

Data Insights: Covid-2019 Monitor

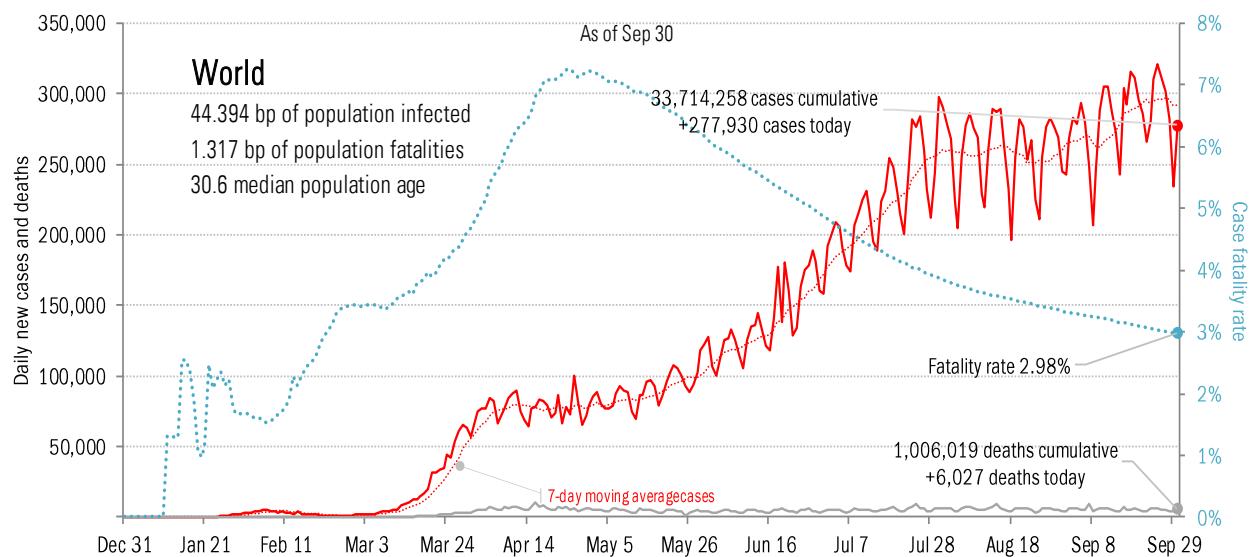
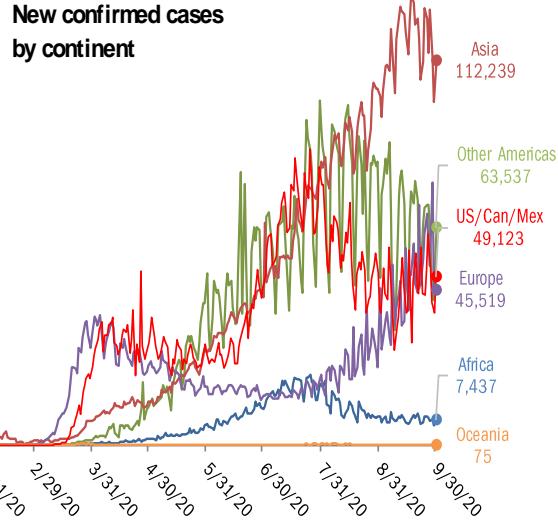
Wednesday, September 30, 2020

The global scorecard

The worst ten countries	
New cases	New Deaths
India + 80,472	India + 1,179
US + 36,947	US + 928
Brazil + 32,058	Brazil + 863
Argentina + 13,477	Mexico + 560
Spain + 9,906	Argentina + 406
Russia + 8,232	Iran + 207
France + 8,051	Colombia + 187
UK + 7,143	Russia + 160
Colombia + 5,839	Indonesia + 128
Iraq + 4,724	France + 85
+ 206,849	

World + 277,930
Top ten 74%

World + 6,027
Top ten 78%



Source: [ECDC](#), TrendMacro calculations

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The US scorecard

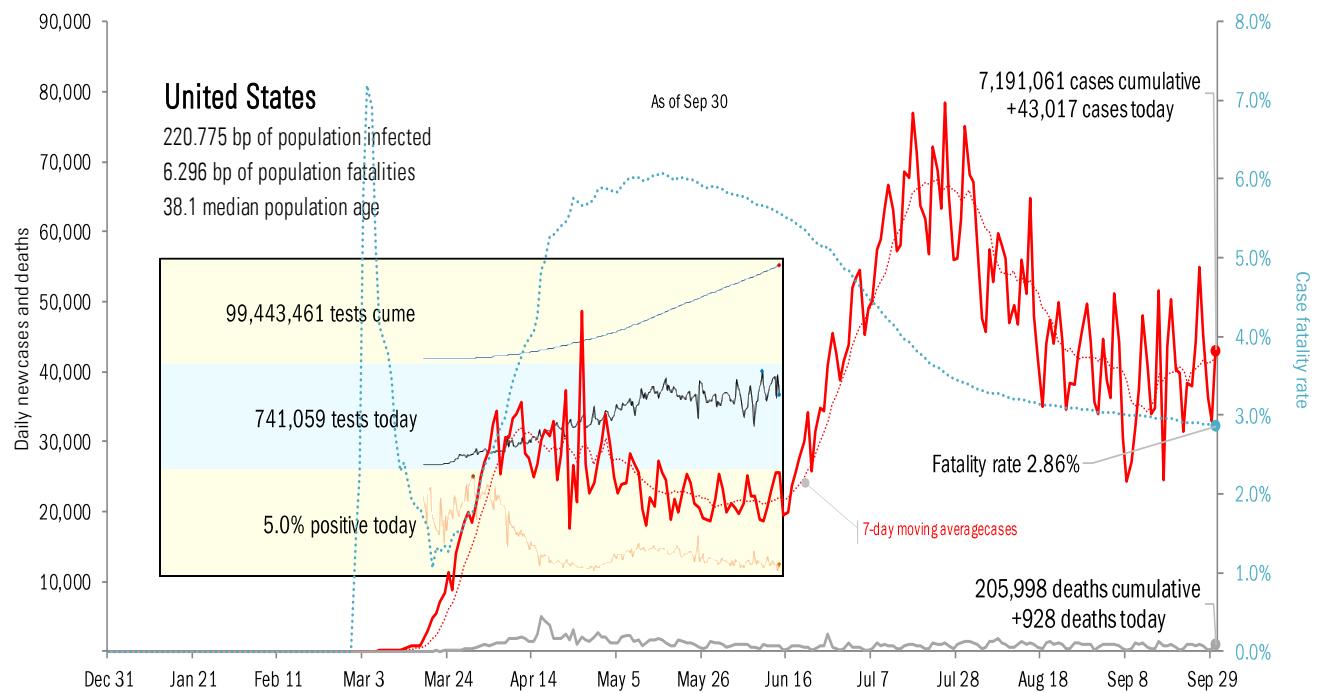
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases	New Deaths	New in hospital	Cumulative cases	Cumulative deaths	Cumulative in hospital
TX +3,541	FL +106	FL +252	CA 807,425	NY 25,470	NY 89,995
FL +3,266	TX +71	VA +161	TX 743,284	NJ 16,117	FL 44,355
WI +2,447	NC +49	GA +142	FL 704,568	CA 15,640	CA 28,339
CA +2,162	OH +37	AR +106	NY 457,649	TX 15,604	NJ 23,379
IL +1,362	MS +36	OH +106	GA 316,306	FL 14,313	AZ 22,047
NY +1,189	GA +33	IN +104	IL 293,490	MA 9,423	VA 18,534
SC +1,179	CA +32	OK +93	AZ 218,184	IL 8,881	AL 17,182
MI +1,118	TN +31	AL +91	NC 209,137	PA 8,123	MD 15,460
OH +1,105	IL +23	MN +87	NJ 204,563	MI 7,072	CH 15,413
PR +1,045	MO +22	WI +67	TN 194,611	GA 6,994	IN 12,758
+ 18,414	+ 440	+ 1,209	4,149,217	127,637	287,462
All states	+ 36,947	All states	+ 739	All states	All states
Top ten	50%	Top ten	60%	Top ten	Top ten
			70%	58%	65%
				197,868	407,059
				Top ten	Top ten
				71%	

