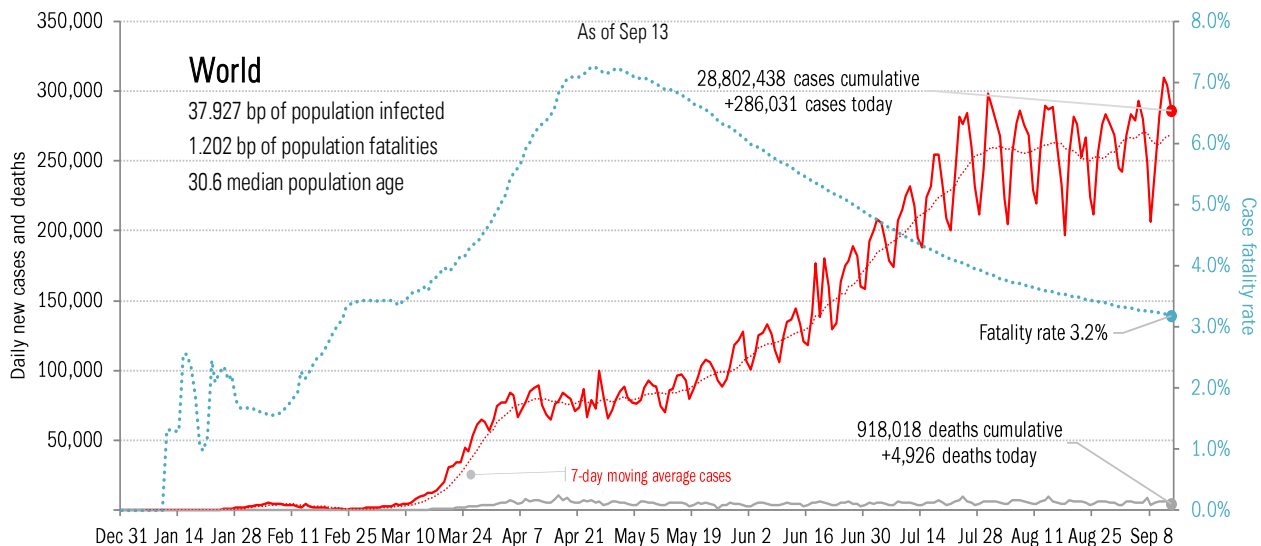
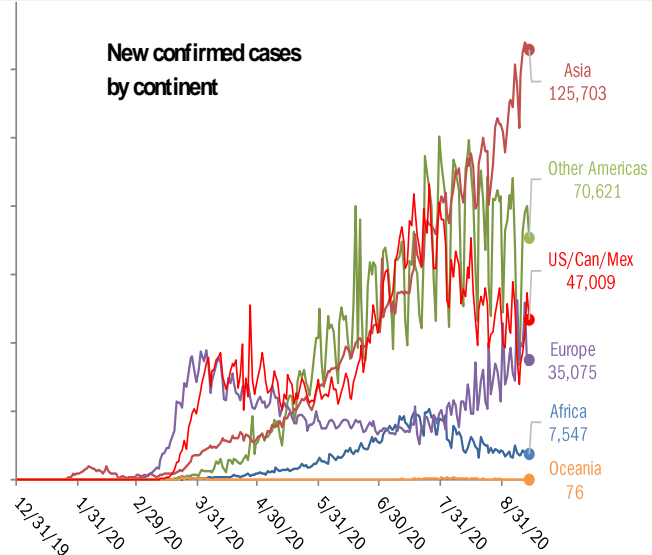


Data Insights: Covid-2019 Monitor

Sunday, September 13, 2020

The global scorecard

The worst ten countries			
New cases		New Deaths	
India	+94,372	India	+1,114
US	+40,820	Brazil	+814
Brazil	+33,523	US	+685
Argentina	+11,505	Mexico	+421
France	+10,561	Colombia	+216
Colombia	+6,876	Argentina	+212
Peru	+6,162	Philippines	+184
Mexico	+5,674	Peru	+123
Russia	+5,488	Russia	+119
Philippines	+4,899	Iran	+116
+219,880		+4,004	
World	+286,031	World	+4,926
Top ten	77%	Top ten	81%



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

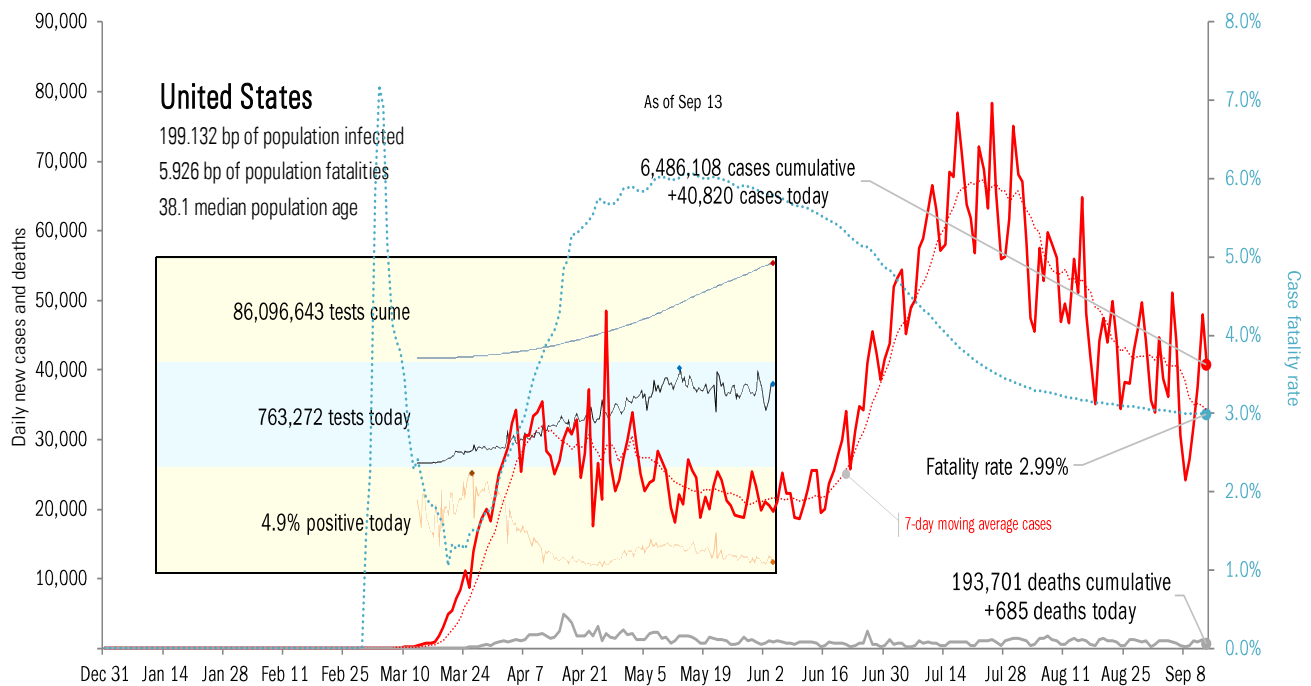
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+4,107	CA	+162	FL	+193	CA	750,298	NY	25,384	NY	89,995
FL	+3,190	FL	+98	GA	+164	FL	661,571	NJ	16,027	FL	41,687
GA	+2,124	GA	+41	WY	+60	TX	653,356	CA	14,251	GA	26,327
IL	+2,121	TN	+39	IN	+59	NY	443,640	TX	13,997	NJ	22,950
MO	+1,974	AZ	+27	OK	+55	GA	292,905	FL	12,756	AZ	21,773
NC	+1,454	NC	+24	TN	+55	IL	262,004	MA	9,196	VA	17,271
WI	+1,430	IL	+22	SC	+49	AZ	208,128	IL	8,527	AL	15,527
VA	+1,300	AL	+17	CH	+48	NJ	196,337	PA	7,837	MD	14,796
CH	+1,242	IN	+17	WI	+46	NC	183,740	MI	6,911	CH	14,284
IN	+1,056	AR	+16	MD	+40	TN	170,891	GA	6,287	MA	12,426
+19,998		+463		+769		3,822,870		121,173		277,036	
All states	+37,295	All states	+663	All states	+1,027	All states	6,449,208	All states	185,630	All states	386,038
Top ten	54%	Top ten	70%	Top ten	75%	Top ten	59%	Top ten	65%	Top ten	72%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
TX	-3,547	TX	-144	AL	-188	MI	+4,835
SC	-1,522	FL	-78	AZ	-110	TN	+2,273
KS	-976	LA	-41	VA	-98	AR	+1,377
LA	-755	CH	-41	AR	-72	WI	+1,031
MI	-598	SC	-41	KS	-67	CH	+1,013



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

Recommended reading

[Public health lessons learned from biases in coronavirus mortality overestimation](#)

Ronald B. Brown
University of Waterloo
September 2, 2020

[Infection Fatality Ratios for COVID-19 Among Noninstitutionalized Persons 12 and Older: Results of a Random-Sample Prevalence Study](#)

