Trend Macrolytics, LLC
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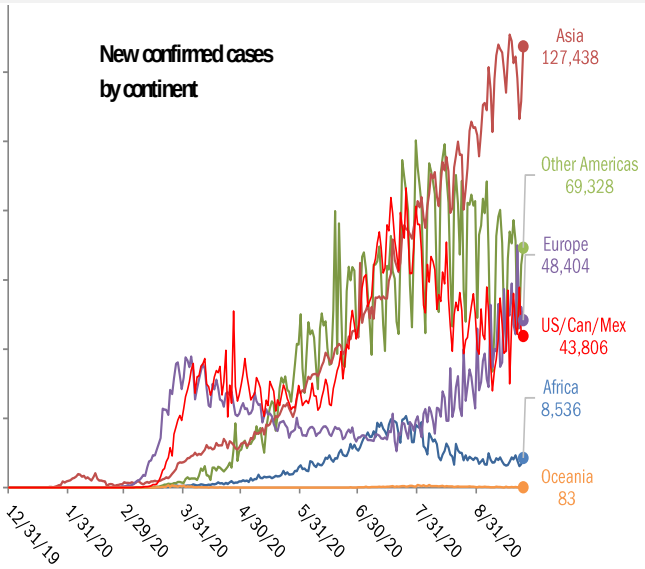
Data Insights: Covid-2019 Monitor

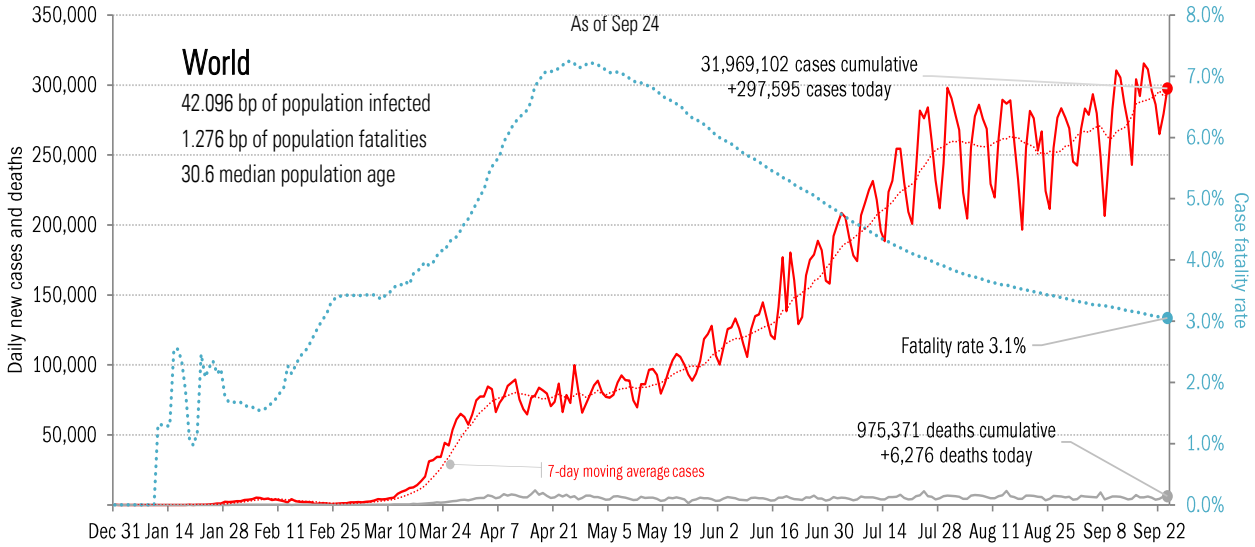
Thursday, September 24, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+86,508	India	+1,129
US	+38,024	US	+1,102
Brazil	+33,281	Brazil	+869
France	+13,072	Mexico	+601
Argentina	+12,638	Argentina	+424
Israel	+11,316	Peru	+284
Colombia	+6,731	Iran	+184
Russia	+6,431	Colombia	+176
UK	+6,178	Russia	+150
Peru	+6,149	Indonesia	+140
	+220,328		+5,059
World	+297,595	World	+6,276
Top ten	74%	Top ten	81%





Source: ECDC, TrendMacro calculations

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The US scorecard

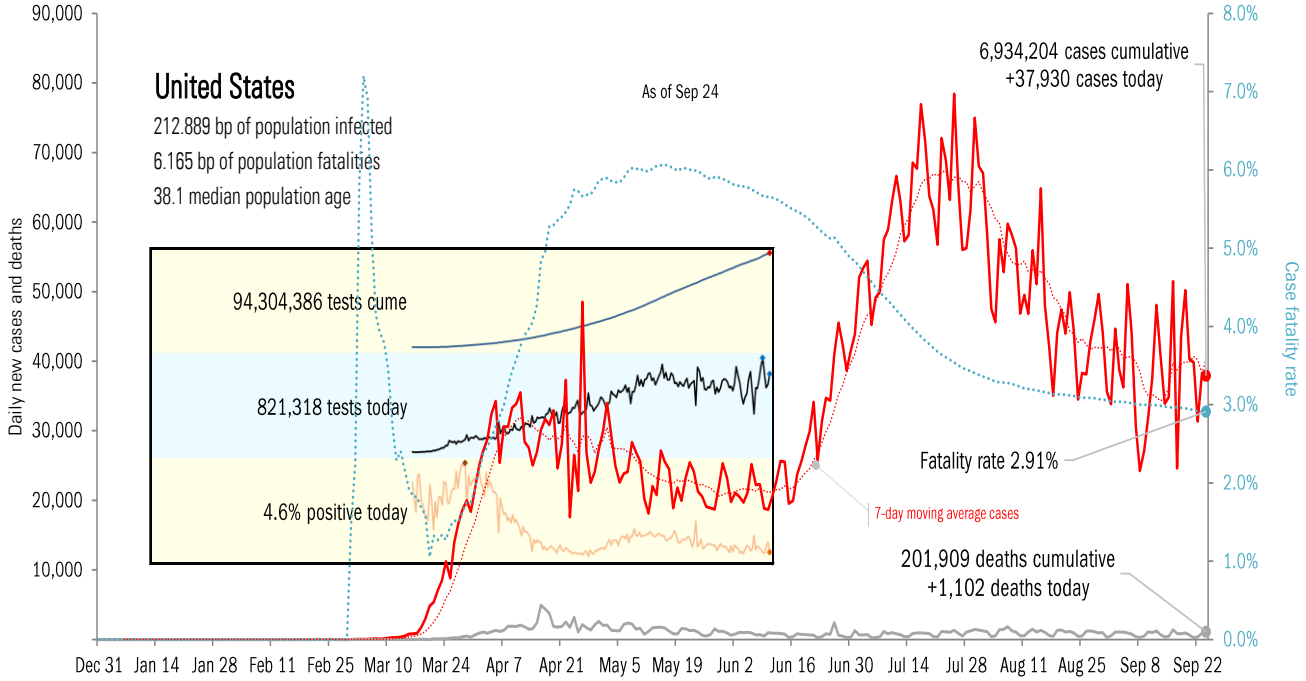
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+3,392	FL	+203	GA	+259	CA	787,470	NY	25,437	NY	89,995
CA	+3,146	TX	+135	FL	+172	TX	719,599	NJ	16,082	FL	43,433
FL	+2,590	CA	+133	AL	+94	FL	690,499	CA	15,204	GA	27,749
WI	+1,895	GA	+96	OH	+78	NY	451,892	TX	15,129	NJ	23,215
IL	+1,848	MO	+83	TN	+75	GA	309,678	FL	13,782	AZ	21,925
MO	+1,580	OH	+52	OK	+61	IL	281,312	MA	9,328	VA	17,954
TN	+1,561	PA	+39	KS	+60	AZ	215,284	IL	8,744	AL	16,698
GA	+1,457	AL	+31	WI	+56	NJ	200,988	PA	8,062	MD	15,268
KS	+1,267	NC	+30	SC	+55	NC	196,501	MI	7,013	OH	14,977
OK	+1,089	VA	+29	MN	+50	TN	186,709	GA	6,773	MA	12,571
	+19,825		+831		+960		4,039,932		125,554		283,785
All states	+38,024	All states	+1,138	All states	+1,430	All states	6,897,596	All states	193,912	All states	399,231
Top ten	52%	Top ten	73%	Top ten	67%	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	
TX	-14,428	WA	-33	FL	-56	TX	+4,158
SC	-1,768	TN	-14	WA	-52	LA	+4,070
WA	-645	MS	-12	OK	-39	AL	+3,351
VA	-292	SC	-12	MD	-35	TN	+1,871
AL	-235	MA	-11	IN	-34	OK	+1,297