Five most improved US states

Fewer daily cases	Fewer new deaths	Fewer new hospitalizations	Most recoveries
KS -2,037	ND -13	MS -237	TX +3,631
MO -1,204	NY -10	AL -148	SC +2,706
TX -1,070	KS -5	KS -36	TN +1,915
CA -793	LA -5	OR -22	WI +1,658
OK -659	MA -3	H -11	IA +1,150



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

Recommended reading

[Democrats' New \\$2.2 Trillion COVID Stimulus Includes The Word 'Cannabis' 68 Times — Mentioned More Than Jobs](#)

Henry Rodgers
Daily Caller
September 29, 2020

[Schools reopen, no surge](#)

Joanne Jacobs
Linking and Thinking on Education
September 29, 2020

[Educating Dr. Fauci On Herd Immunity And Covid-19: Completing What Rand Paul Began](#)

Andrew Boston
Dr. Andrew Boston
September 28, 2020

[Covid Doctors Find a Turning Point in Life-Threatening Cases](#)

Jason Gale
Bloomberg
September 24, 2020

[Governor DeSantis' roundtable experts advocate for "normal" life for young people](#)

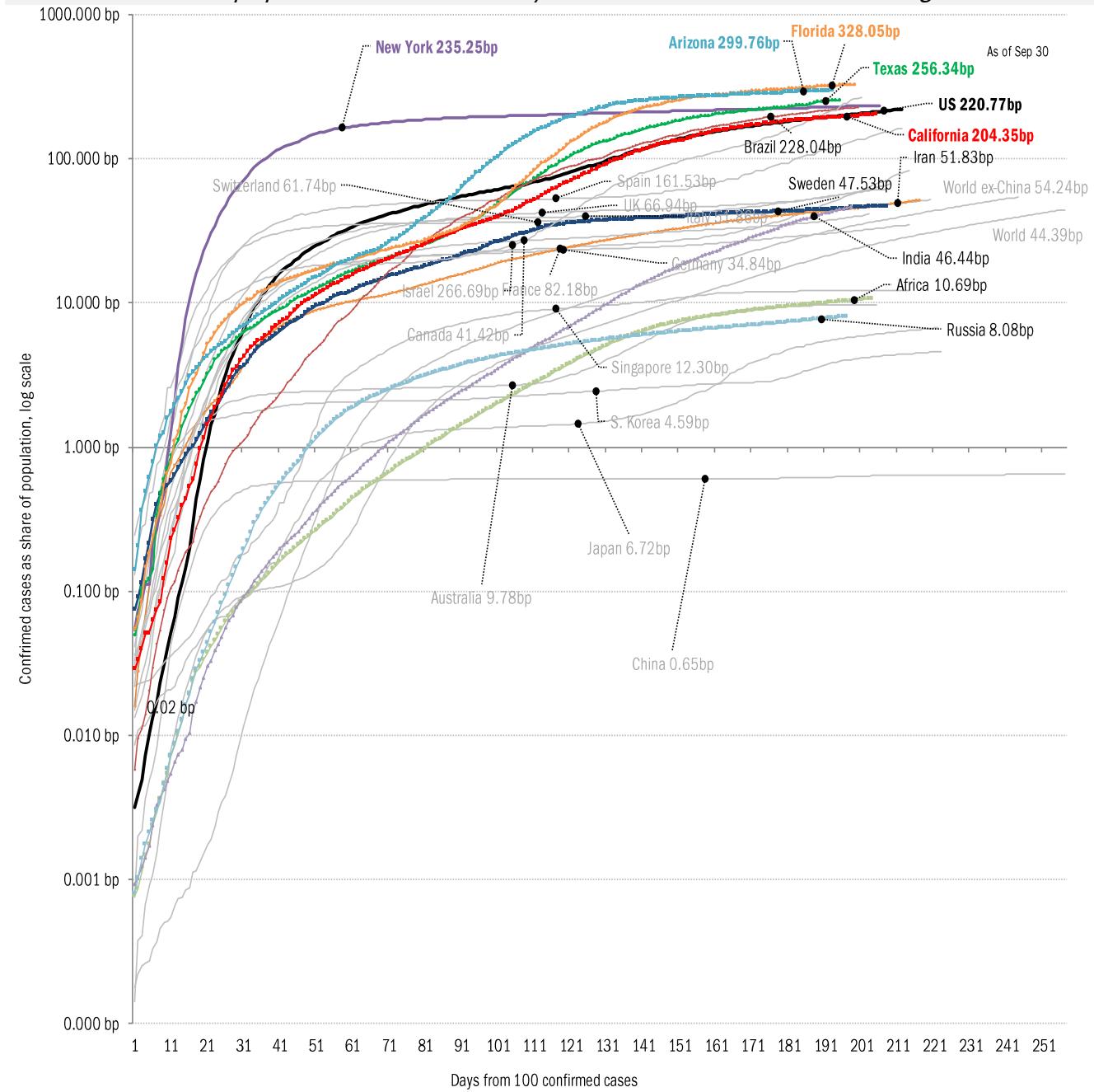
Rational Ground
September 28, 2020

Meme of day



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

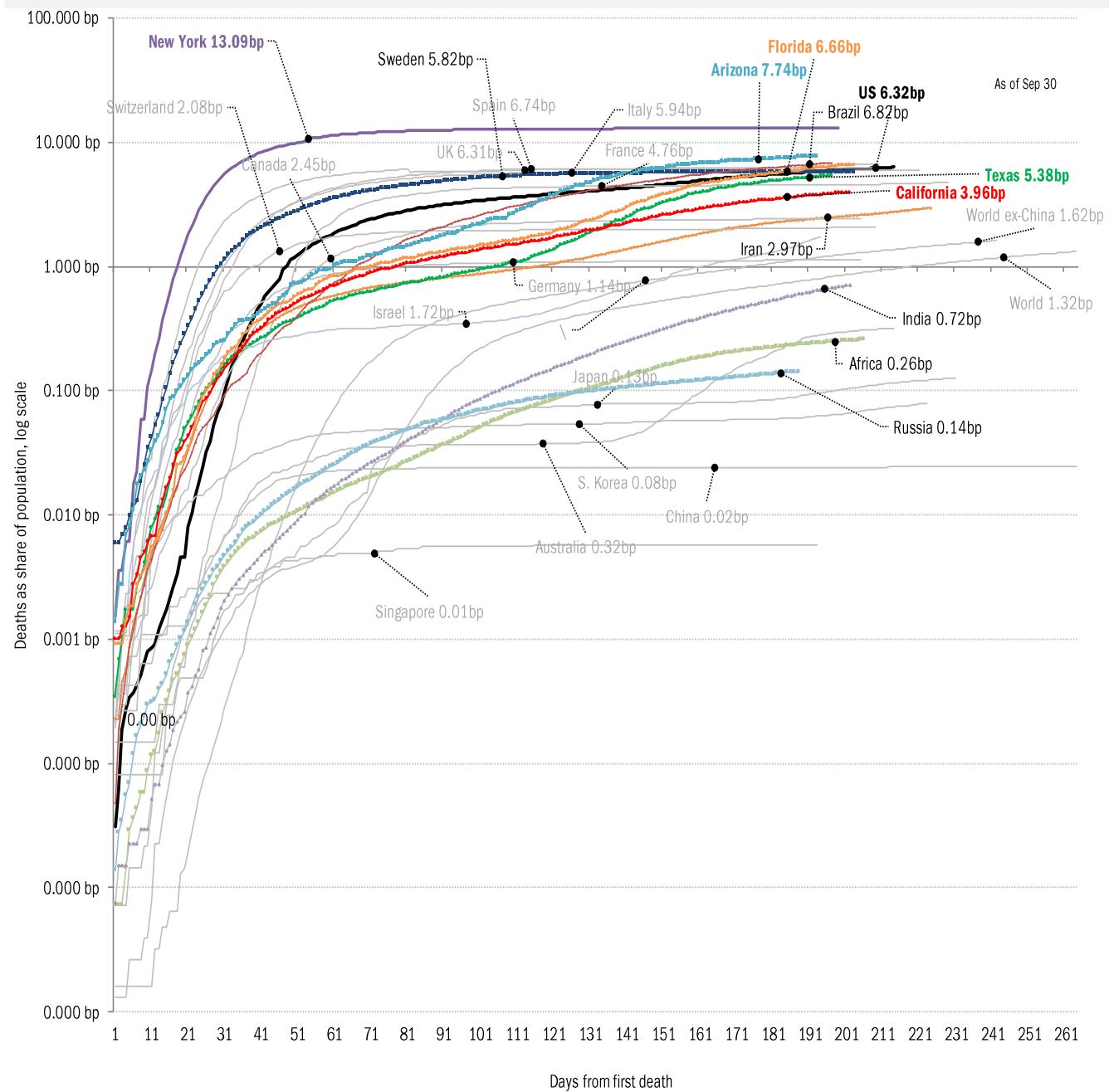
The coronavirus case accelerometer... tracking the world's infection curves
Share of infected population from first day with 100 confirmed cases, log scale