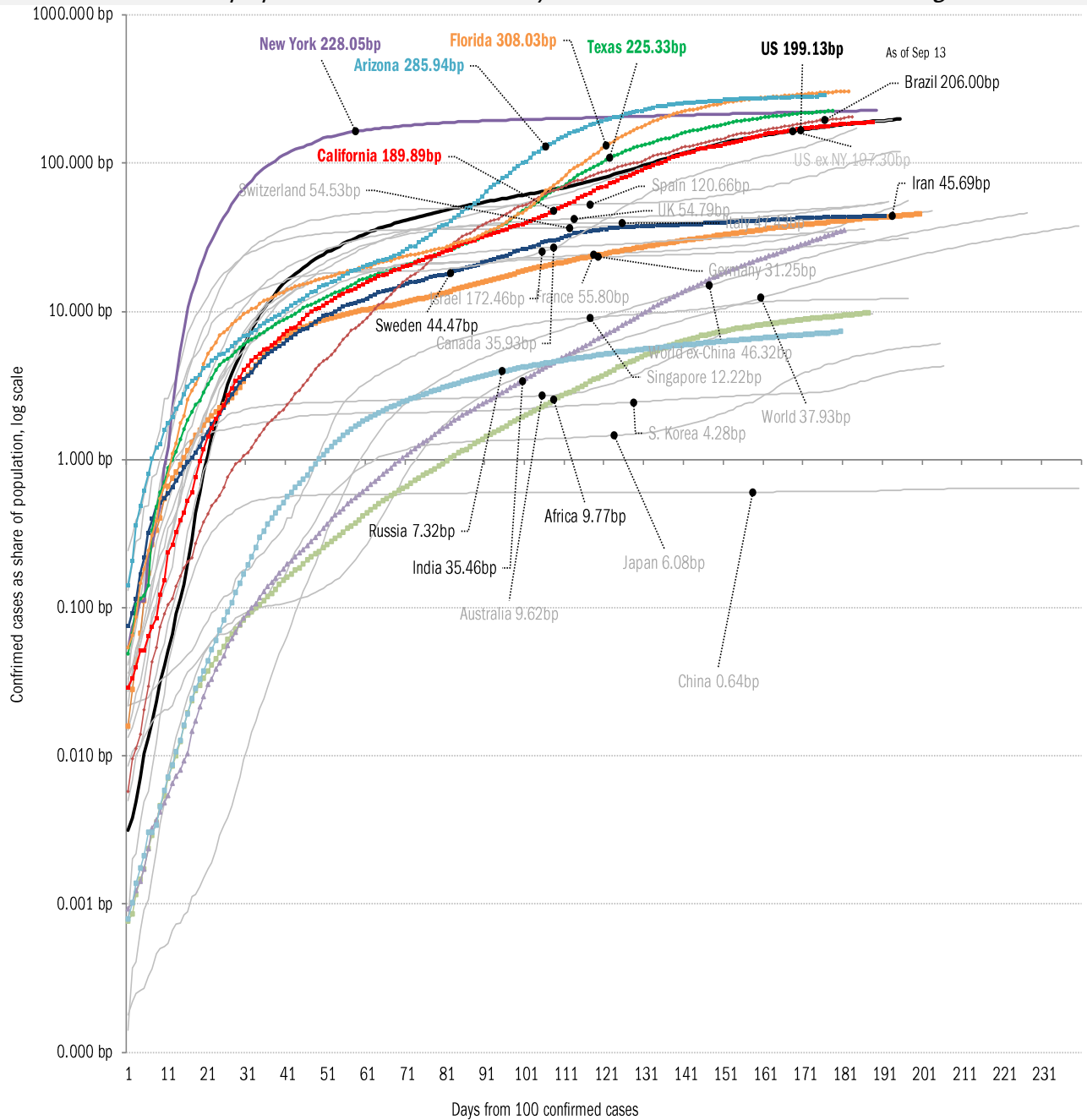
Justin Blackburn
Annals of Internal Medicine
September 2, 2020

Meme of day



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

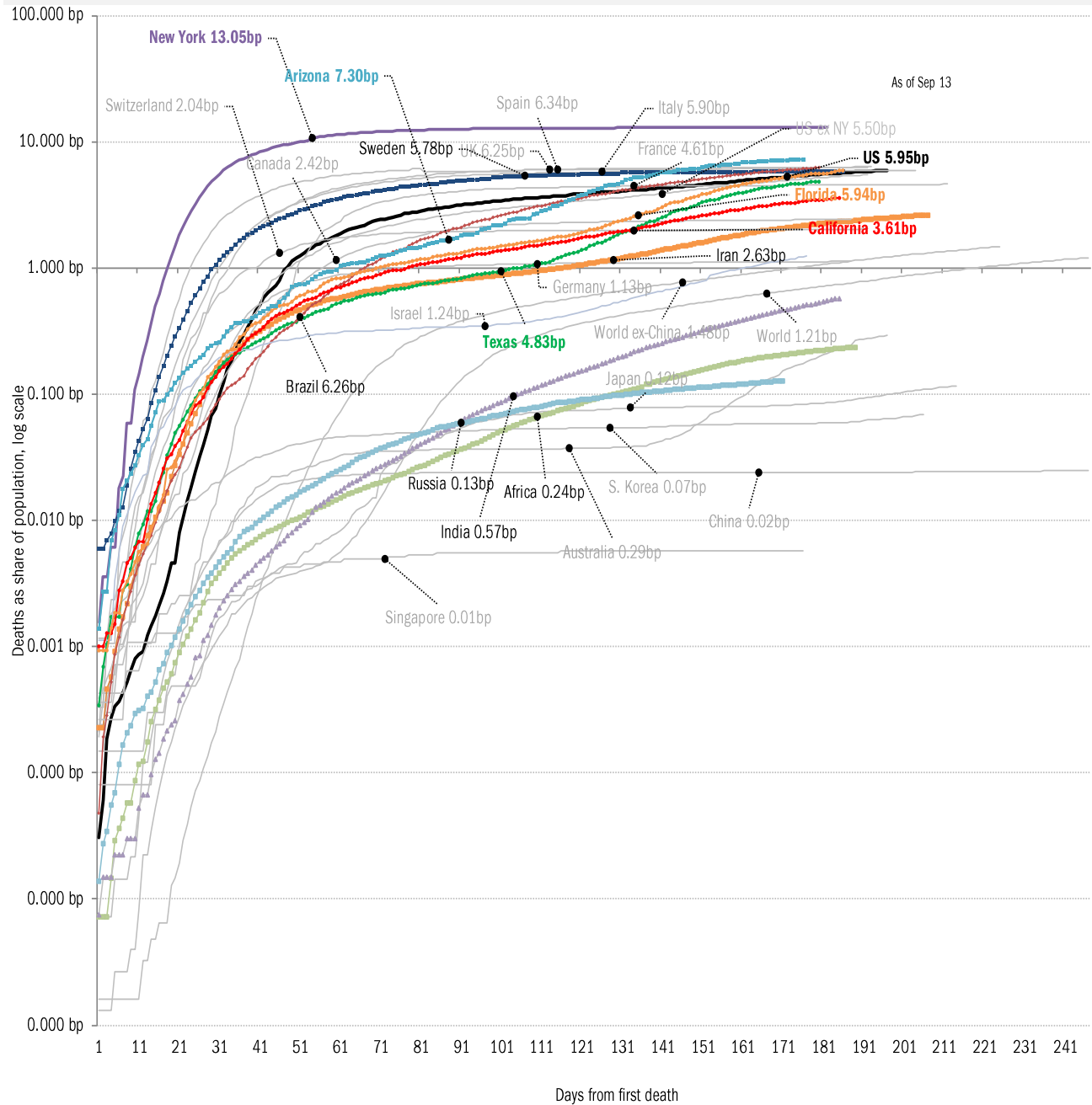
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

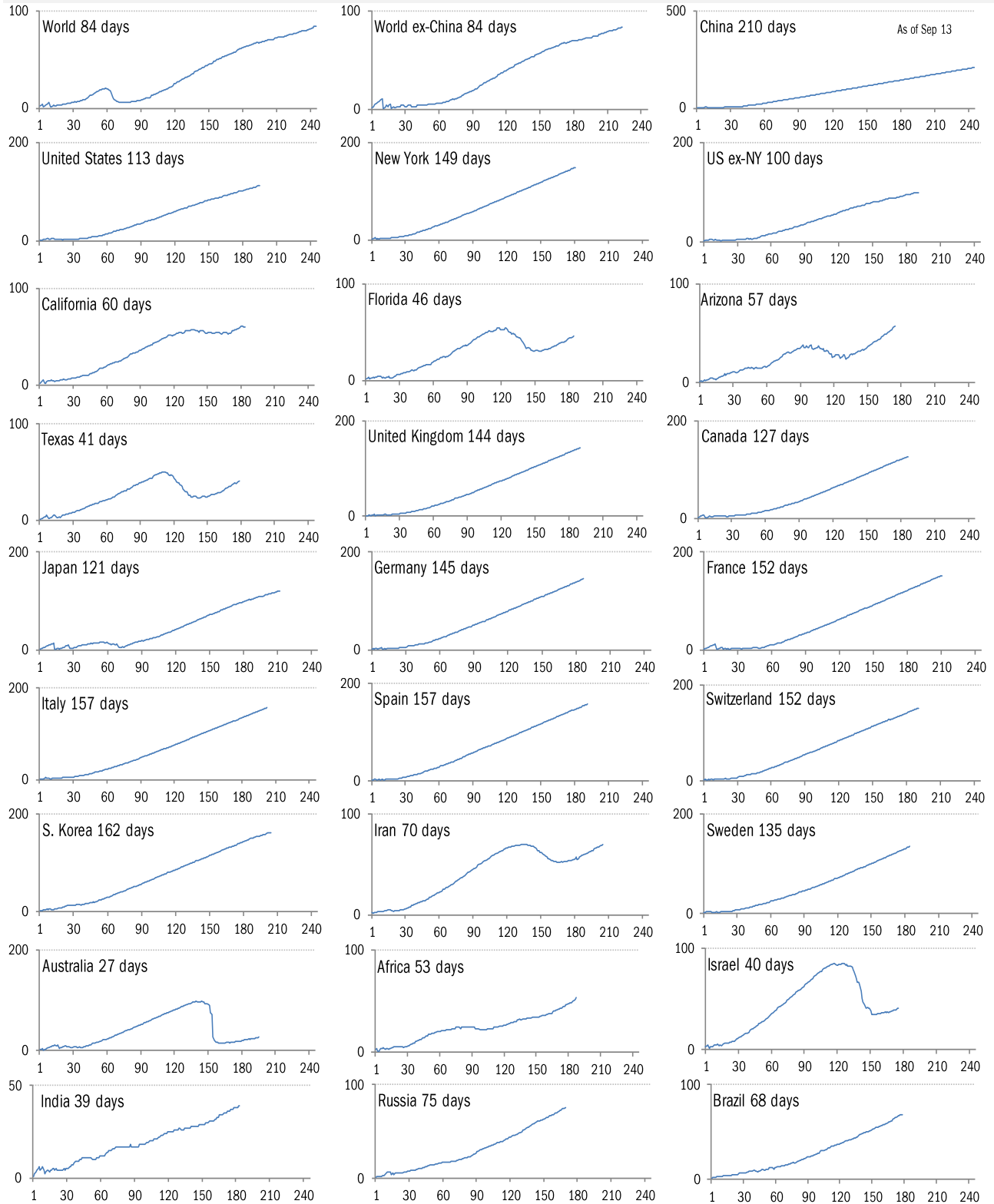


Source: [ECDC](#), TrendMacro calculations

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

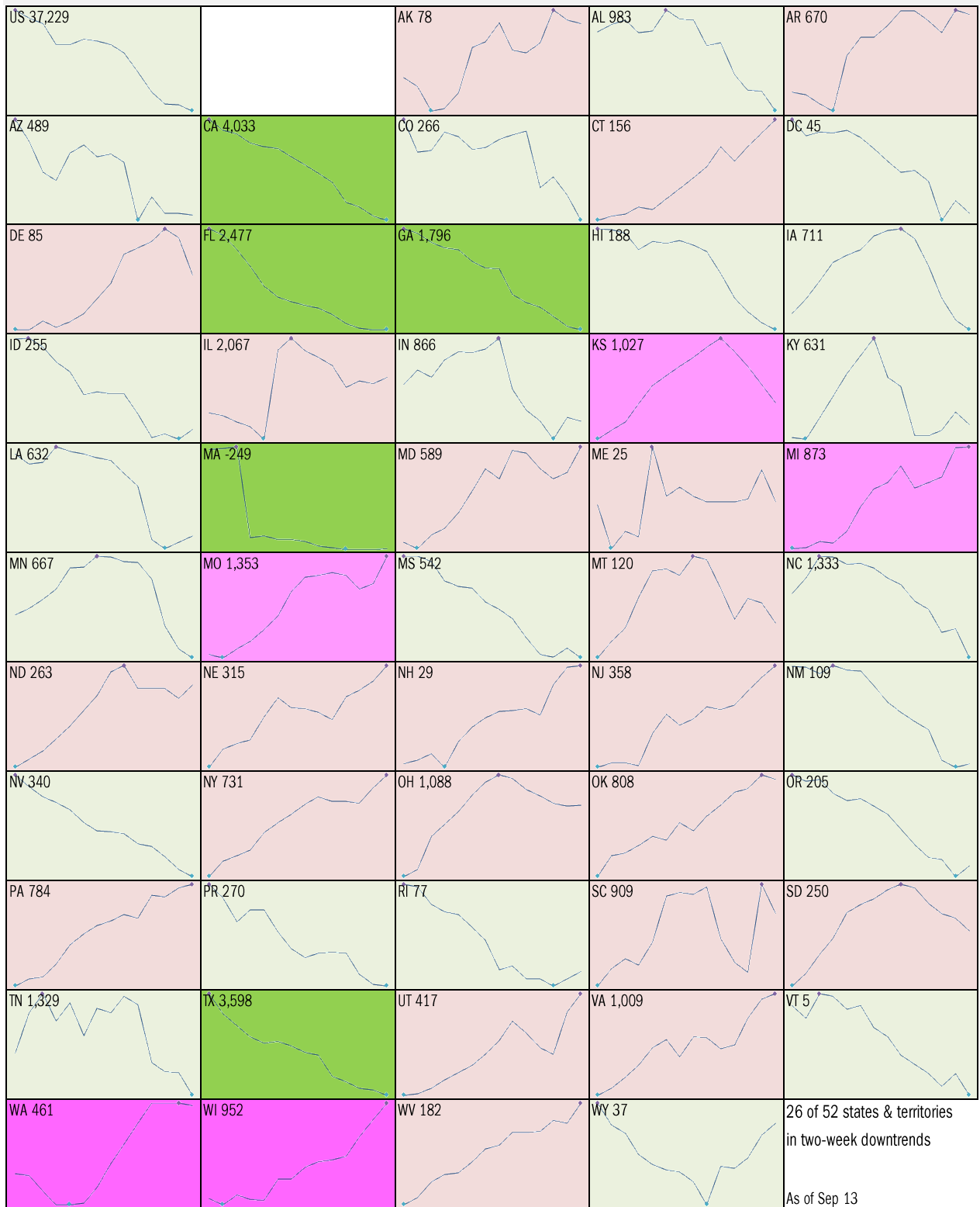
Vertical: days to double deaths Horizontal: days from first death

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



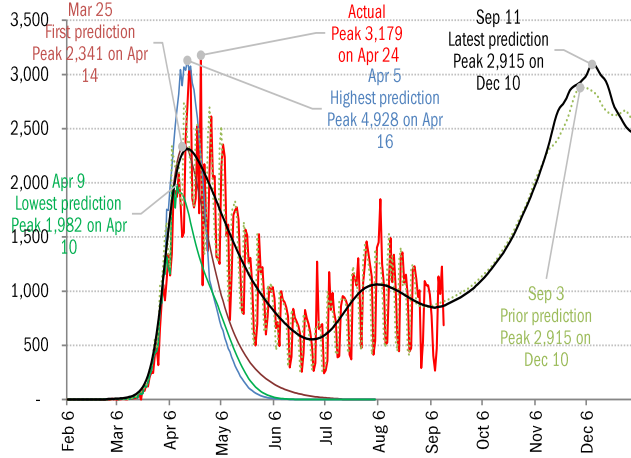
Source: [Covid Tracking Project](#), TrendMacro calculations

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

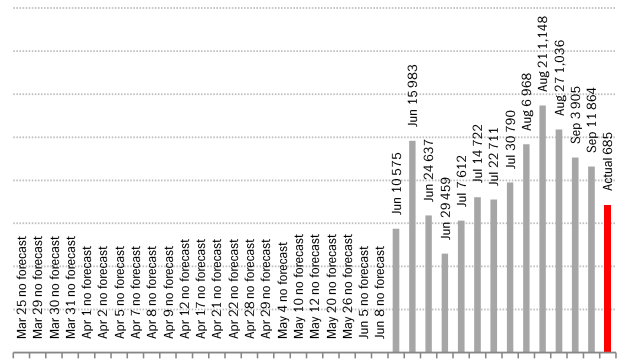
New daily fatalities

As of Sep 13

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

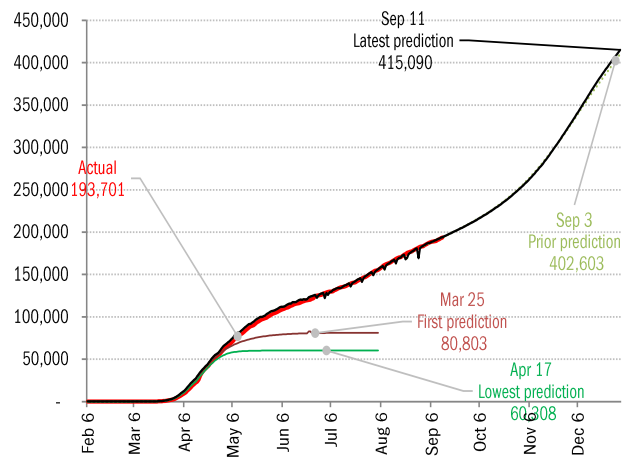


For this day, versus all model mean predictions

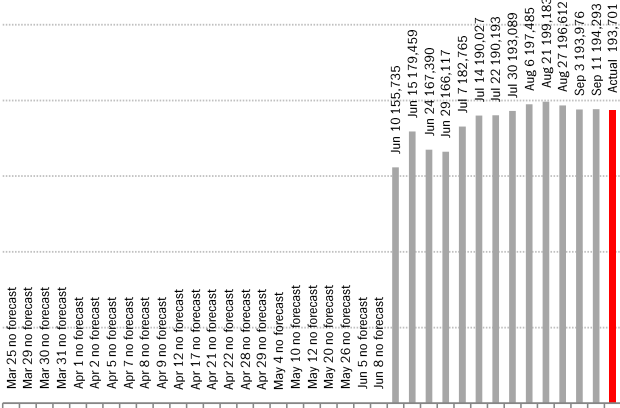


Cumulative fatalities

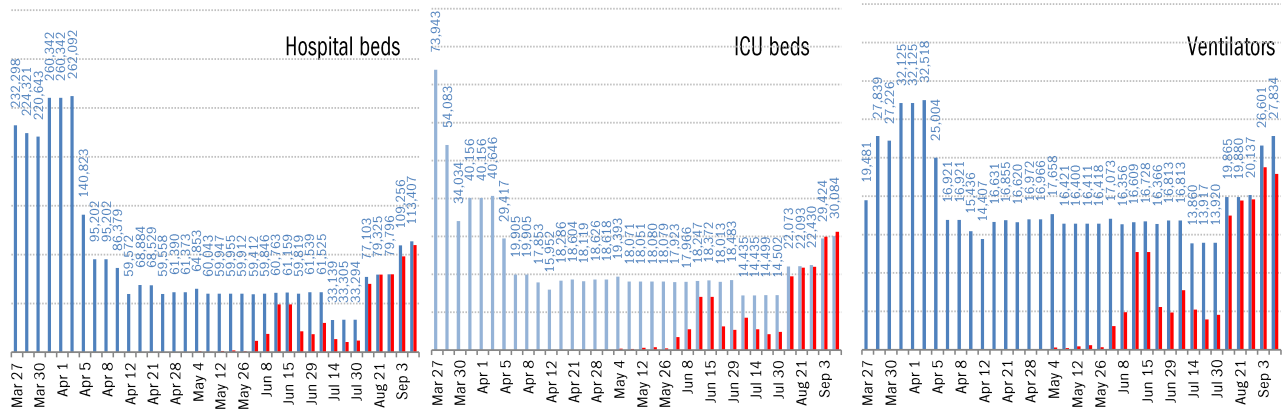
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

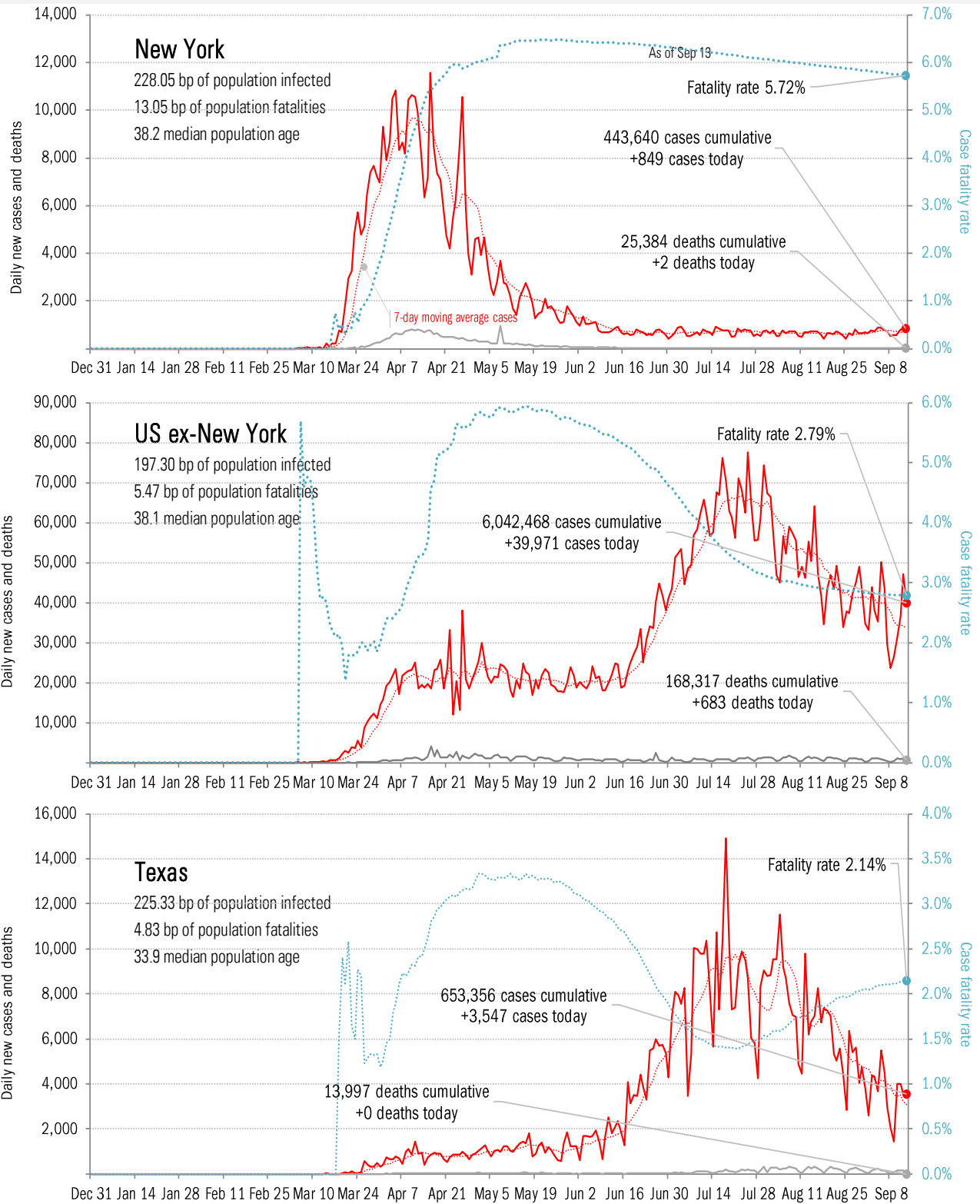


Healthcare system stress, peak and ultimate estimated at each model revision



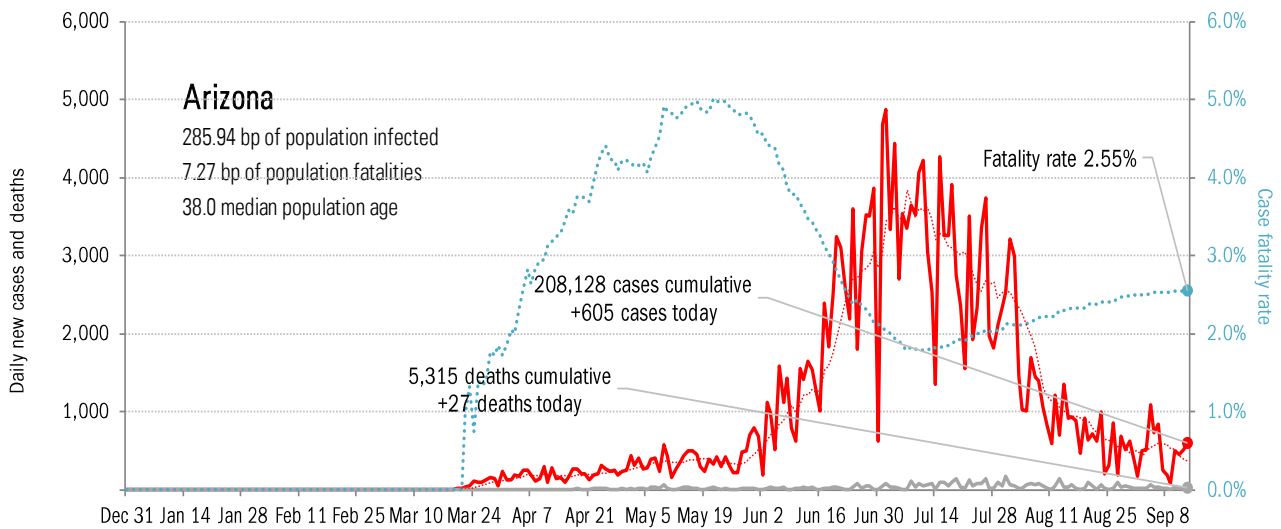
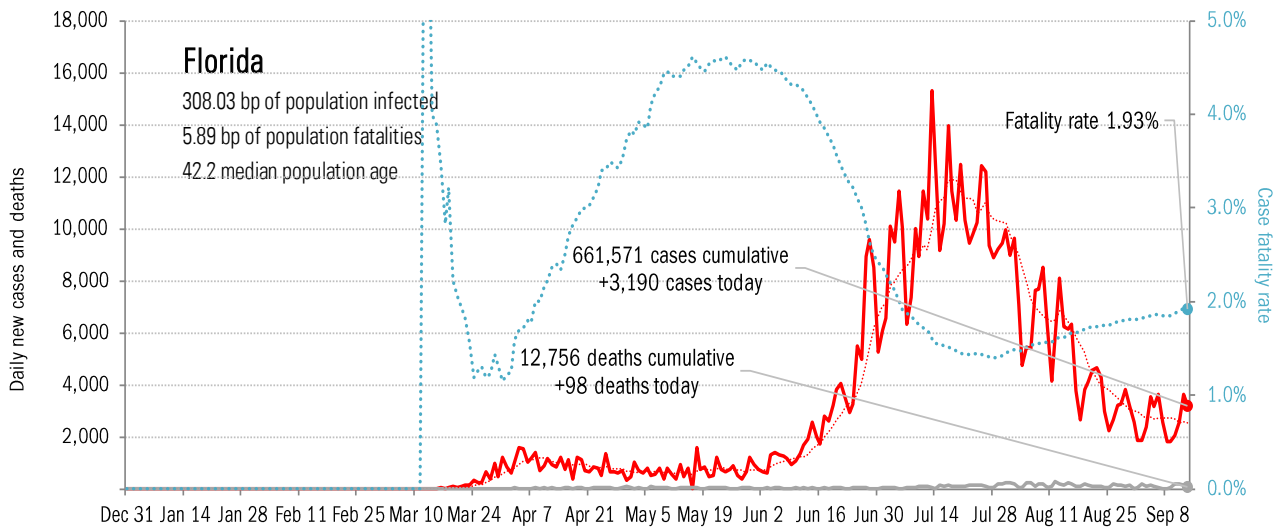
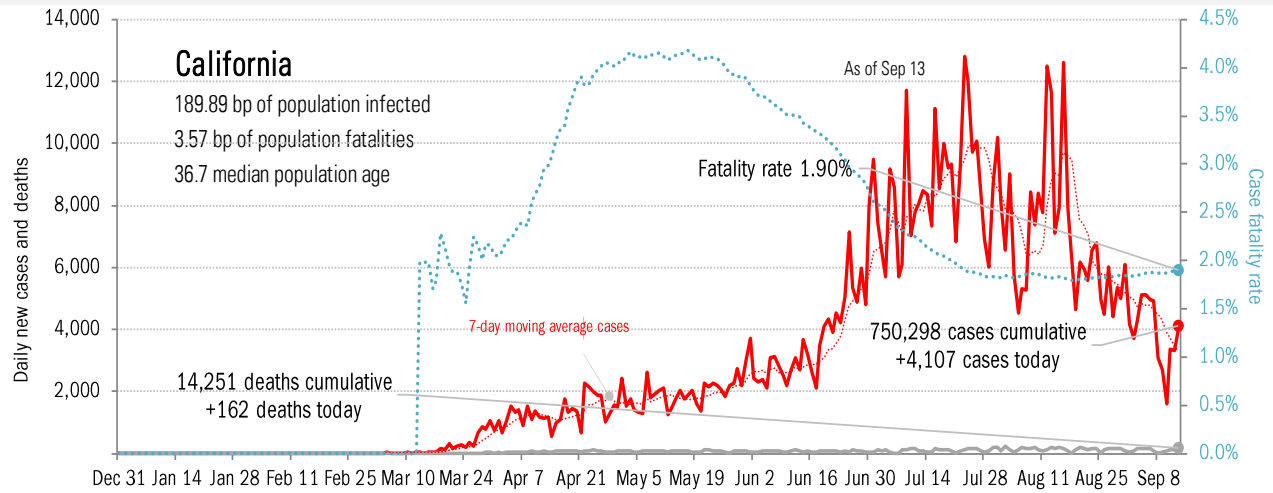
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



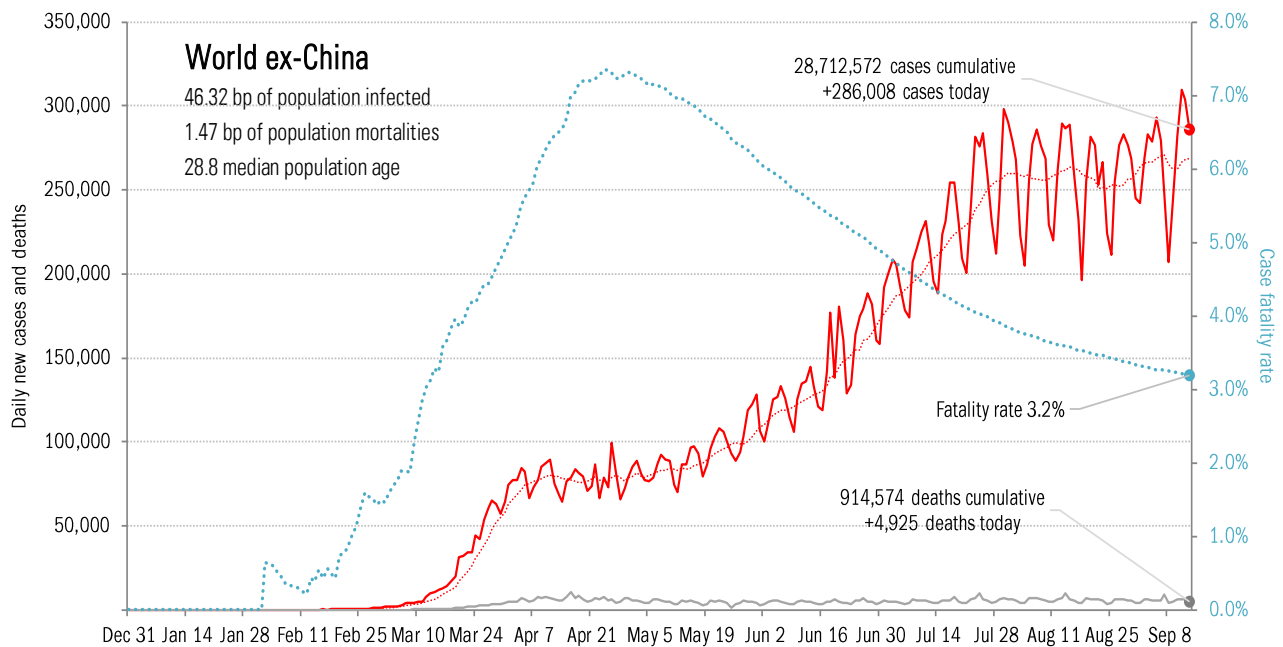
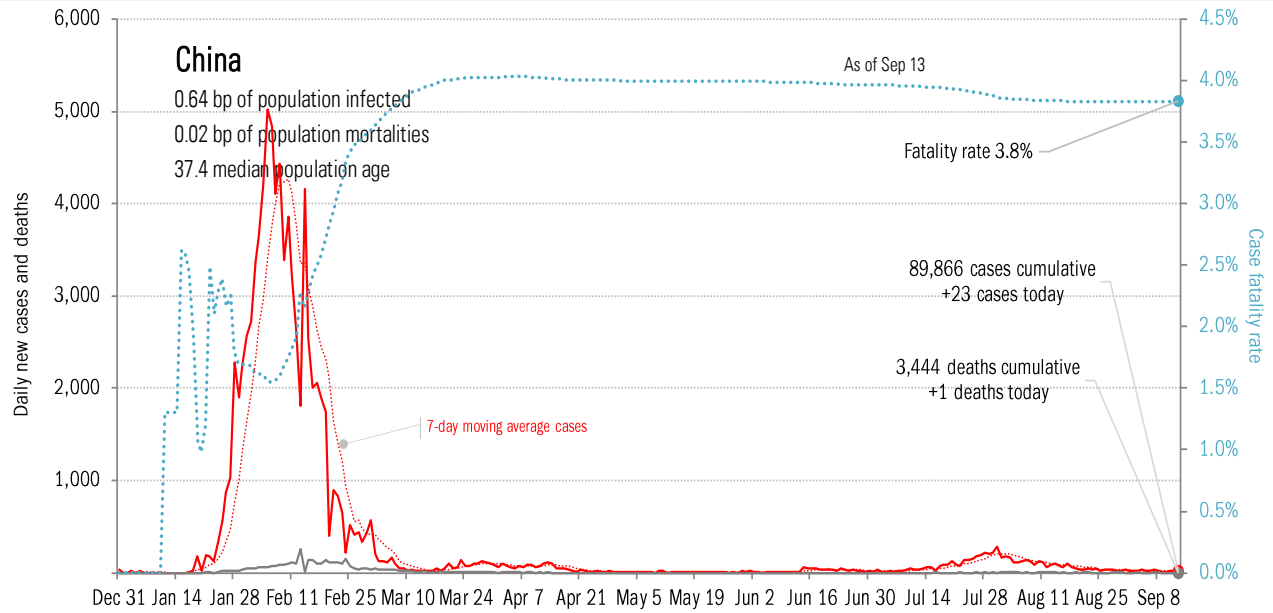
Source: [ECDC](#), TrendMacro calculations

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



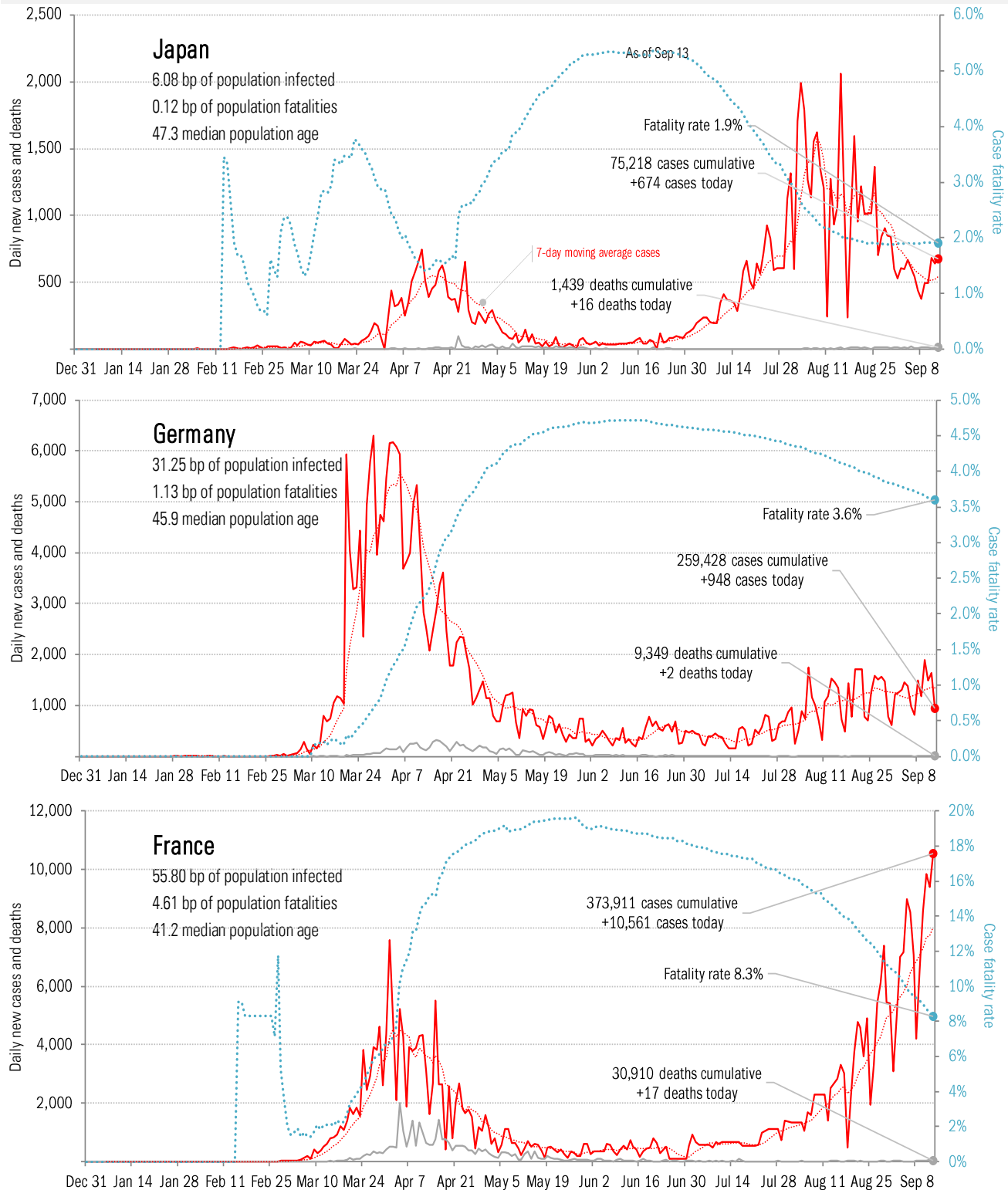
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



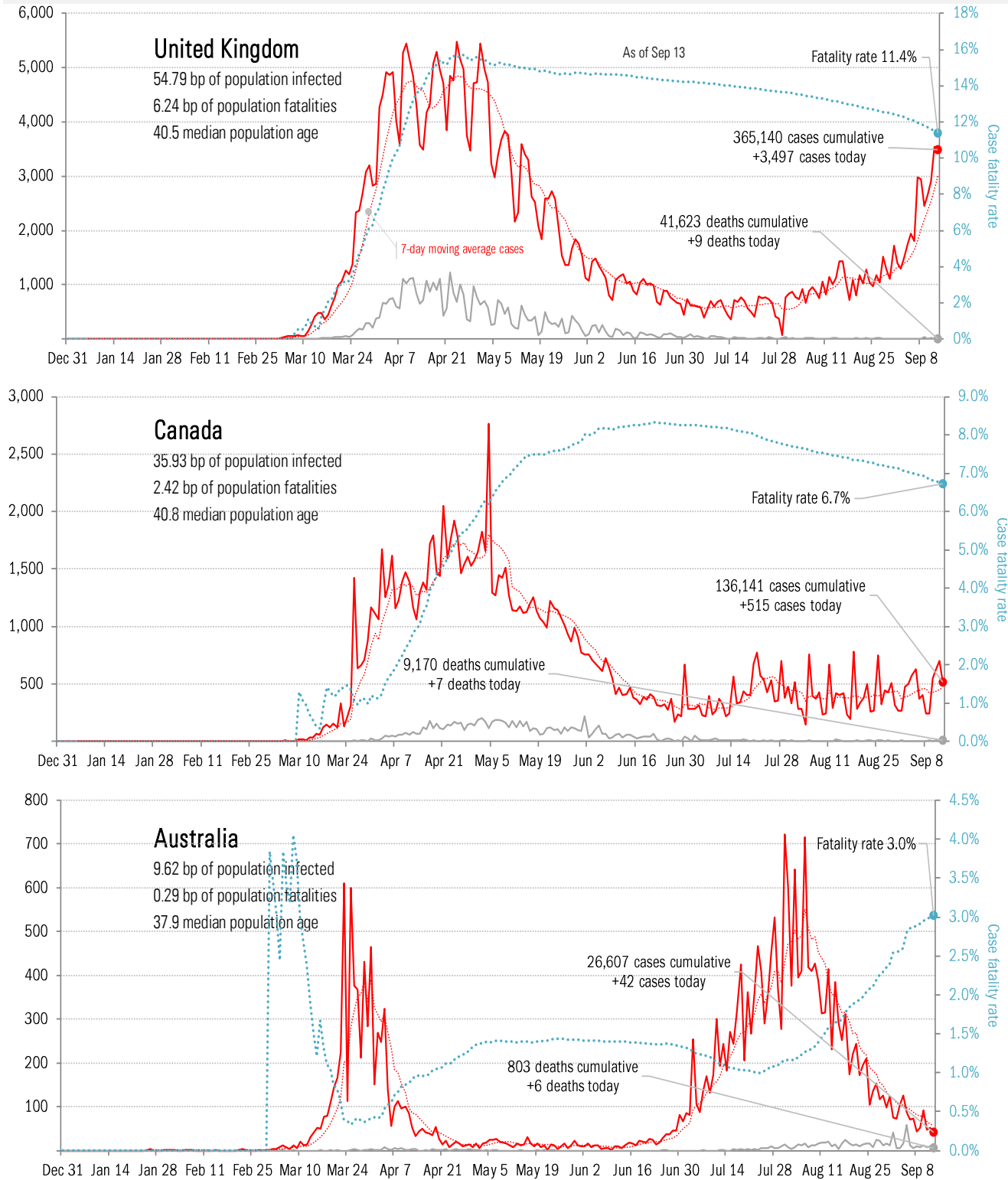
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



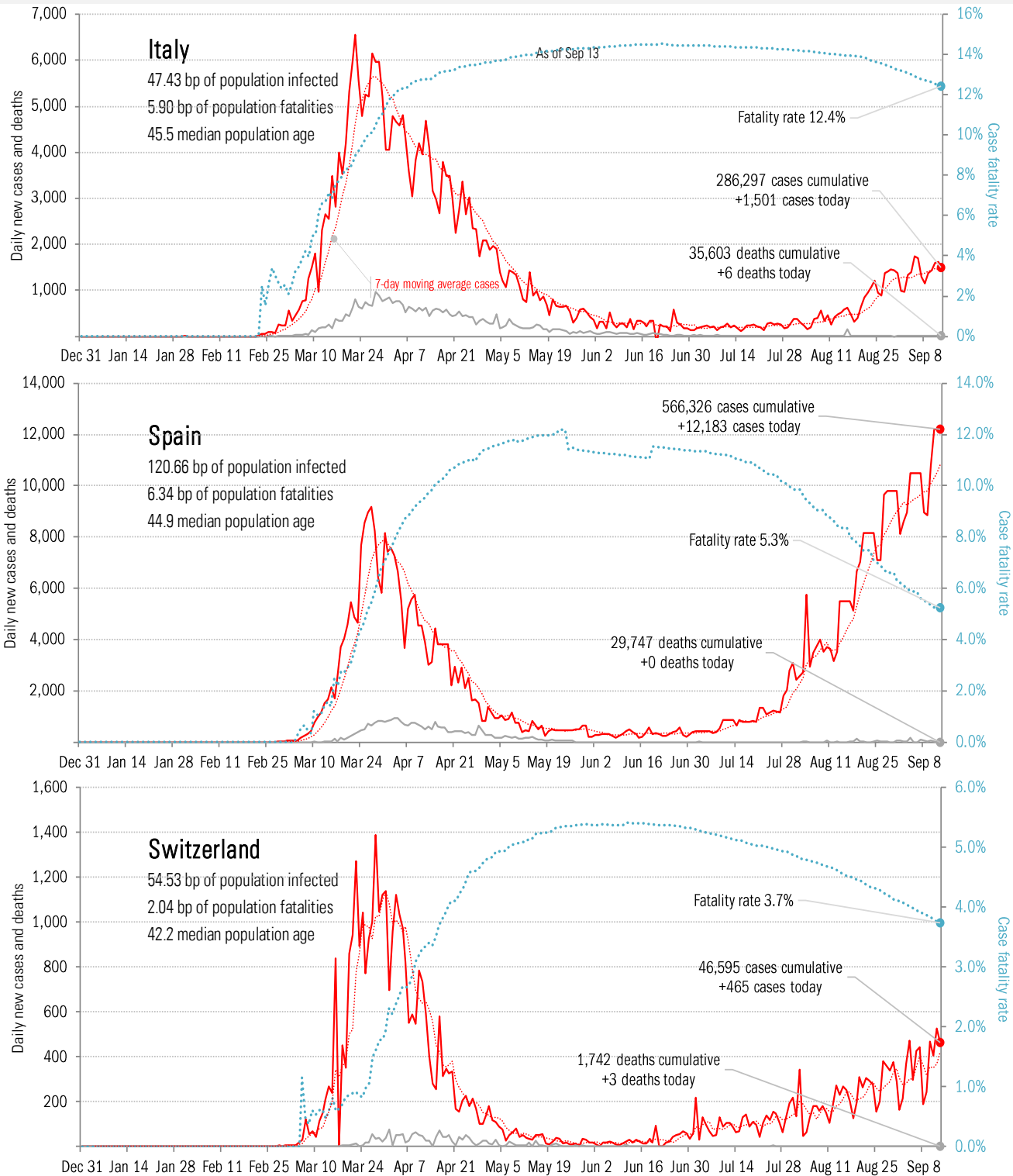
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



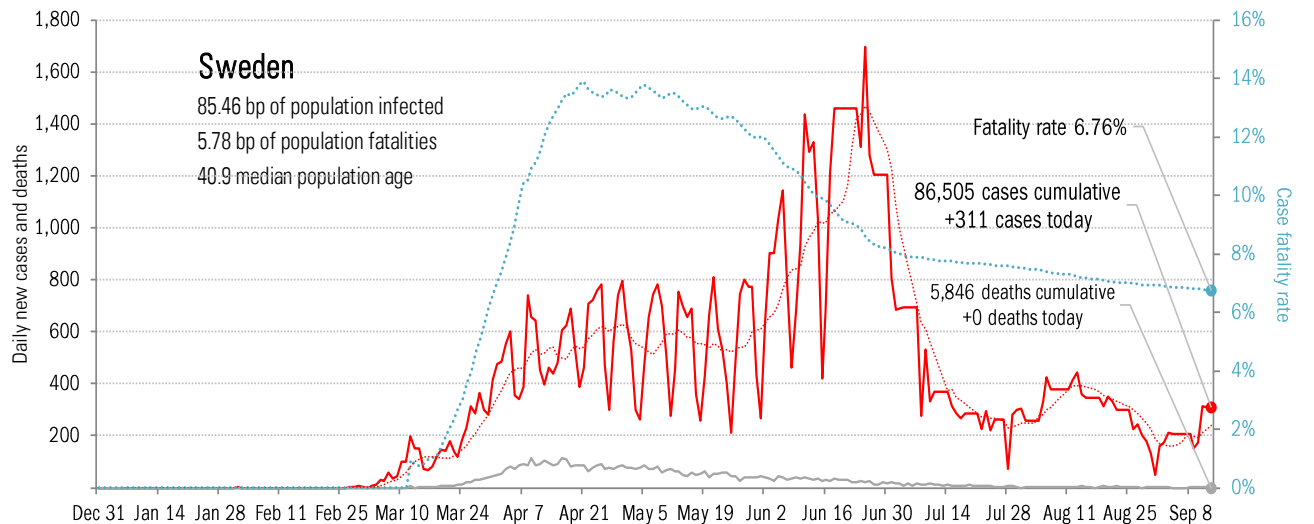
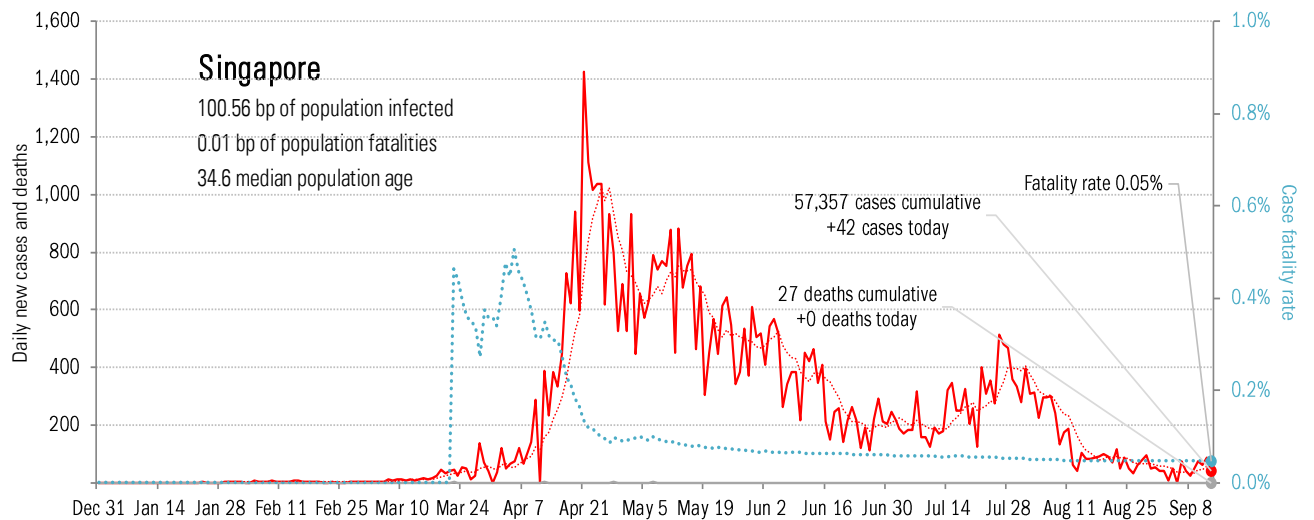
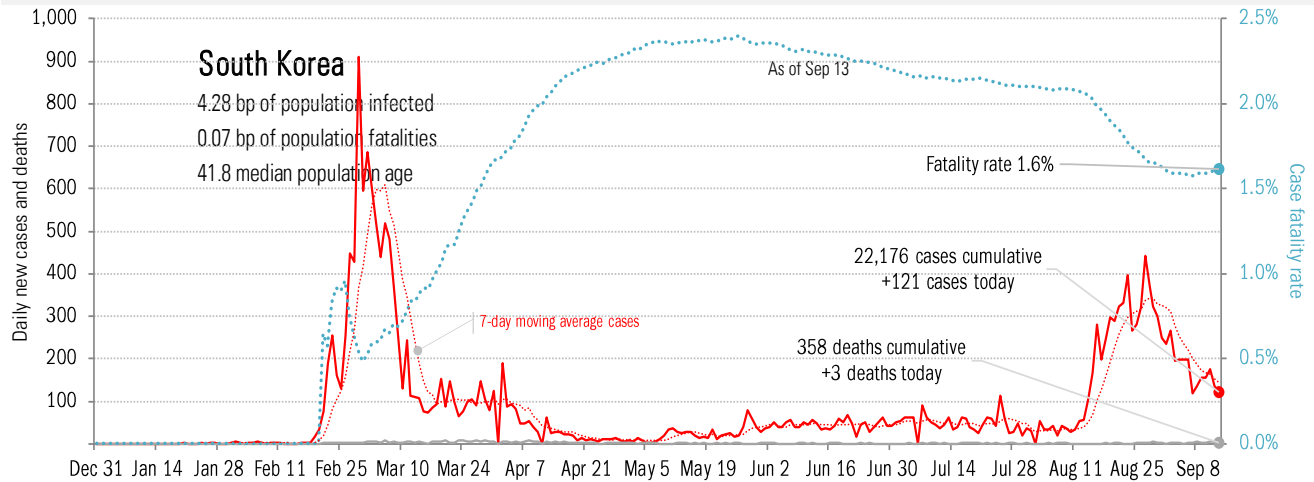
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



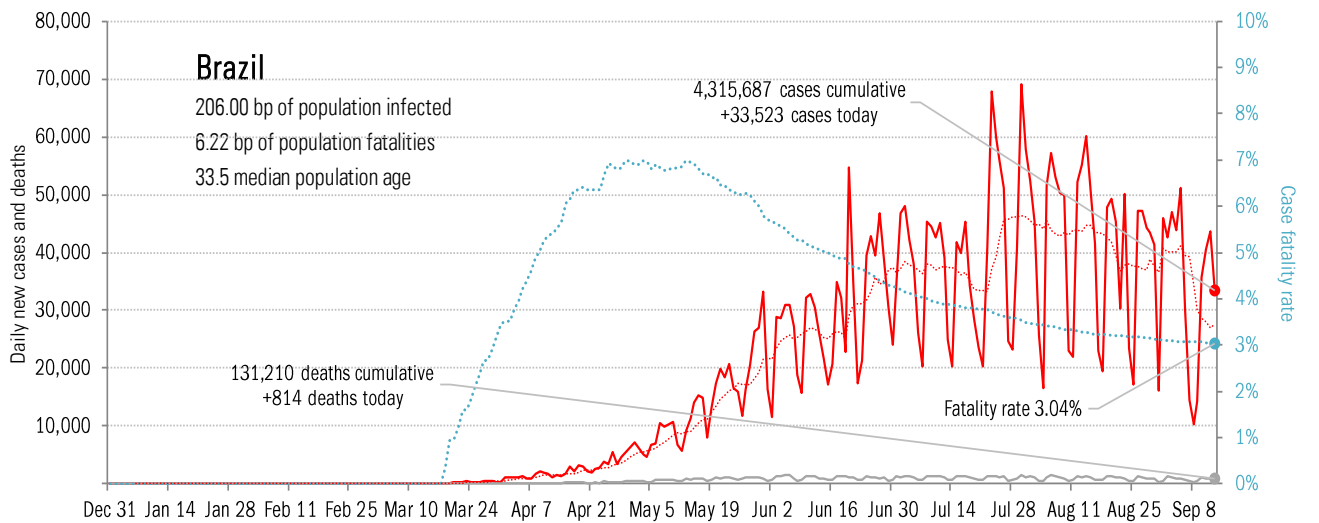
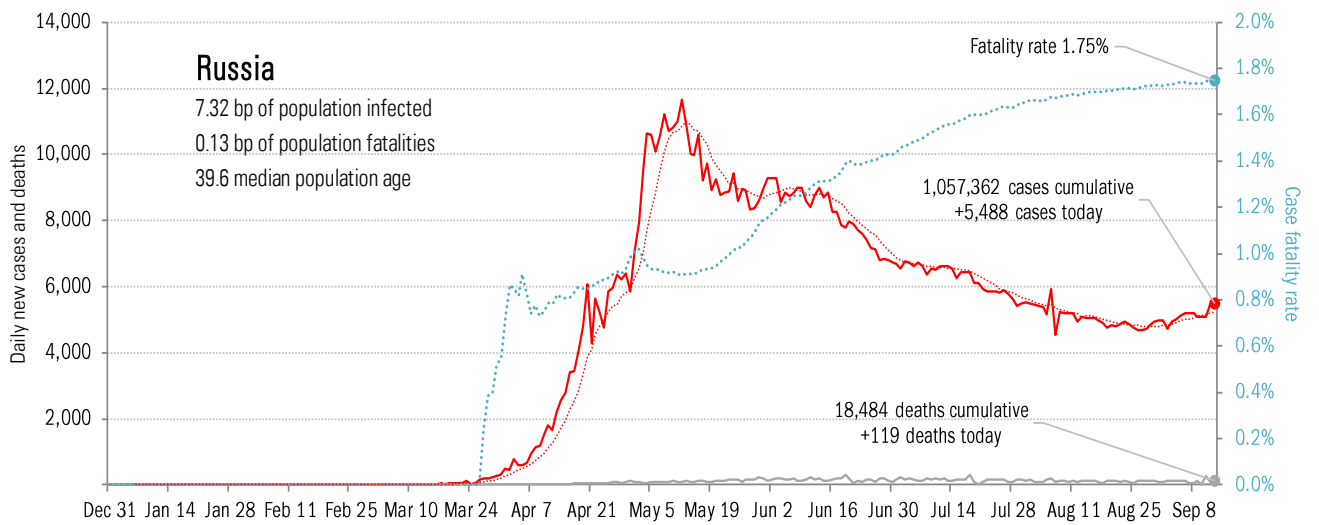
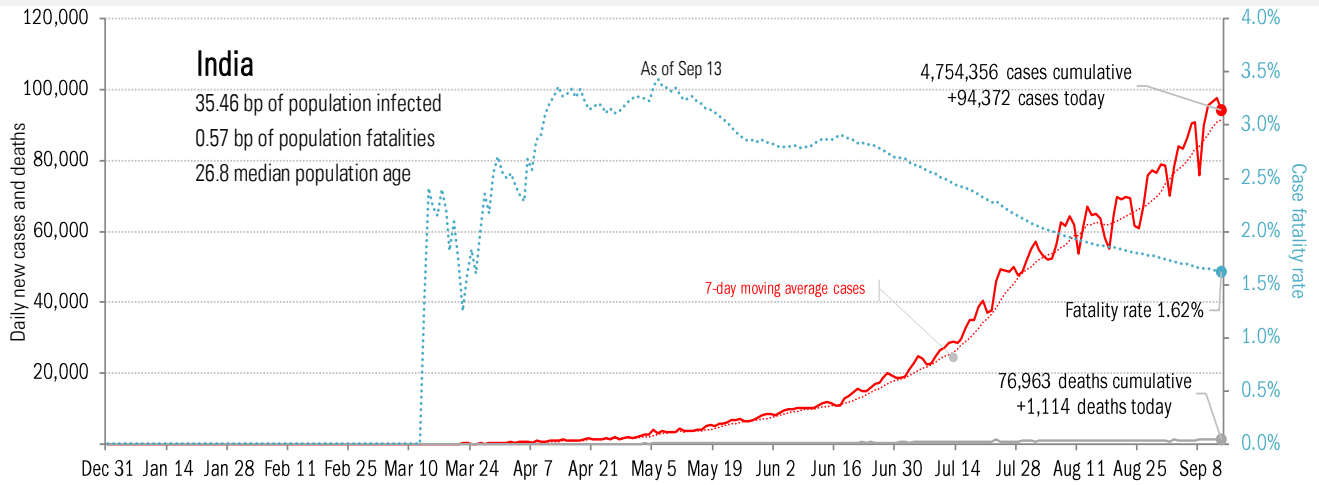
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



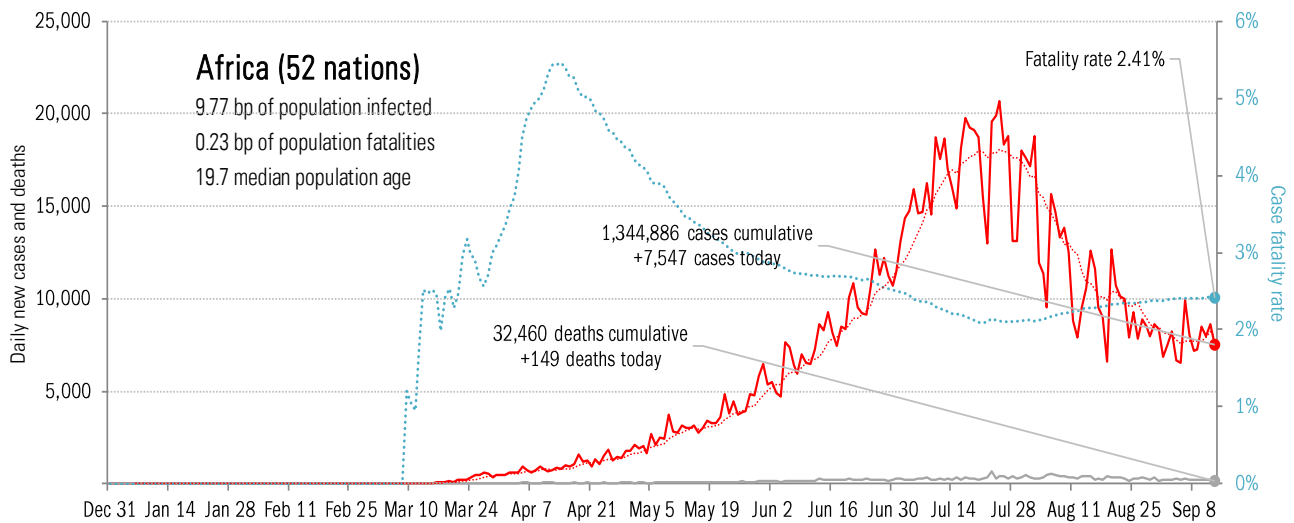
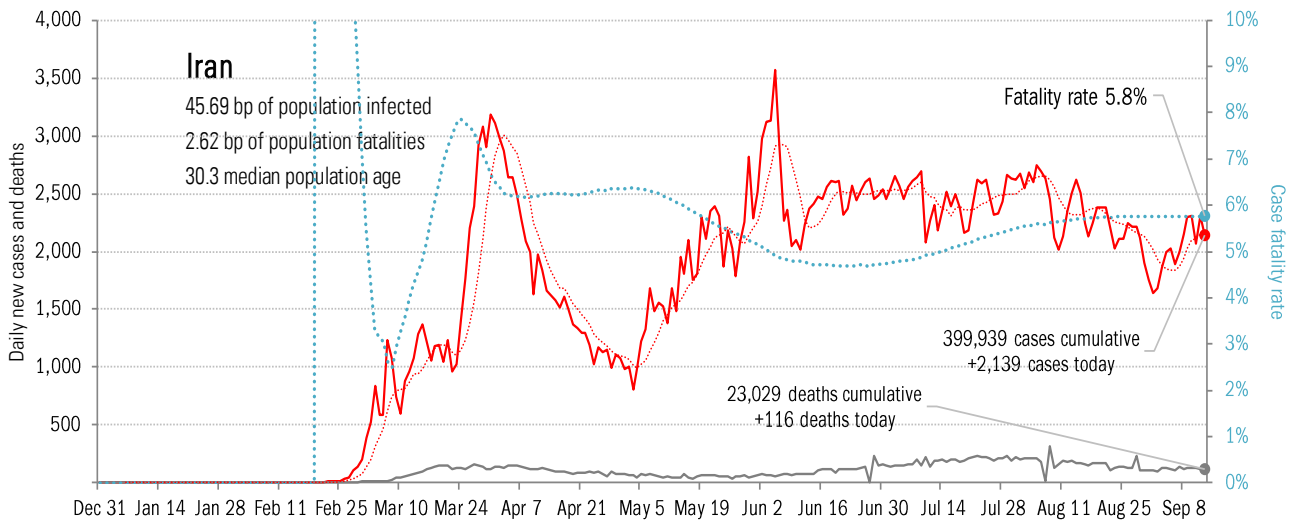
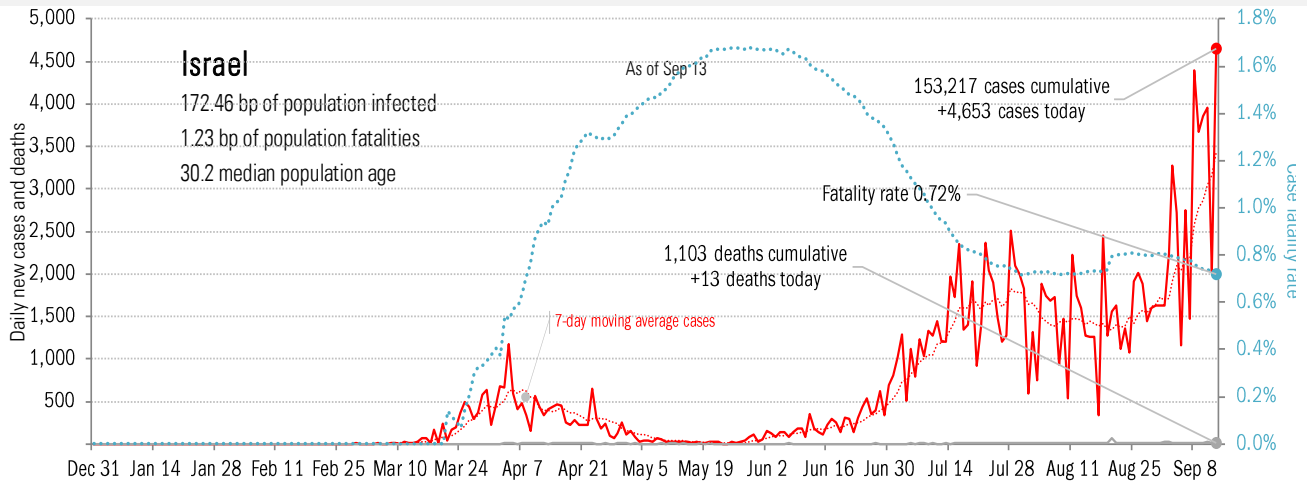
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations