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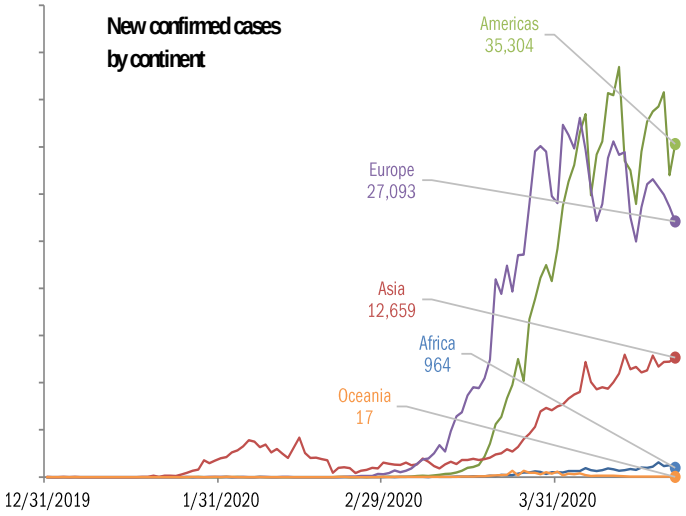
Data Insights: Covid-2019 Monitor

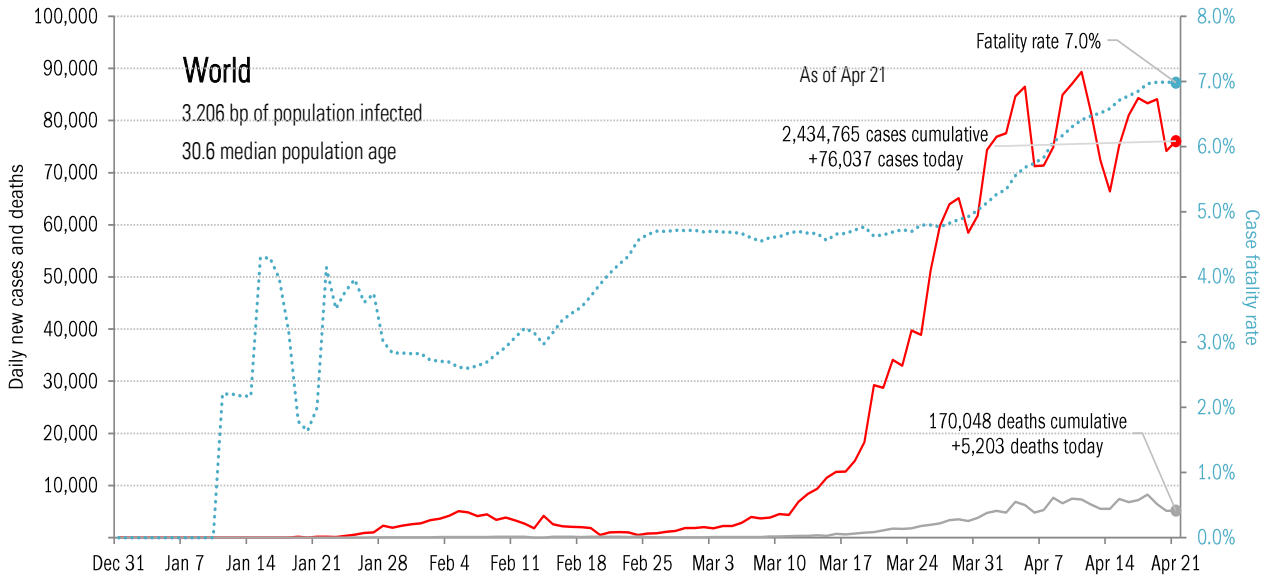
Tuesday, April 21, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
US	+28,065	US	+1,857
UK	+4,676	France	+547
Turkey	+4,674	Italy	+454
Russia	+4,268	UK	+449
Spain	+4,266	Spain	+399
Italy	+2,256	Germany	+194
France	+2,051	Belgium	+145
Canada	+2,046	Turkey	+123
Brazil	+1,927	Brazil	+113
Germany	+1,785	Canada	+110
	+56,014		+4,391
World	+76,037	World	+5,203
Top ten	74%	Top ten	84%





Source: ECDC, TrendMacro calculations

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The US scorecard

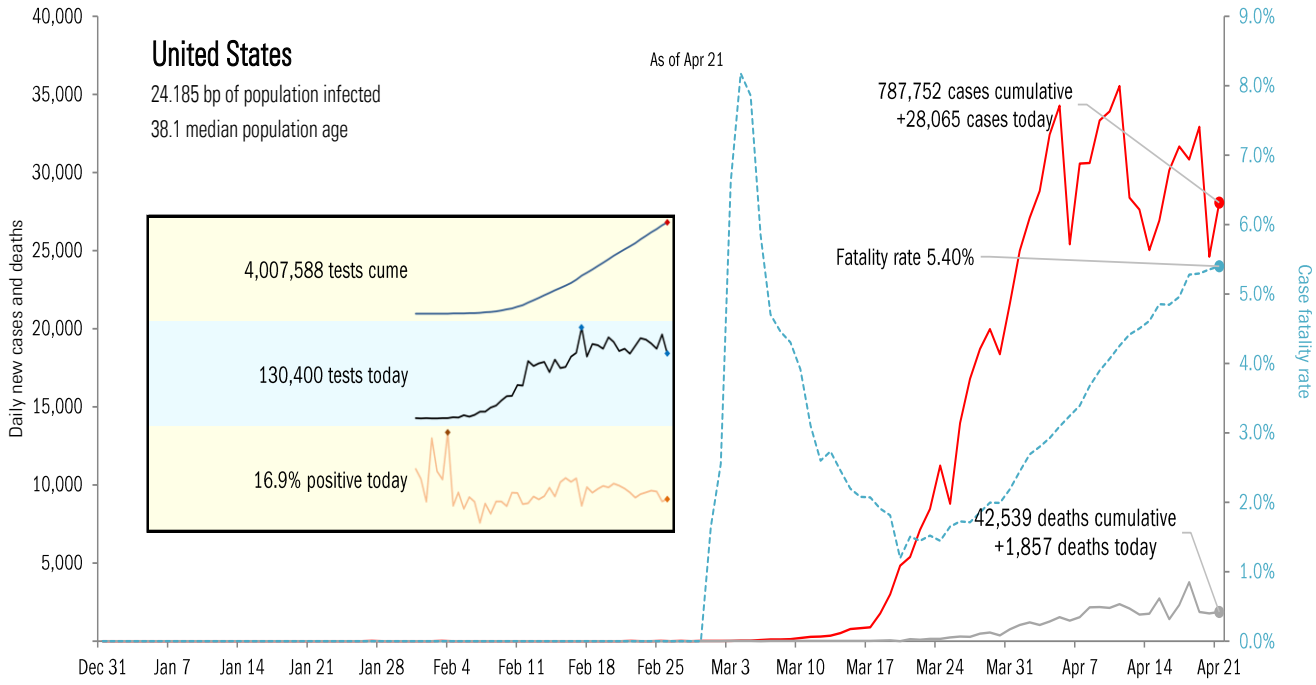
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
NY	+4,726	NY	+478	NY	+1,380	NY	247,512	NY	14,347	NY	57,103
NJ	+3,505	CT	+245	MD	+128	NJ	88,806	NJ	4,377	FL	4,010
CT	+2,265	NJ	+175	OH	+88	MA	38,077	MI	2,468	GA	3,550
OH	+1,224	PA	+92	GA	+86	PA	33,232	MA	1,706	MD	3,014
IL	+1,151	MI	+77	FL	+80	MI	32,000	IL	1,349	OH	2,653
PA	+948	IL	+59	VA	+78	IL	31,508	CT	1,331	CO	1,813
MD	+854	GA	+46	MN	+28	CA	30,978	LA	1,328	VA	1,500
FL	+664	CA	+42	WI	+21	FL	26,660	CA	1,208	WI	1,211
GA	+646	OH	+38	CO	+16	LA	24,523	PA	1,204	KY	1,059
CA	+645	LA	+32	NM	+16	CT	19,815	FL	806	MS	819
	+16,628		+1,284		+1,921		573,111		30,124		76,732
All states	+23,321	All states	+1,528	All states	+1,998	All states	772,524	All states	37,321	All states	82,879
Top ten	71%	Top ten	84%	Top ten	96%	Top ten	74%	Top ten	81%	Top ten	93%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
MA	-1,705	PA	-184	KY	-51	TX	+372
NY	-1,328	MA	-146	VA	-48	TN	+231
CA	-725	CA	-52	CO	-26	AZ	+161
NJ	-376	NY	-29	AL	-21	UT	+97
WA	-369	WA	-11	MS	-15	ID	+65