Source: [ECDC](#), TrendMacro calculations

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

Share of deceased population from day of first fatality

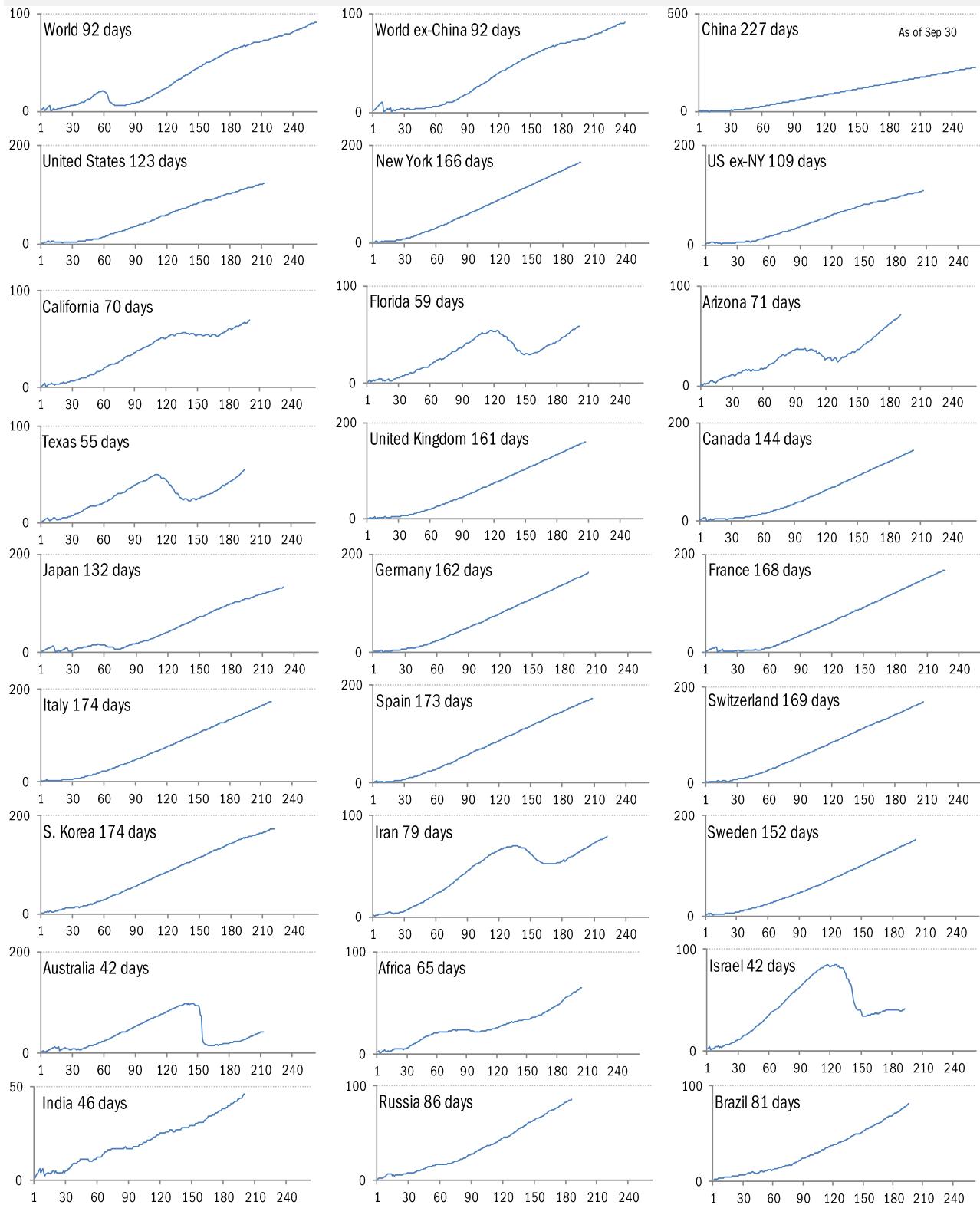


Source: [ECDC](#), TrendMacro calculations

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

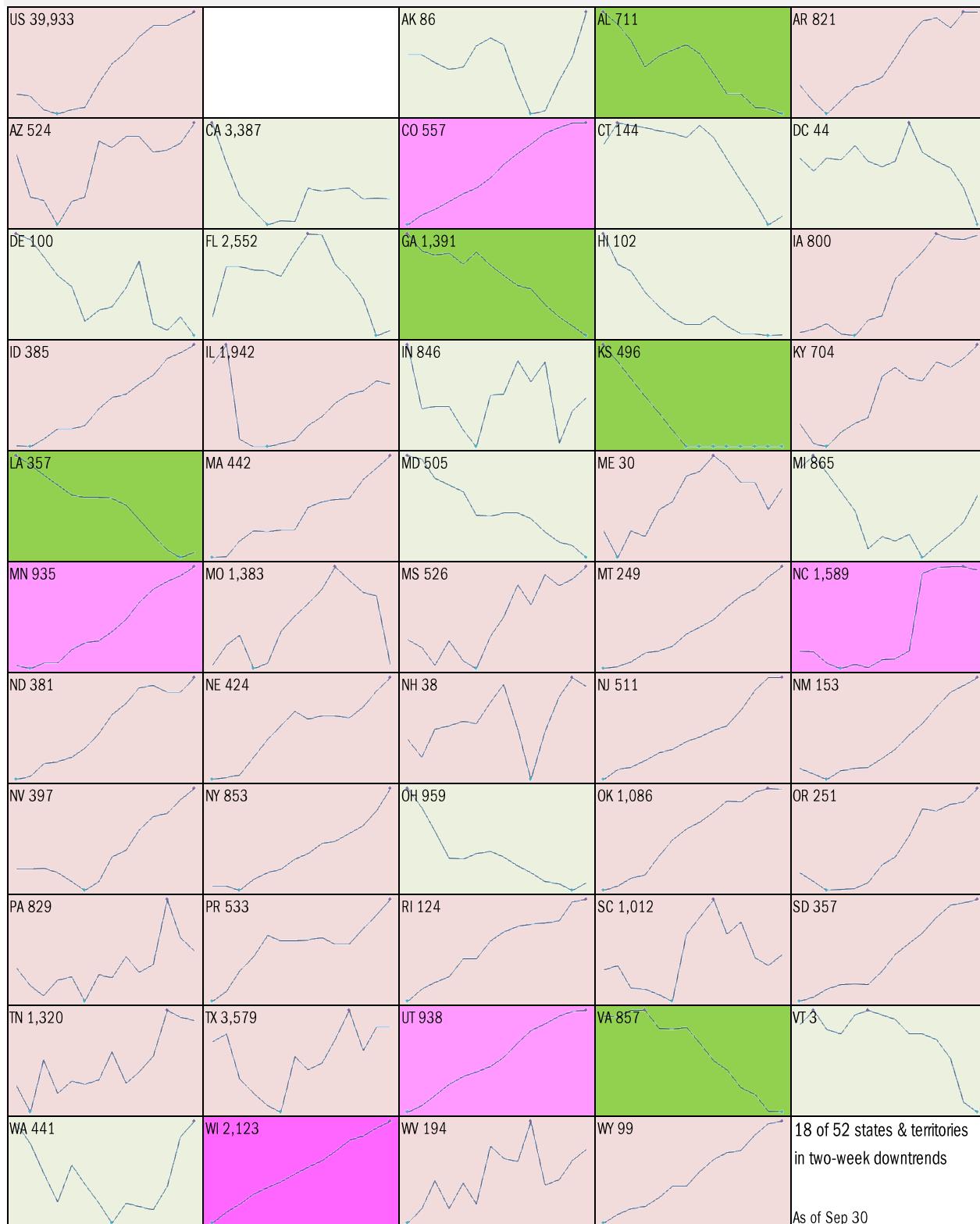


Source: [ECDC](#), TrendMacro calculations

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

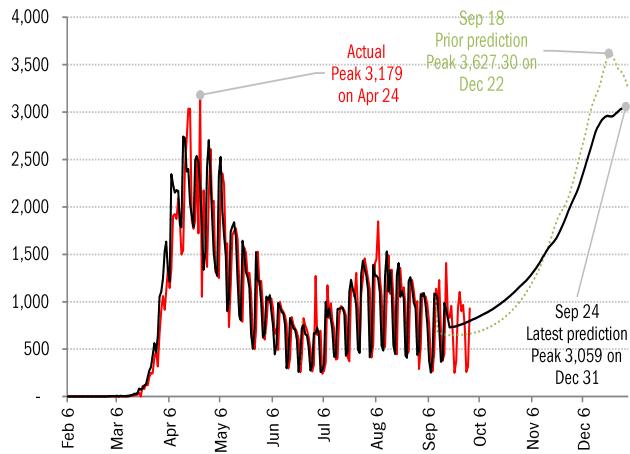


Source: [Covid Tracking Project](#), TrendMacro calculations

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

