Trend Macrolytics, LLC
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Thomas Demas, Managing Director
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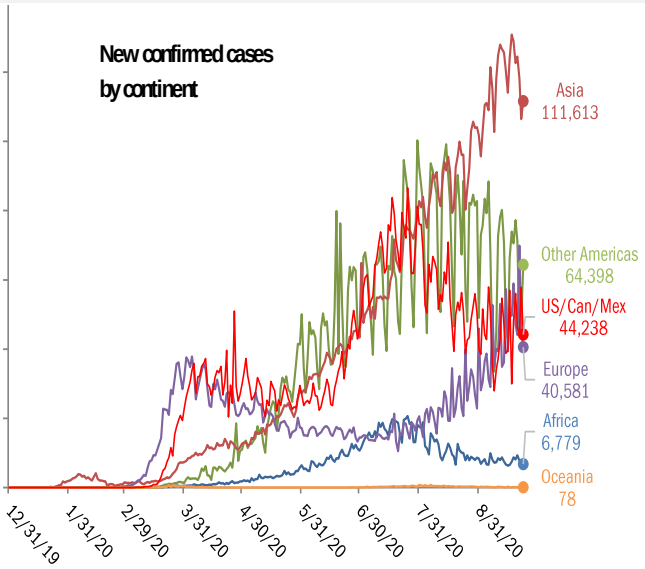
Data Insights: Covid-2019 Monitor

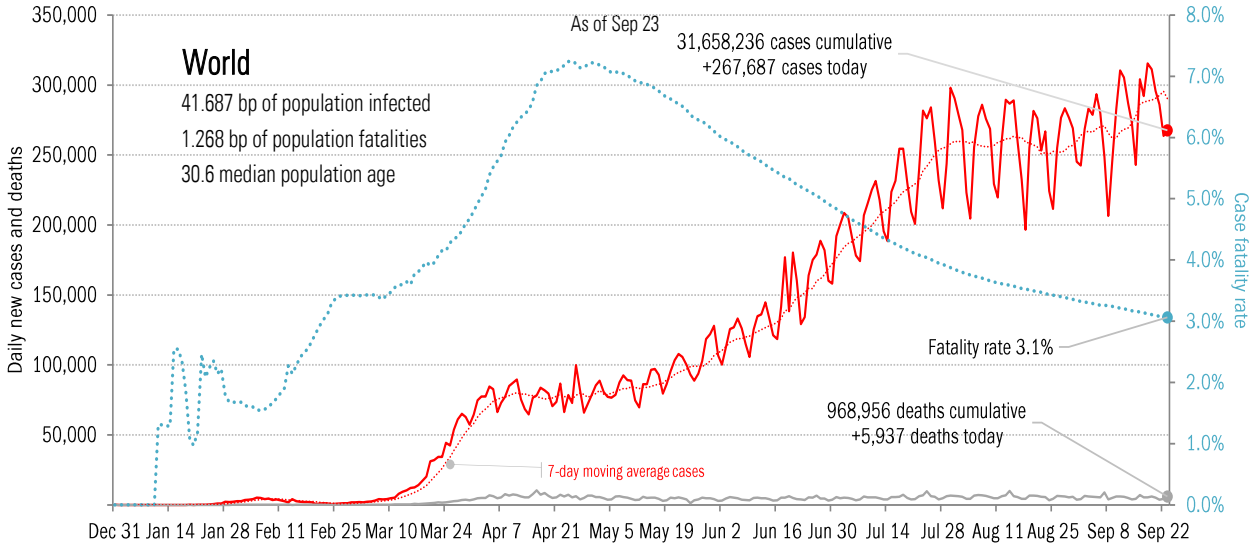
Wednesday, September 23, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
India	+83,347	India	+1,085
US	+34,938	US	+926
Brazil	+33,536	Brazil	+836
Argentina	+12,027	Mexico	+651
France	+10,008	Argentina	+470
Colombia	+7,102	Iran	+178
Russia	+6,215	Colombia	+173
UK	+4,926	Indonesia	+160
Iraq	+4,724	Russia	+160
Mexico	+4,683	South_Africa	+126
	+201,506		+4,765
World	+267,687	World	+5,937
Top ten	75%	Top ten	80%





Source: ECDC, TrendMacro calculations

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The US scorecard

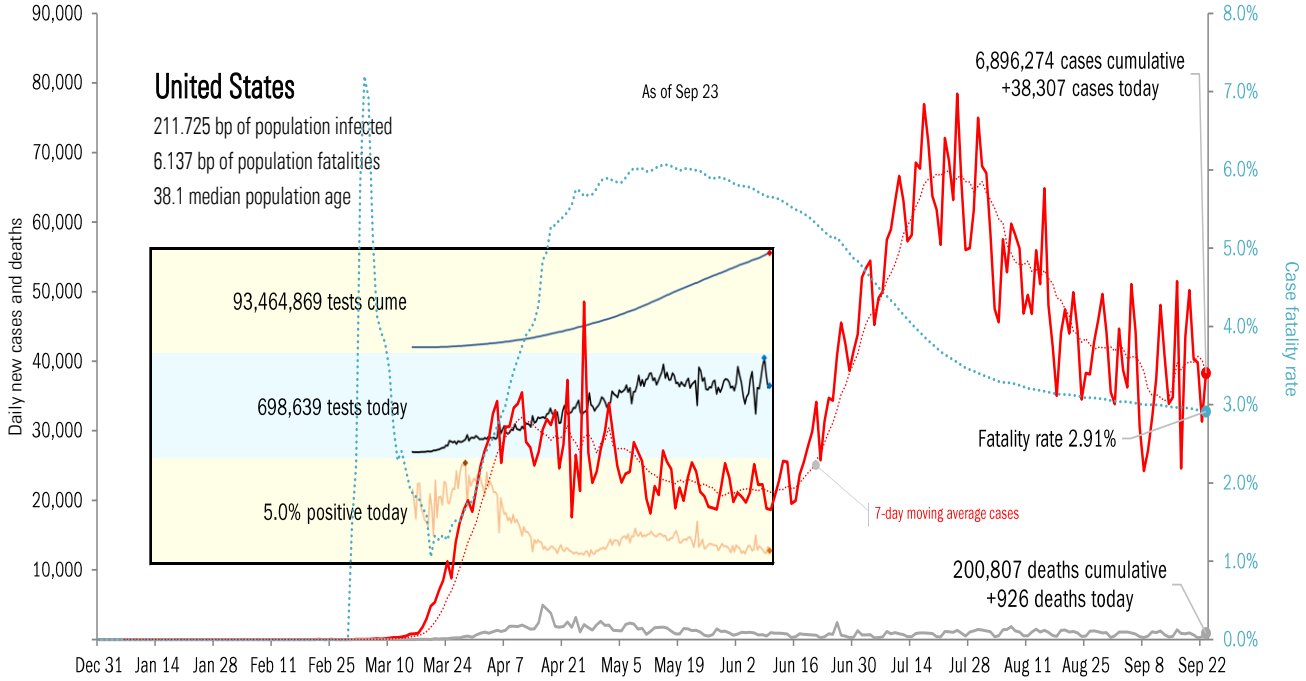
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
TX	+3,964	FL	+99	FL	+228	CA	784,324	NY	25,432	NY	89,995
SC	+2,665	TX	+77	AL	+117	TX	702,351	NJ	16,076	FL	43,261
CA	+2,630	GA	+73	OK	+100	FL	687,909	CA	15,071	GA	27,490
FL	+2,470	MO	+57	GA	+96	NY	451,227	TX	14,994	NJ	23,170
WI	+1,739	CA	+53	IN	+81	GA	308,221	FL	13,579	AZ	21,900
IL	+1,531	NC	+39	WI	+73	IL	279,464	MA	9,328	VA	17,919
NC	+1,168	VA	+39	SC	+72	AZ	214,846	IL	8,722	AL	16,604
OK	+1,164	MS	+36	OH	+70	NJ	200,580	PA	8,023	MD	15,237
MO	+1,059	SC	+31	AR	+69	NC	195,549	MI	6,997	OH	14,899
GA	+882	IL	+29	MD	+66	TN	185,148	GA	6,677	MA	12,571
	+19,272		+533		+972		4,009,619		124,899		283,046
All states	+34,938	All states	+821	All states	+1,394	All states	6,845,071	All states	192,741	All states	397,749
Top ten	55%	Top ten	65%	Top ten	70%	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	-5,889	DE	-5	AL	-143	SC	+17,317
KS	-1,674	AR	-4	MS	-108	AR	+2,250
MI	-880	KS	-4	VA	-58	TX	+2,040
CA	-664	ND	-4	KS	-35	OH	+1,351
PR	-518	PA	-4	OR	-15	WI	+1,309



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

Recommended reading

As Covid-19 Fatigue Fuels Infections in Europe, Italy Resists Second Wave
Eric Sylvers and Margherita Stancati
Wall Street Journal
September 22, 2020

