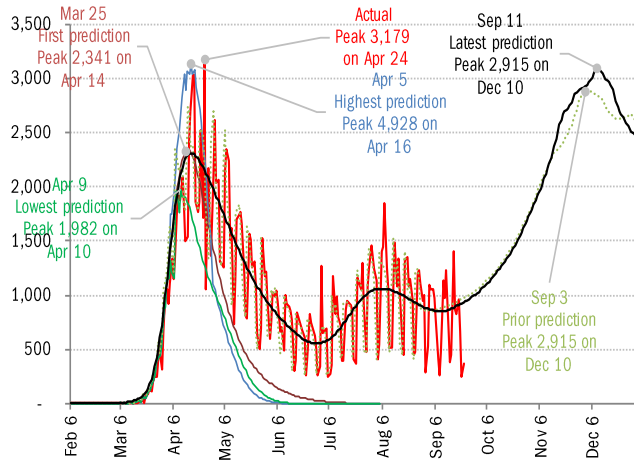
Source: [Covid Tracking Project](#), TrendMacro calculations

Reality-checking the models: actuals versus [IHME](#) predictions

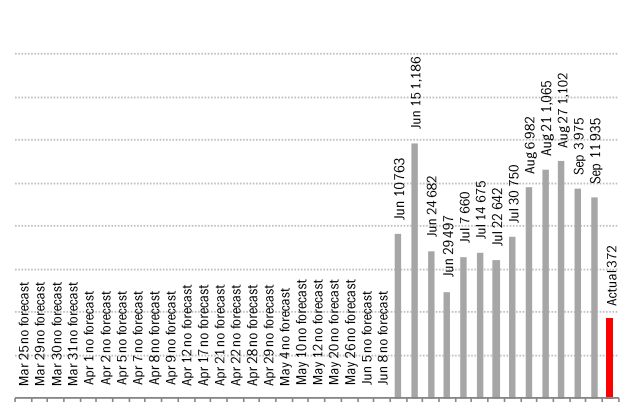
New daily fatalities

As of Sep 22

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

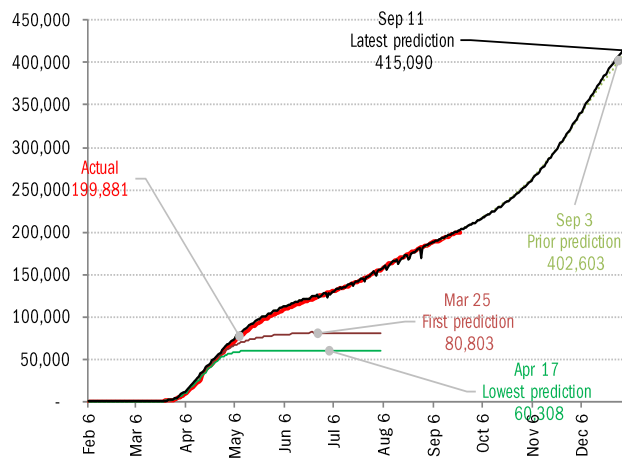


For this day, versus all model mean predictions

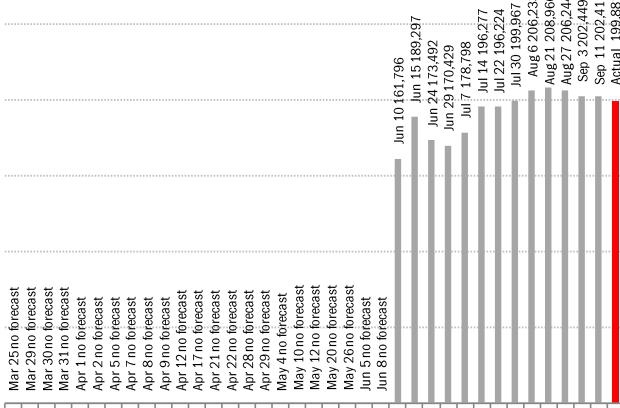


Cumulative fatalities

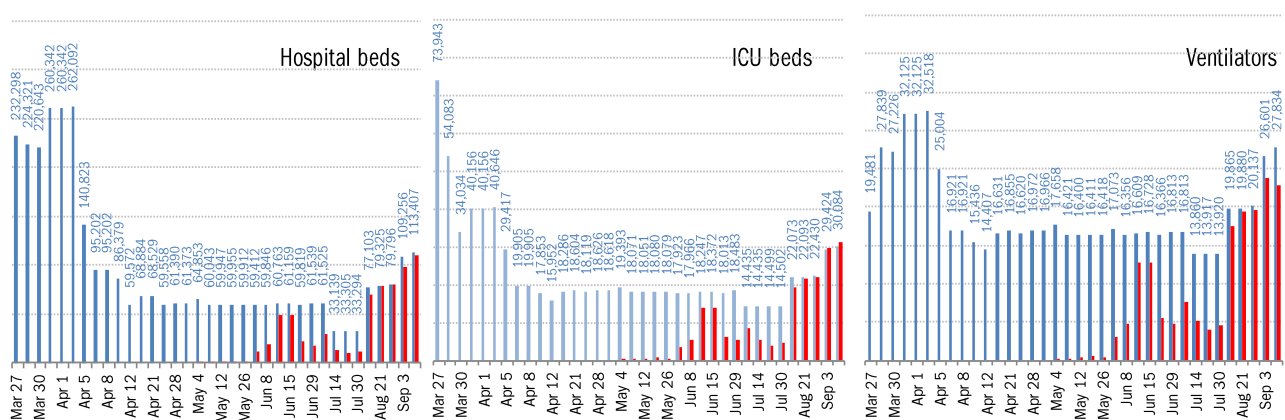
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