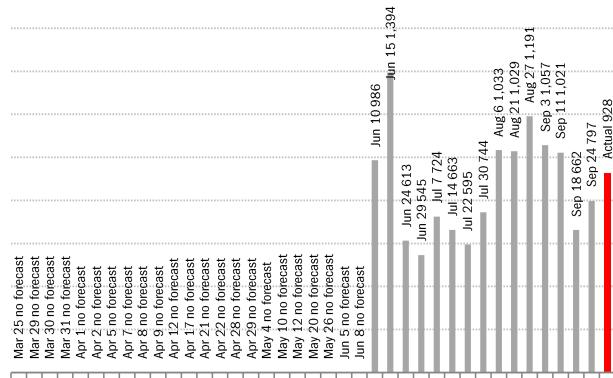
New daily fatalities

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



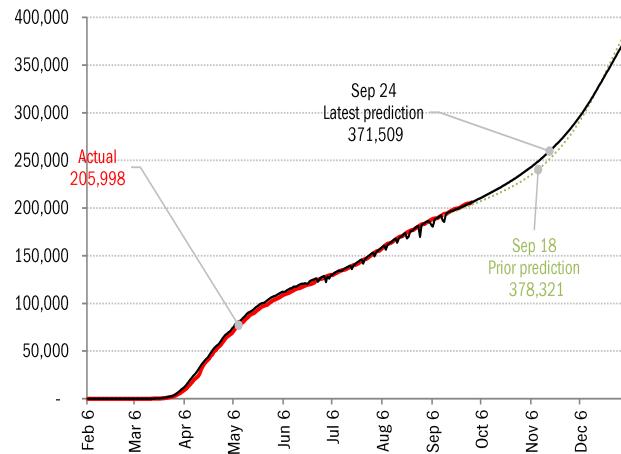
As of Sep 30

For this day, versus all model mean predictions

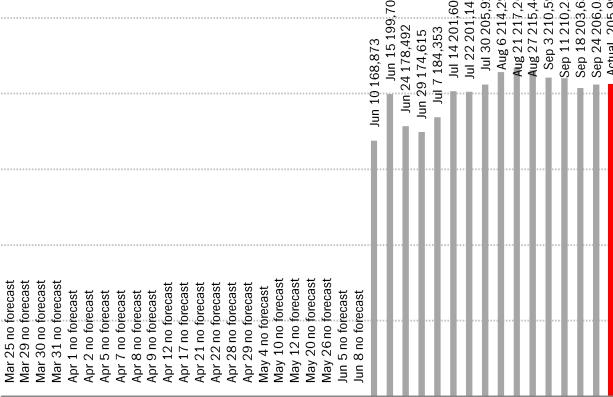


Cumulative fatalities

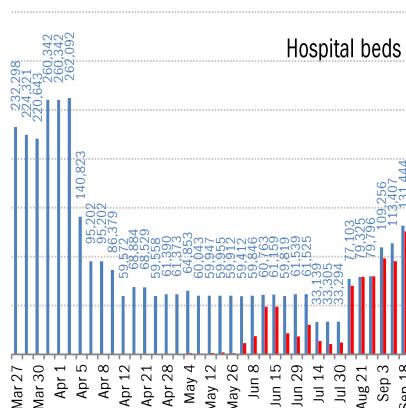
Actual versus first, highest, lowest and latest model mean predictions



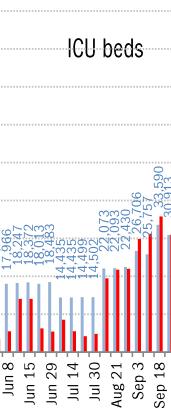
For this day, versus all model mean predictions



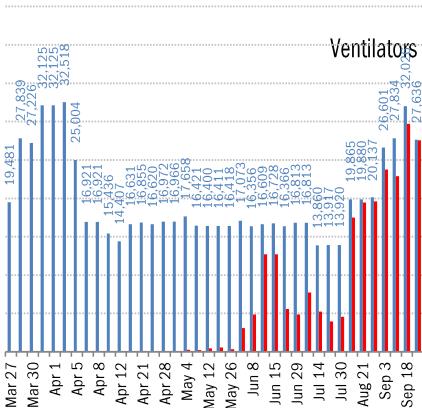
Healthcare system stress, peak and ultimate estimated at each model revision