Temperature Isn't a Good Litmus Test for Coronavirus, Doctors Say
Sumathi Reddy
Wall Street Journal
September 21, 2020

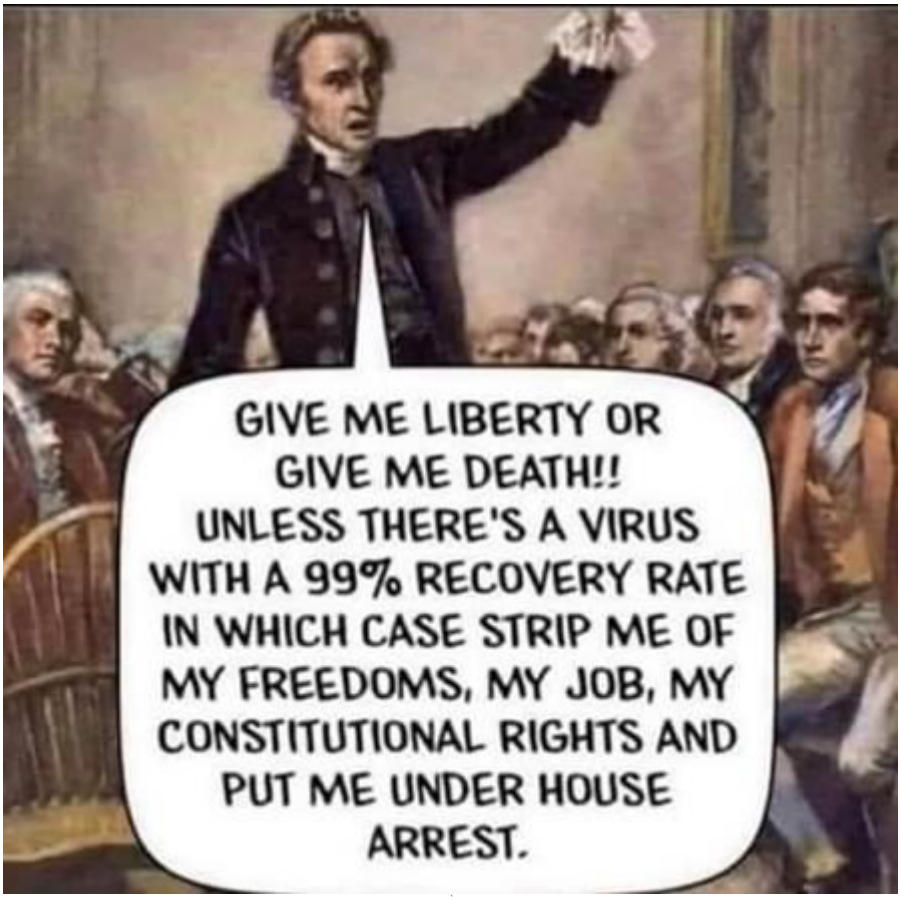
Does Sweden have herd immunity?
Sebastian Rushworth
Sebastian Rushworth
September 19, 2020

New York Lawmakers Seek Independent Probe of Nursing-Home Coronavirus Deaths
Jimmy Vielkind
Wall Street Journal
September 20, 2020

Peru and Brazil: Stay Home and Starve
Mary Anastasia O'Grady
Wall Street Journal
September 21, 2020

Epidemiologists uncertain whether long-feared autumn second wave of COVID-19 will materialize
David Hogberg
Washington Examiner
September 21, 2020

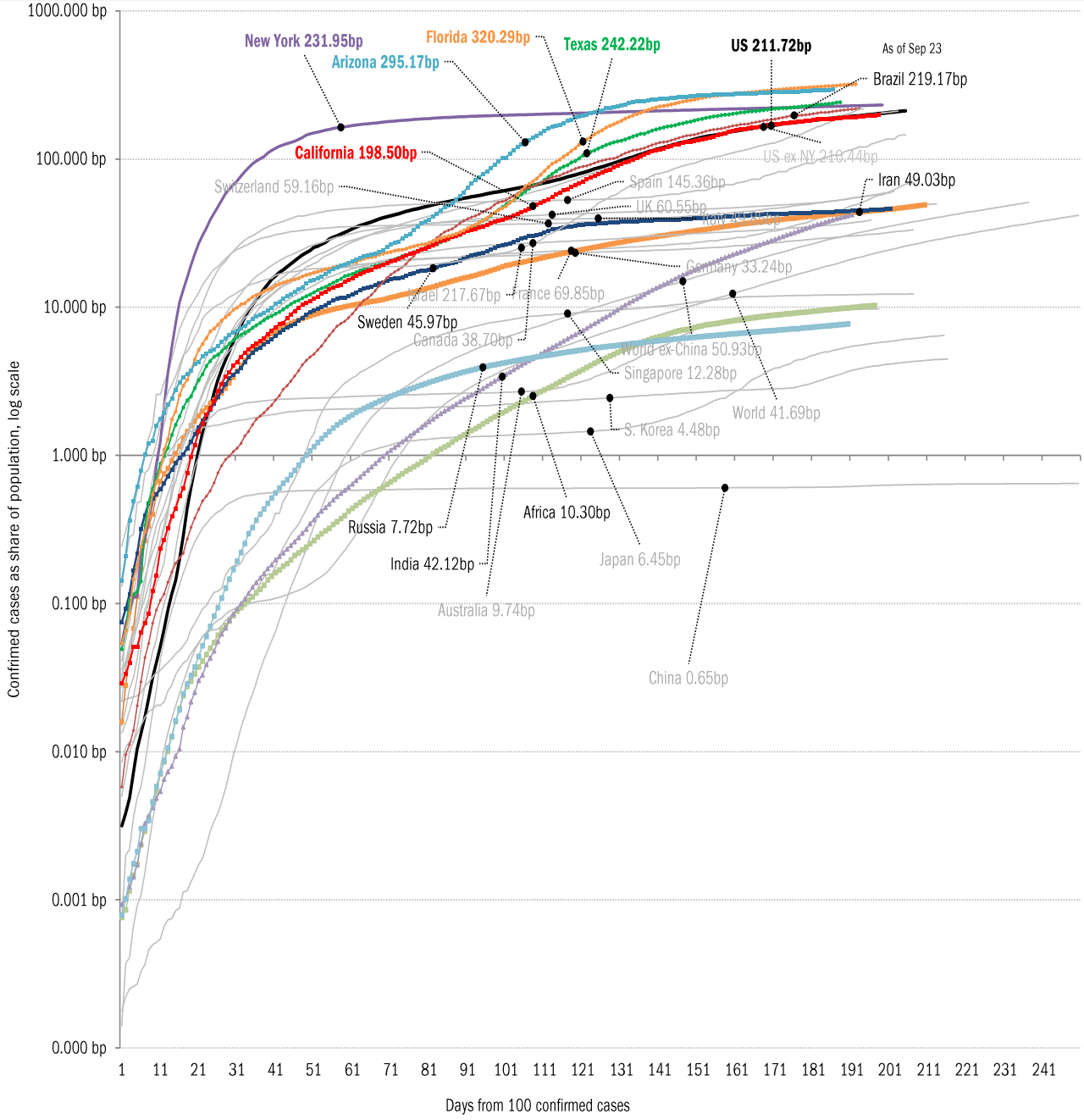
Meme of day



Source: Our beloved clients, and Power Line blog "The Week in Pictures"