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

Recommended reading

[The United States Oil Fund mystery, revived]
Izabella Kaminska
Financial Times
April 21, 2020

[USC-LA County Study: Early Results of Antibody Testing Suggest Number of COVID-19 Infections Far Exceeds Number of Confirmed Cases in Los Angeles County]
County of Los Angeles Public Health
April 20, 2020

[Who Is John Ioannidis?]
Edward Peter Stringham
American Institute for Economic Research
April 19, 2020

[Suspend the Payroll Tax]
Steve Forbes and Arthur Laffer
Wall Street Journal
April 19, 2020

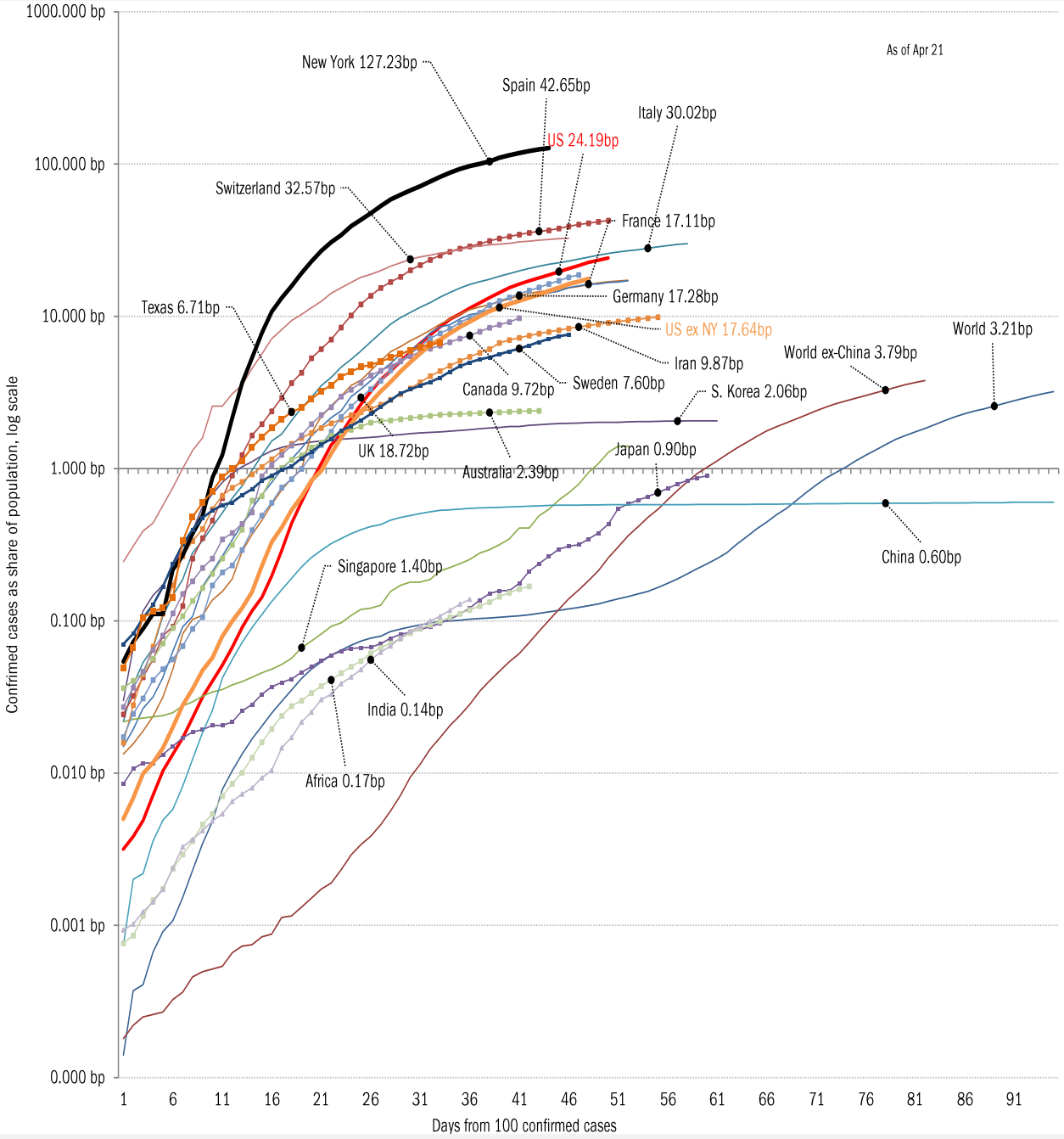
[Danish health agency says 400,000 could have been infected]
The Local DK
April 8, 2020

Meme of the day

Source: Our beloved clients, and [Power Line blog "The Week in Cartoons"]

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

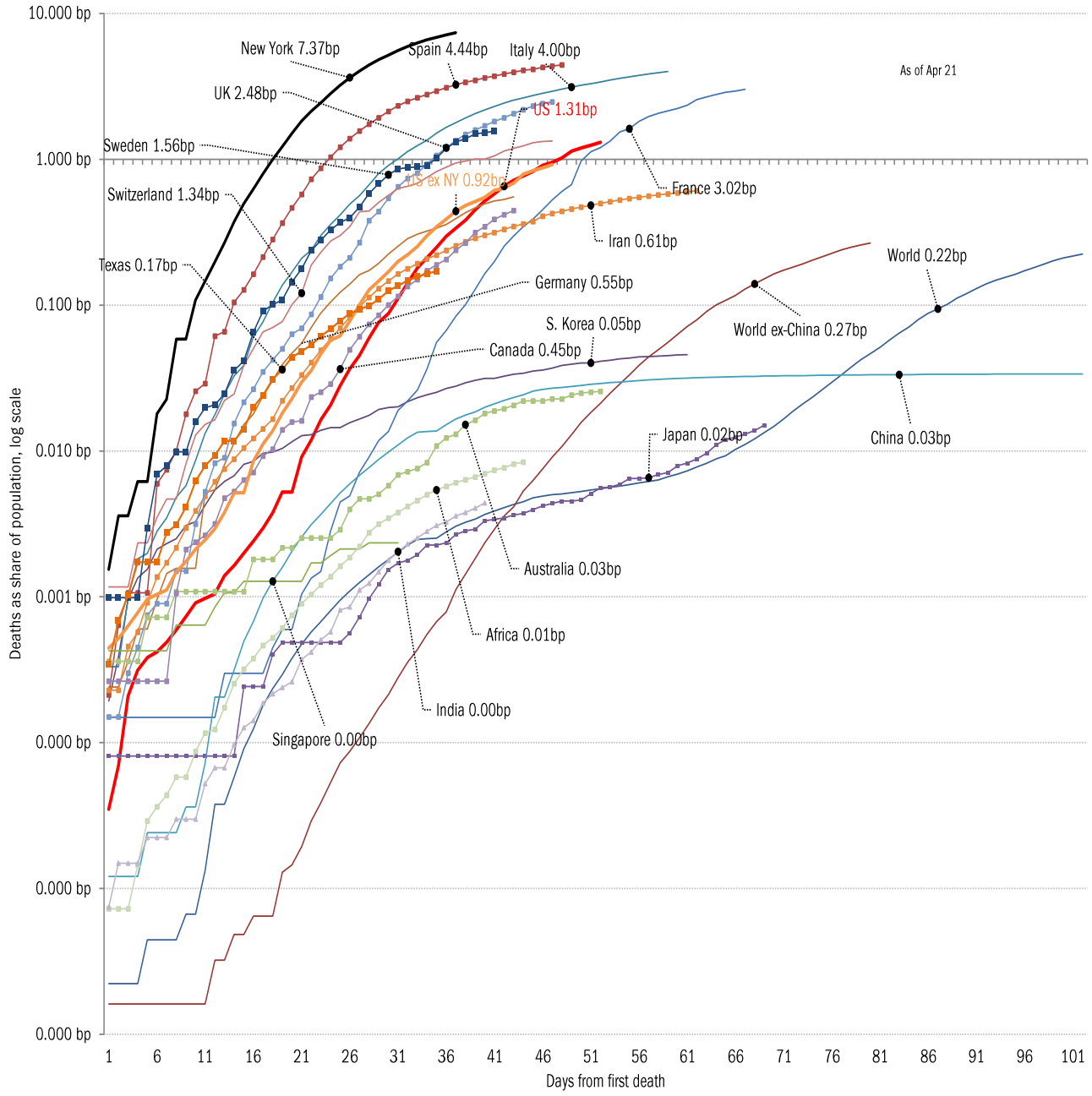
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