ICU beds

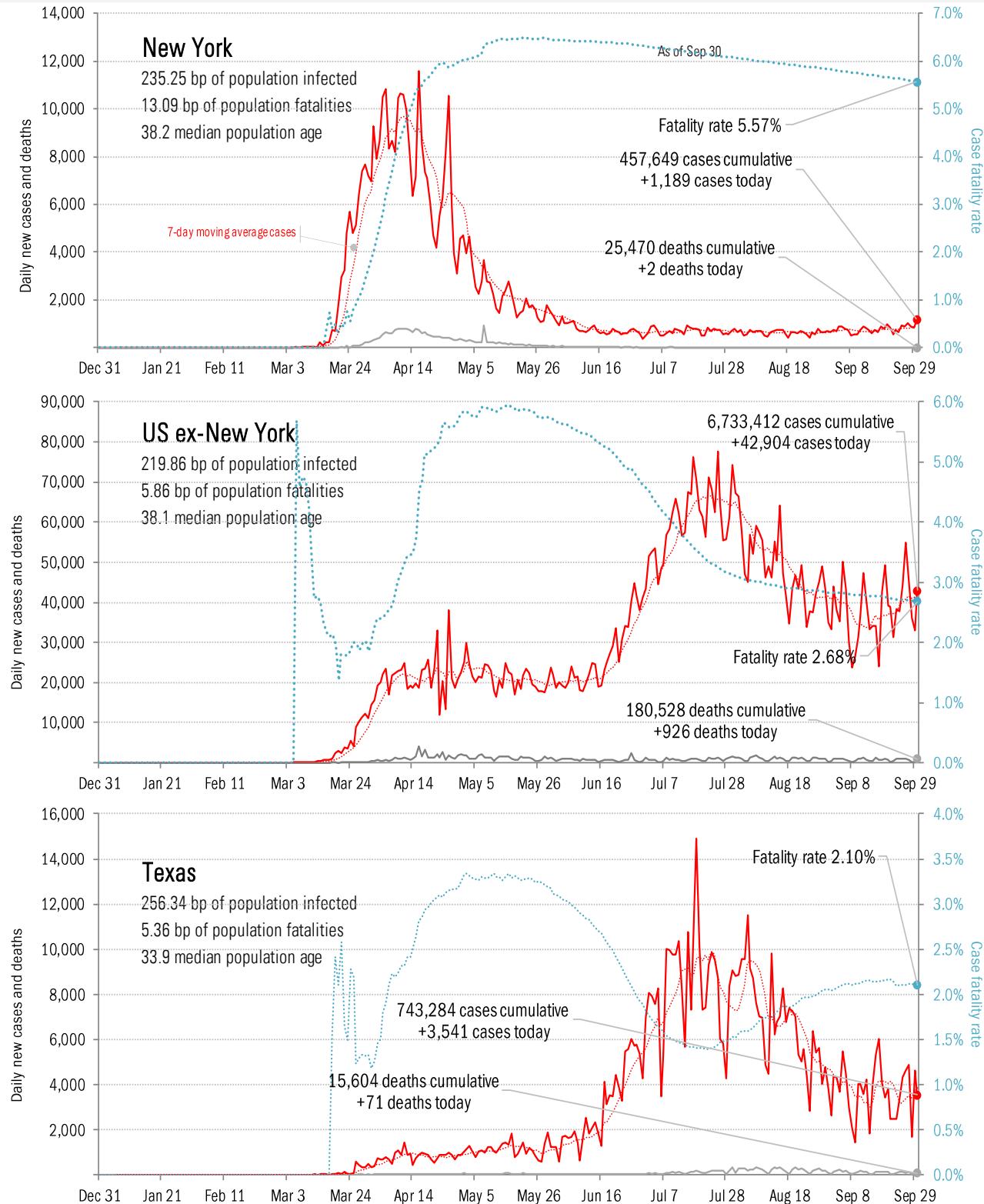


Ventilators



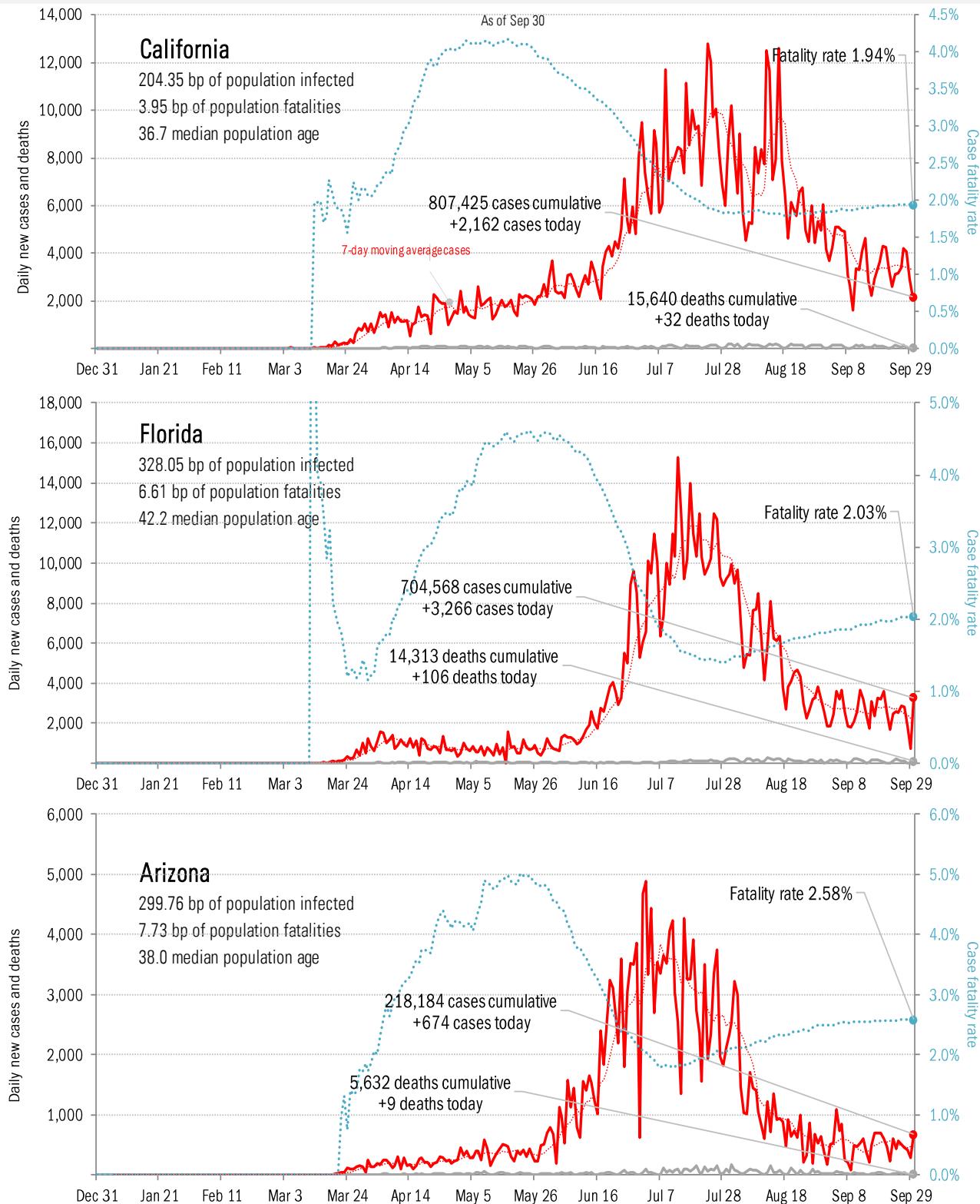
Source: [ECDC](#), [IHME](#), TrendMacro calculations

From Ground Zero to the Rio Grande



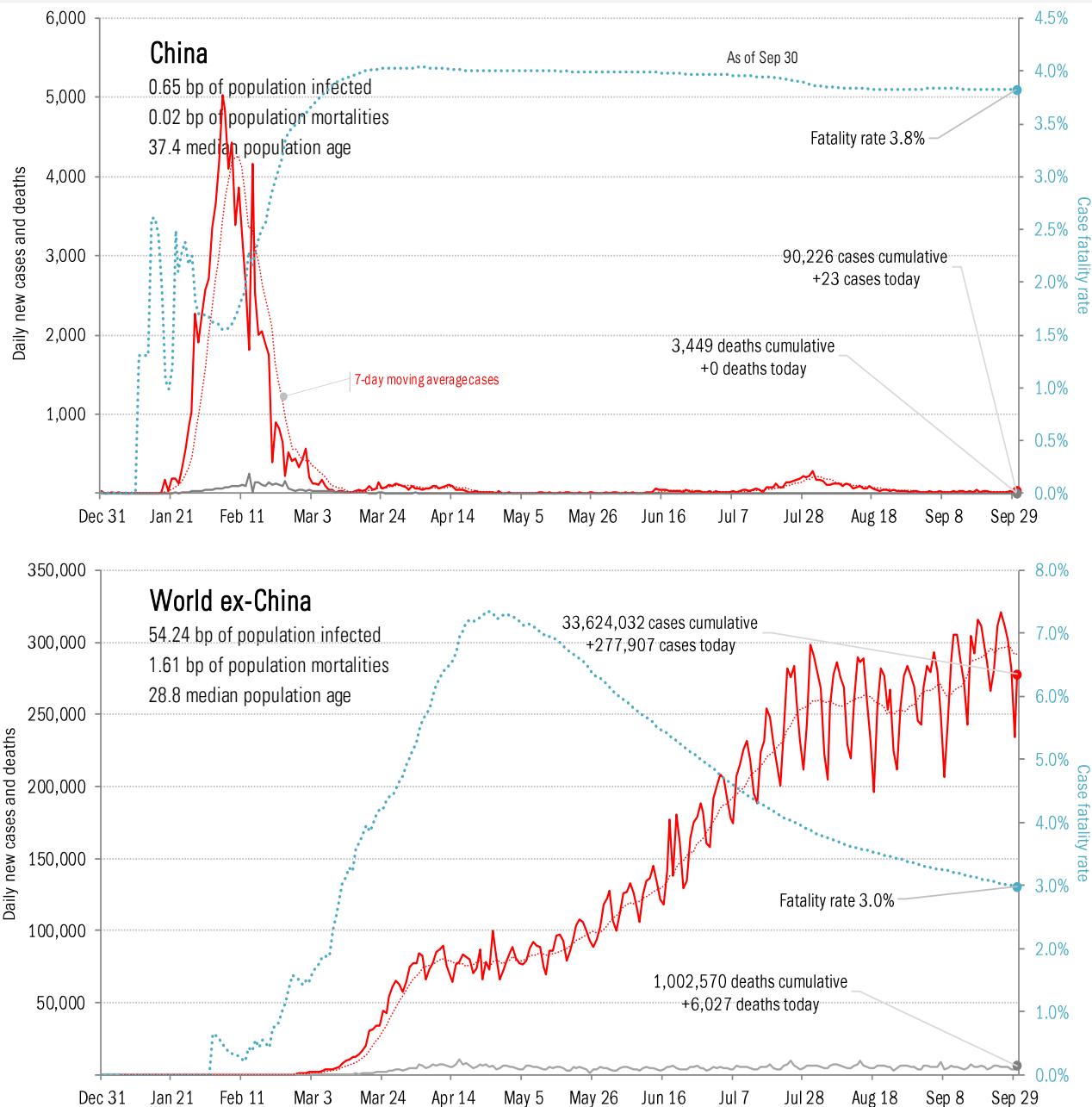
Source: [ECDC](#), TrendMacro calculations