Source: States and test data Covid Tracking Project, US data ECDC, TrendMacro calculations

Recommended reading

[No Need to Sweat Covid Vaccination Rates](#)
Tomas J. Philipson
Wall Street Journal
September 23, 2020

[Misinformation and Vaccine Acceptance](#)
Matthew A. Baum et al.
COVID-19 Consortium for Understanding the Public's Policy Preferences Across States
September 23, 2020

[Misinformation During a Pandemic](#)
Leonardo Bursztyn et al.
Becker Friedman Institute
September 2020

[Schools aren't spreading coronavirus](#)
Joanne Jacobs
Linking and Thinking on Education
September 23, 2020

[New Dashboard Tracks Coronavirus Cases In Schools Across 47 States](#)
Anya Kamanetz
NPR
September 23, 2020

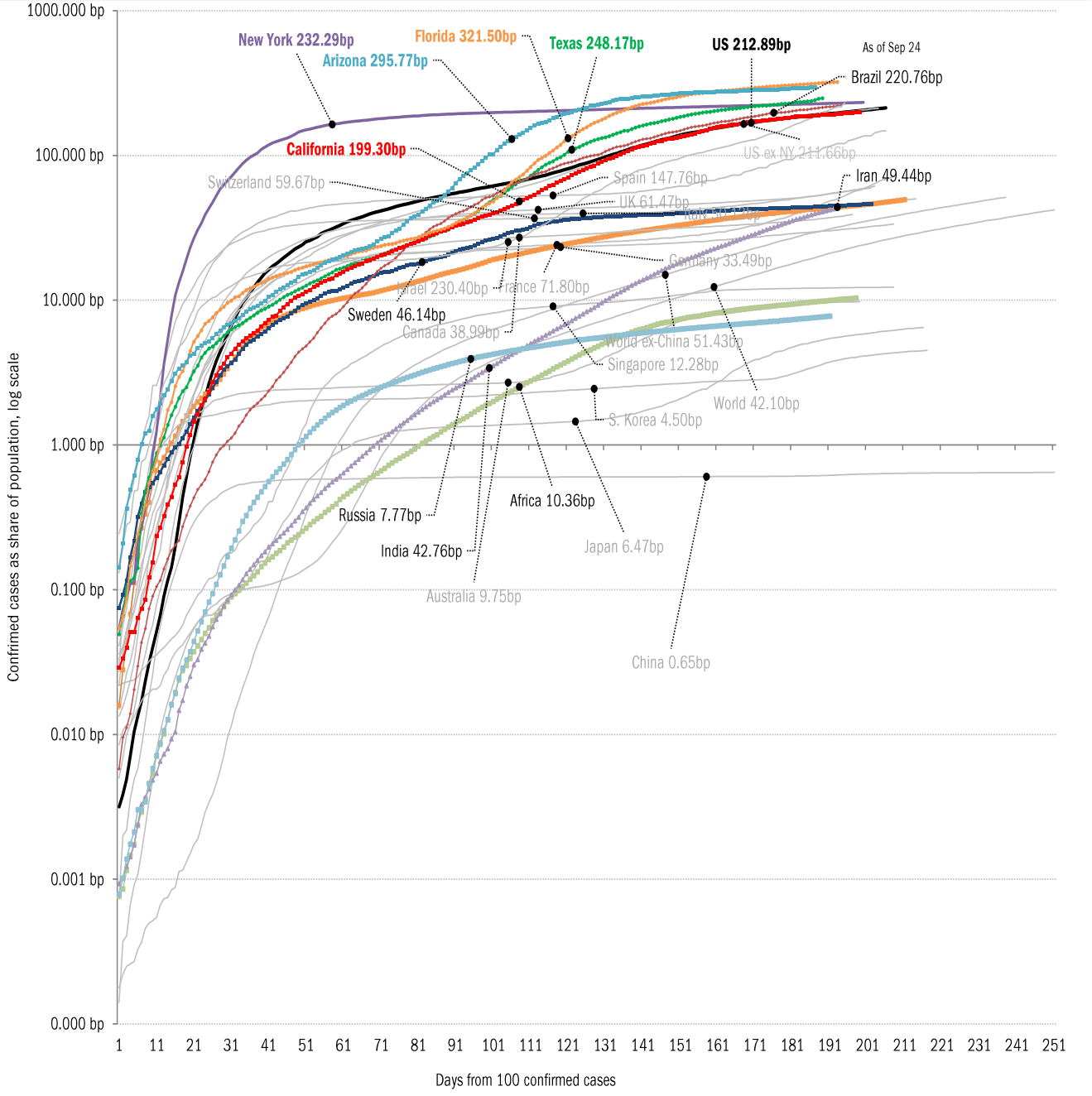
[Johnson & Johnson Begins Giant Trial Testing One-Dose Covid Shot](#)
Robert Langreth and Riley Griffin
Bloomberg
September 23, 2020

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

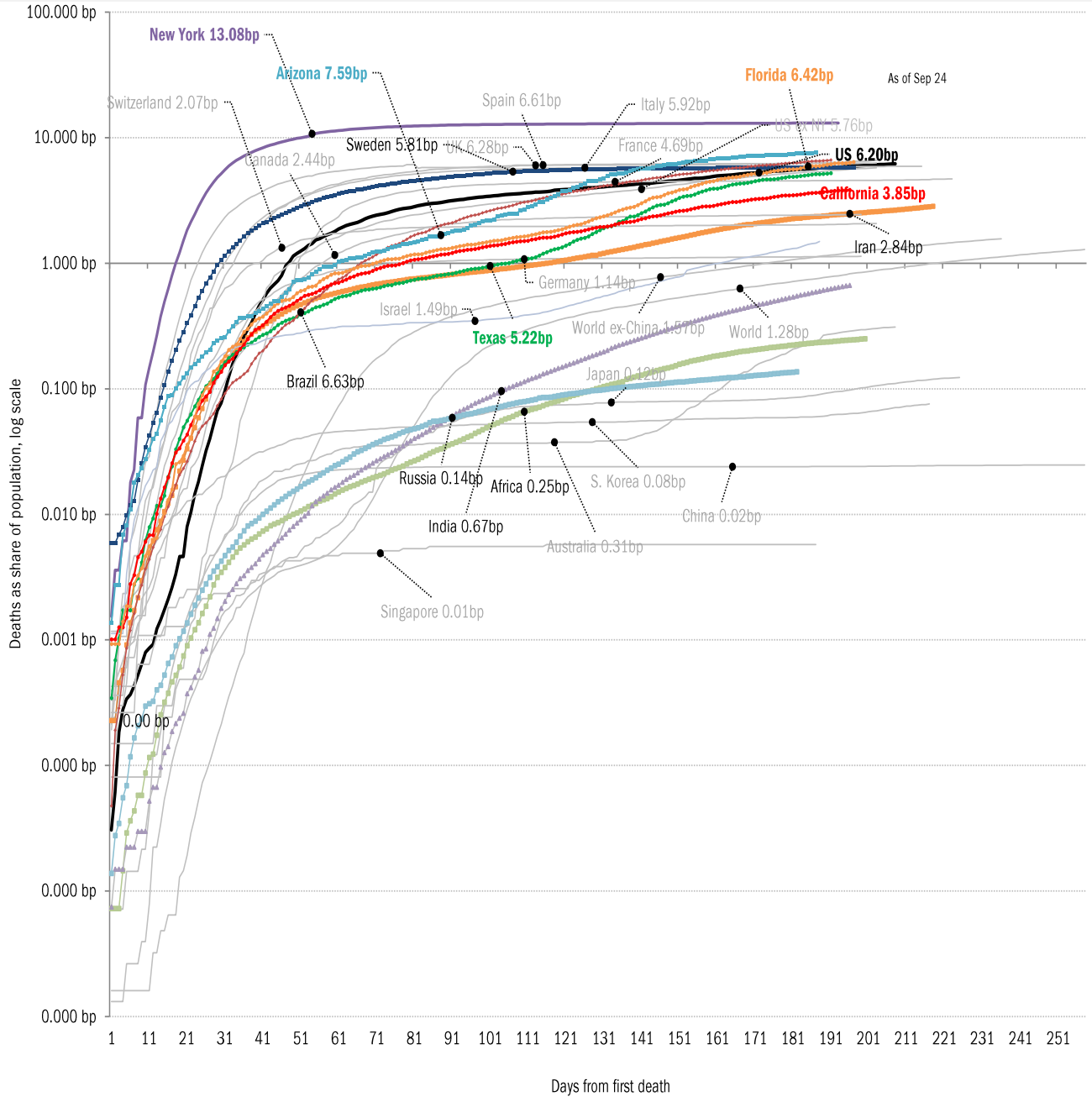
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