The coronavirus case accelerometer… tracking the world's infection curves

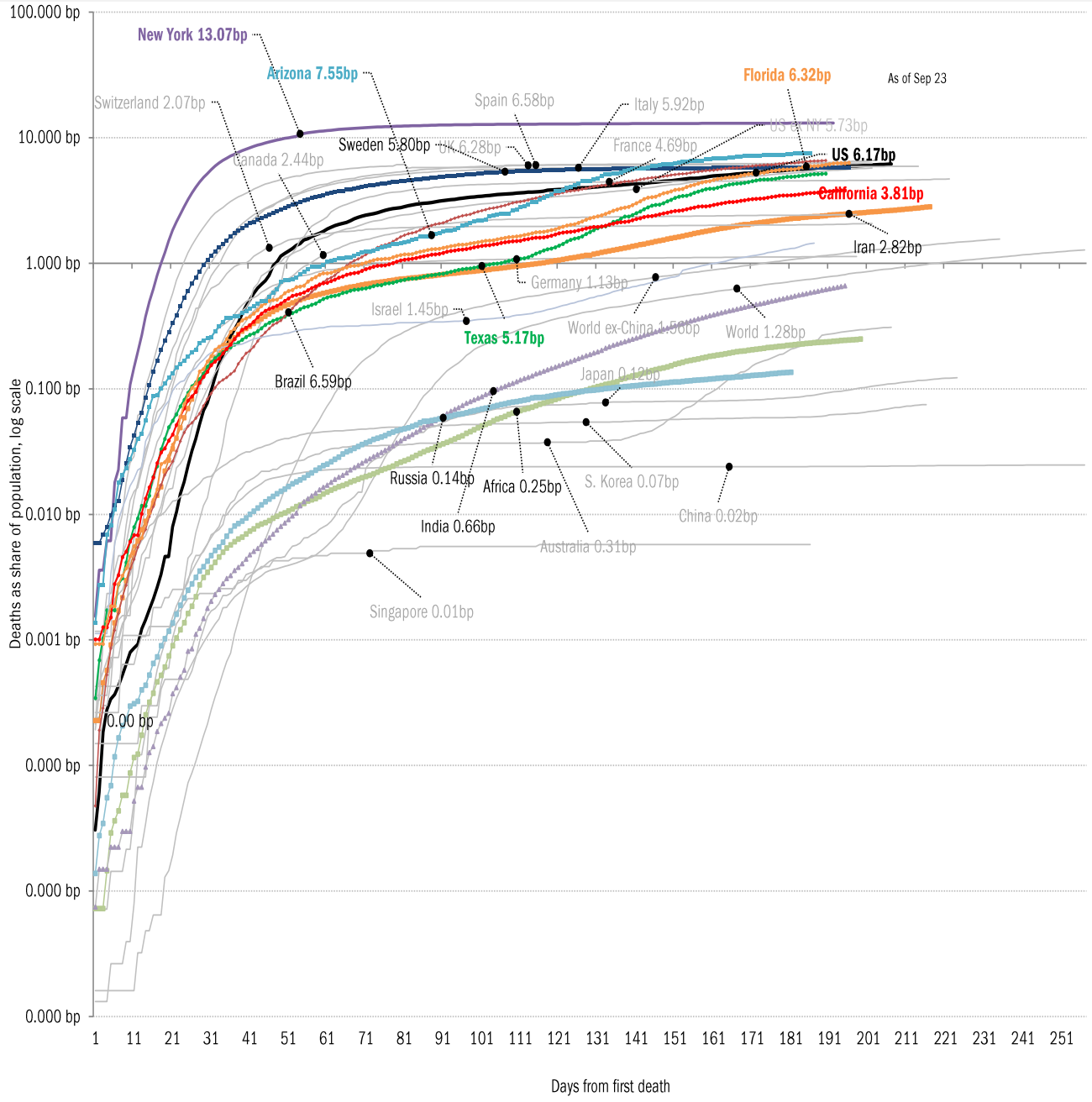
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