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



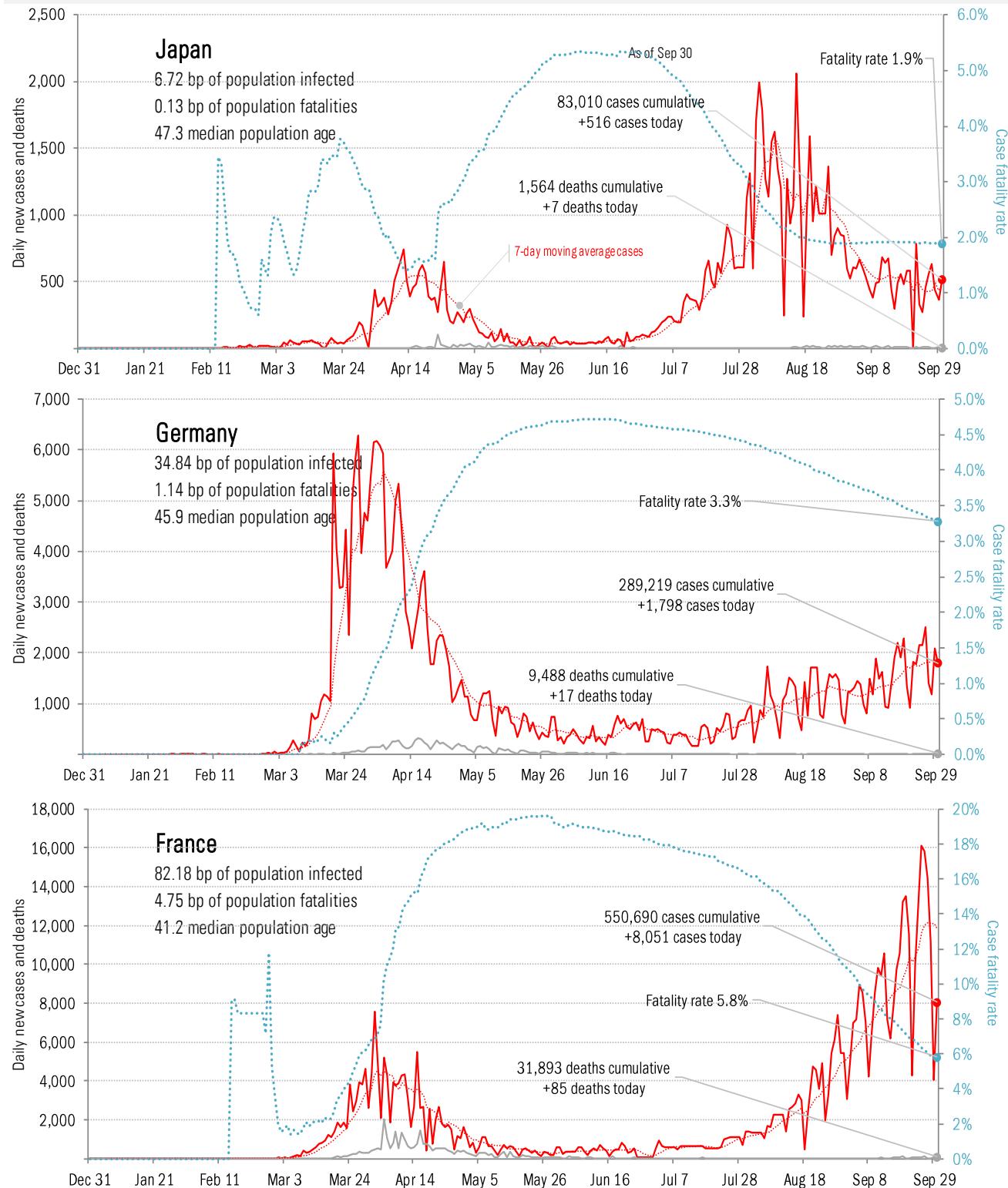
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



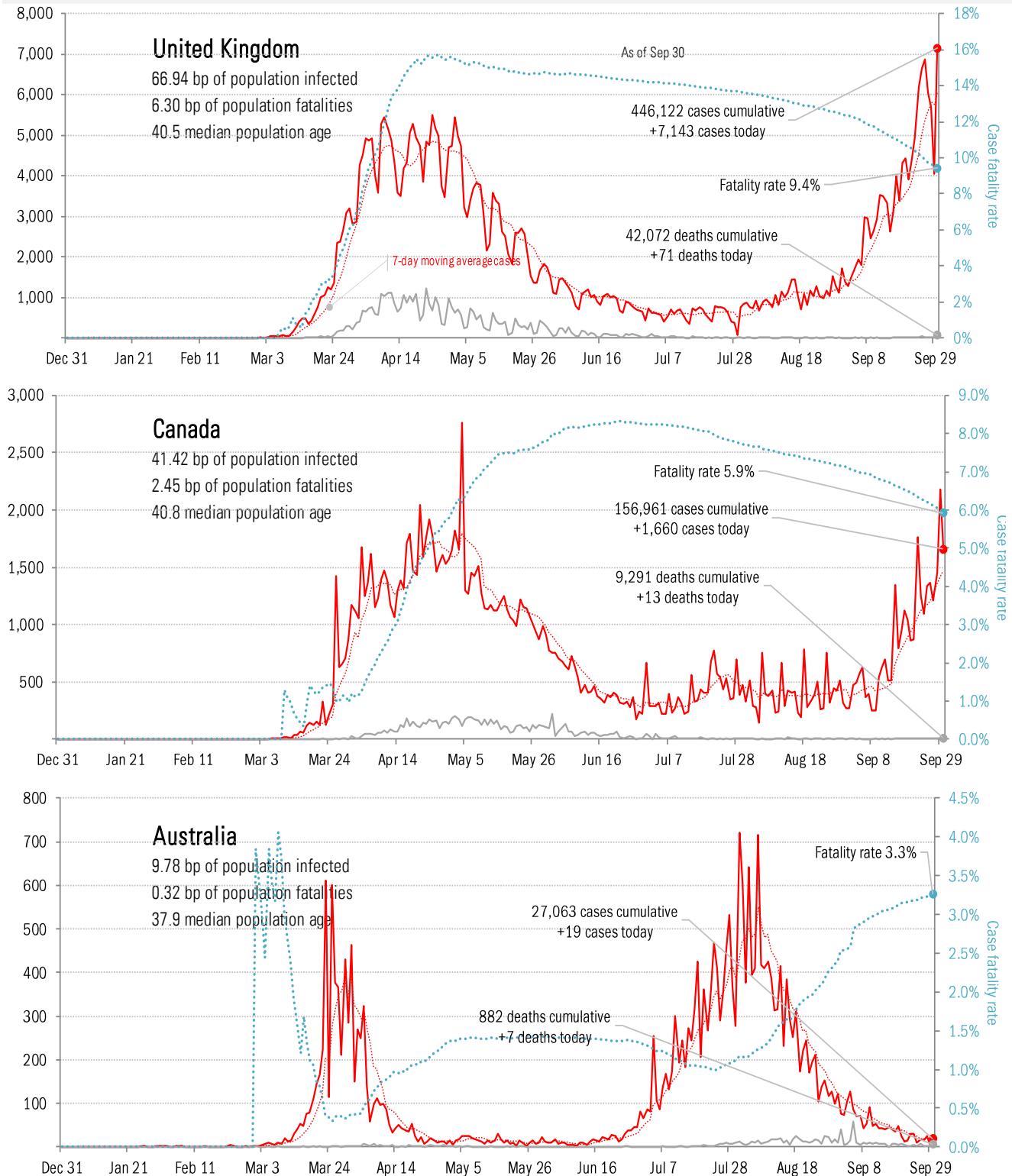
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