Share of deceased population from day of first fatality

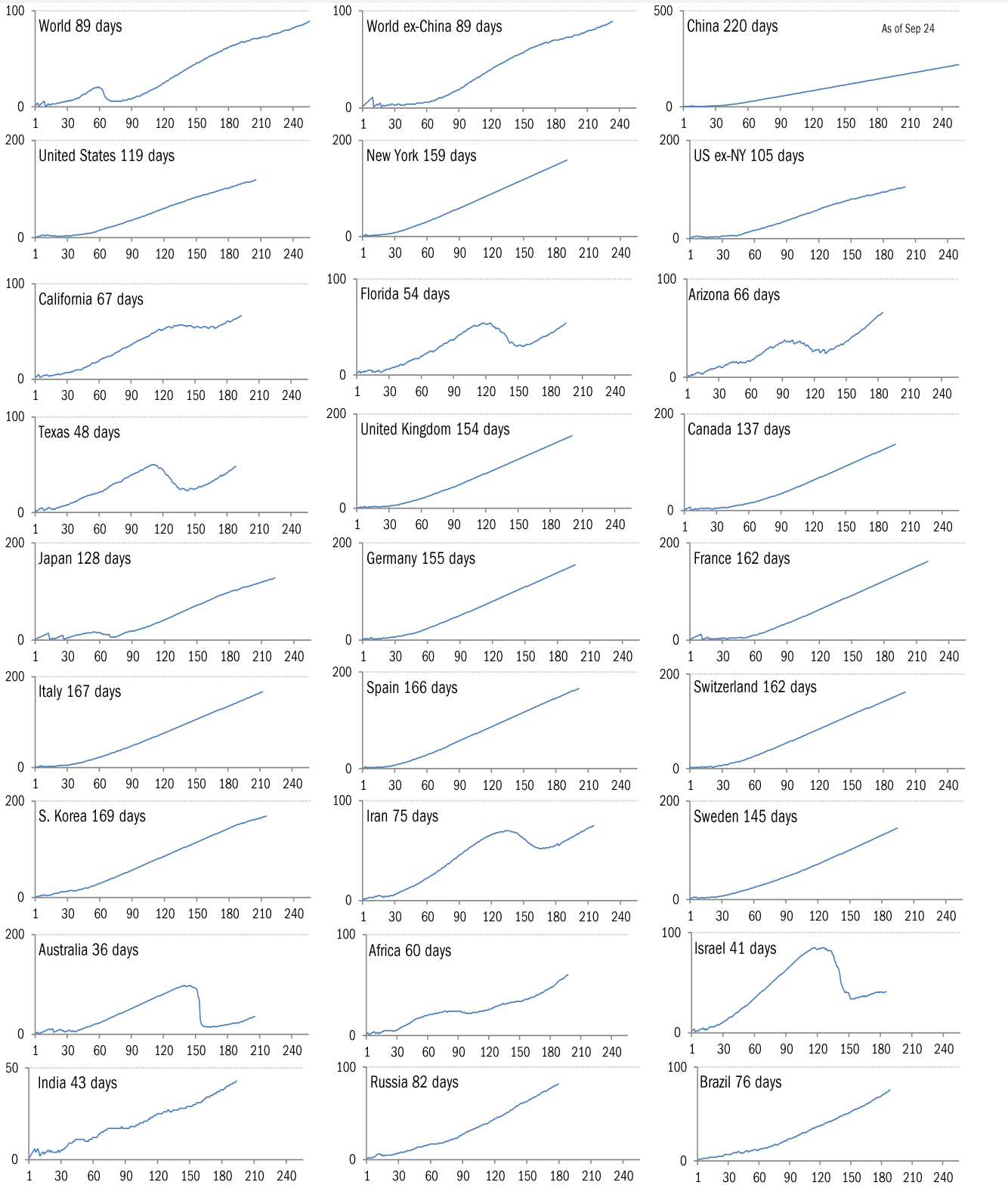


Source: ECDC, TrendMacro calculations

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

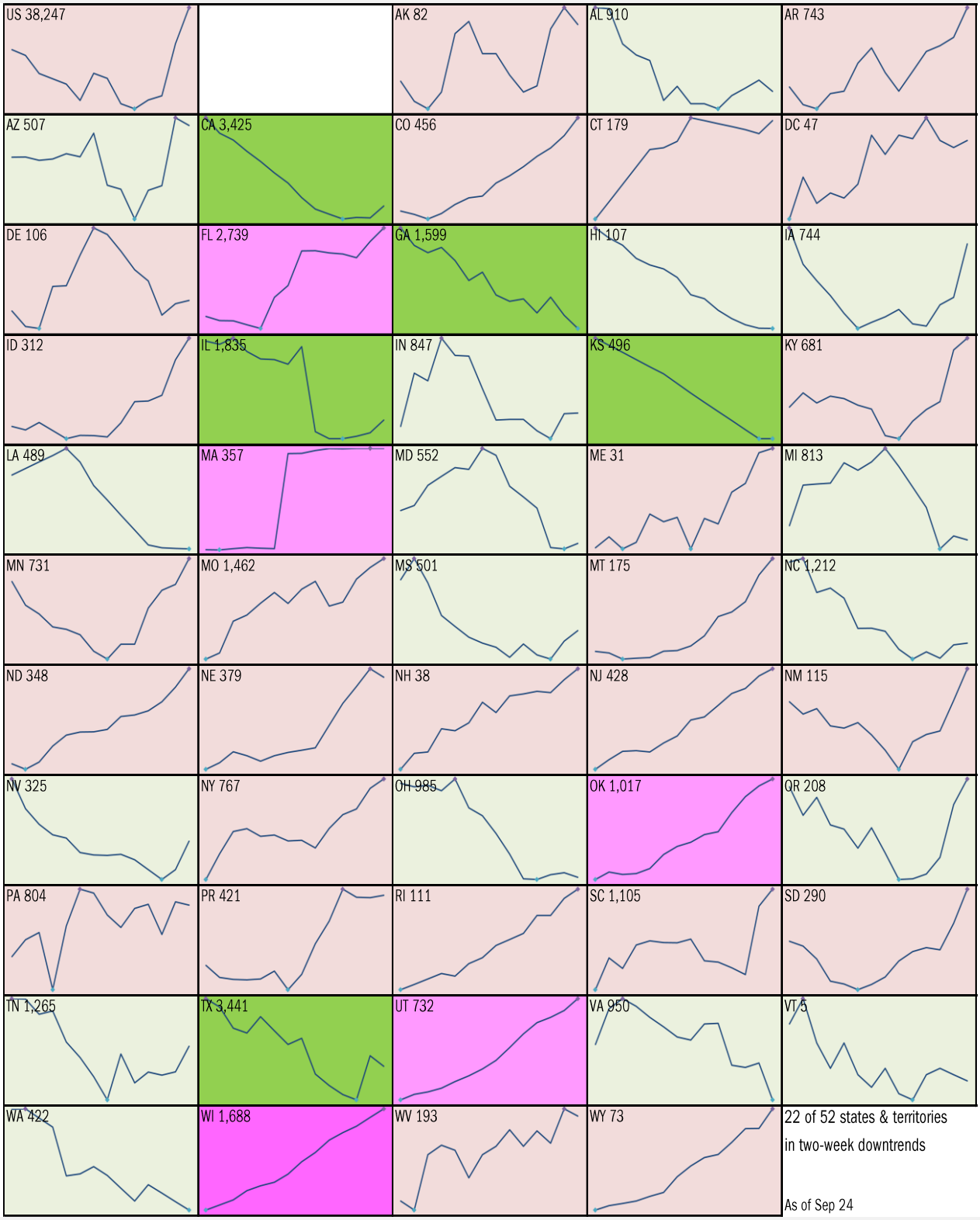


Source: ECDC, TrendMacro calculations

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

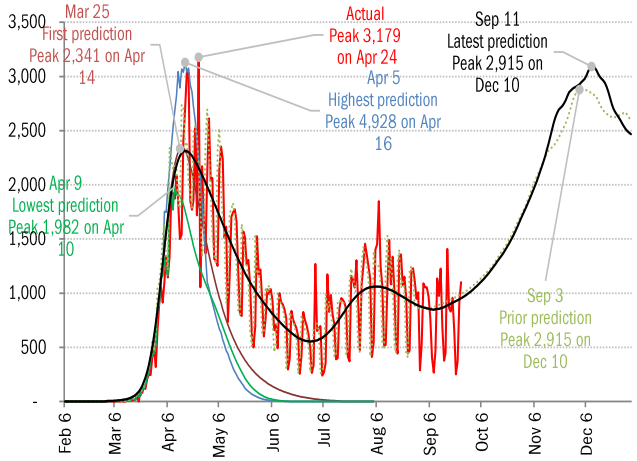
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