Share of deceased population from day of first fatality

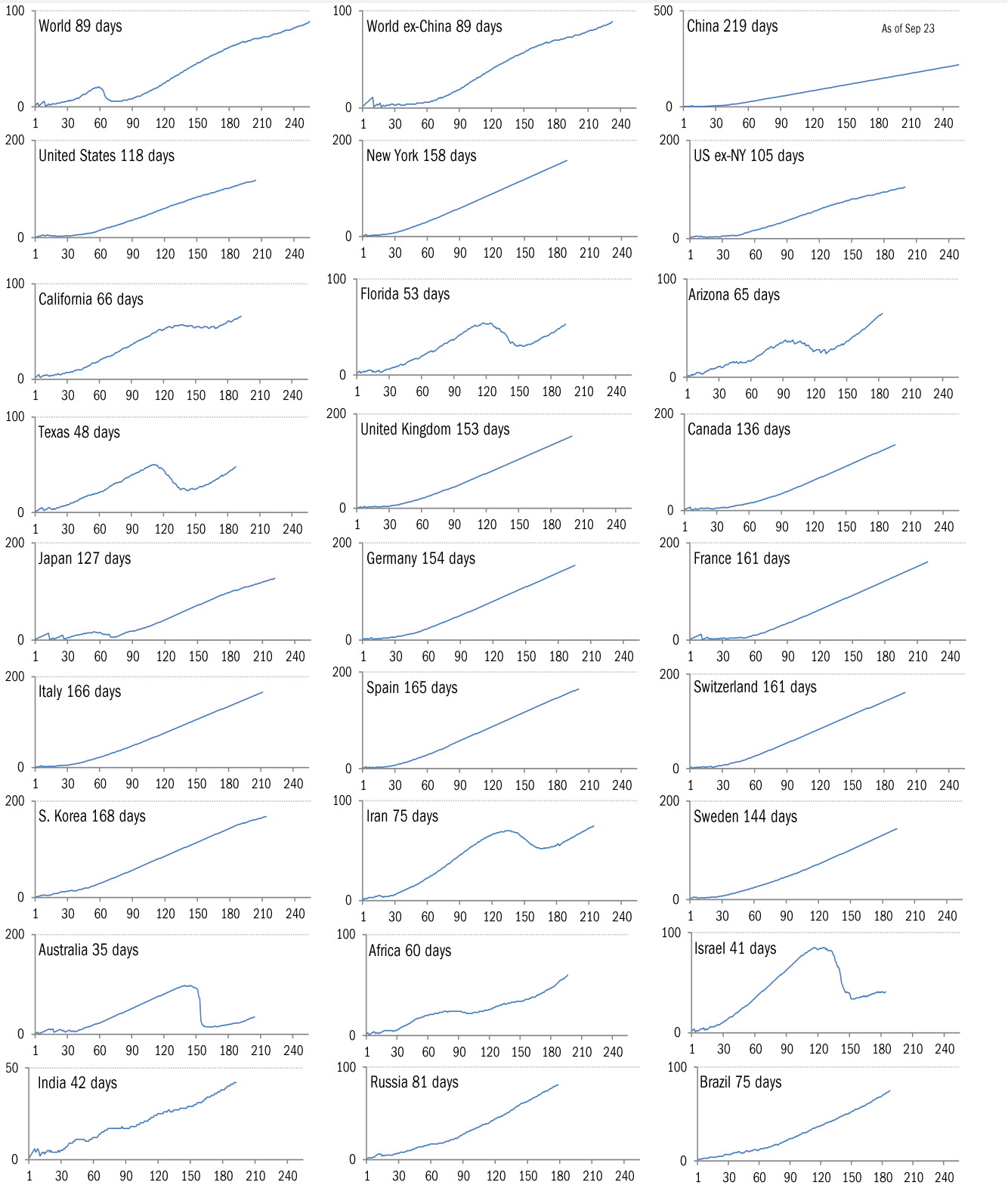


Source: ECDC, TrendMacro calculations

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

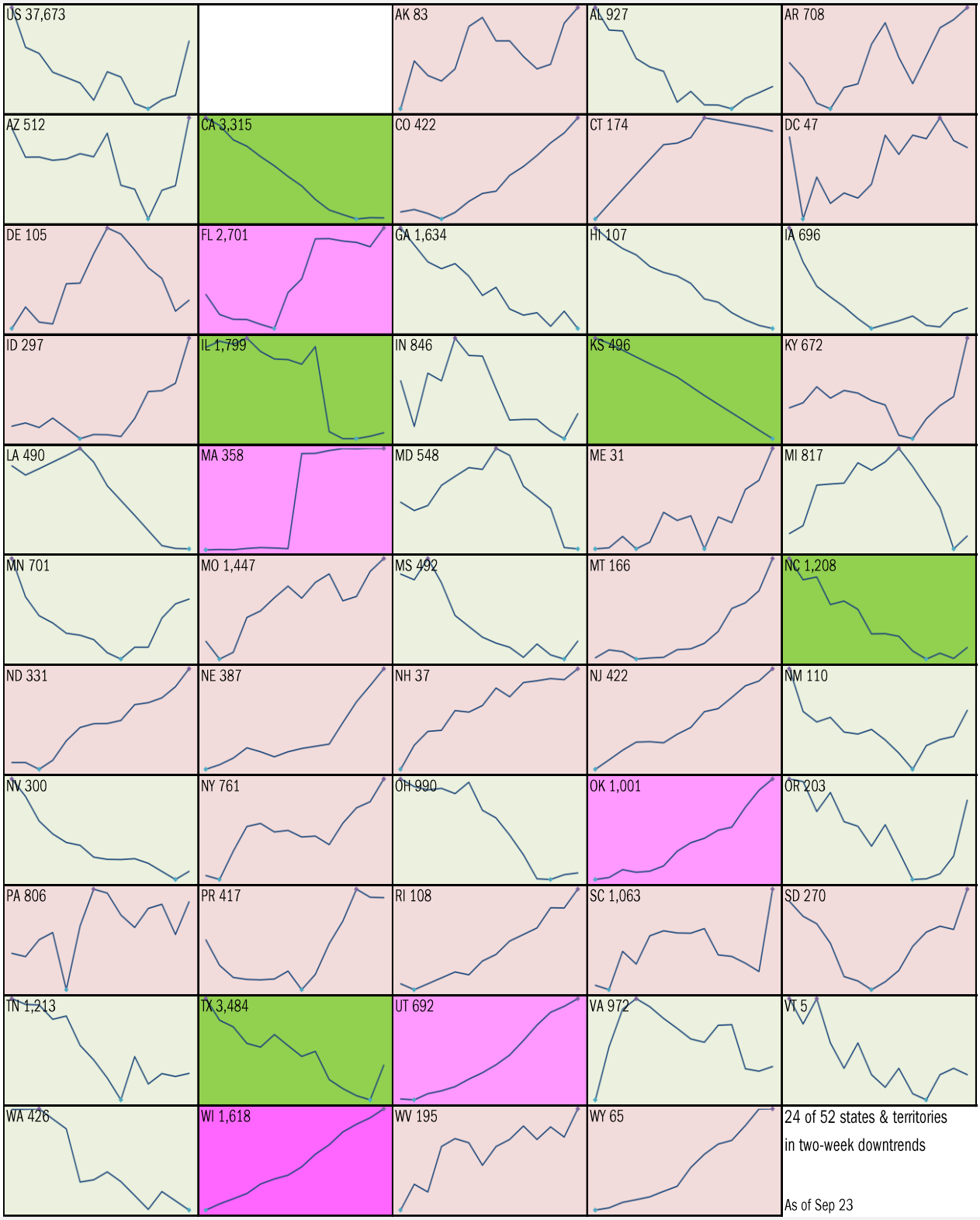


Source: ECDC, TrendMacro calculations

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

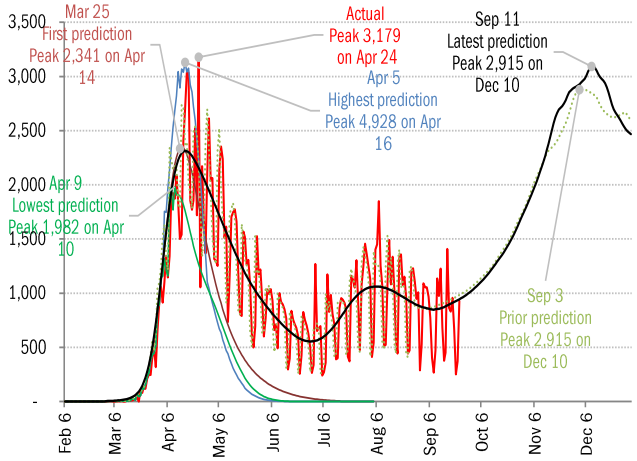
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

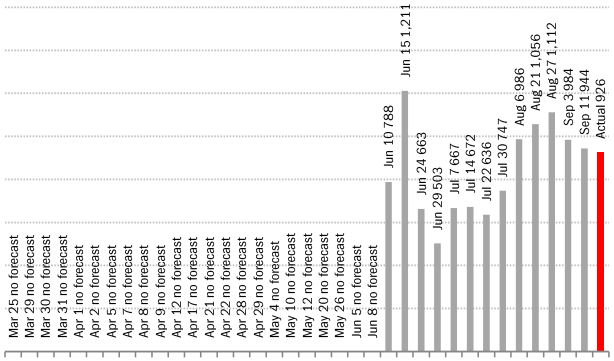
Reality-checking the models: actuals versus IHME predictions

New daily fatalities As of Sep 23

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

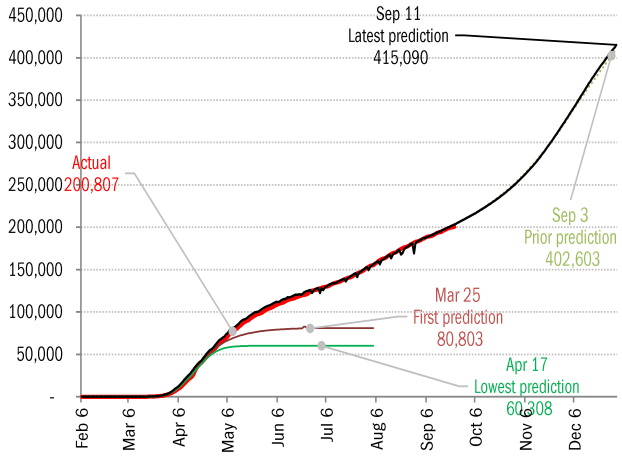


For this day, versus all model mean predictions

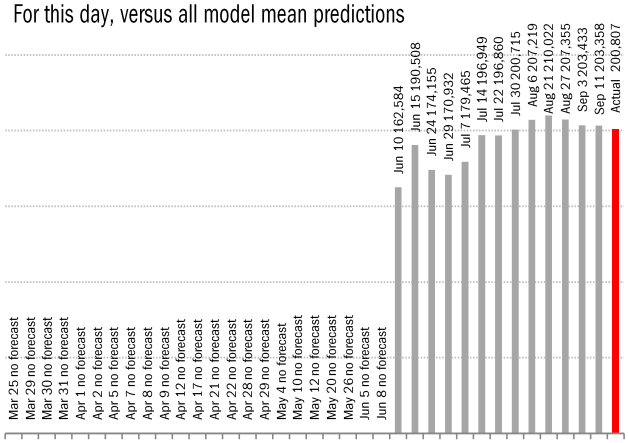


Cumulative fatalities

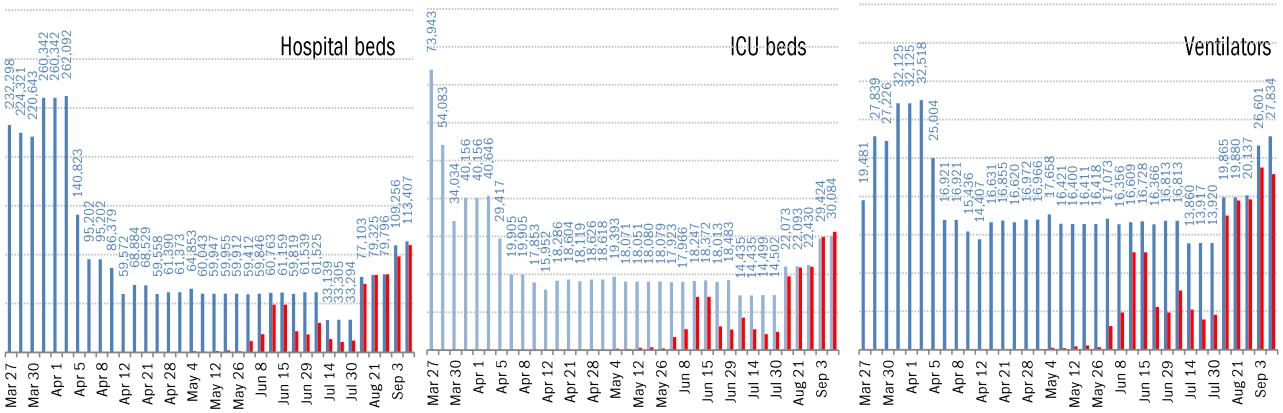
Actual versus first, highest, lowest and latest model mean predictions