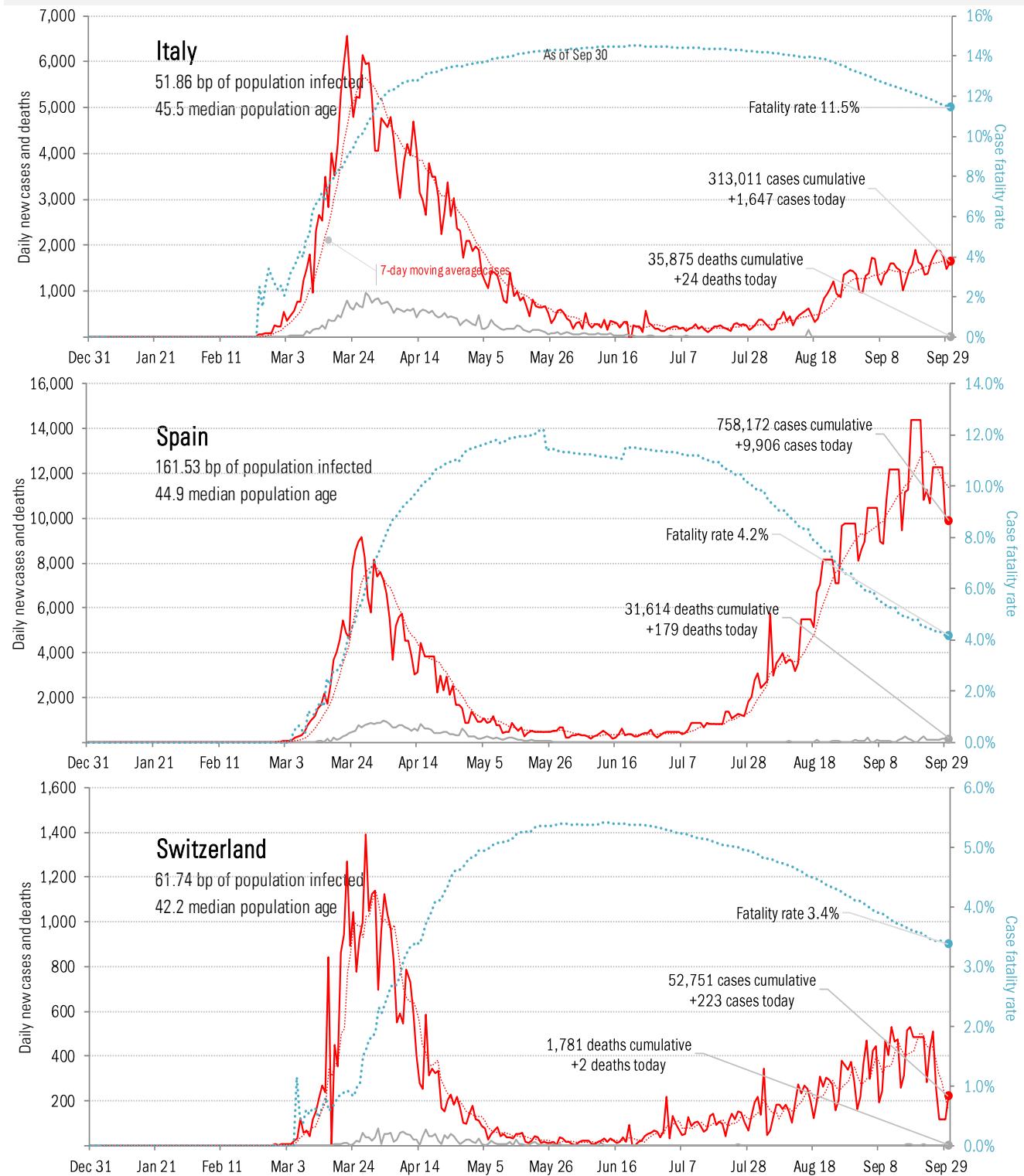
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



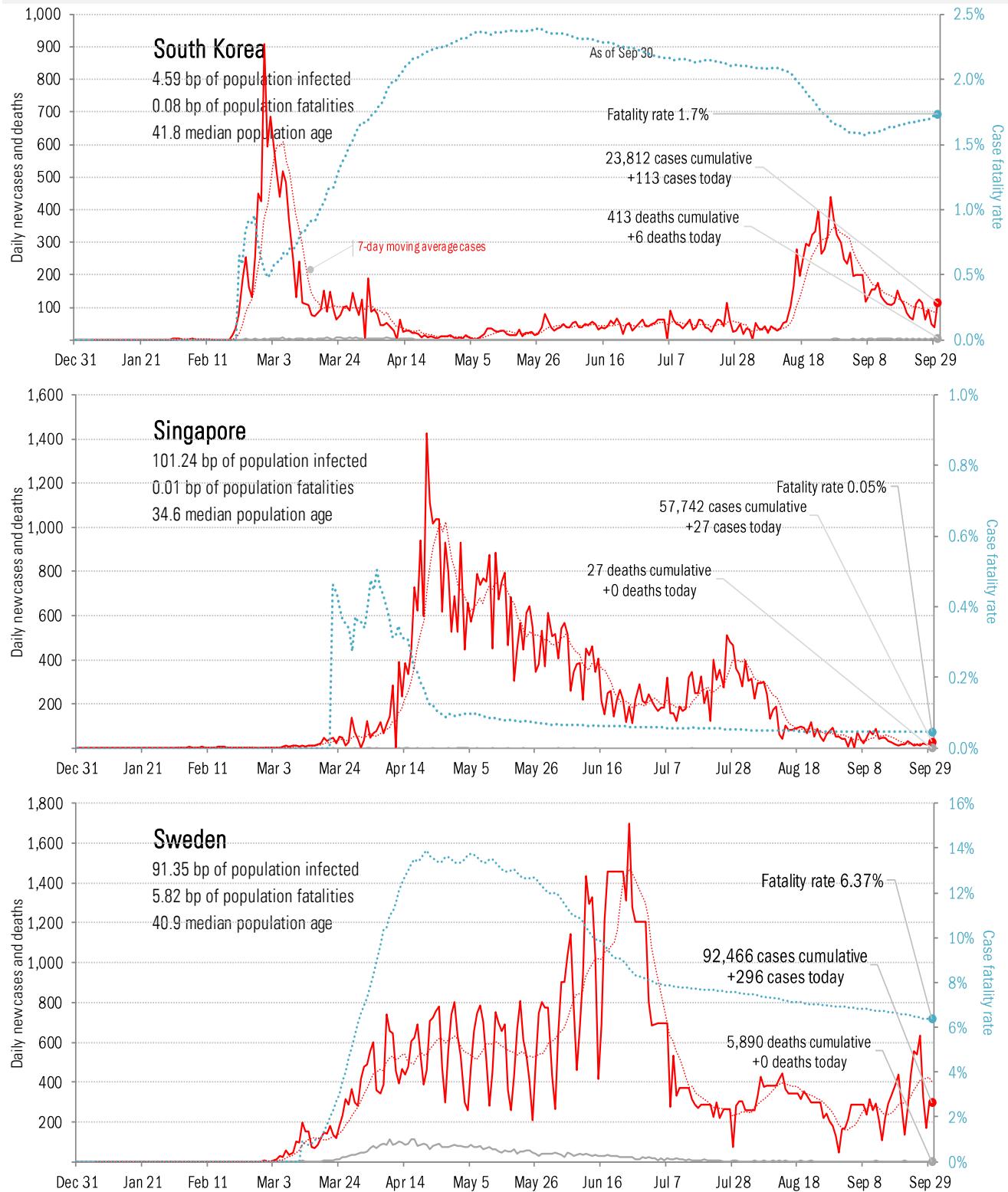
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