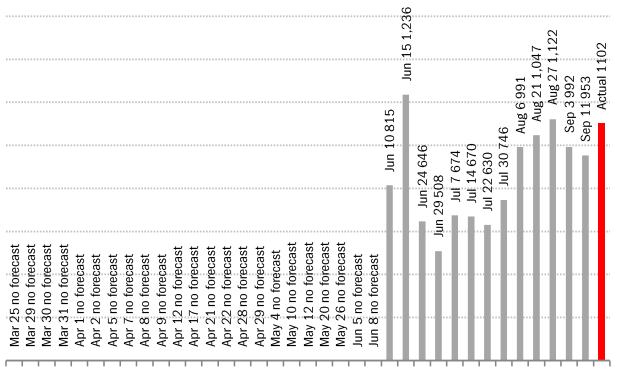
Reality-checking the models: actuals versus IHME predictions

New daily fatalities As of Sep 24

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

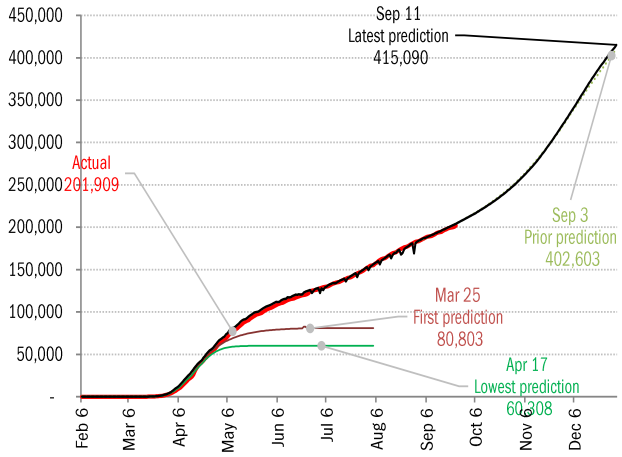


For this day, versus all model mean predictions

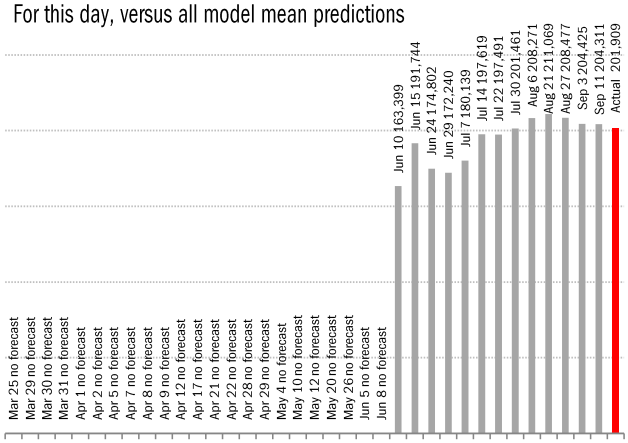


Cumulative fatalities

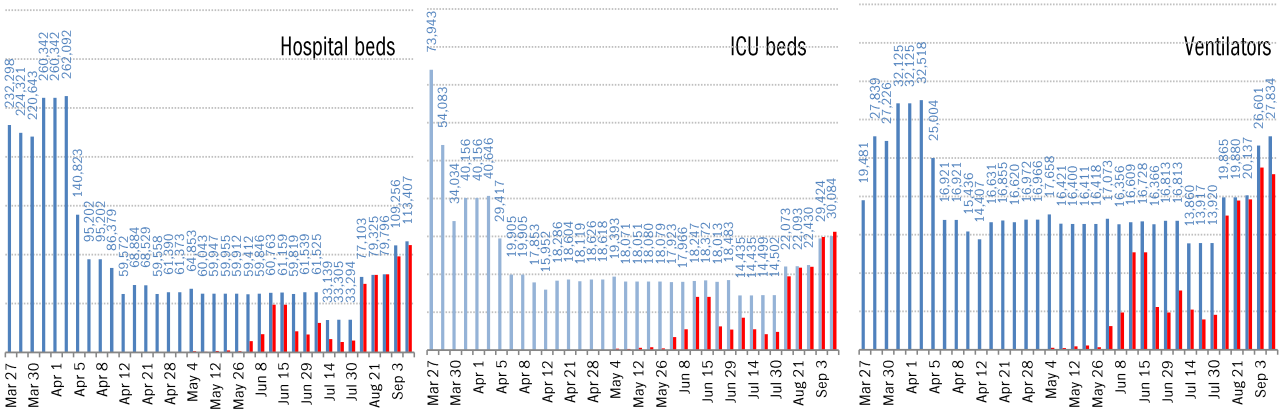
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