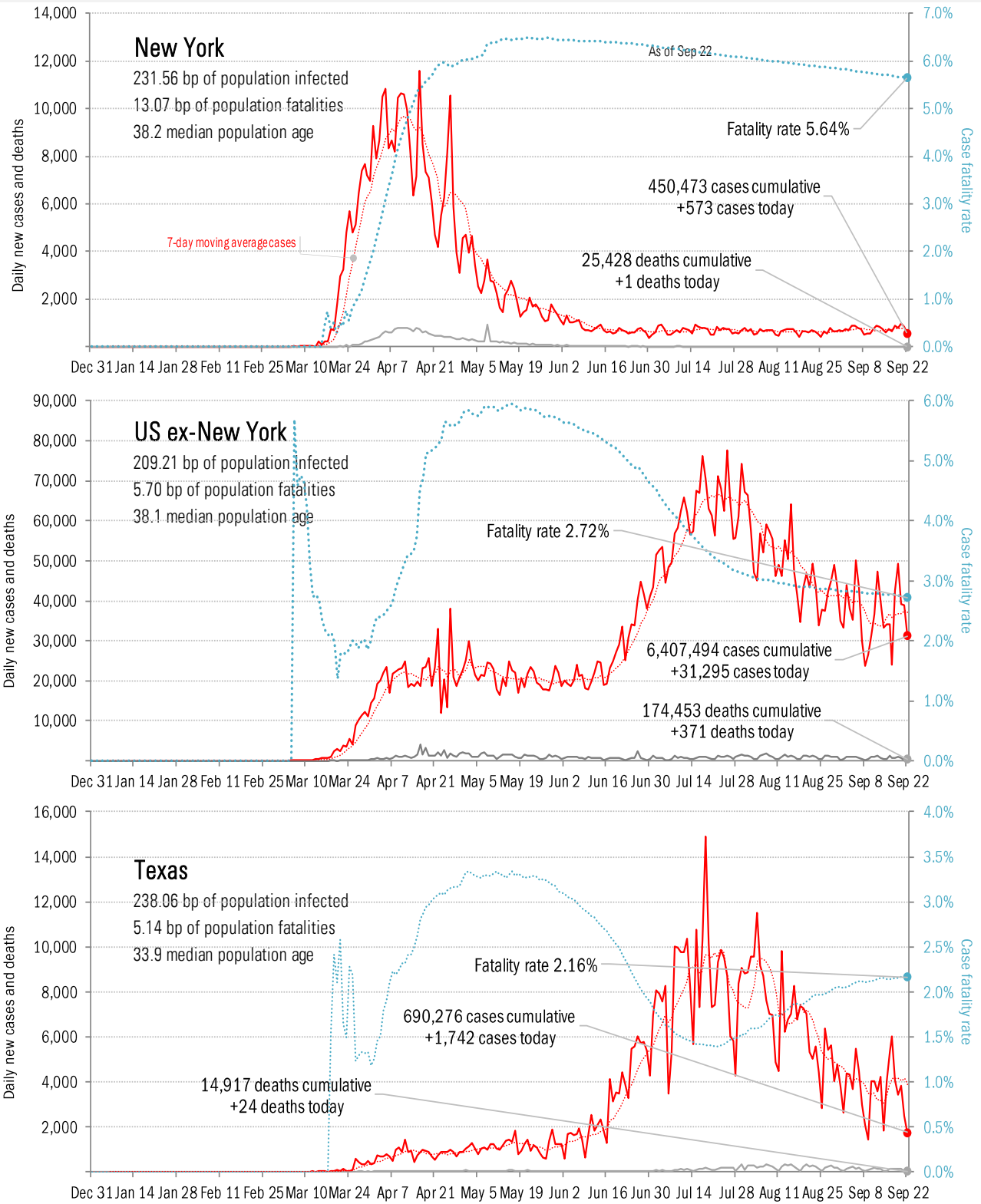


Healthcare system stress, **peak** and **ultimate** estimated at each model revision



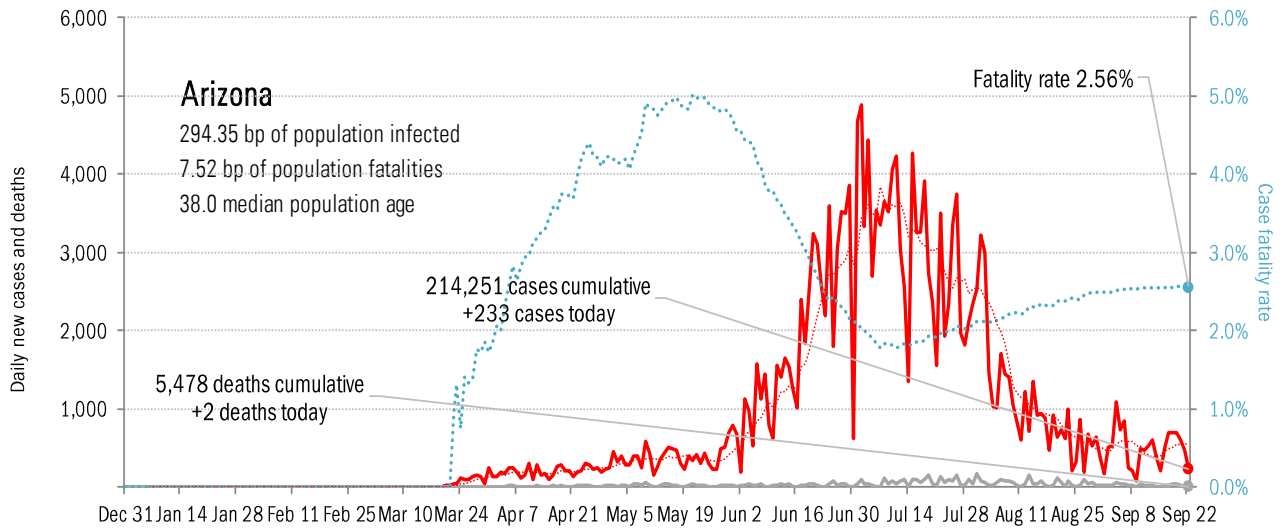
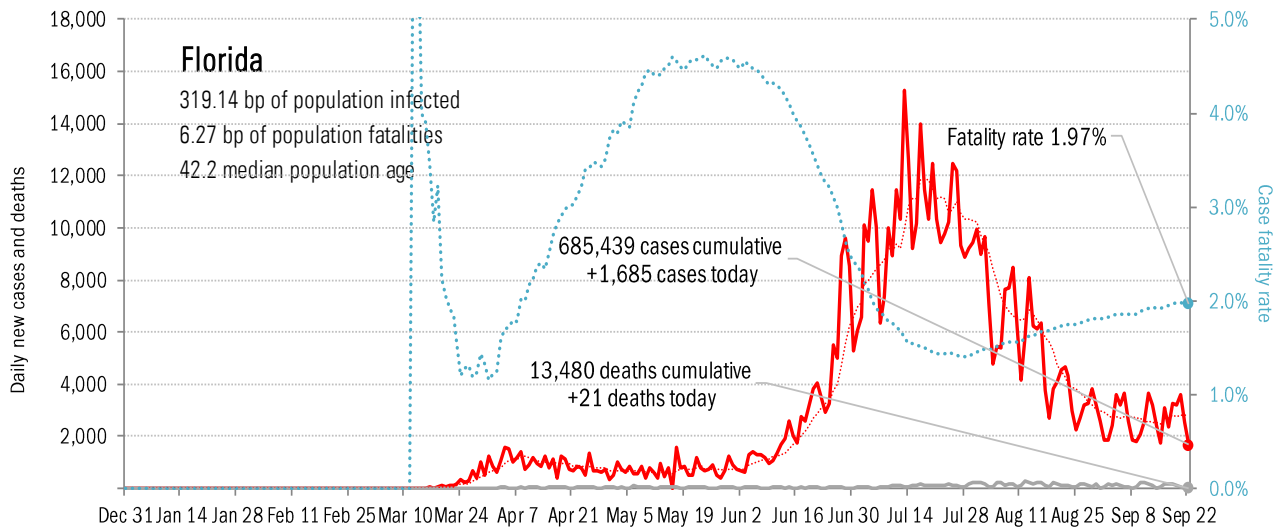
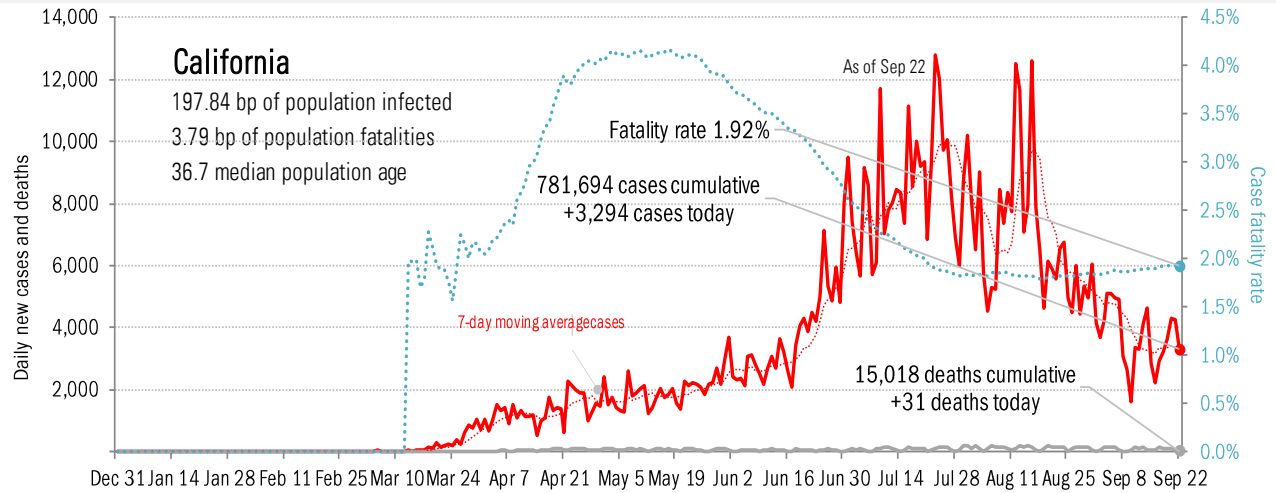
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