Share of deceased population from day of first fatality



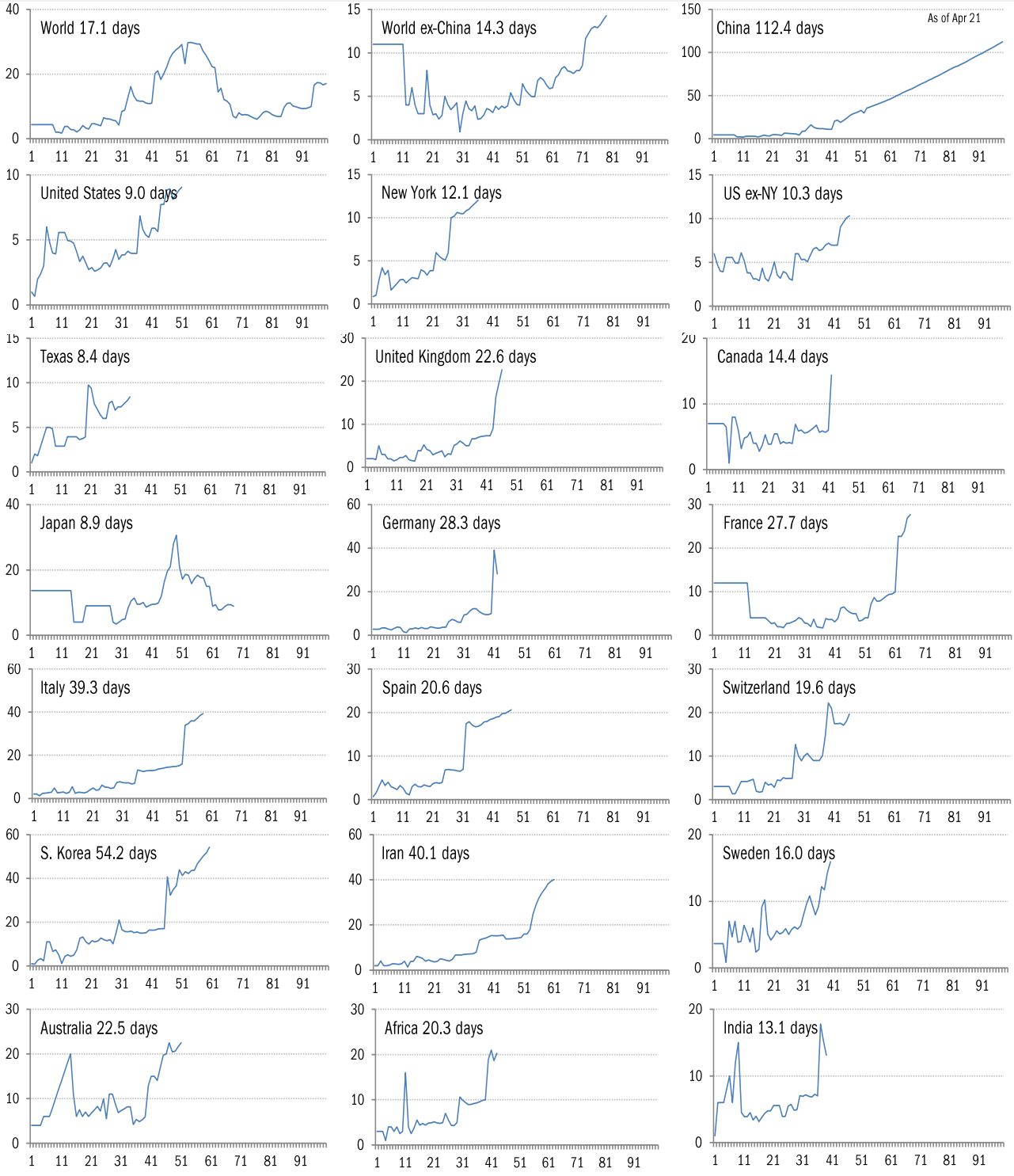
Source: ECDC, TrendMacro calculations

Our most reliable evidence of slowing the Moore's law of Covid-2019

Vertical: number of days it takes to double deaths Horizontal: days from first death

Progress means seeing the line move up and to the right…

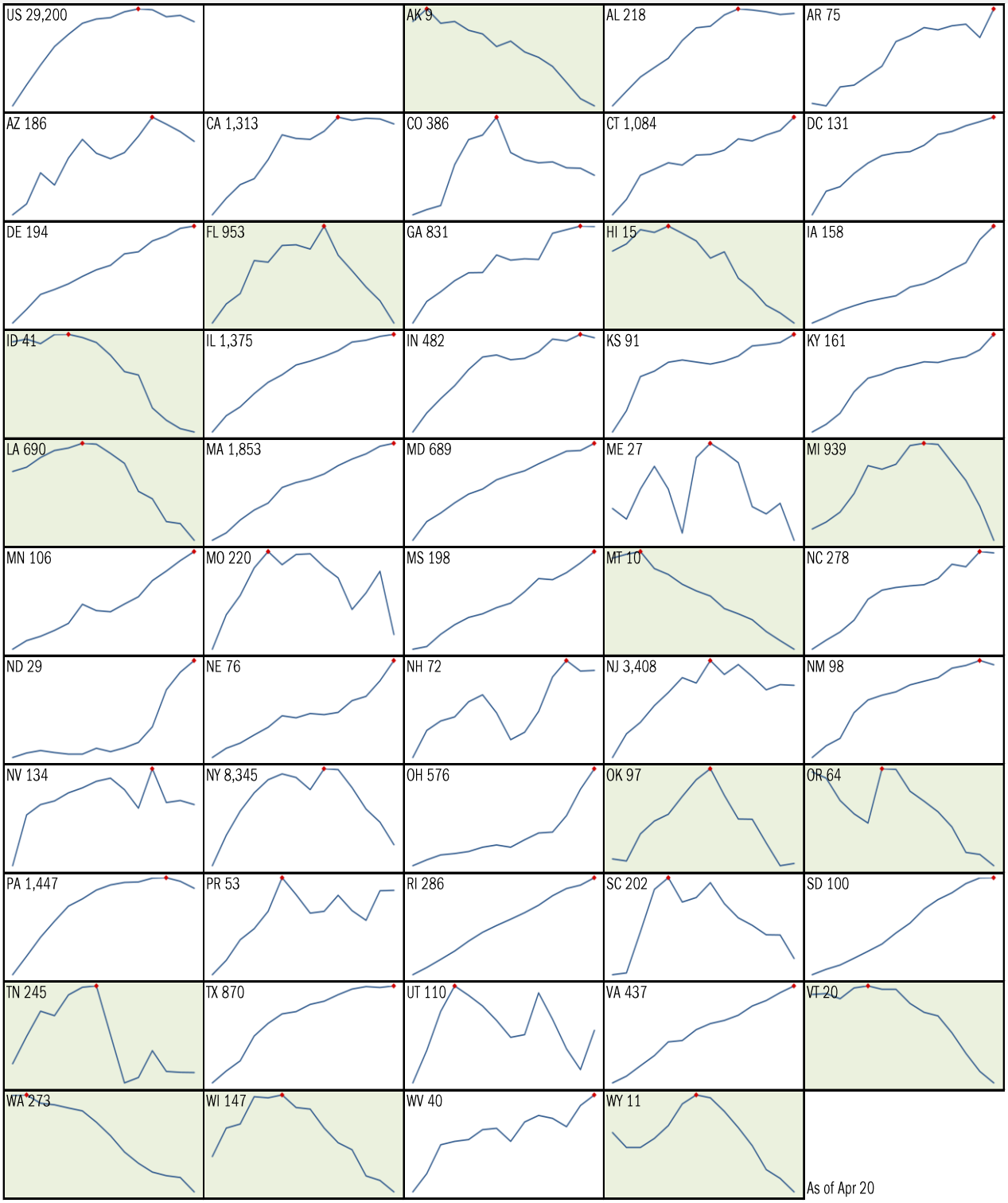
Extrapolated between actual doubling points. The most anomalous extrapolations are smoothed.