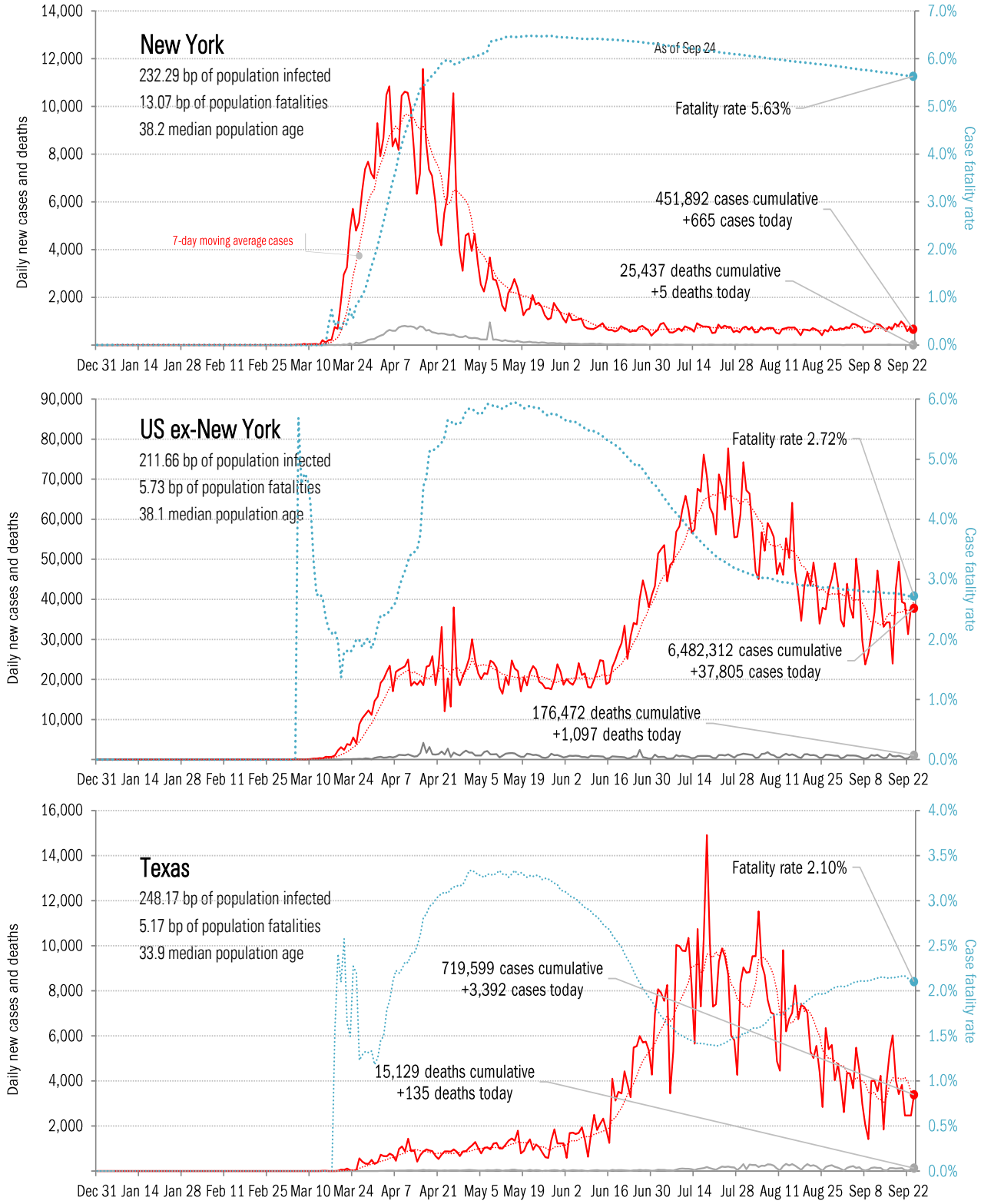


Healthcare system stress, peak and ultimate estimated at each model revision



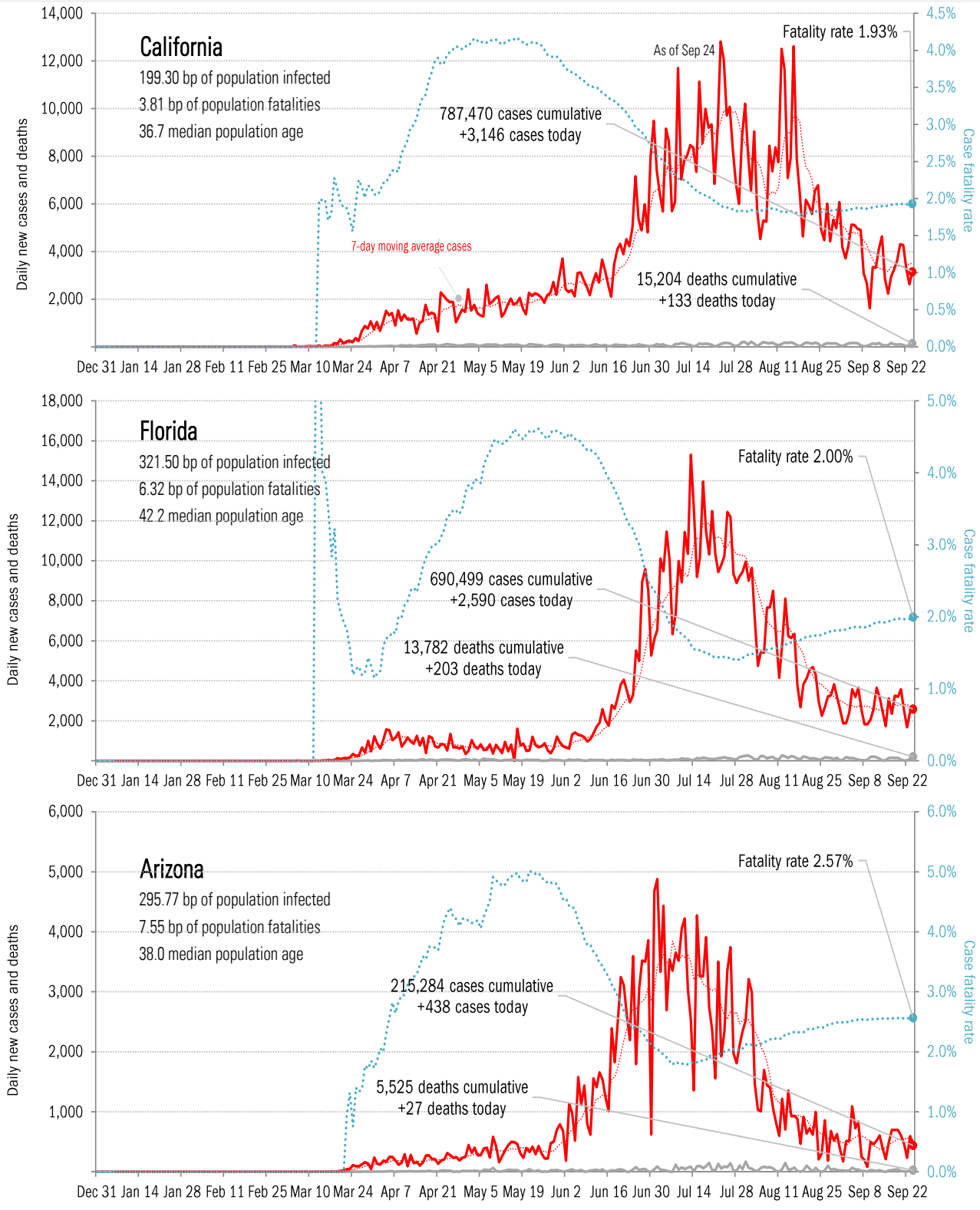
Source: ECDC, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