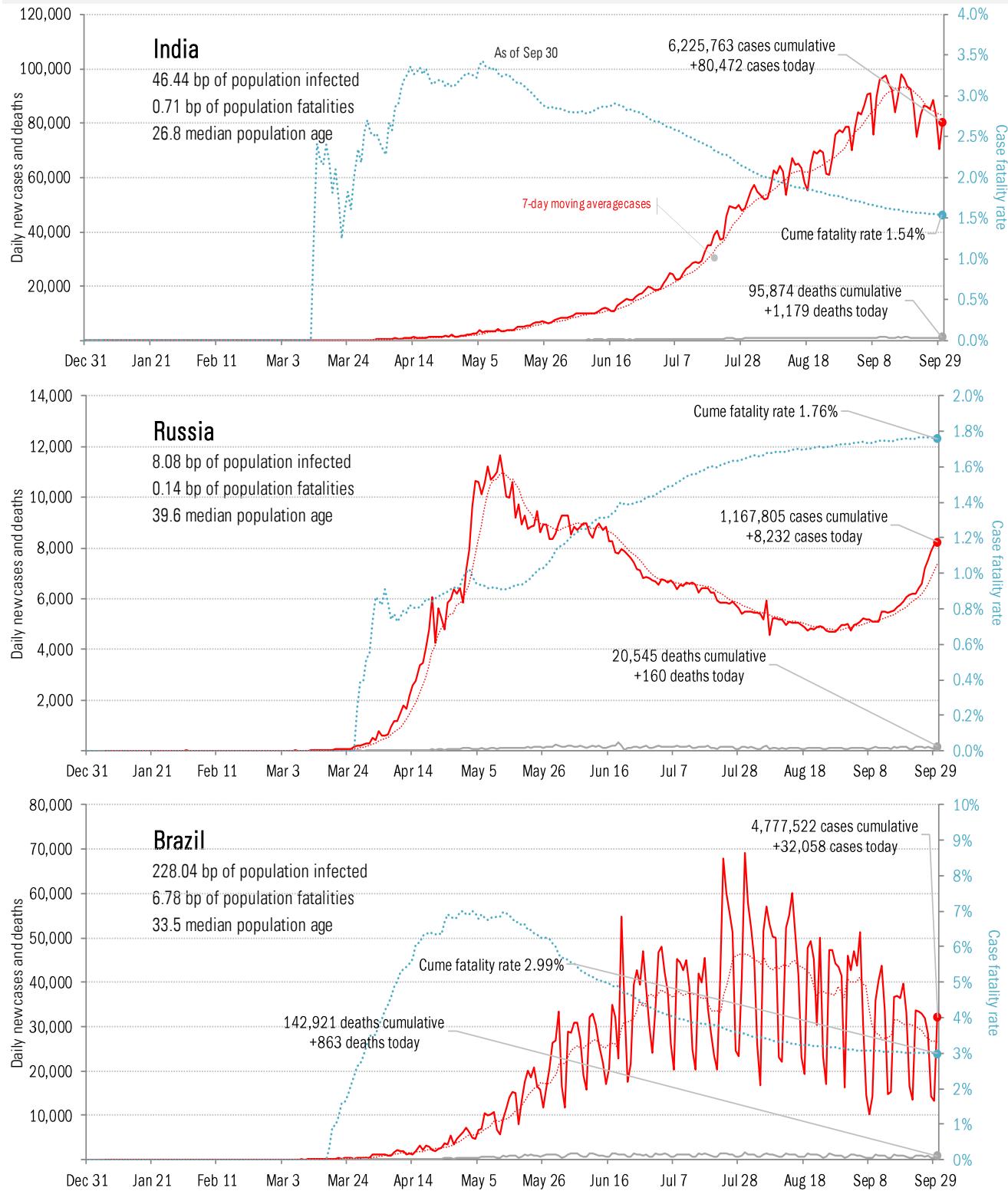
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



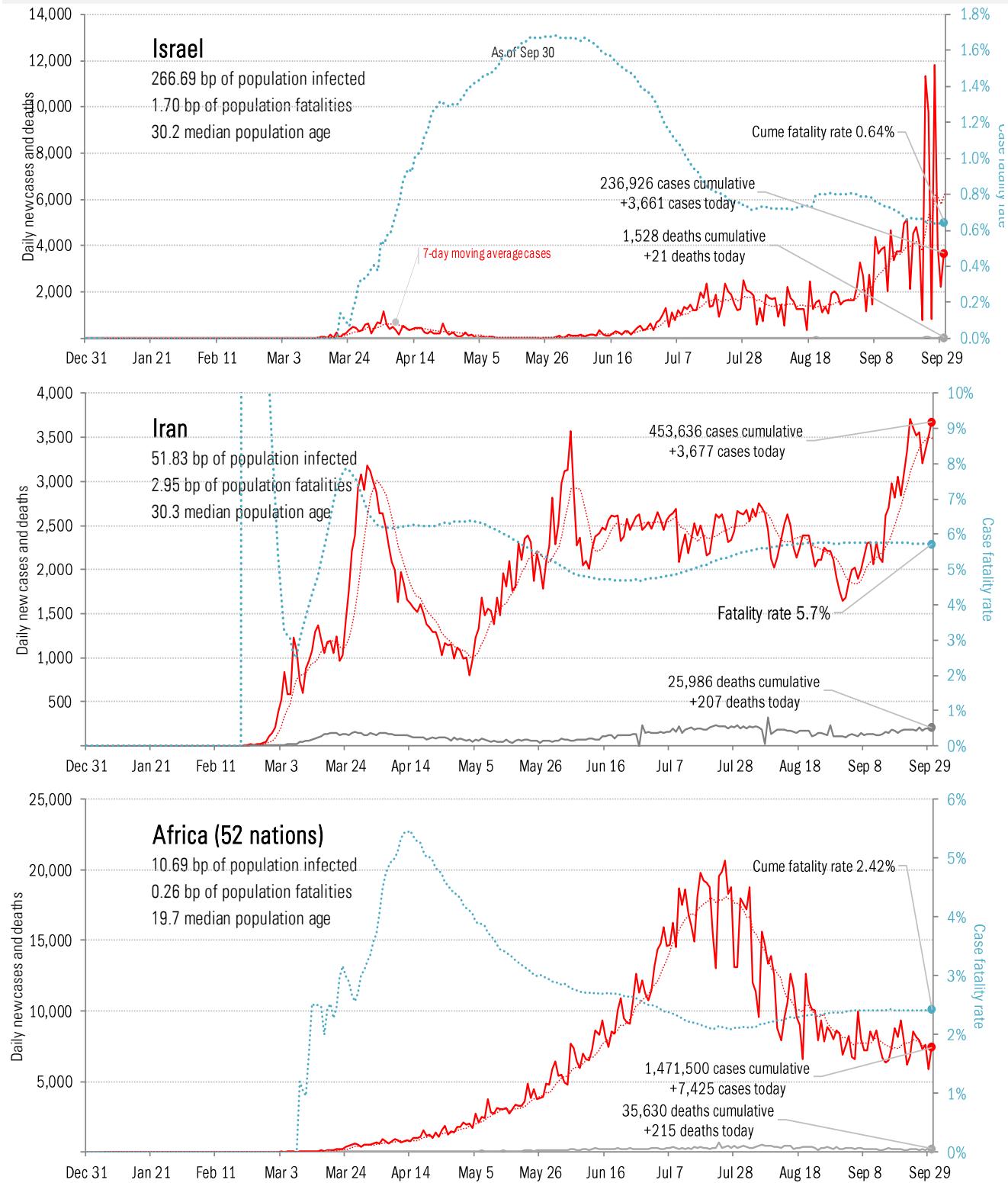
Source: [ECDC](#), TrendMacro calculations

Impact in the BRICs ex-China



Source: [ECDC](#), TrendMacro calculations

Impact in the Middle East and Africa



Source: [ECDC](#), TrendMacro calculations