Source: ECDC, TrendMacro calculations

Requirement to Open Up America Again: ■ 14-day "downward trajectory" in new cases

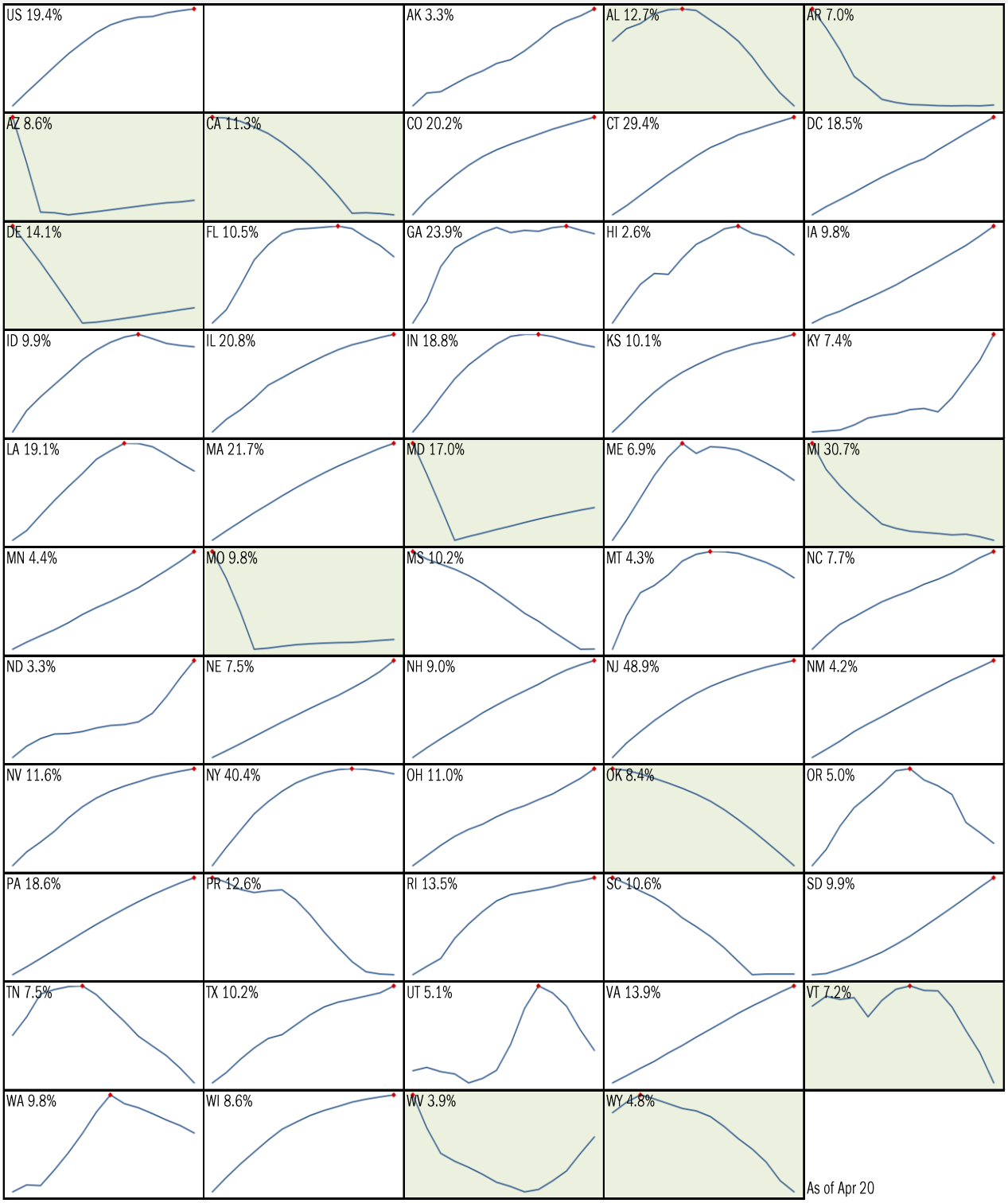
14-day moving average, last 14 days *Most recent value displayed*



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*

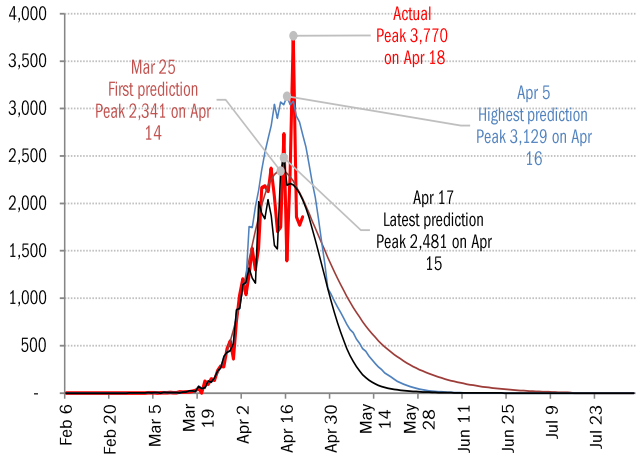


Source: Covid Tracking Project, TrendMacro calculations

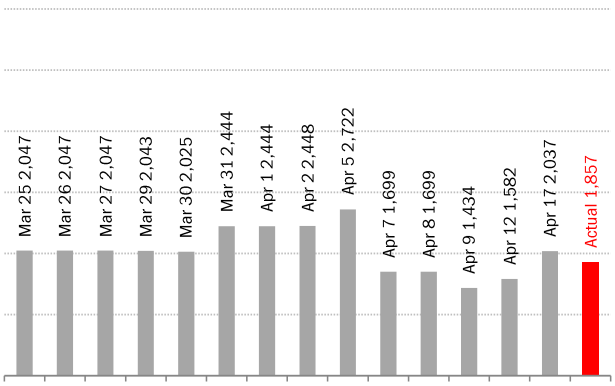
Reality-checking the models: actual fatalities versus IHME predictions

New daily fatalities As of Apr 21

Actual versus first, highest and latest model mean predictions

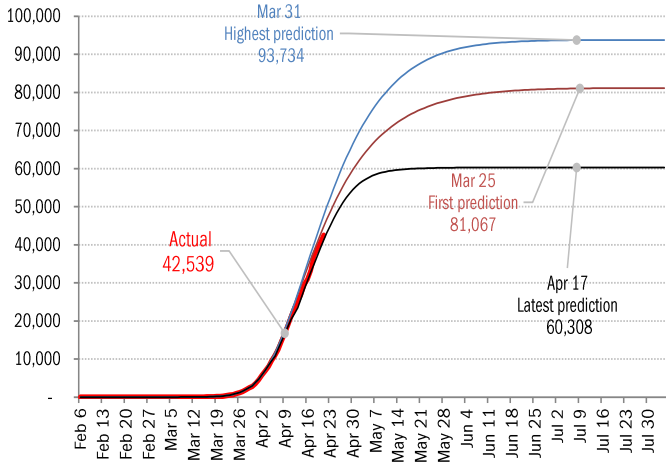


For this day, versus all model mean predictions

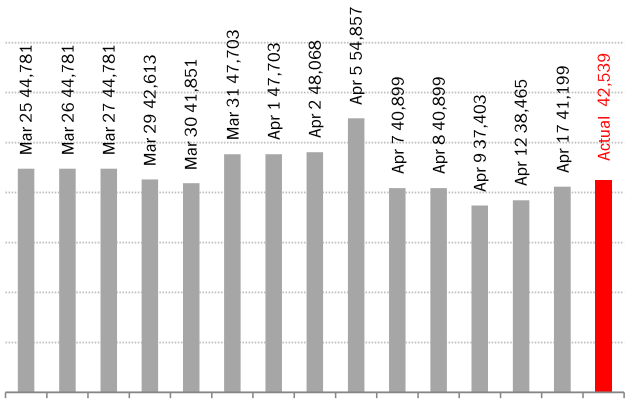


Cumulative fatalities

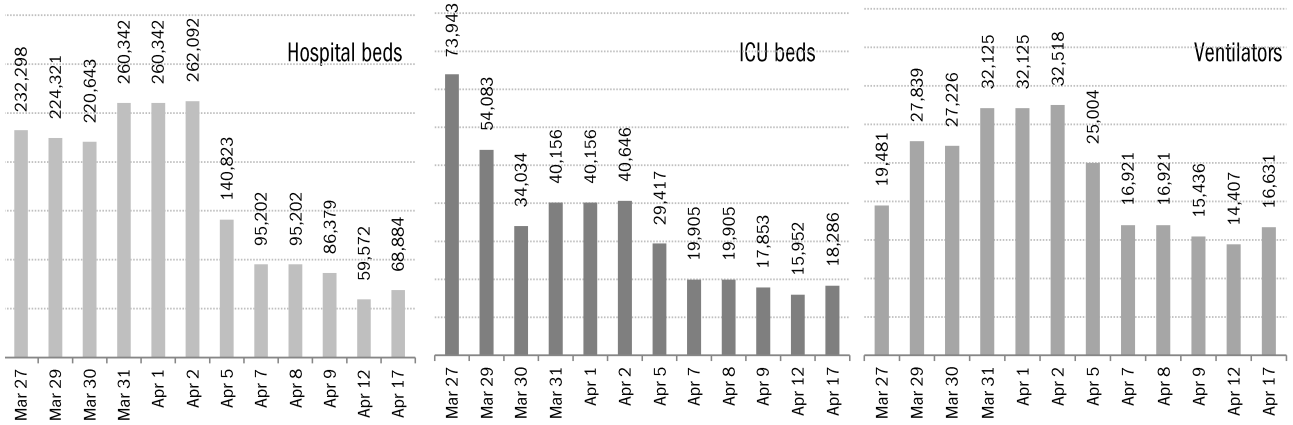
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

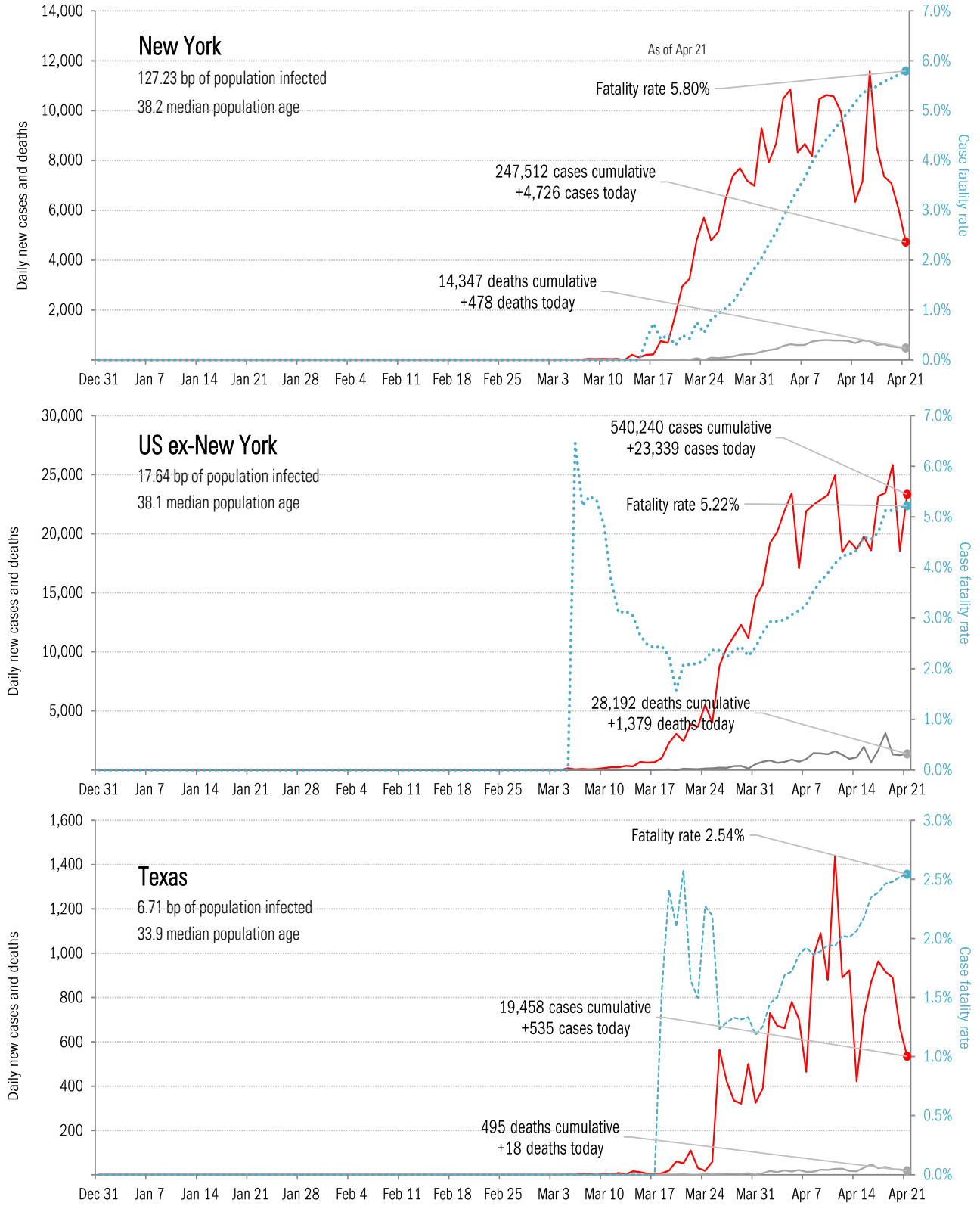


Healthcare system stress, peak estimated at each model revision



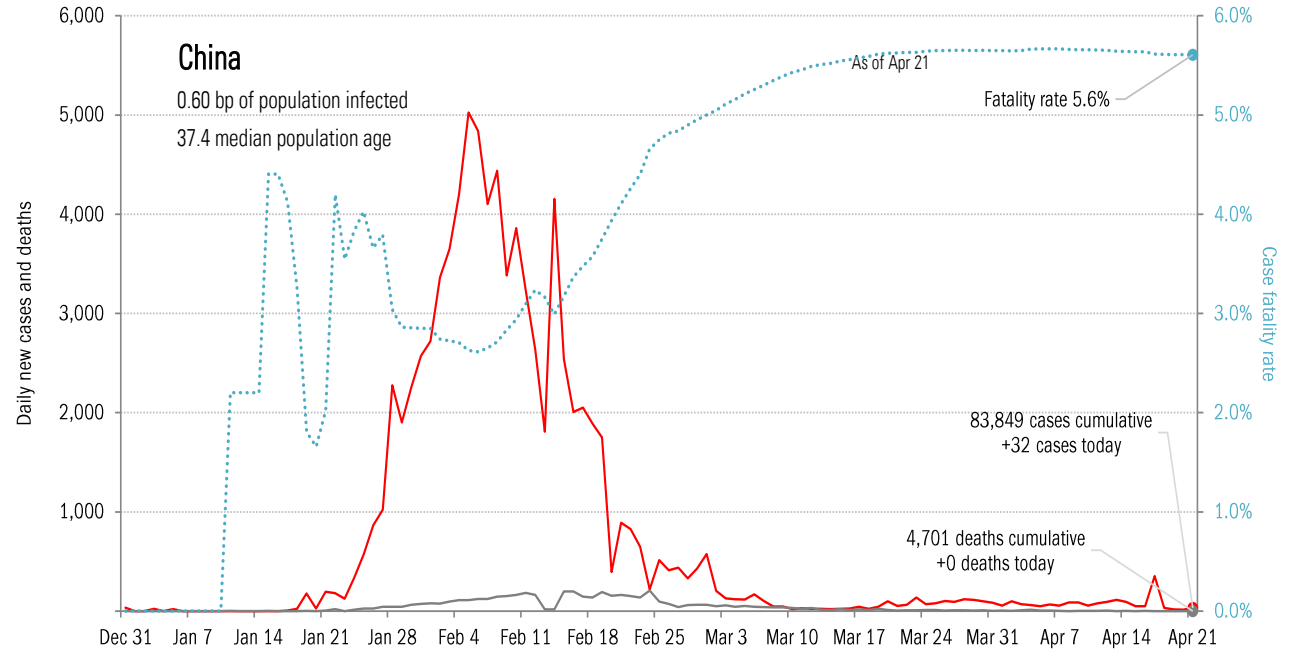
Source: ECDC, TrendMacro calculations

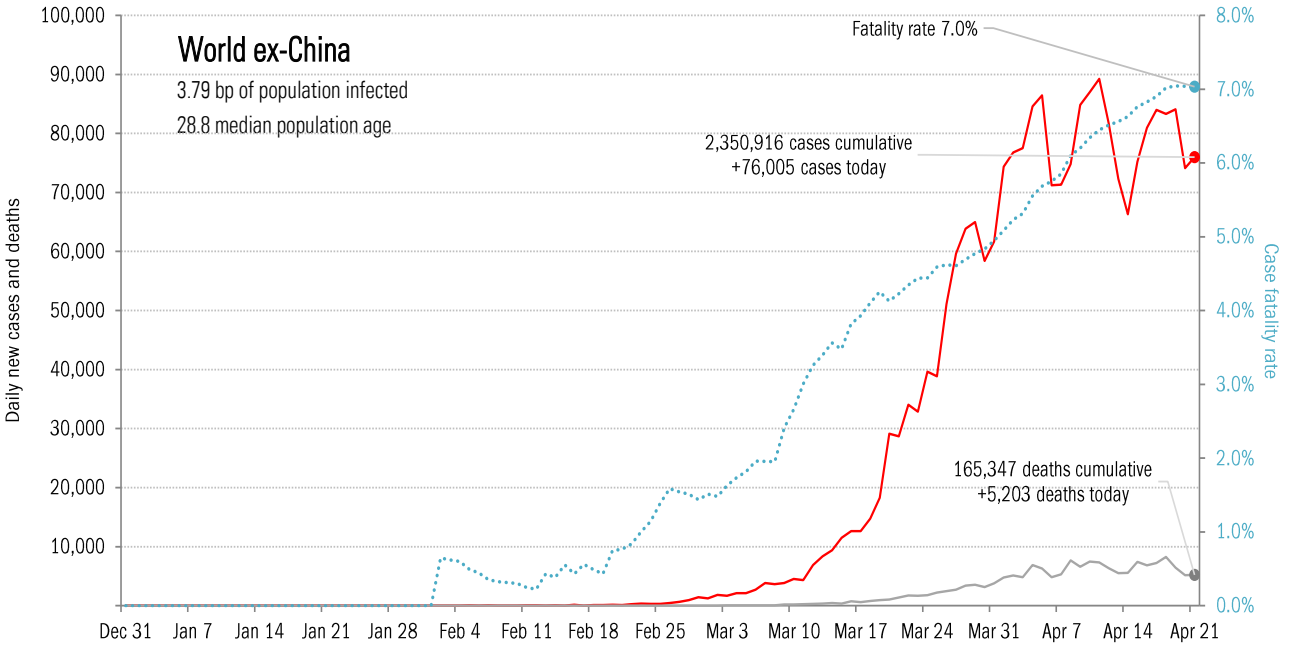
From Ground Zero to the Rio Grande



Source: ECDC, TrendMacro calculations

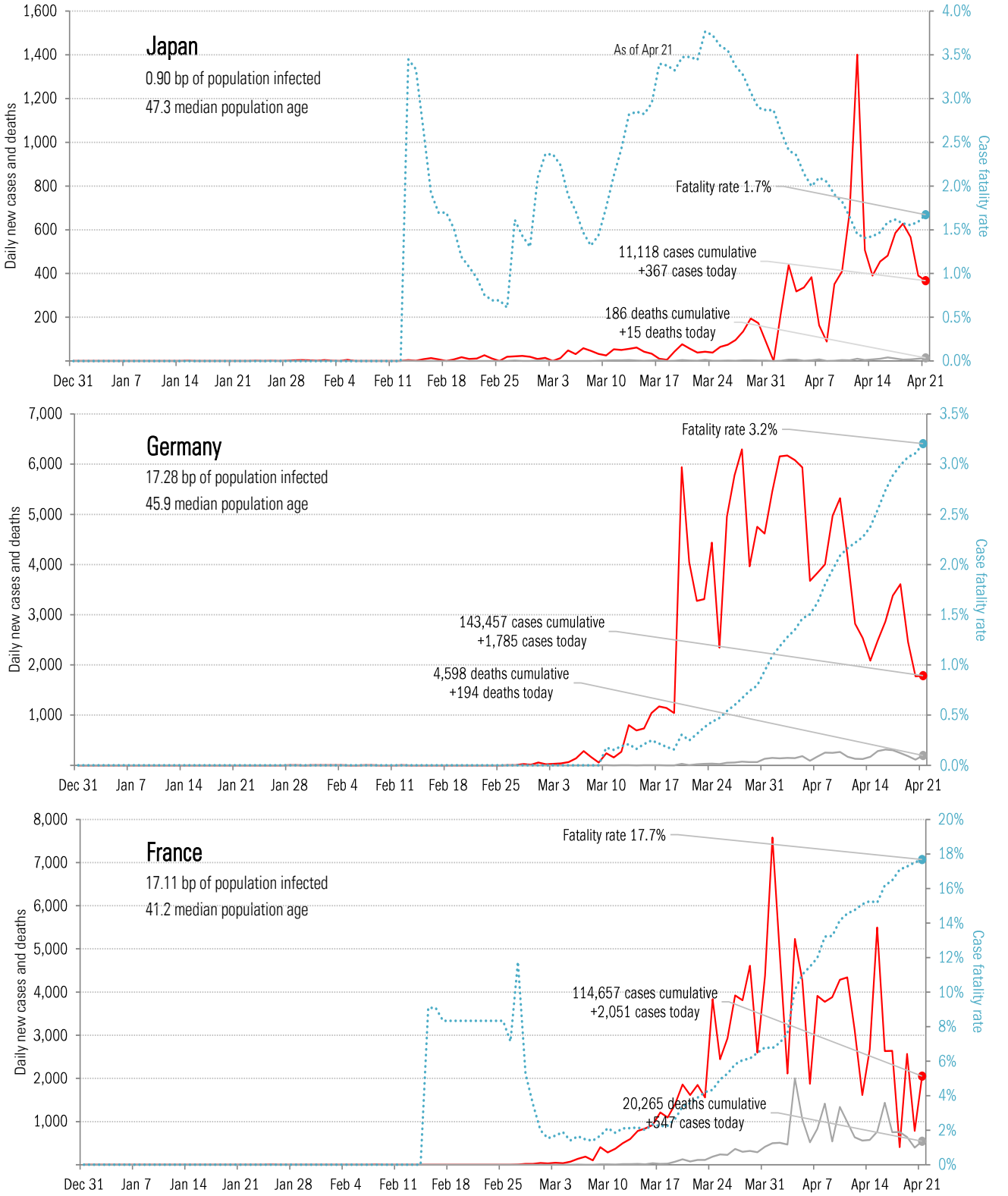
Patient zero… and then everyone else





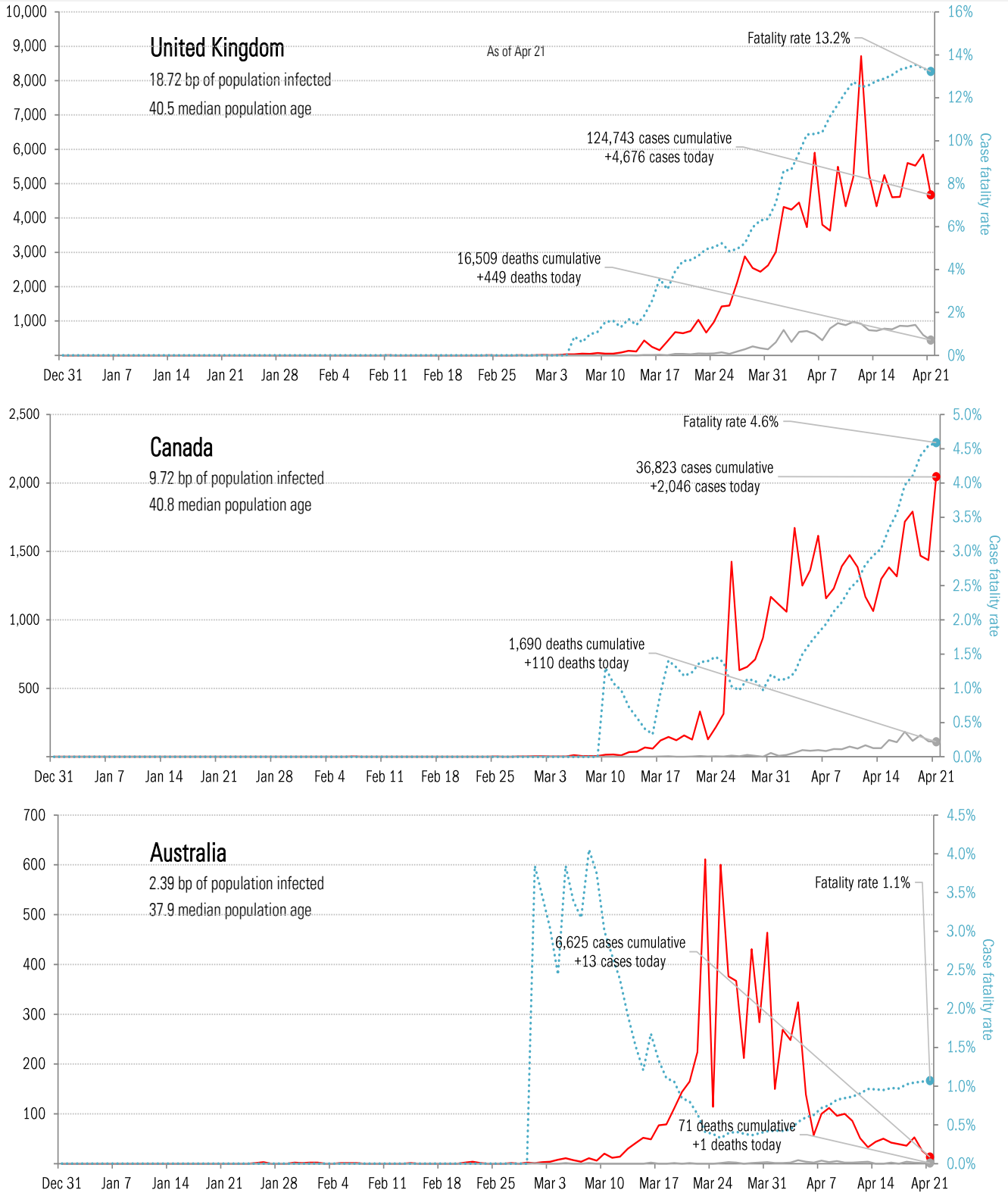
Source: ECDC, TrendMacro calculations

Impact in the largest economies



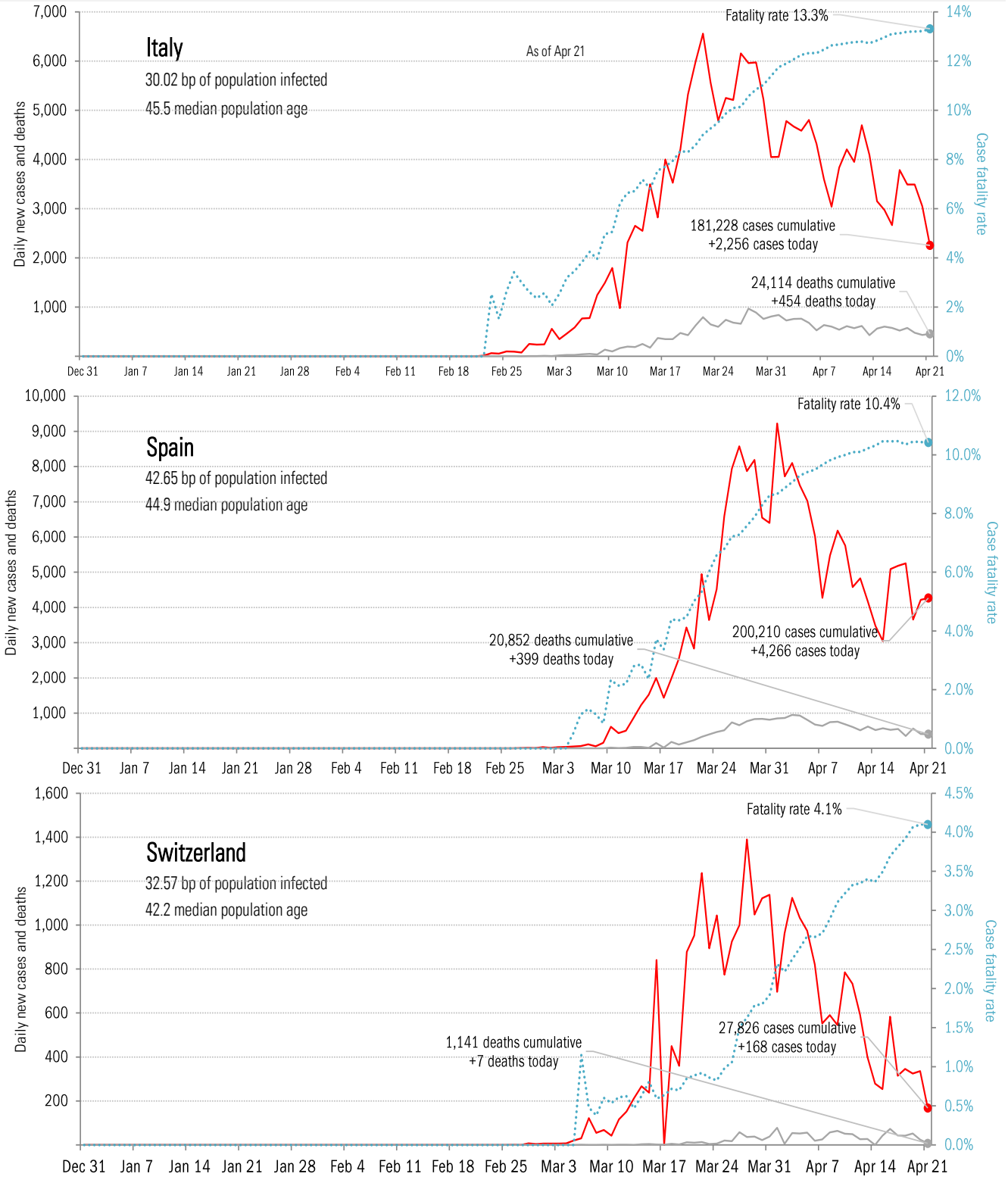
Source: ECDC, TrendMacro calculations

Impact in The Anglosphere



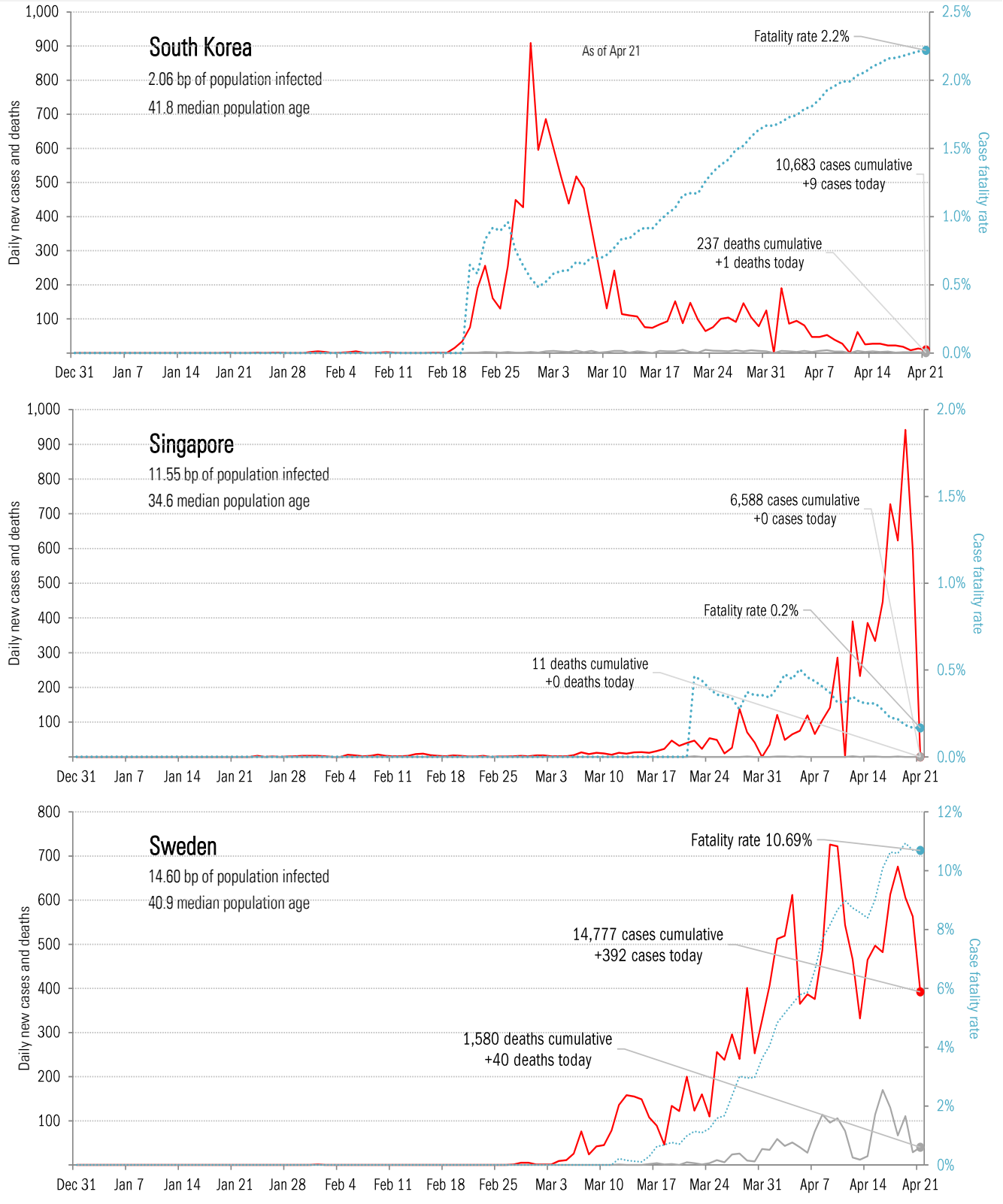
Source: ECDC, TrendMacro calculations

Impact in continental Europe



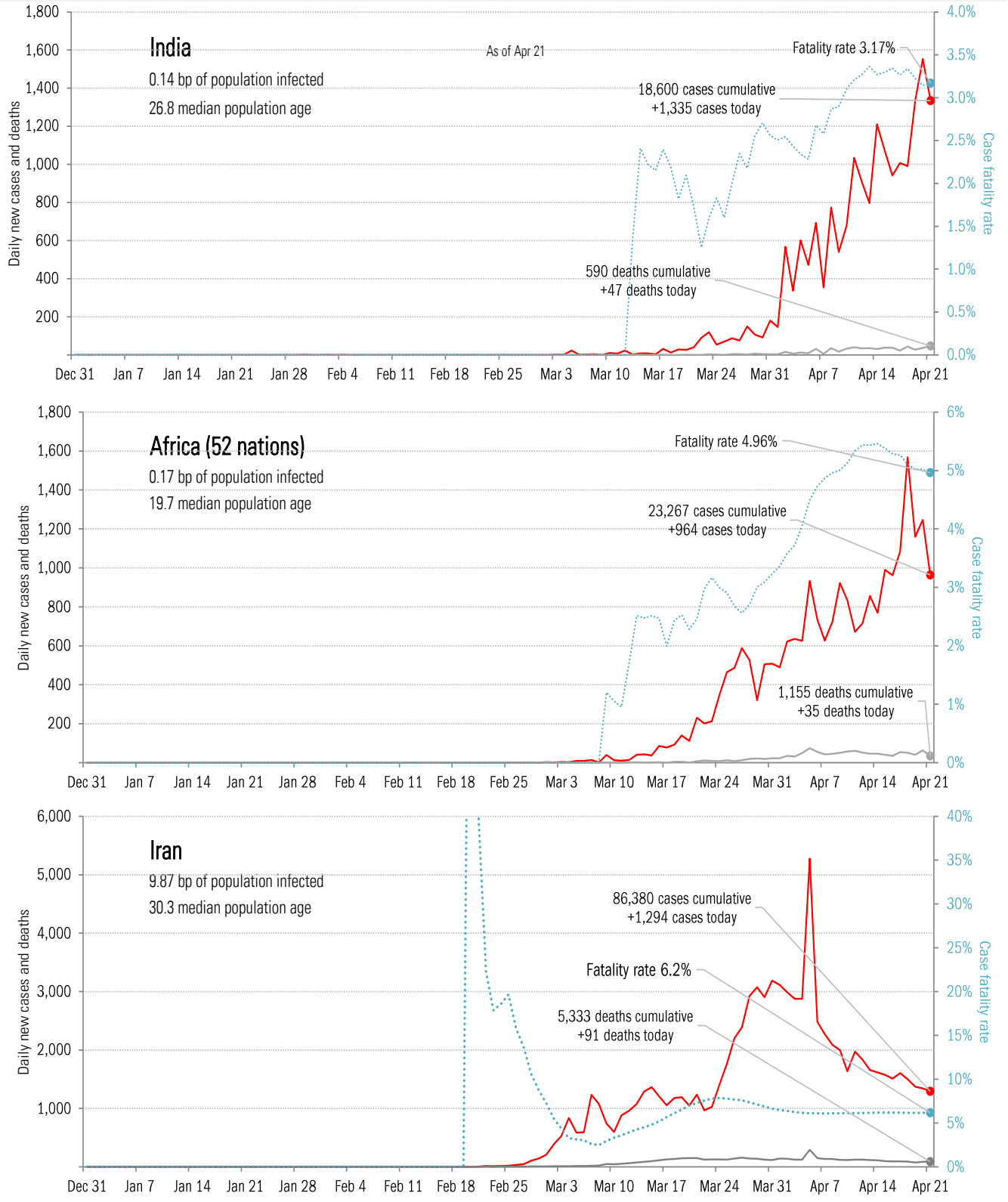
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



Source: ECDC, TrendMacro calculations

Impact in the fragile emerging world



Source: ECDC, TrendMacro calculations