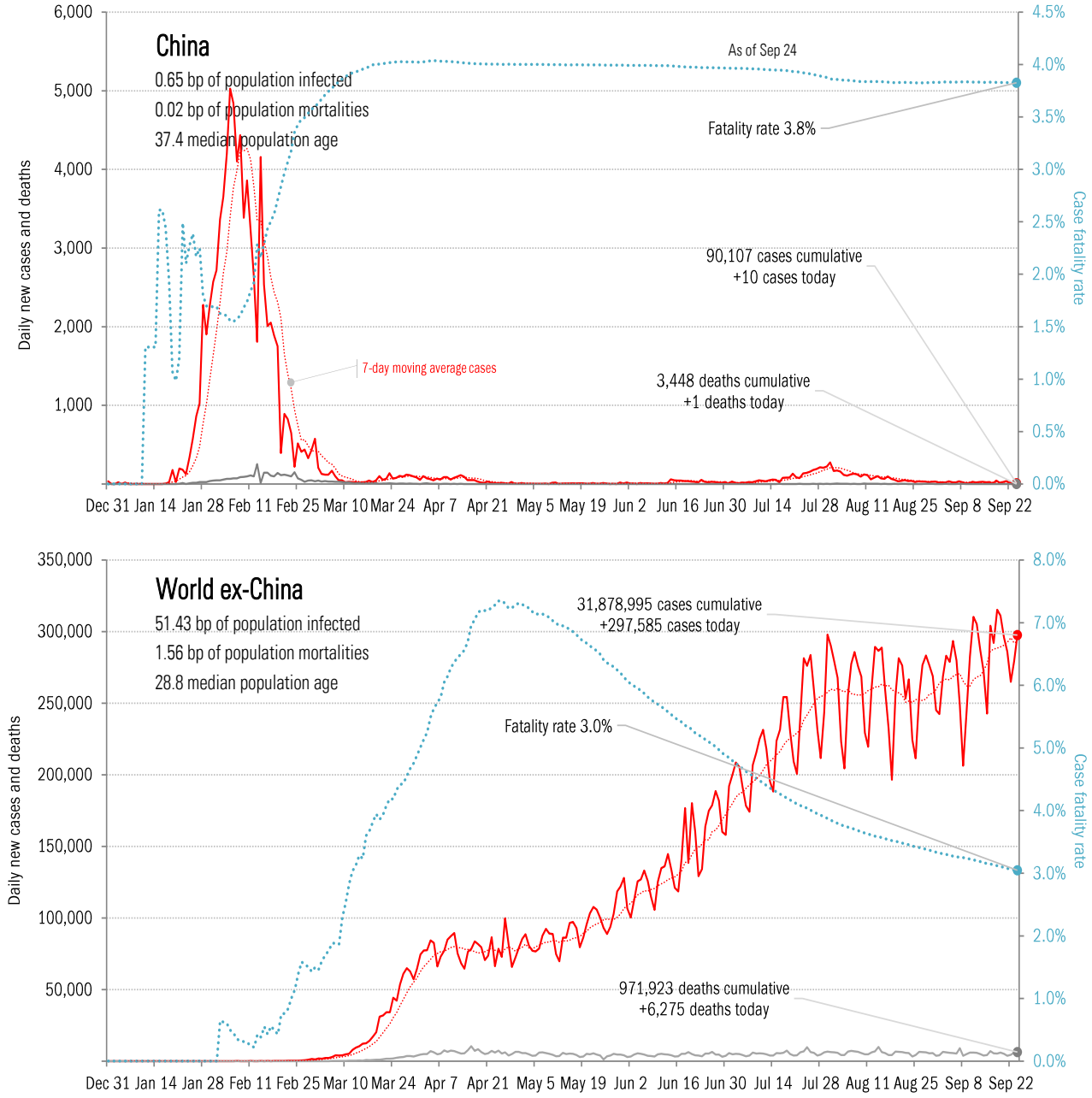
Source: ECDC, TrendMacro calculations

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



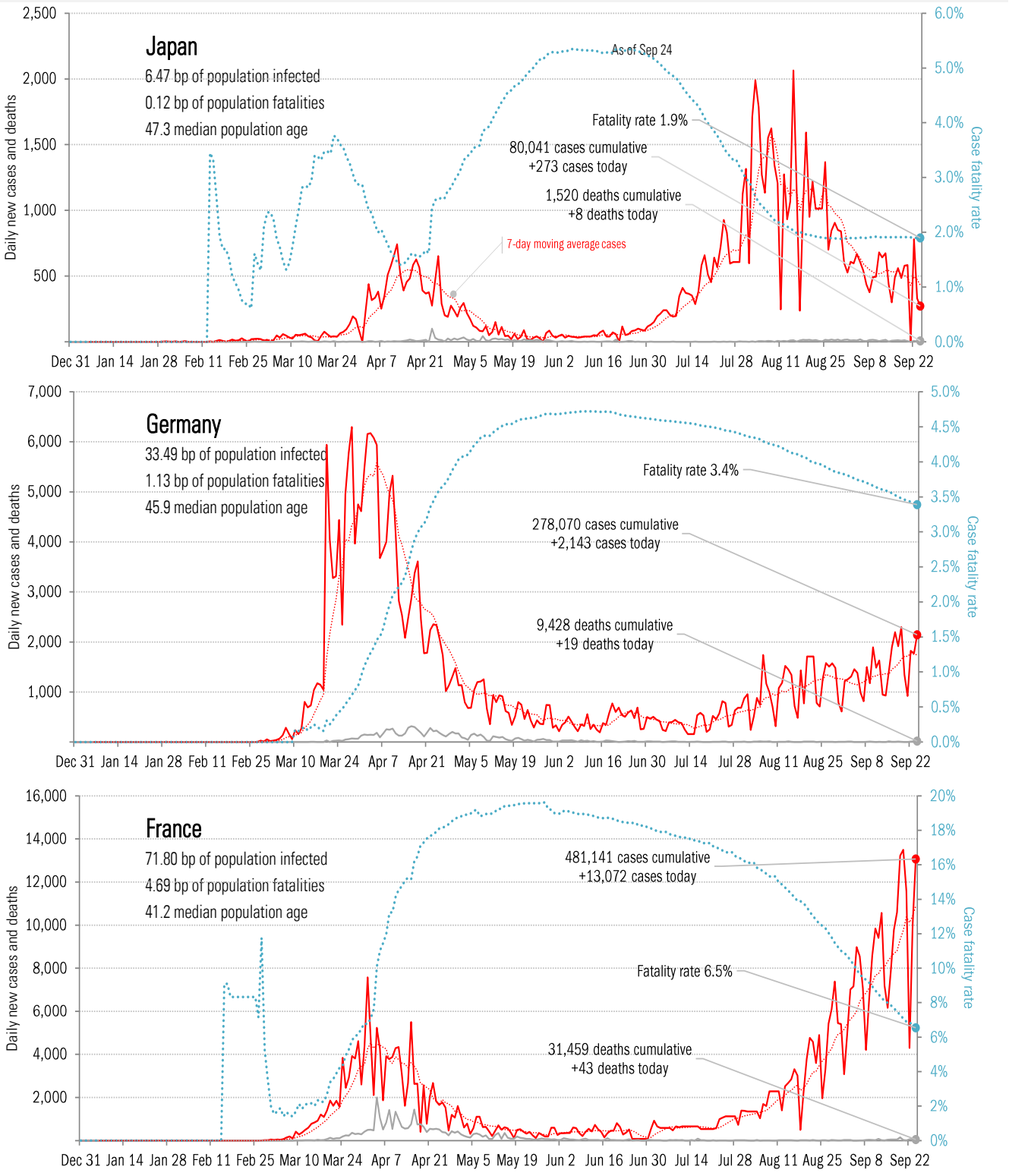
Source: ECDC, TrendMacro calculations

Patient zero… and then everyone else



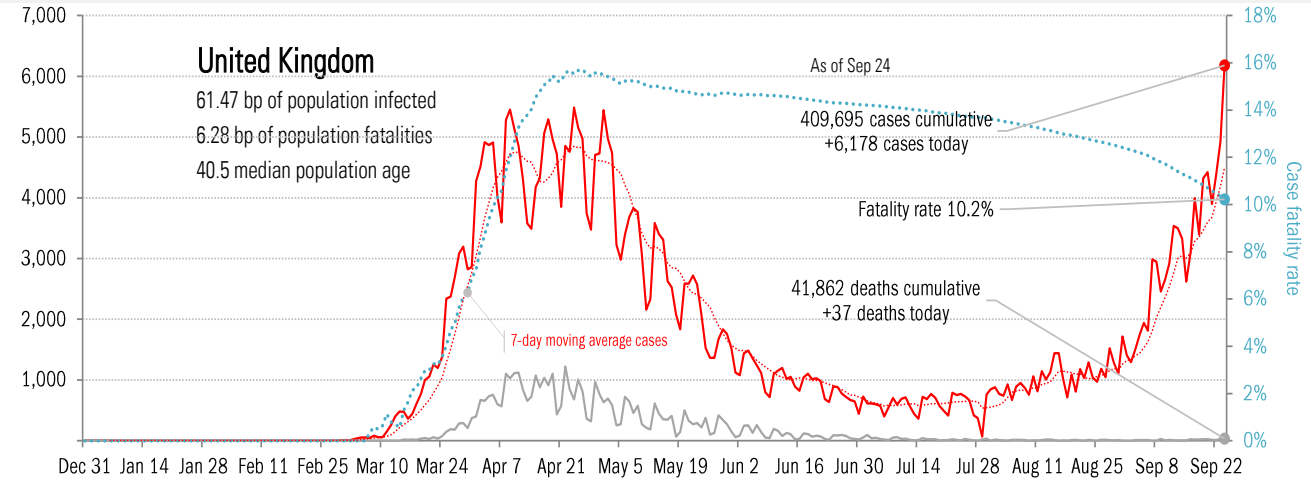
Source: ECDC, TrendMacro calculations