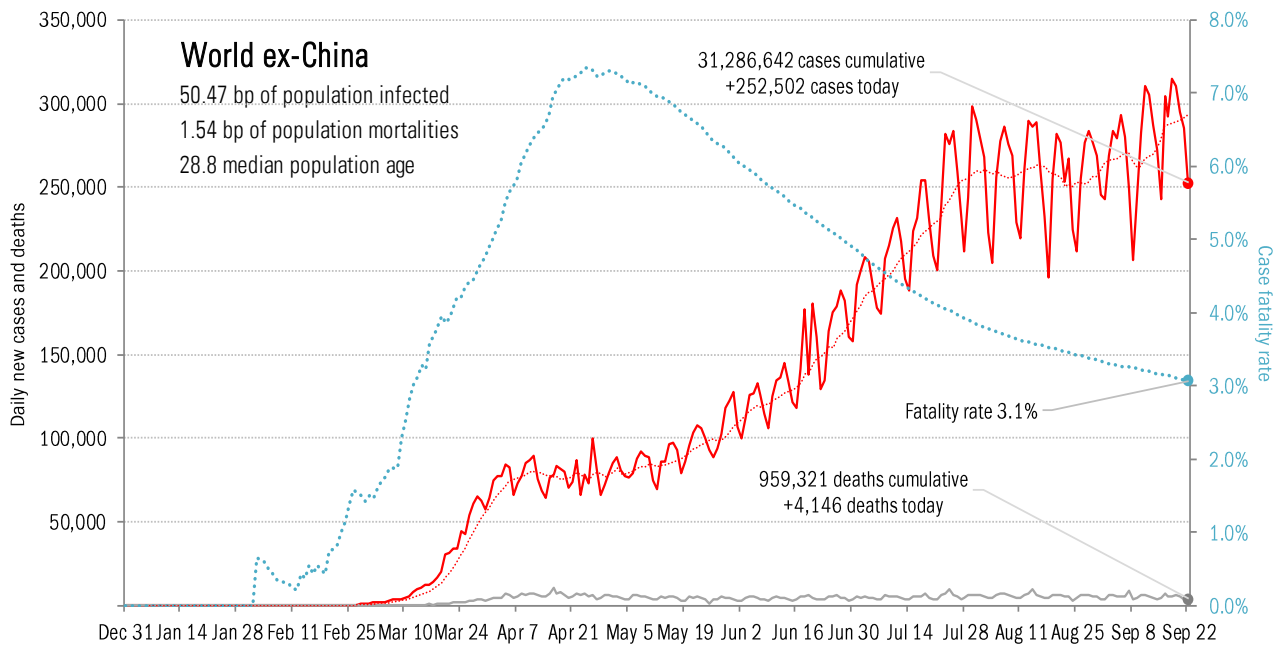
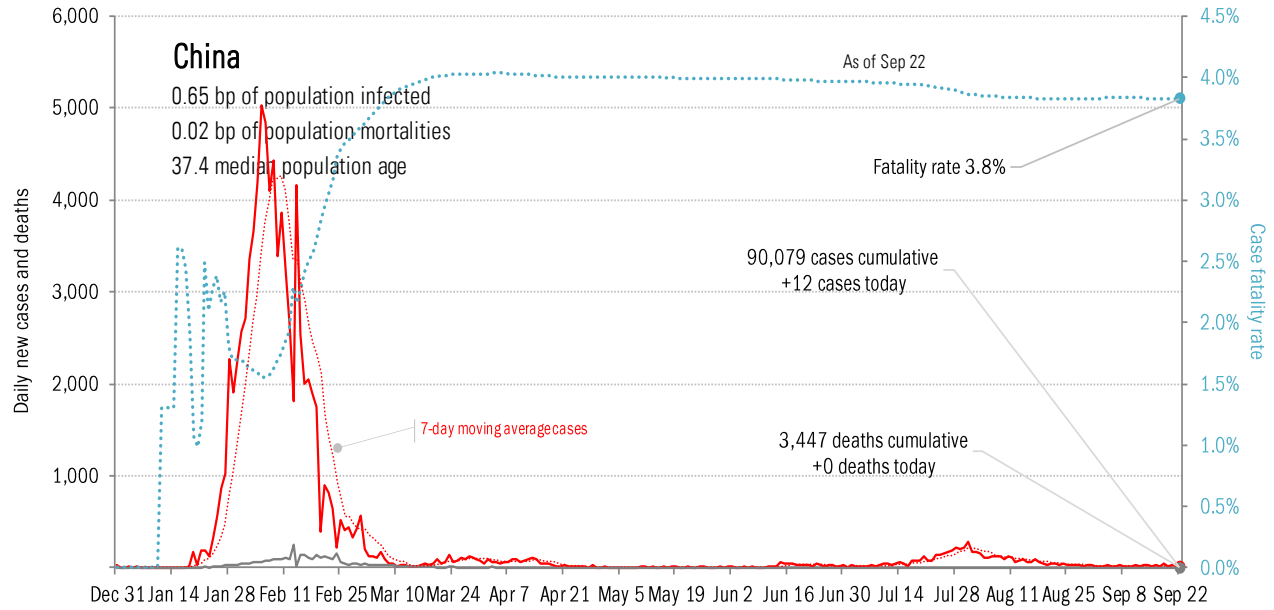
Source: [ECDC](#), TrendMacro calculations

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



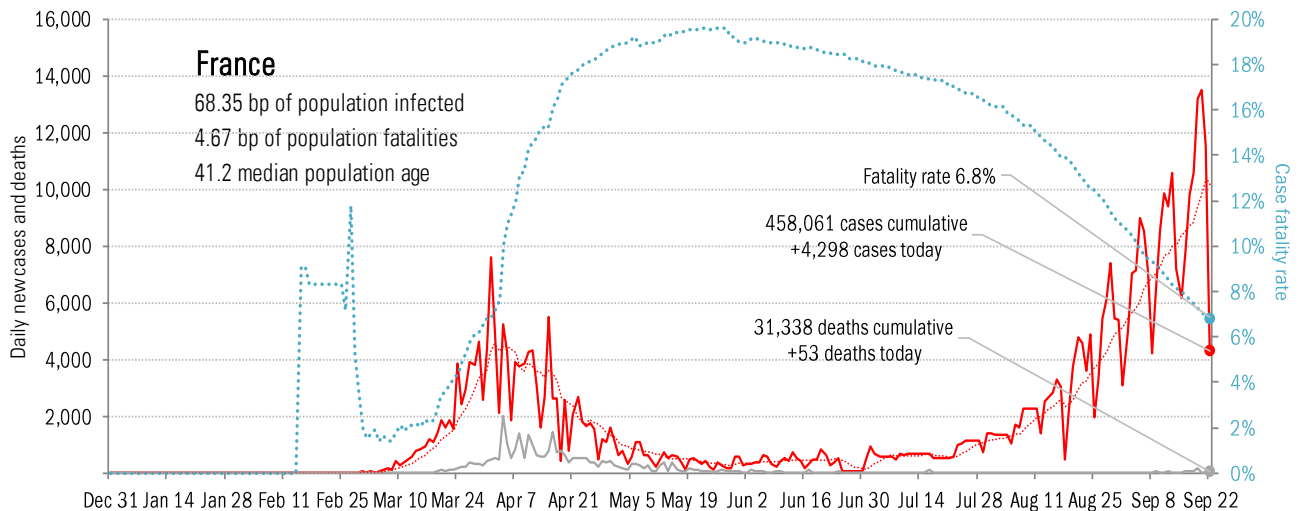
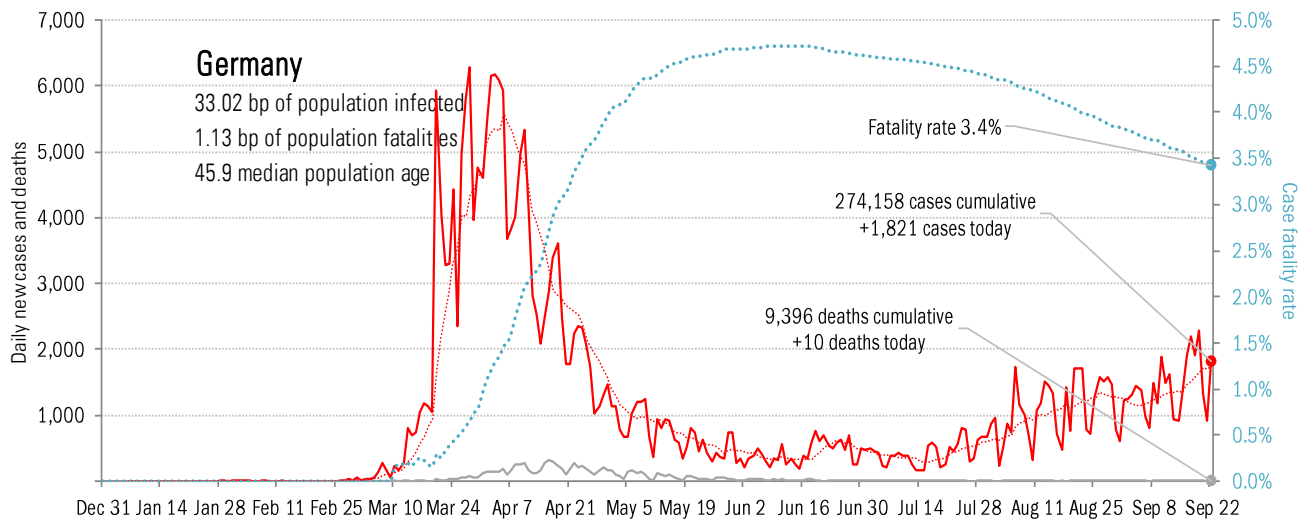
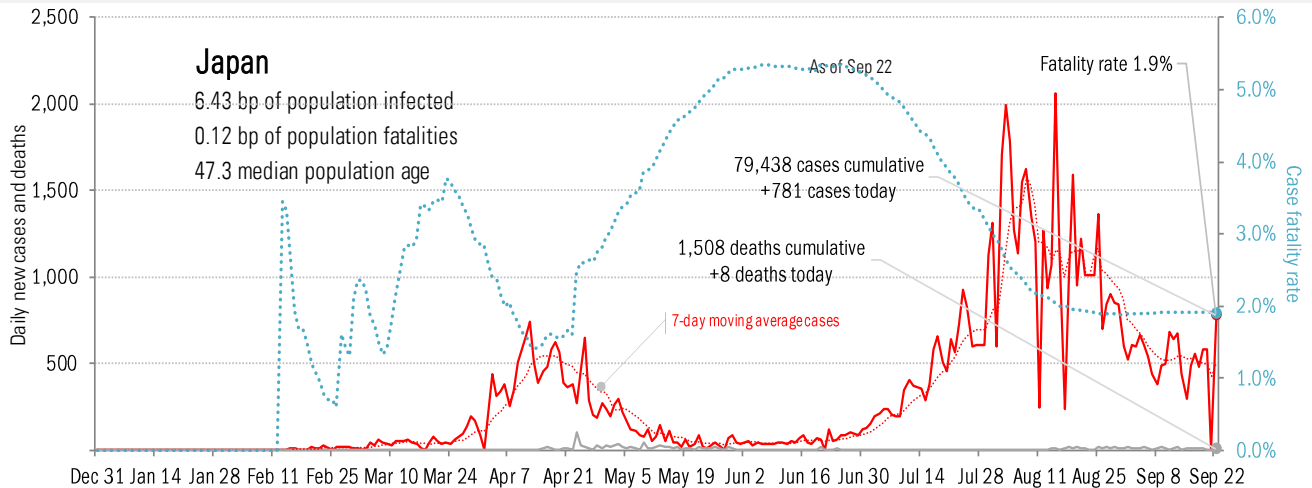
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



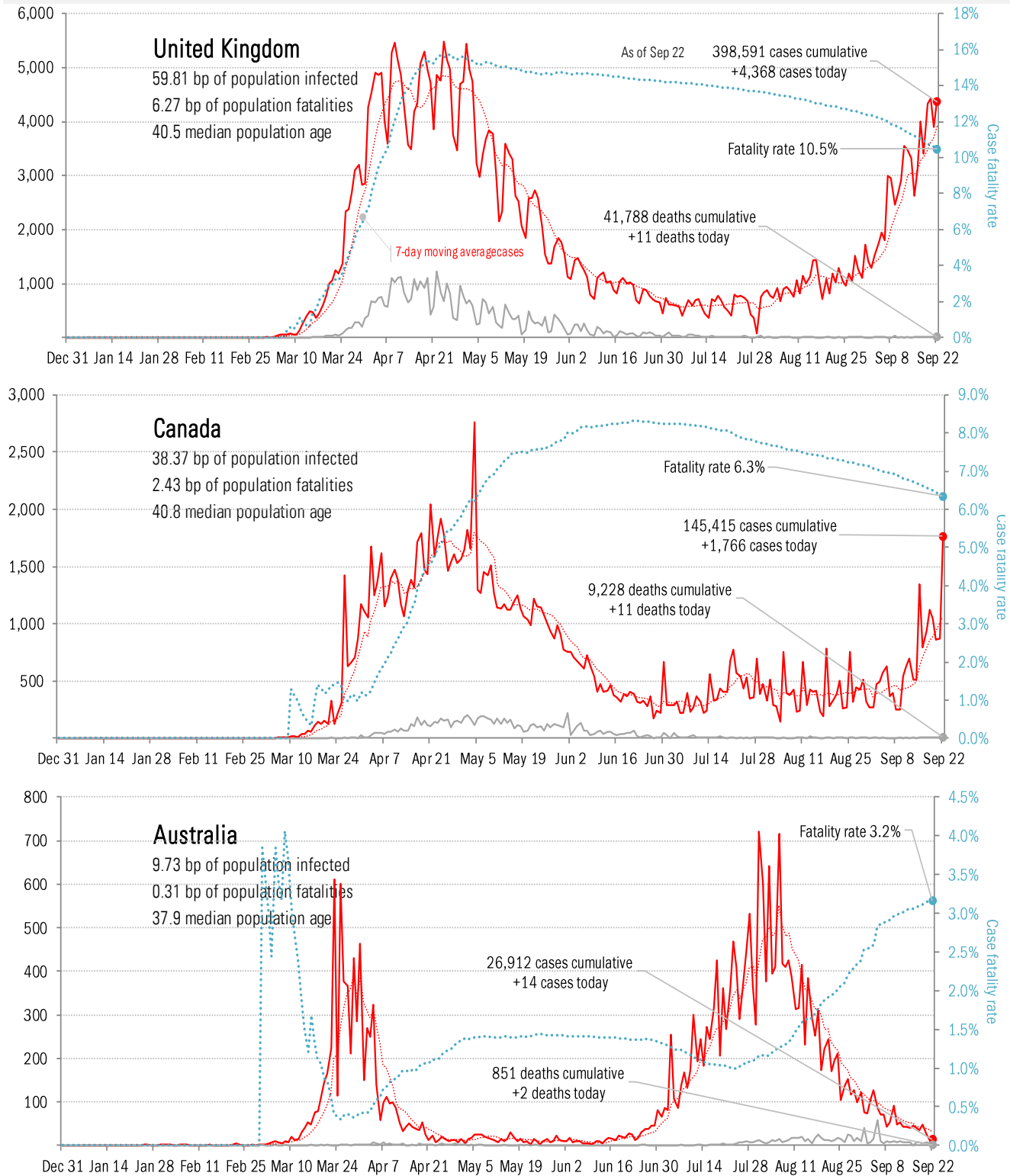
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



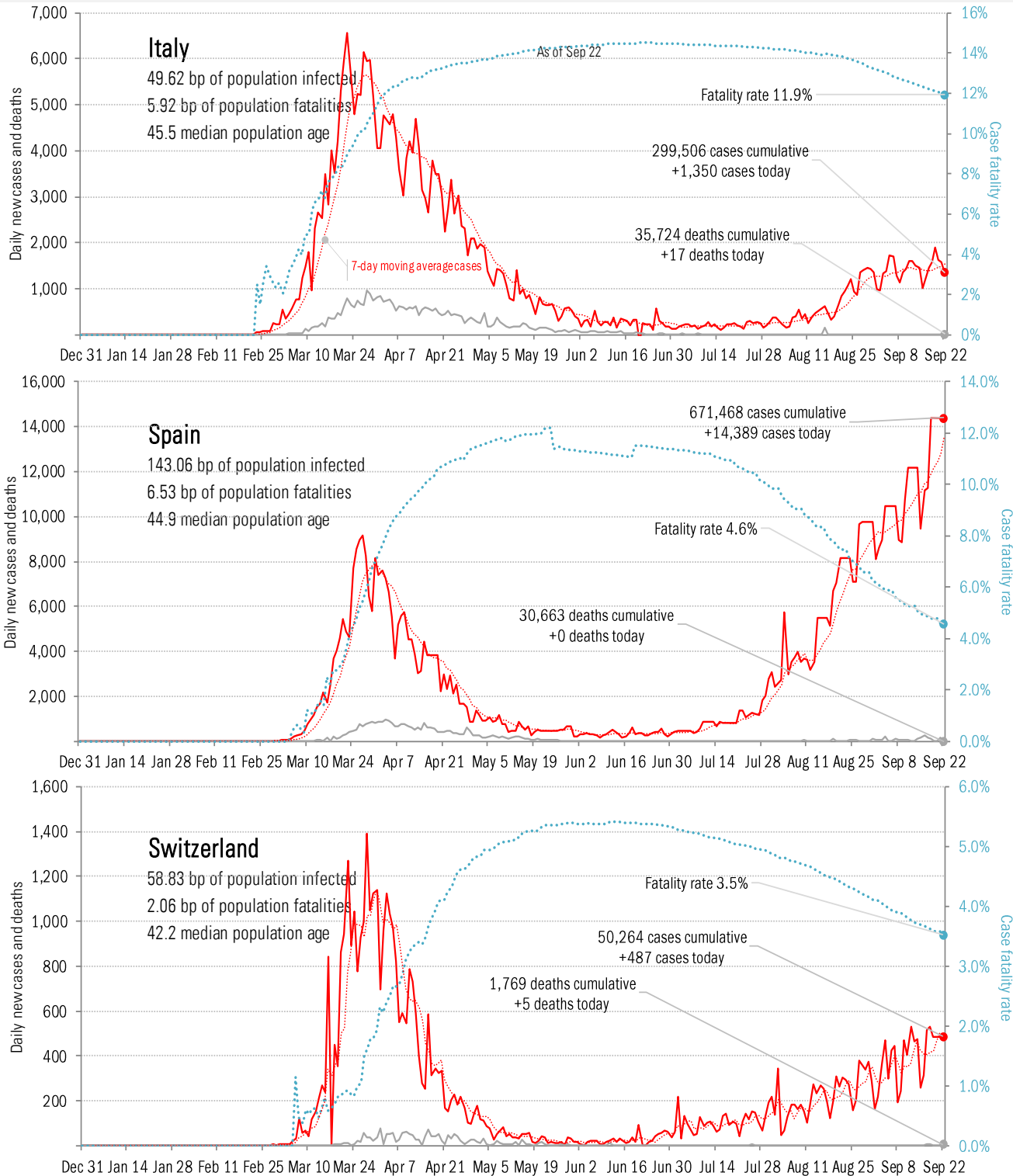
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



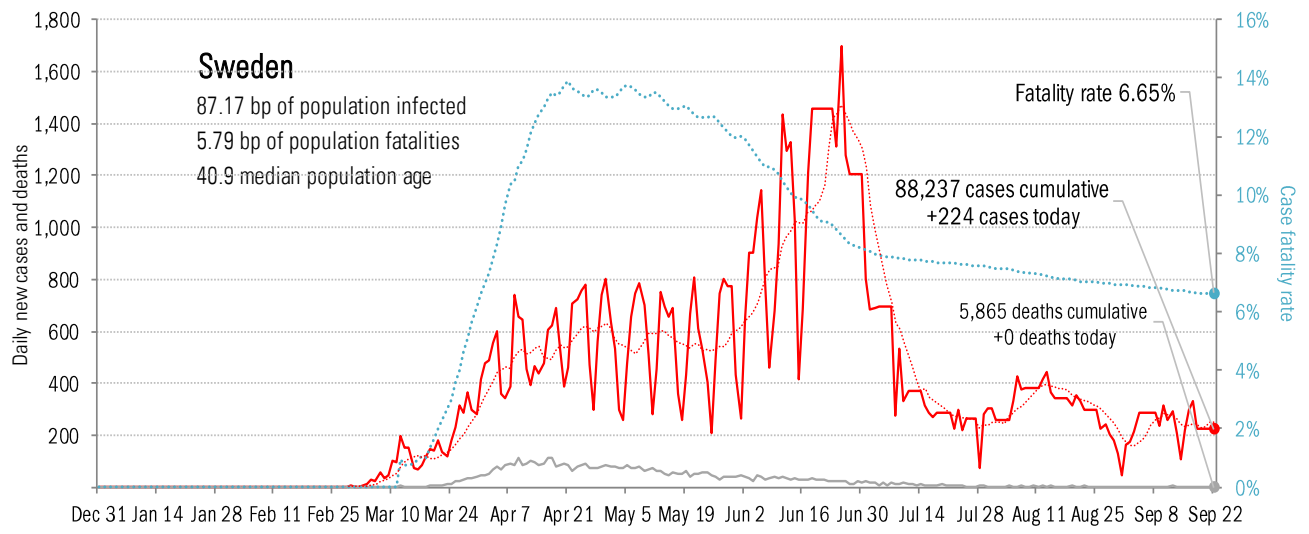
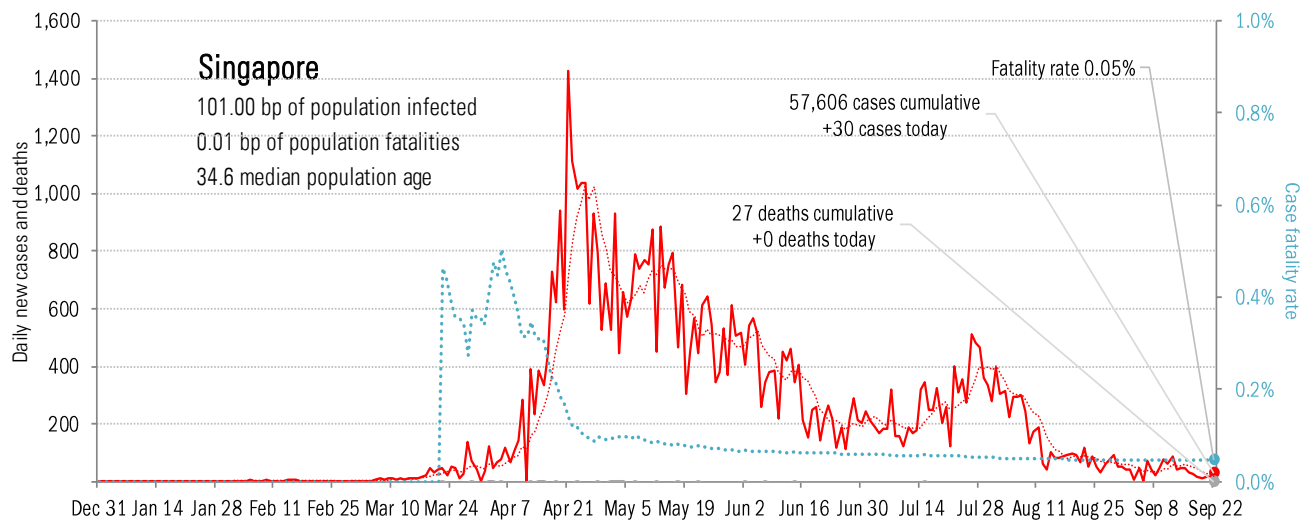
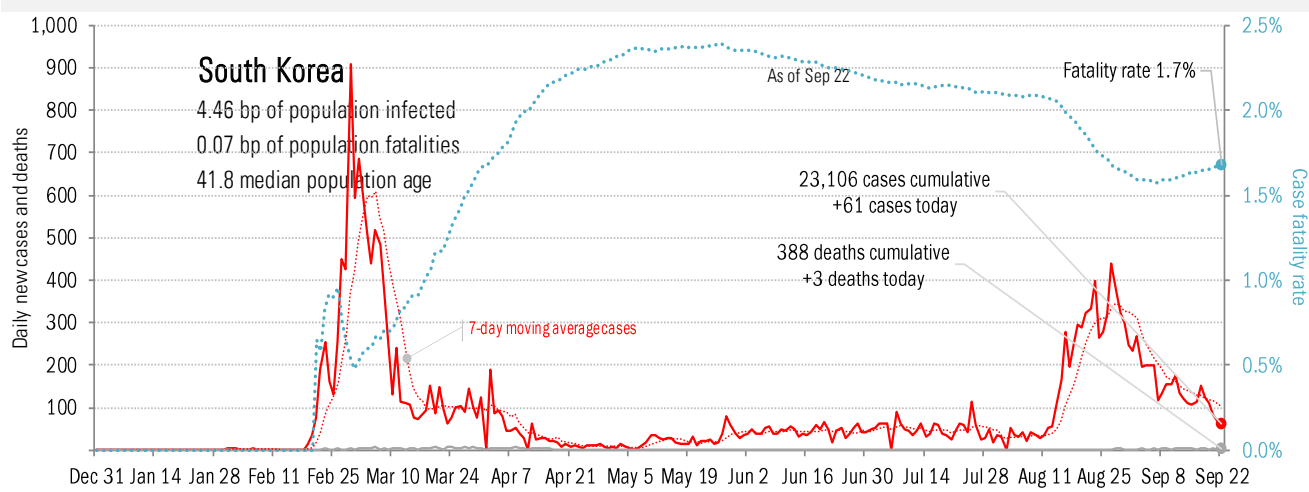
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