For this day, versus all model mean predictions

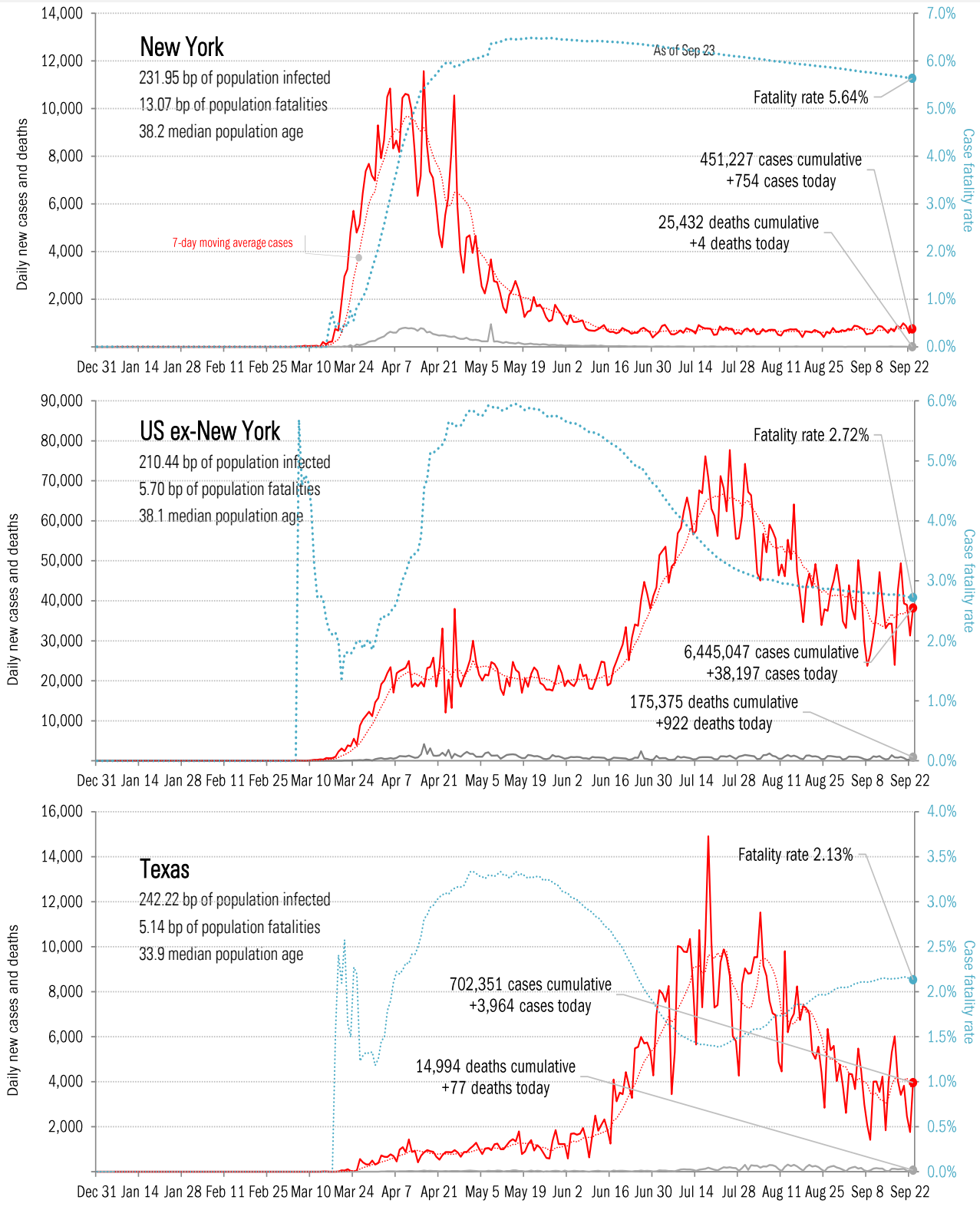


Healthcare system stress, peak and ultimate estimated at each model revision



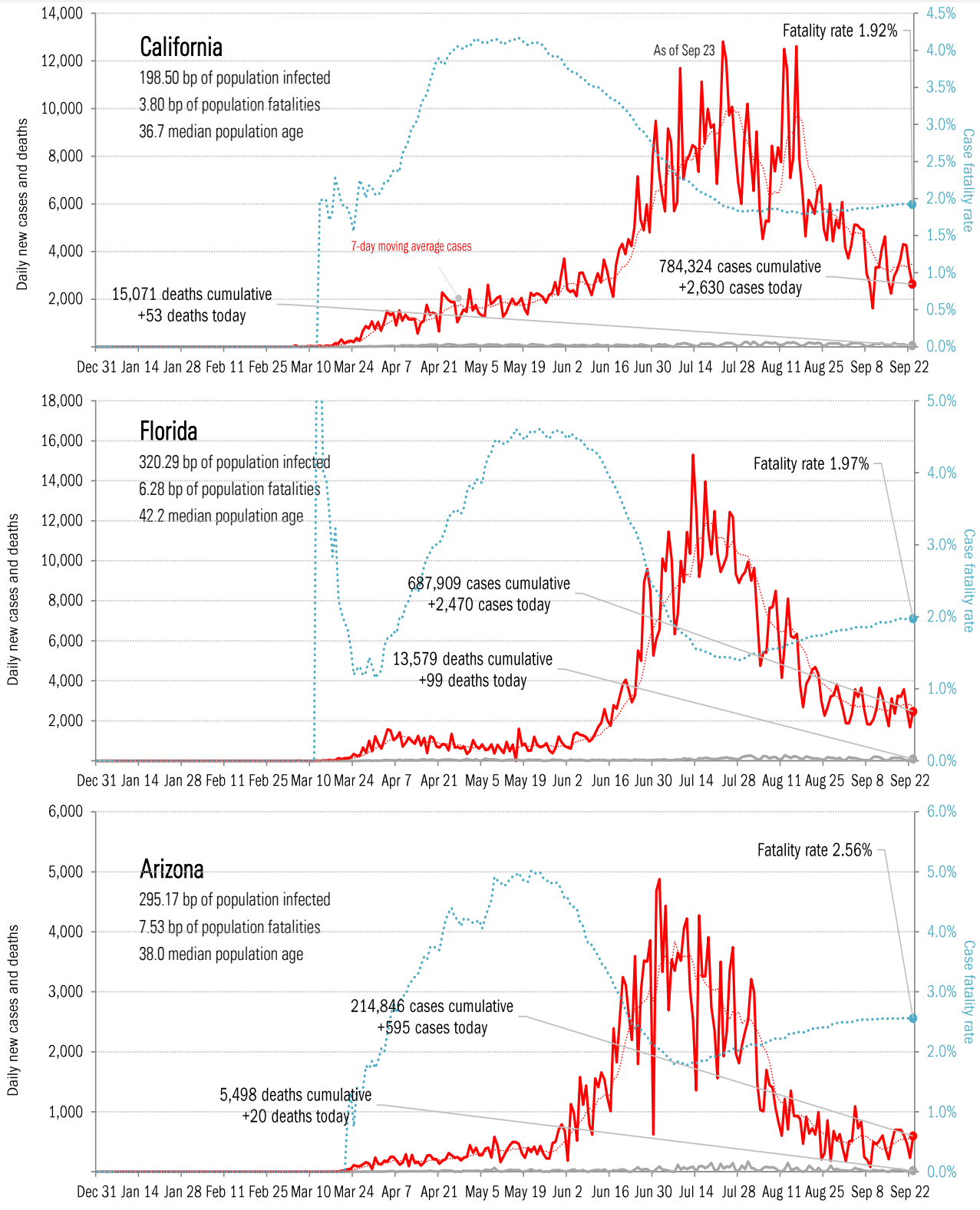
Source: ECDC, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



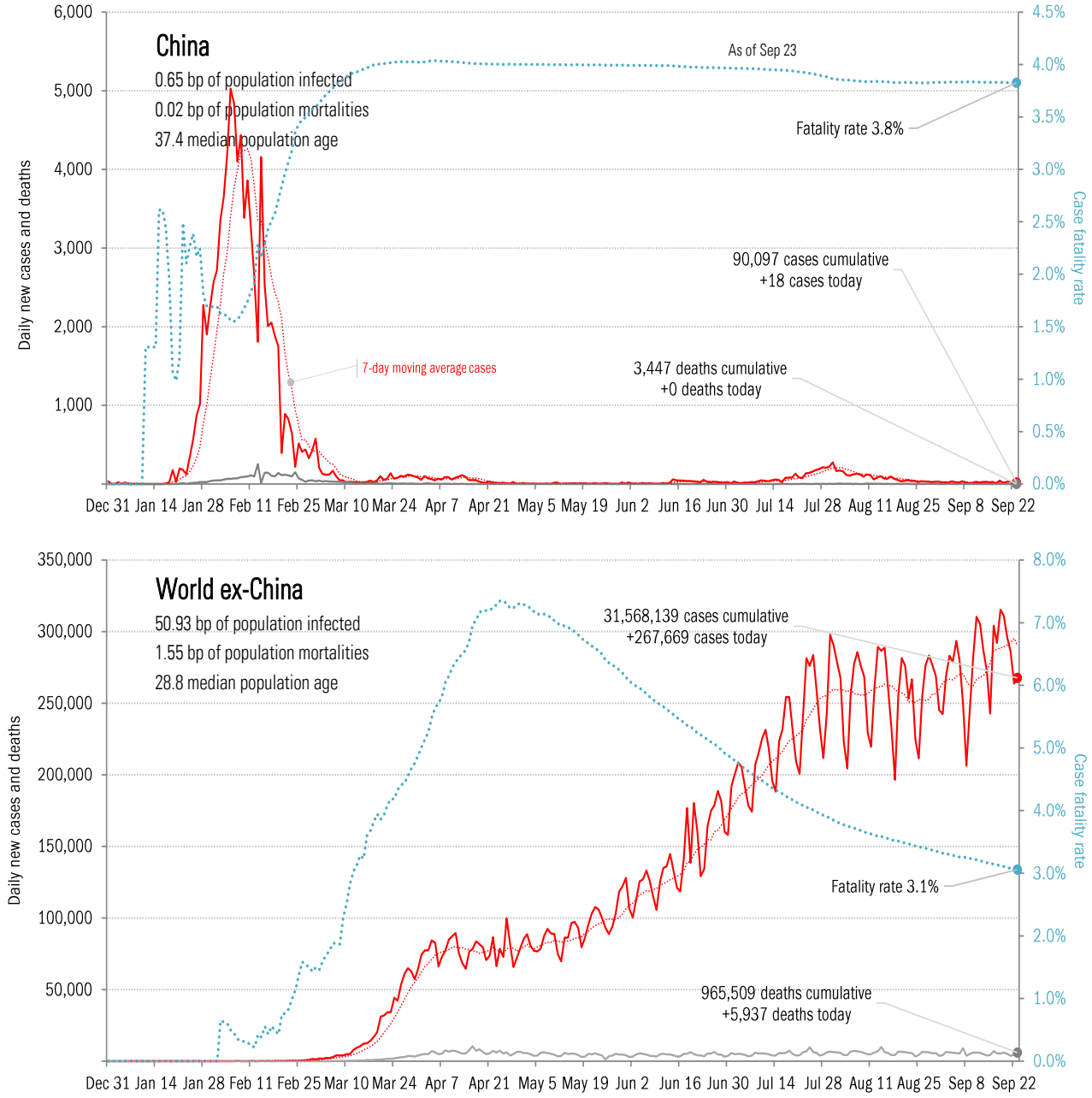
Source: ECDC, TrendMacro calculations

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



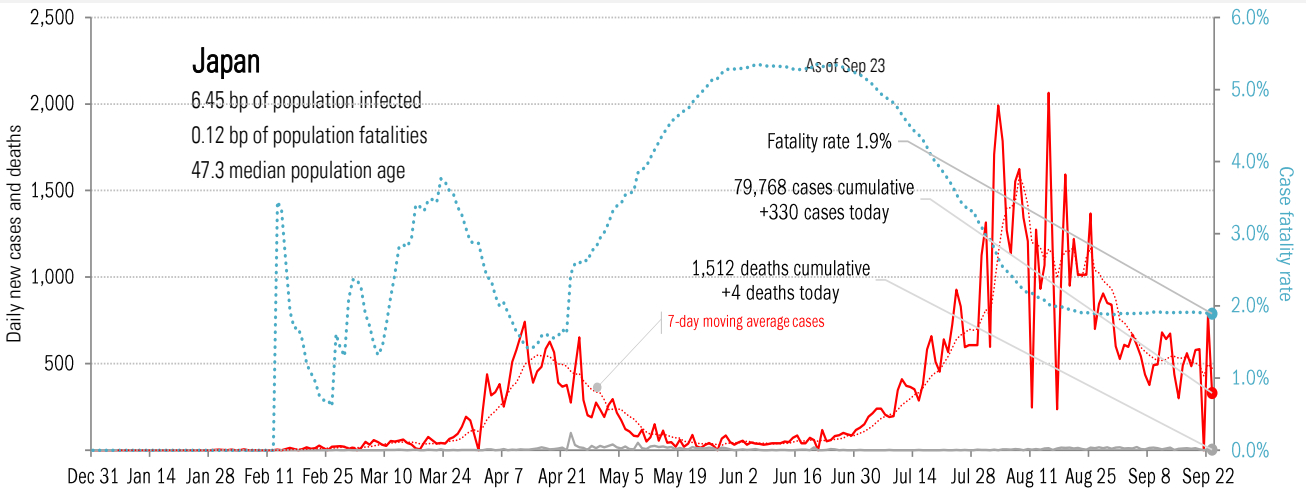
Source: ECDC, TrendMacro calculations

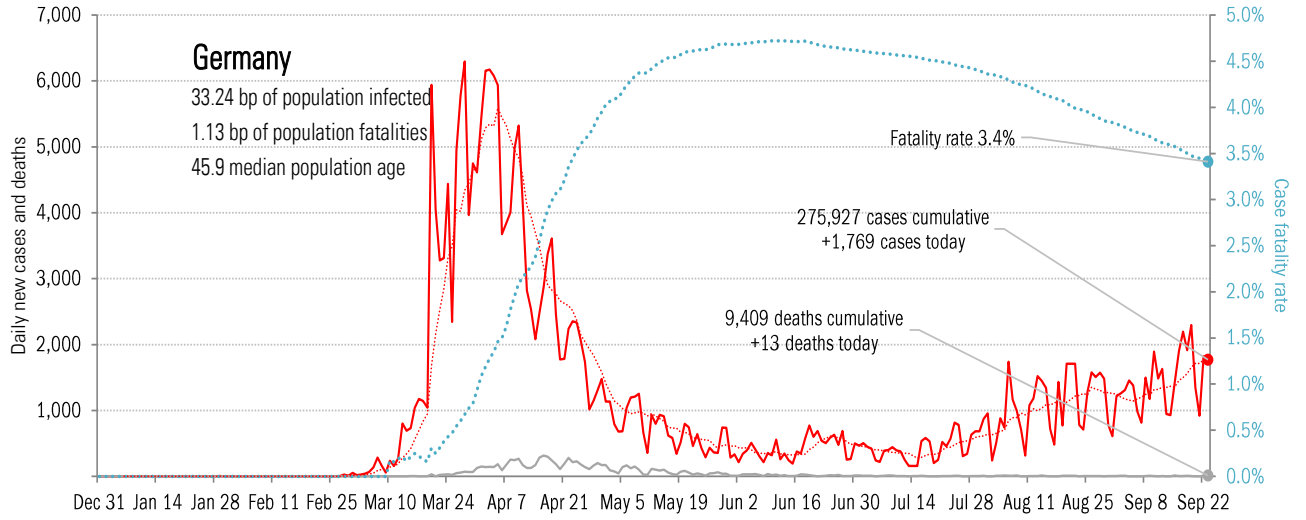
Patient zero… and then everyone else

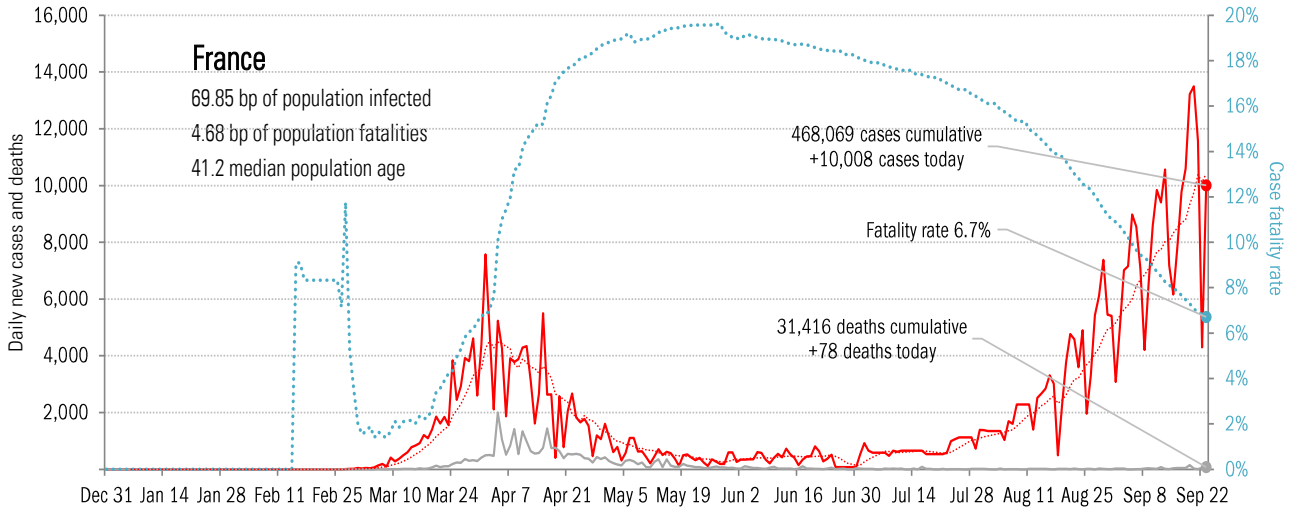


Source: ECDC, TrendMacro calculations

Impact in the largest economies

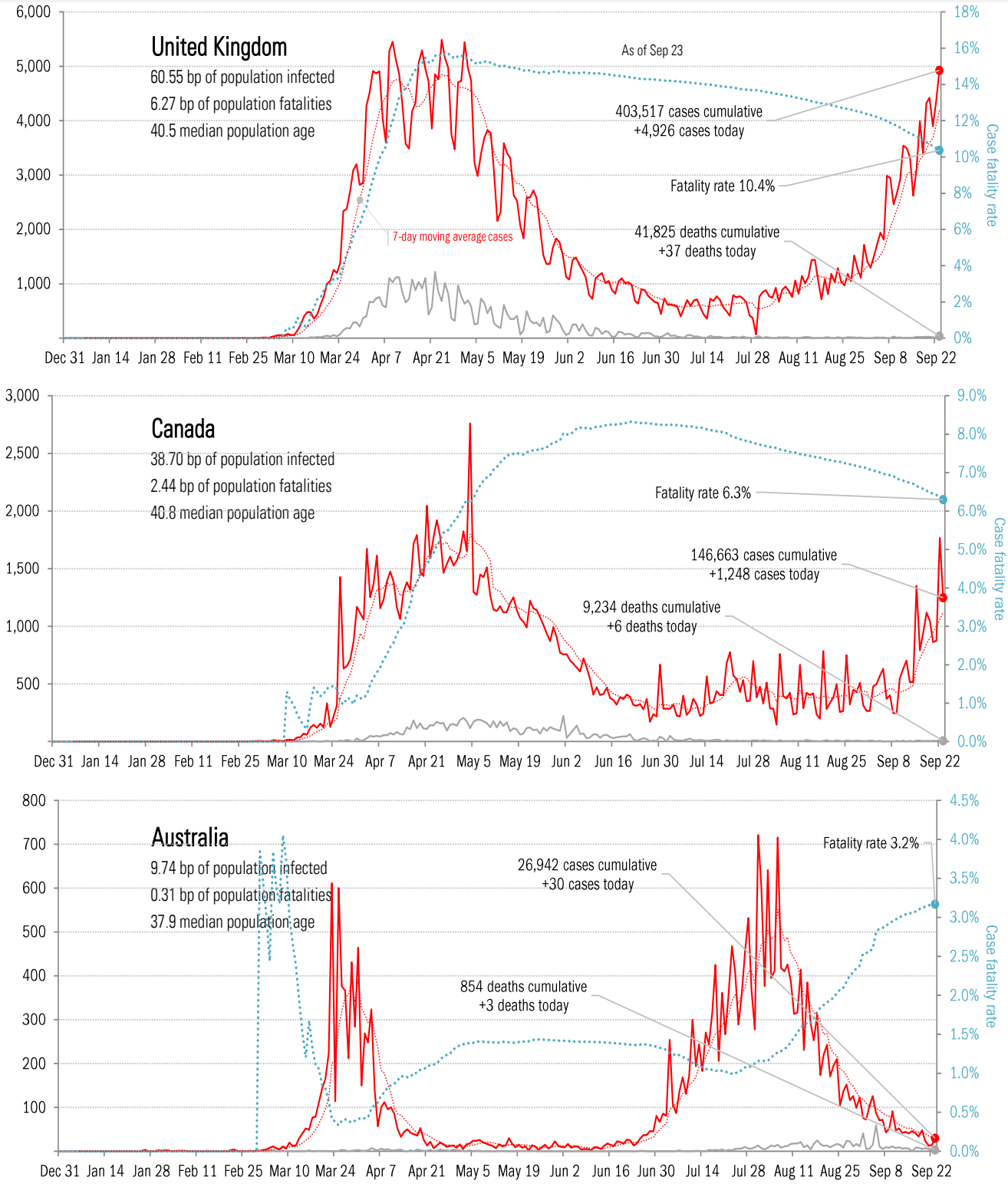






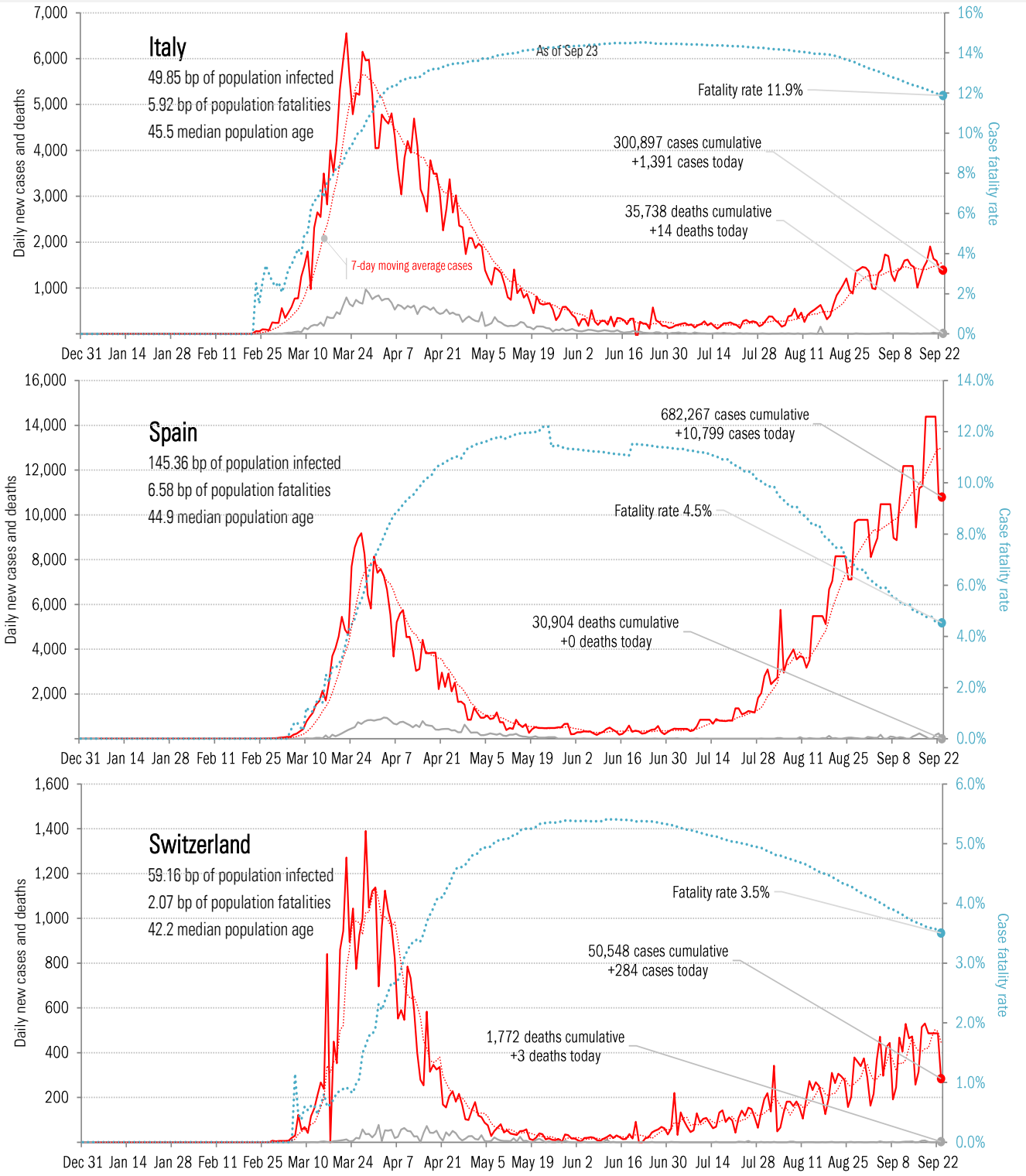
Source: ECDC, TrendMacro calculations

Impact in The Anglosphere



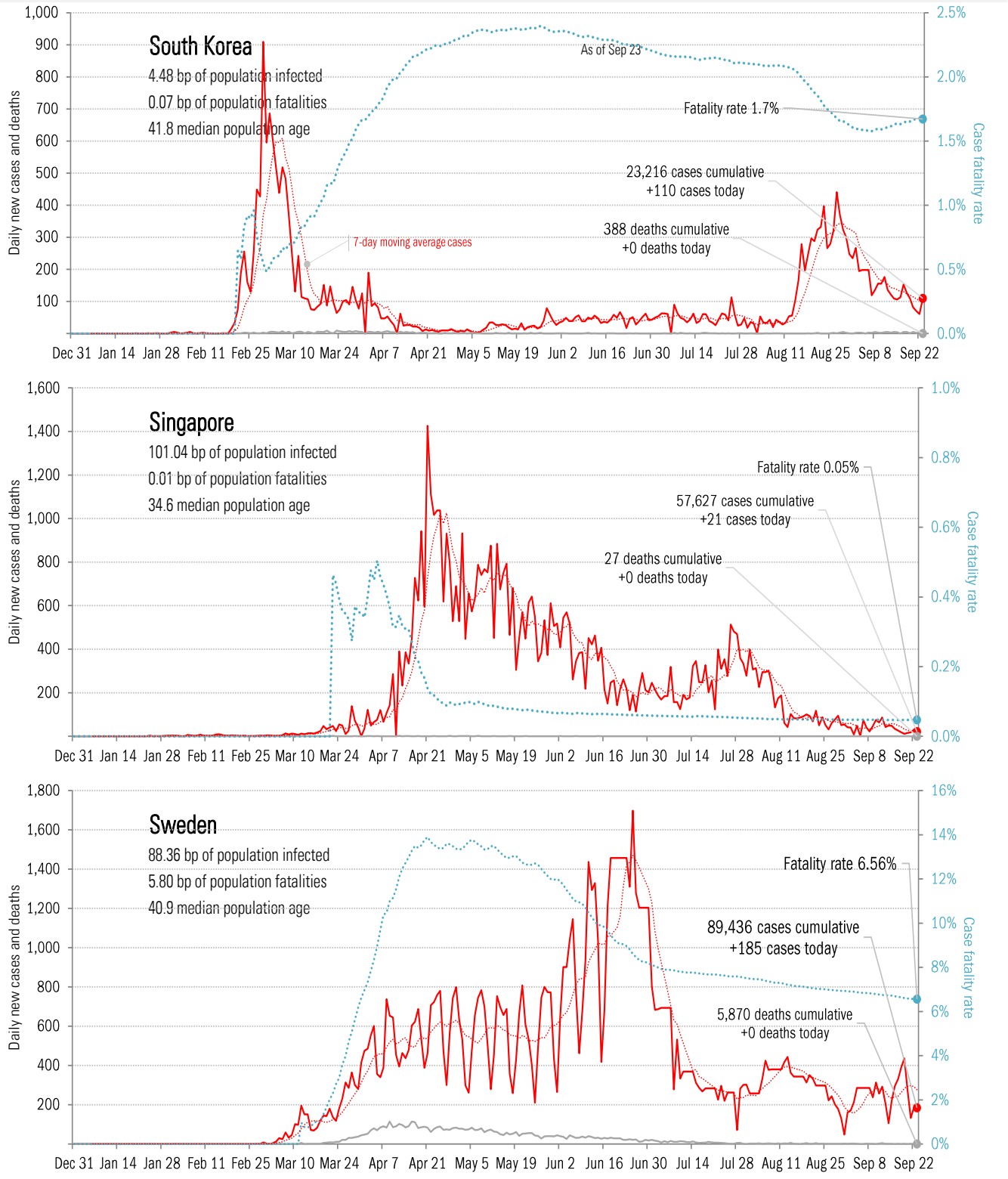
Source: ECDC, TrendMacro calculations

Impact in continental Europe



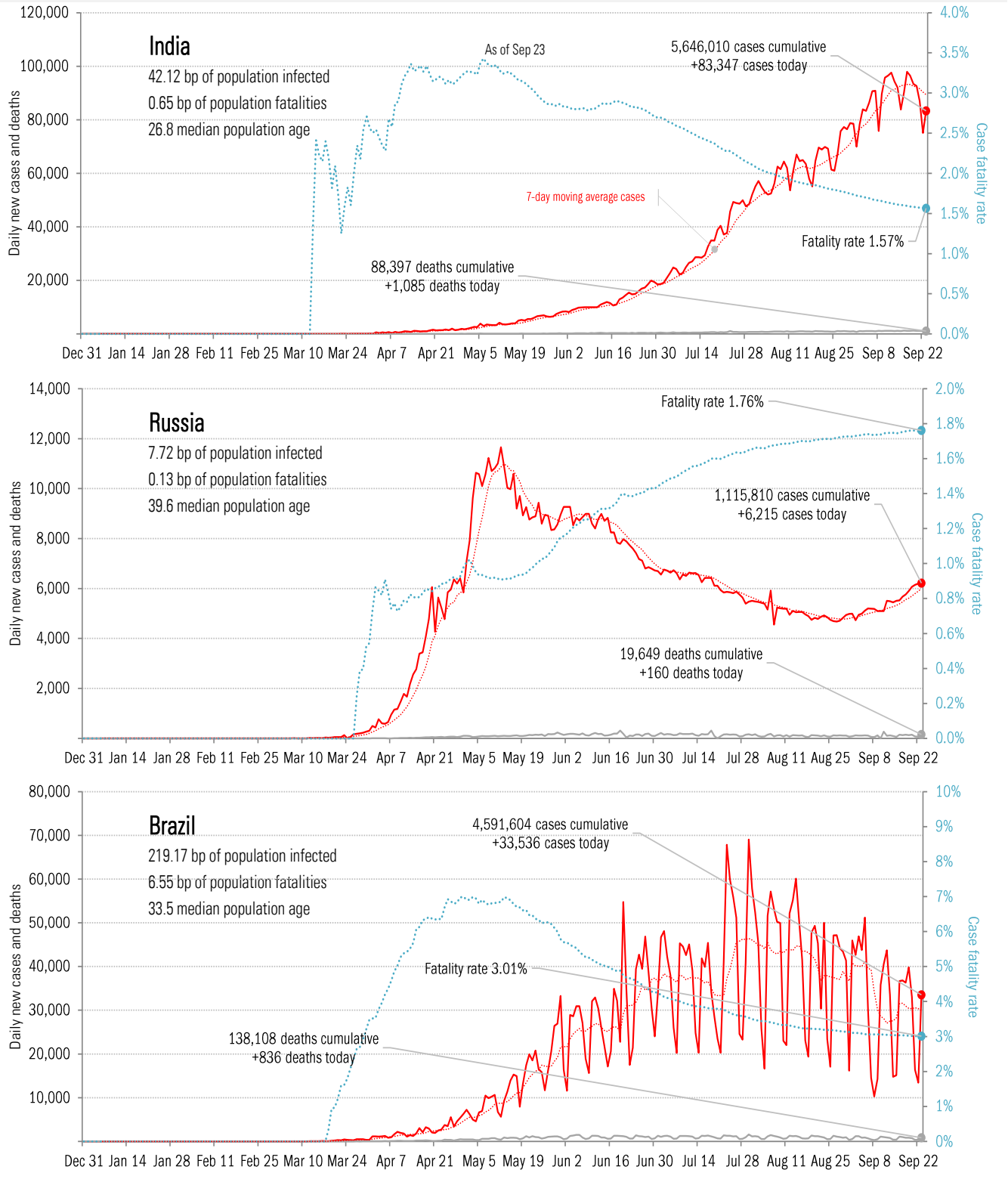
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



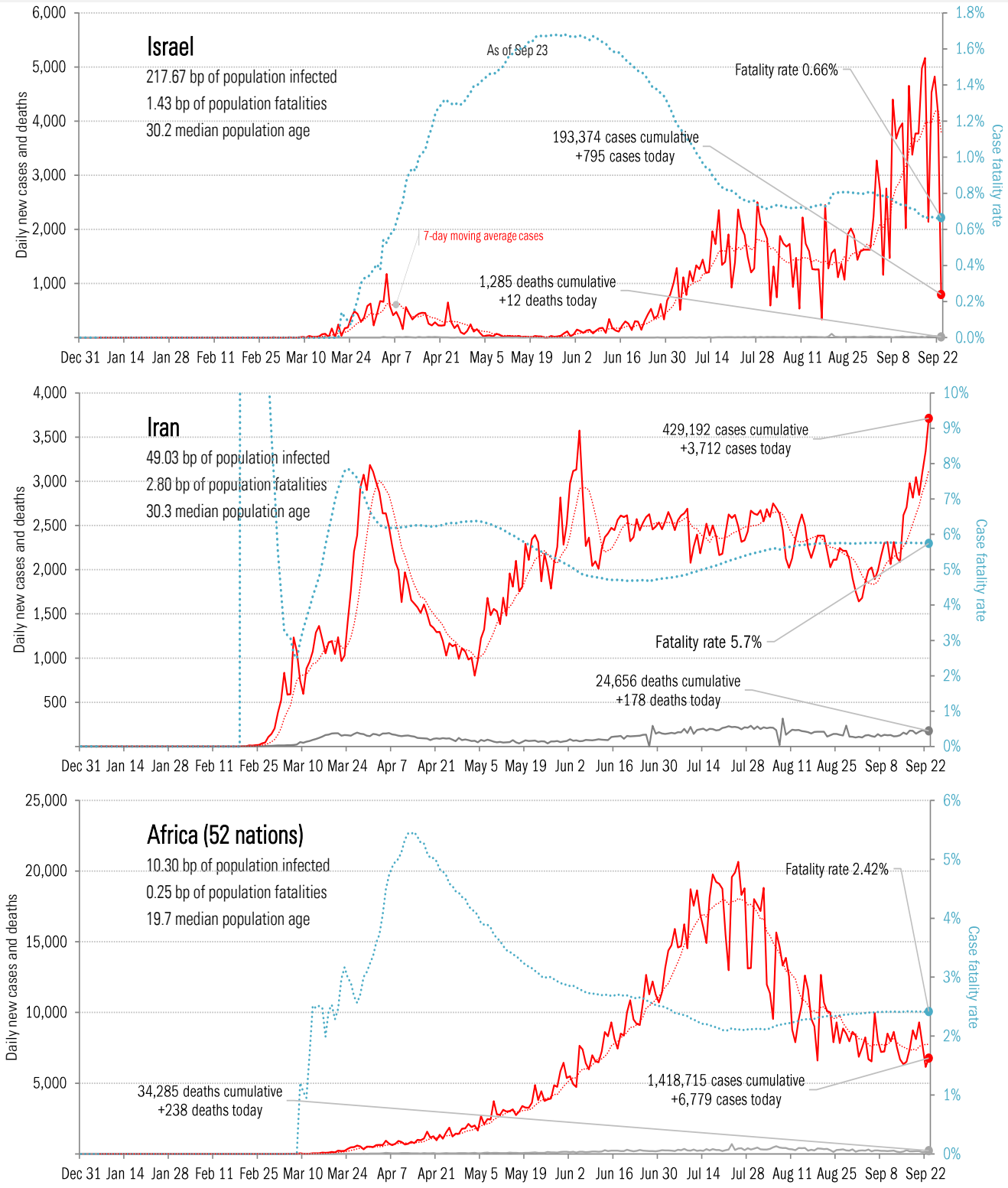
Source: ECDC, TrendMacro calculations

Impact in the BRICs ex-China



Source: ECDC, TrendMacro calculations

Impact in the Middle East and Africa



Source: ECDC, TrendMacro calculations