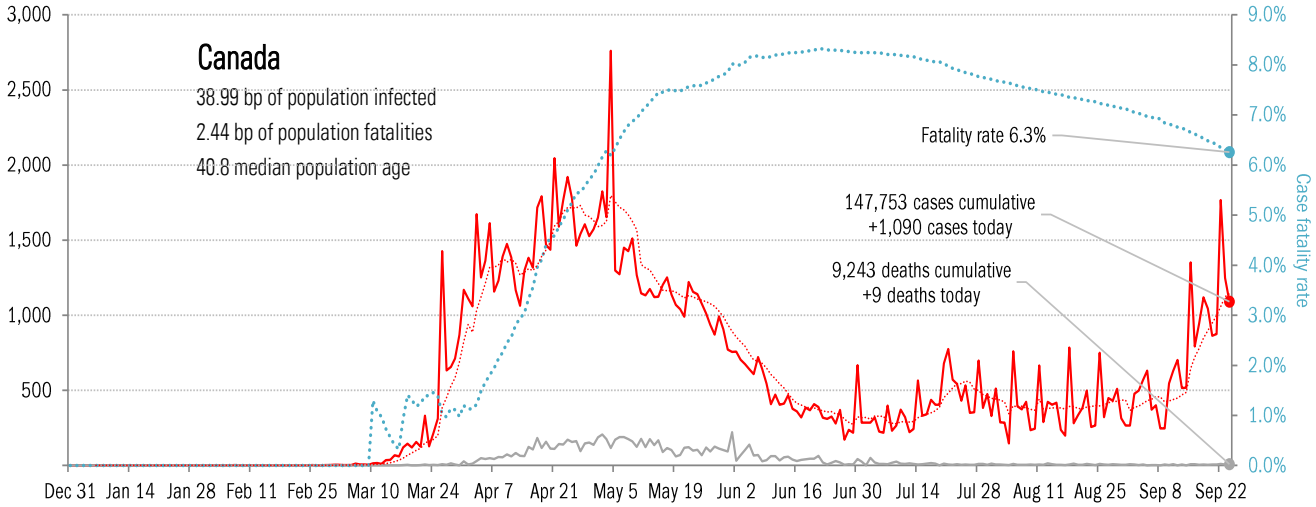
Impact in the largest economies

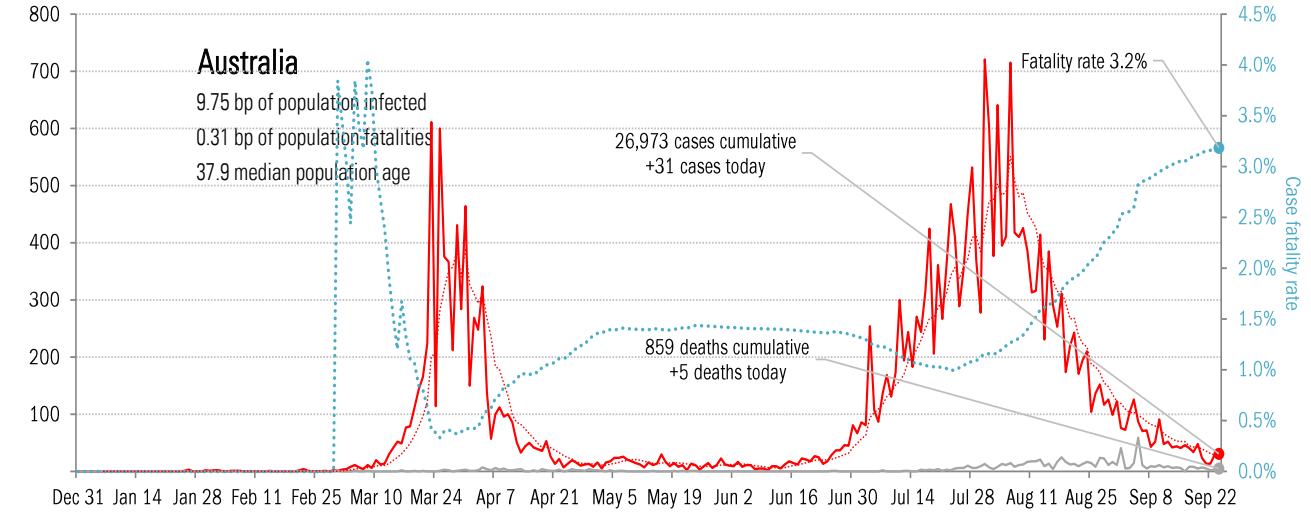


Source: ECDC, TrendMacro calculations

Impact in The Anglosphere

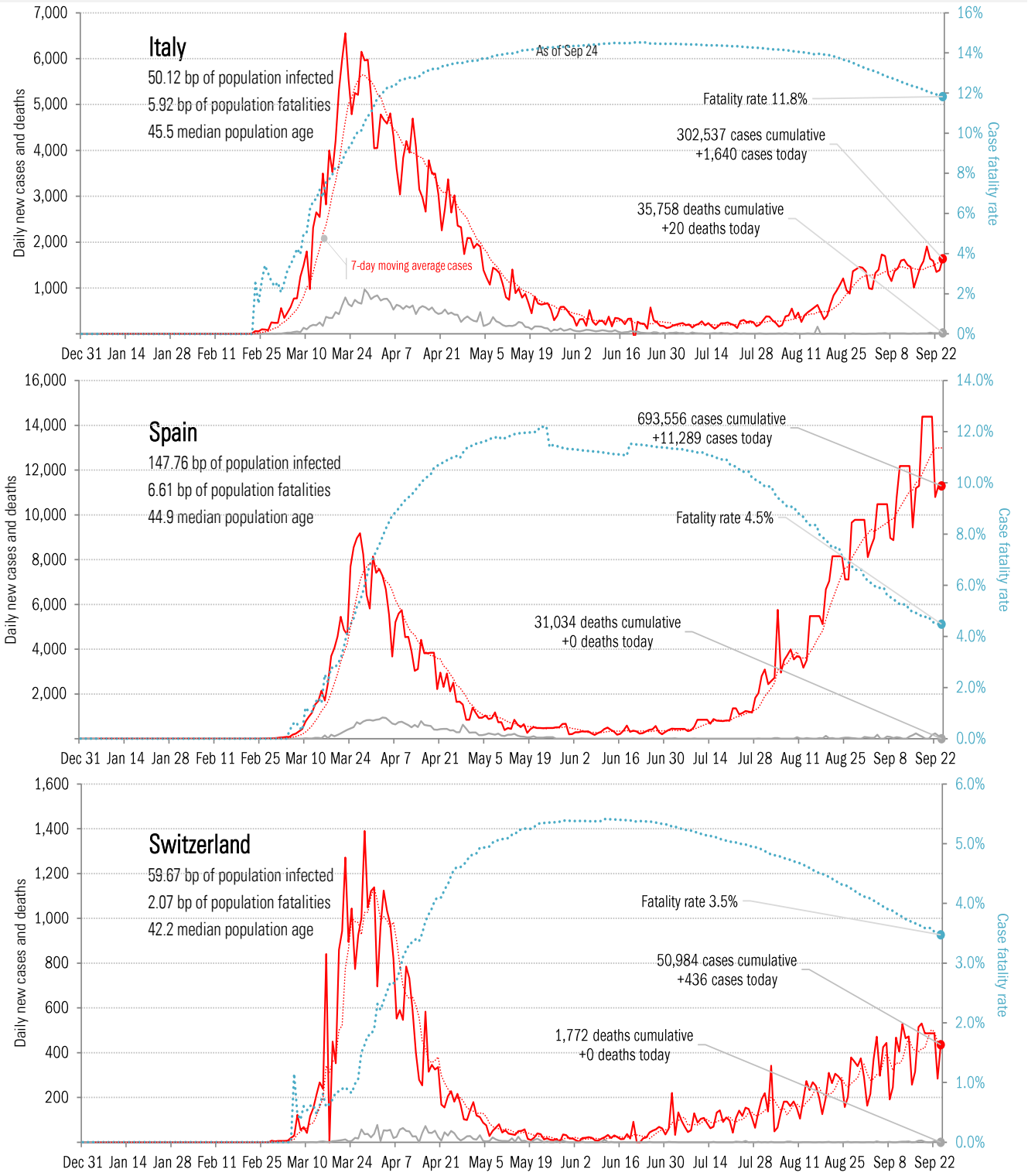






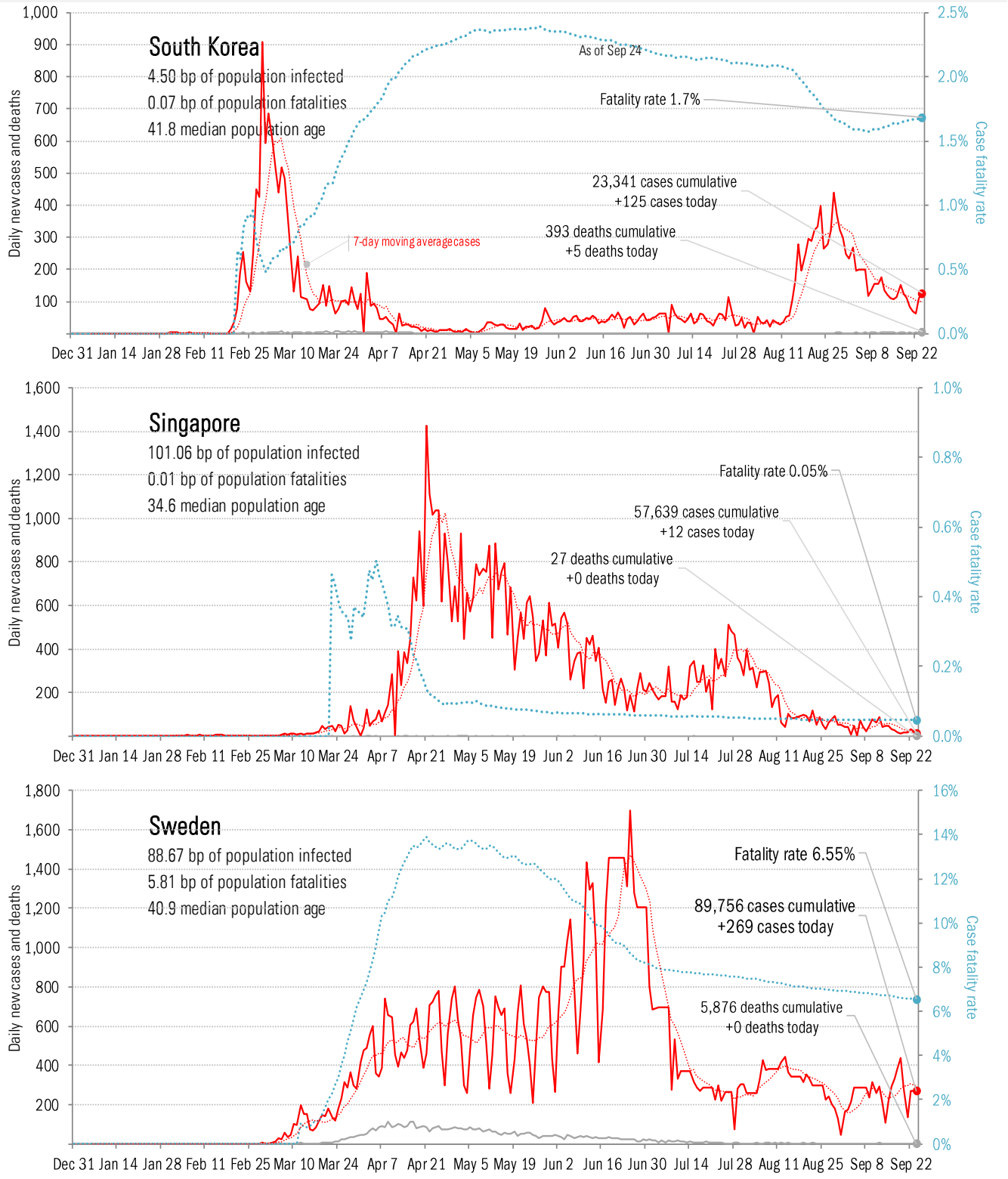
Source: ECDC, TrendMacro calculations

Impact in continental Europe



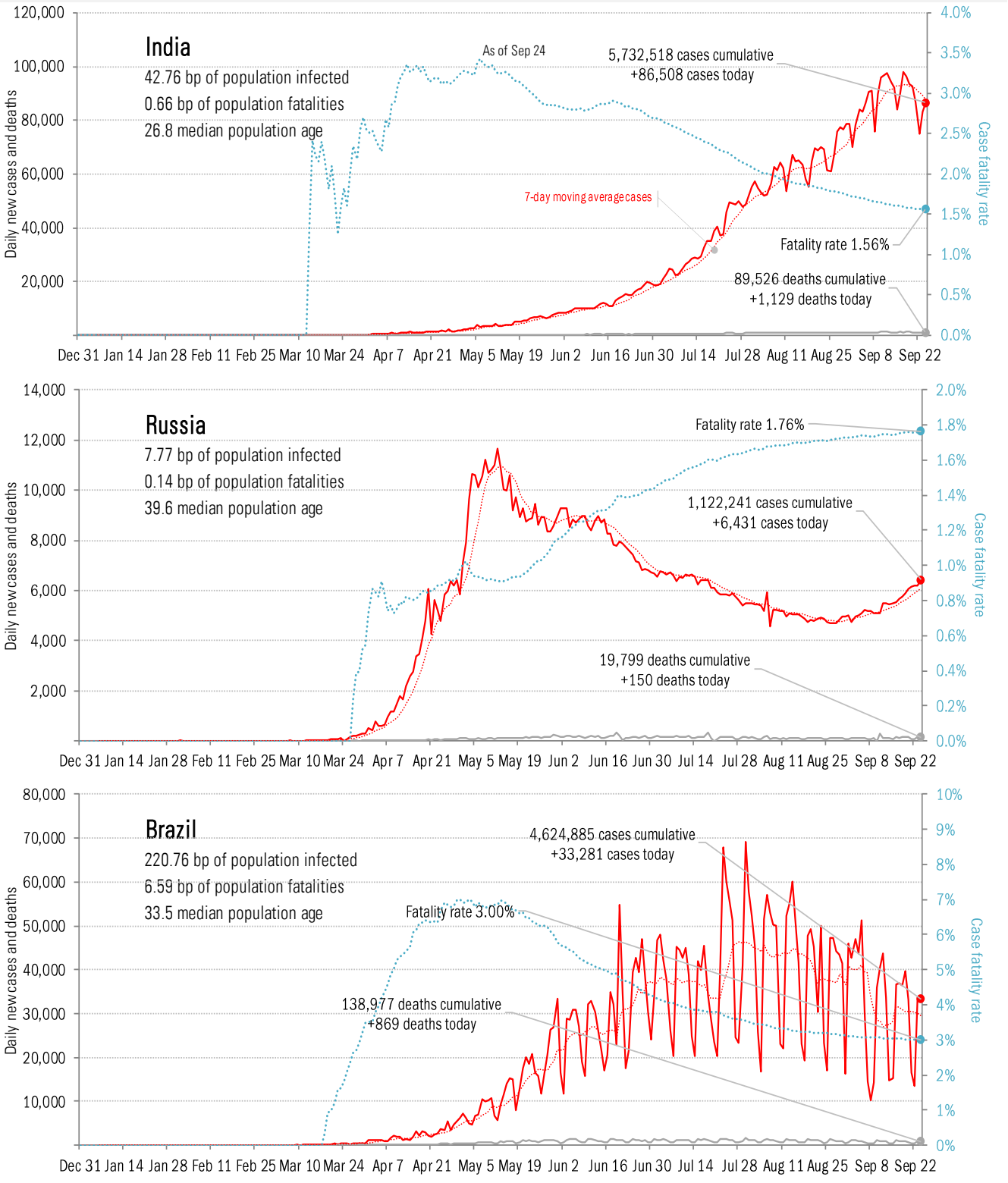
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



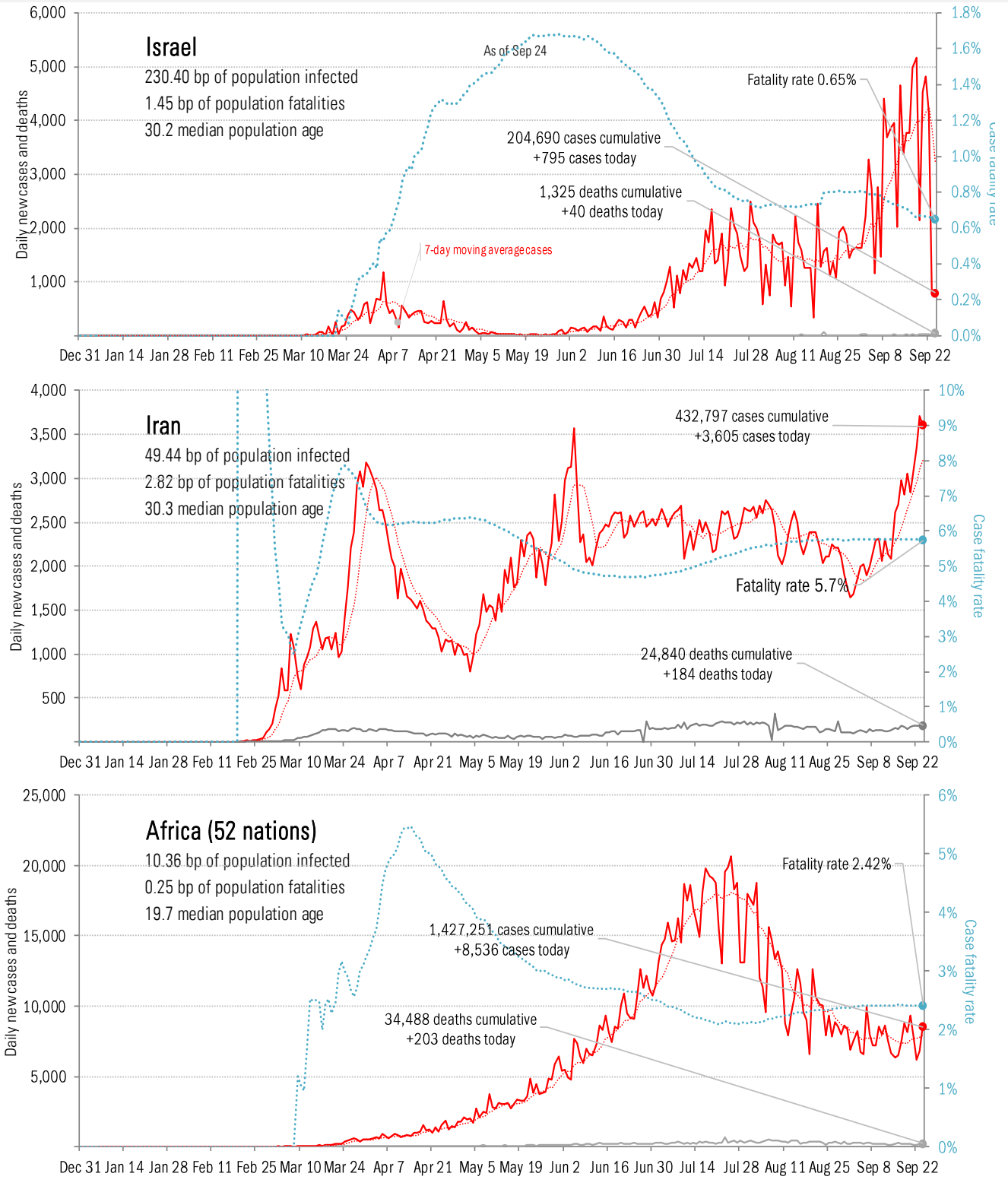
Source: ECDC, TrendMacro calculations

Impact in the BRICs ex-China



Source: ECDC, TrendMacro calculations

Impact in the Middle East and Africa



Source: ECDC, TrendMacro calculations