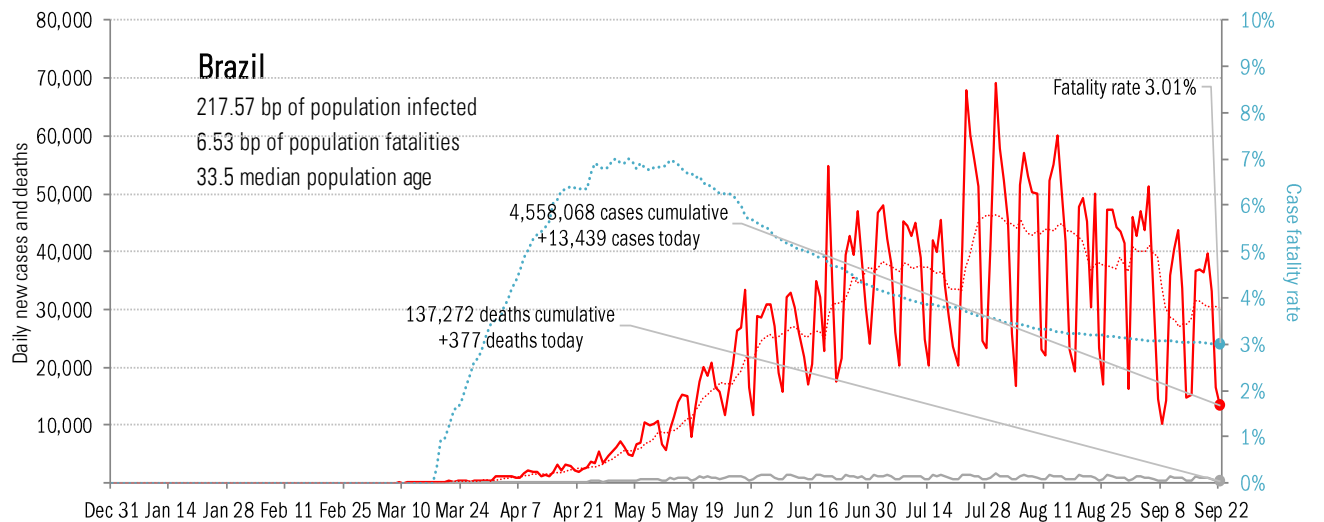
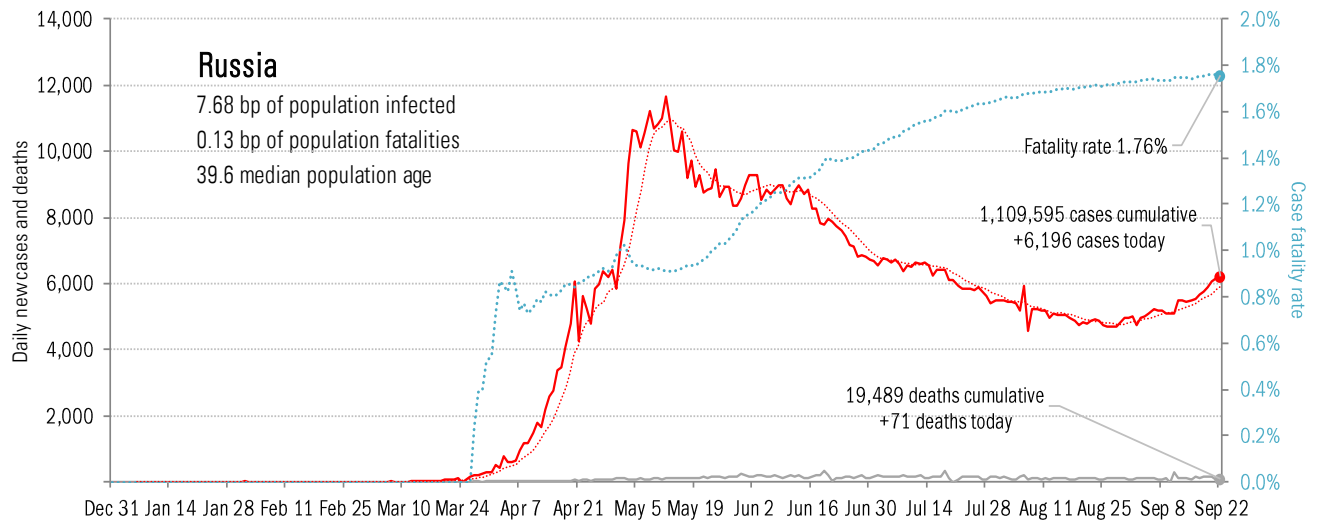
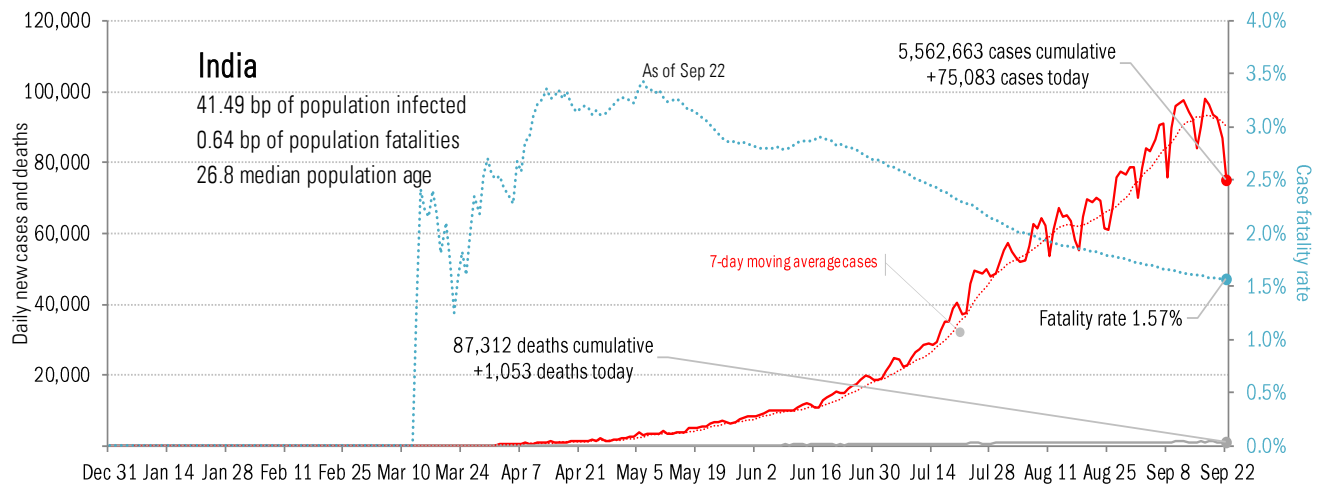
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



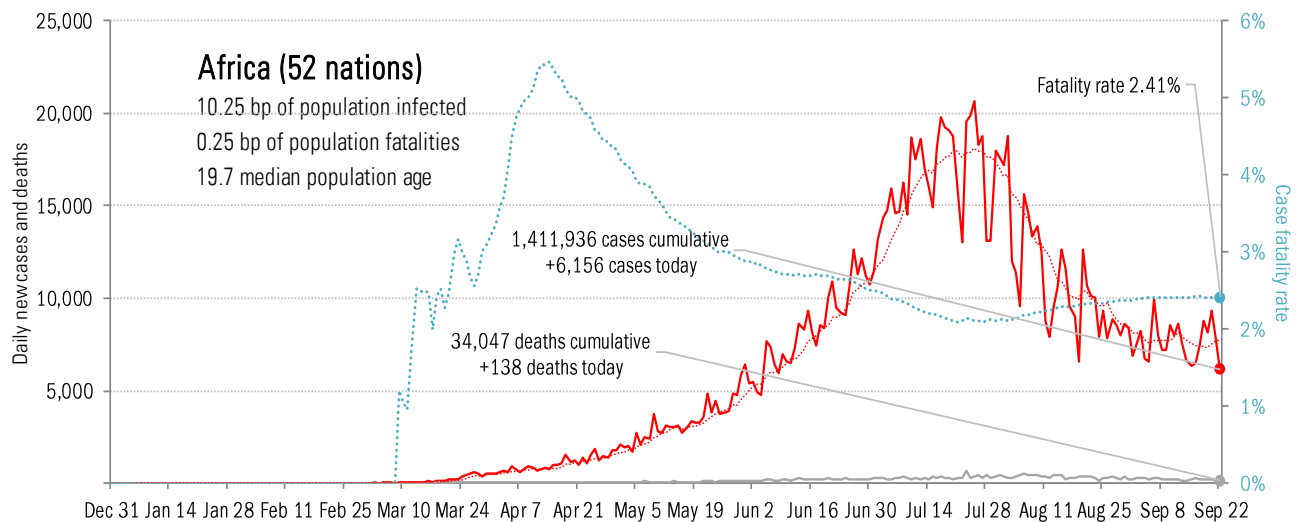
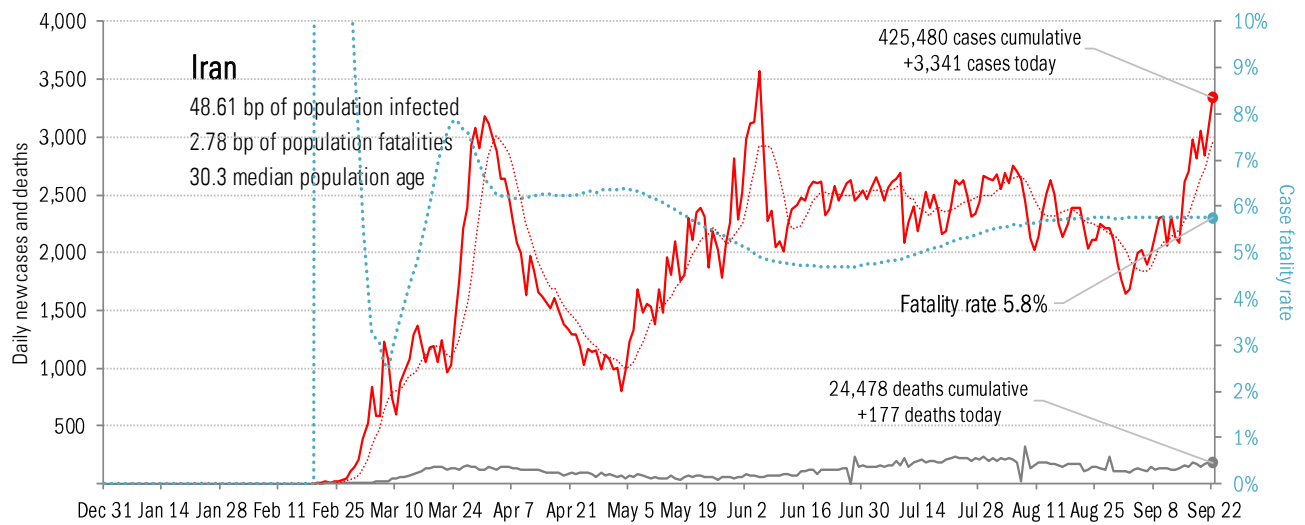
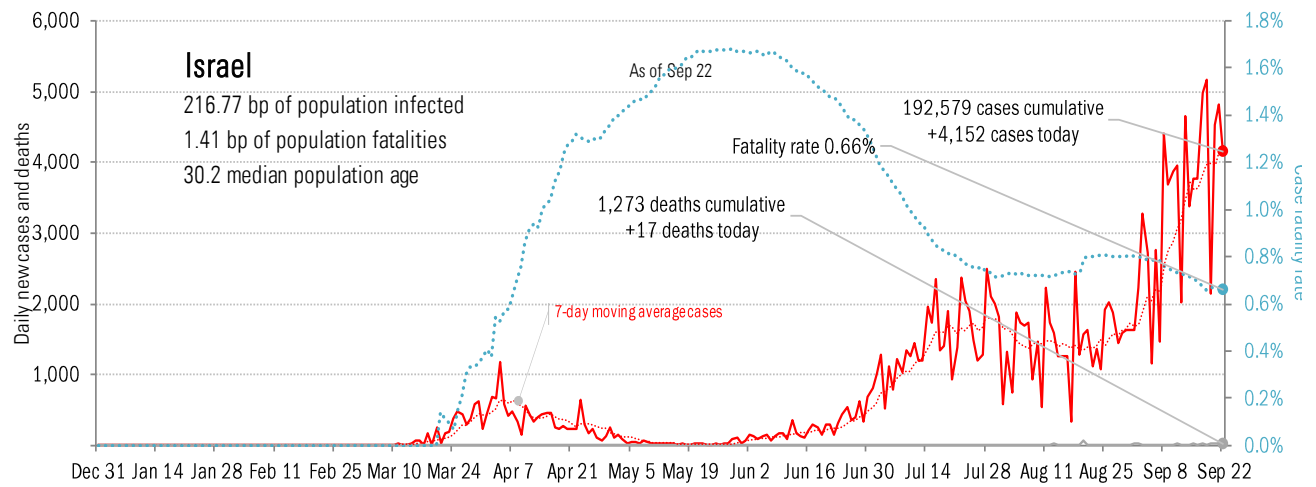
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations