

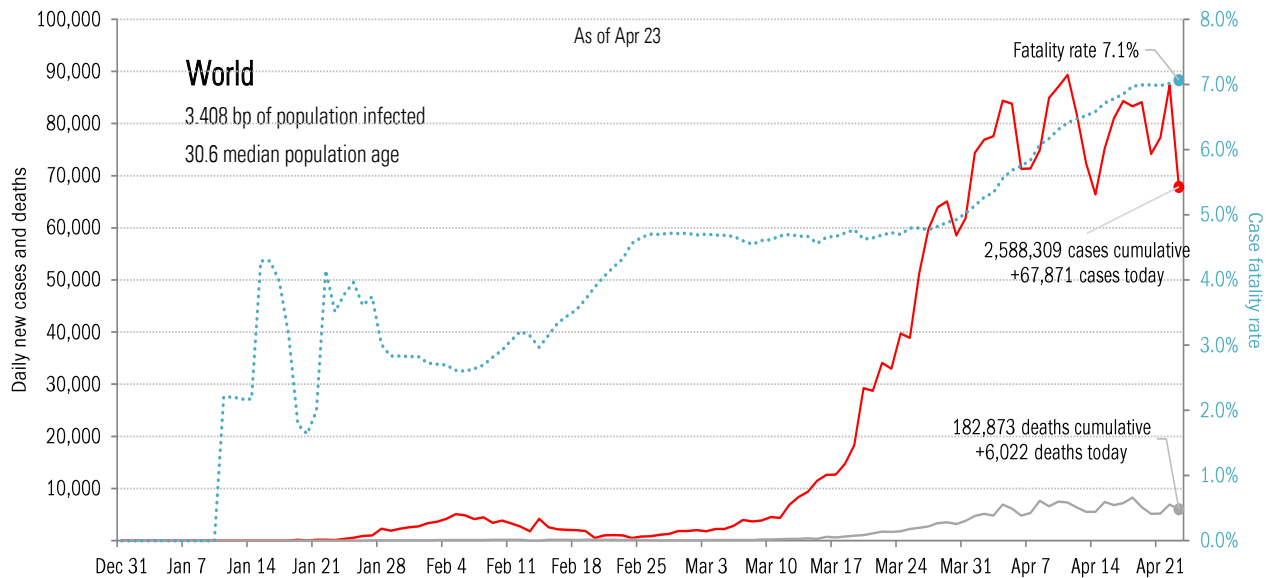
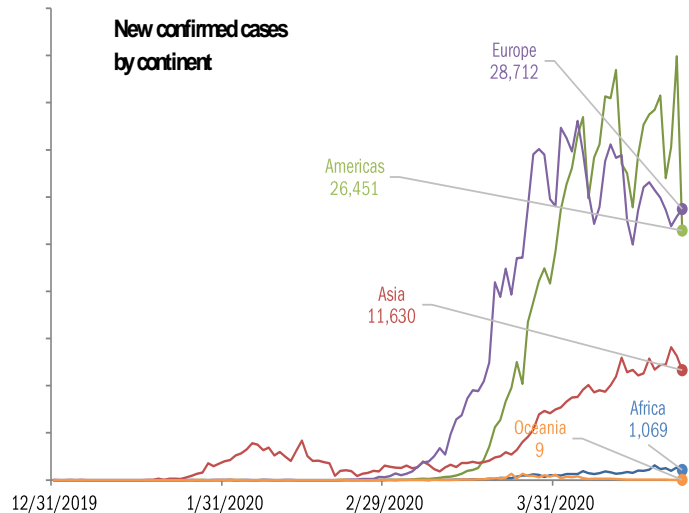
Data Insights: Covid-2019 Monitor

Thursday, April 23, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
US	+17,588	US	+1,721
Russia	+5,236	UK	+763
UK	+4,451	France	+544
Spain	+4,211	Italy	+437
Italy	+3,370	Spain	+435
Turkey	+3,083	Belgium	+264
Brazil	+2,678	Germany	+215
Germany	+2,352	Sweden	+172
France	+1,827	Brazil	+165
Canada	+1,766	Canada	+140
+46,562		+4,856	
World	+67,871	World	+6,022
Top ten	69%	Top ten	81%



Source: [ECDC](#), TrendMacro calculations

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 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

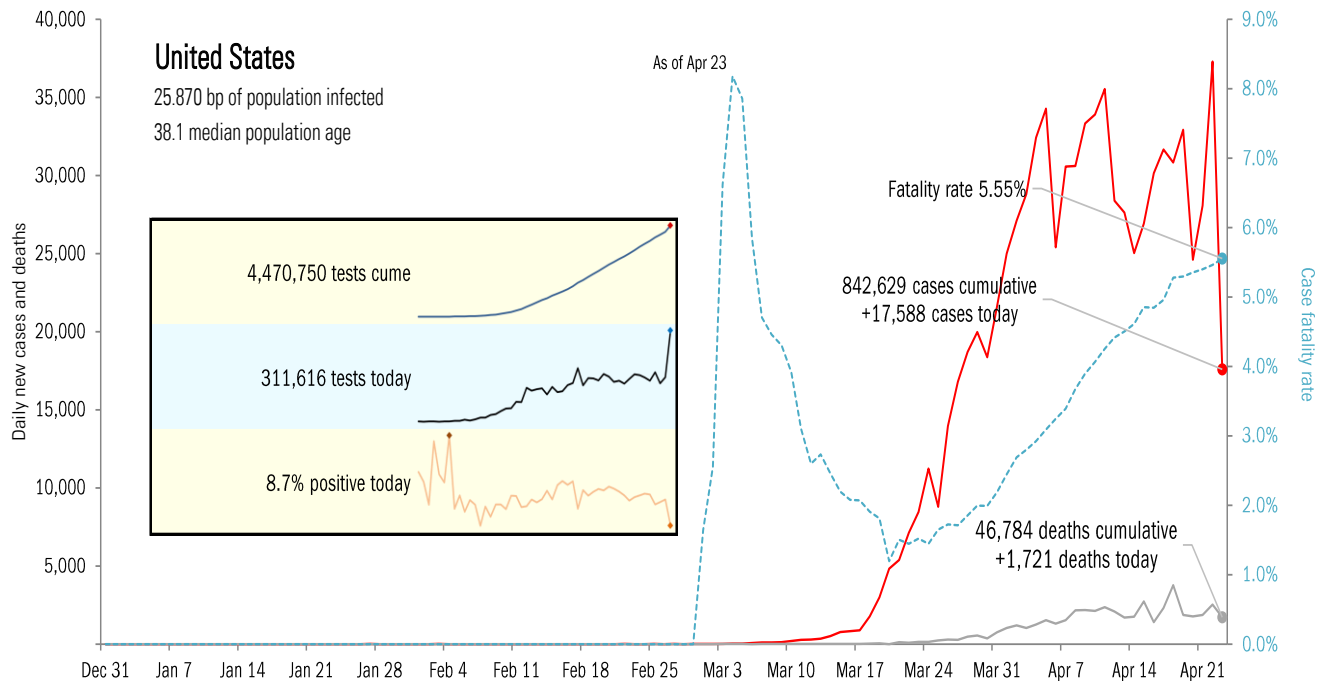
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Curre cases		Curre deaths		Curre in hospital	
NY	+5,526	NY	+474	FL	+234	NY	257,216	NY	15,302	NY	57,103
NJ	+3,478	NJ	+310	GA	+180	NJ	95,865	NJ	5,063	FL	4,469
CA	+2,135	MA	+221	MD	+167	MA	42,944	MI	2,813	GA	3,959
CT	+2,109	CT	+121	CO	+123	CA	35,396	MA	2,182	MD	3,325
IL	+2,049	MI	+113	OH	+103	IL	35,108	PA	1,622	OH	2,882
MA	+1,745	IL	+97	SC	+61	PA	35,045	IL	1,565	CO	2,003
MI	+999	CA	+86	MS	+52	MI	33,966	CT	1,544	VA	1,581
TX	+873	LA	+68	WI	+50	FL	28,309	LA	1,473	WI	1,302
GA	+859	PA	+58	AL	+31	LA	25,258	CA	1,354	KY	1,076
FL	+814	FL	+54	MN	+31	CT	22,469	FL	910	MS	910
+20,587		+1,602		+1,032		611,576		33,828		78,610	
All states	+27,219	All states	+2,108	All states	+1,173	All states	826,936	All states	42,103	All states	85,465
Top ten	76%	Top ten	76%	Top ten	88%	Top ten	74%	Top ten	80%	Top ten	92%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
MA	-1,377	PA	-302	RI	-245	SC	+1,254
PA	-779	MI	-119	VA	-81	TX	+855
VA	-461	NJ	-66	GA	-49	TN	+184
FR	-429	MA	-34	AL	-27	IA	+135
IA	-375	IN	-30	CH	-23	SD	+113



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

Recommended reading

[Lululemon Fires Employee Over 'Bat Fried Rice' Shirt](#)

Iliana Magra and Christine Hauser
New York Times
April 22, 2020

[Chinese Ambassador to U.S. Urges 'Serious Rethinking' of Ties Bloomberg News](#)

Bloomberg
April 22, 2020

[Chinese Agents Helped Spread Messages That Sowed Virus Panic in U.S., Officials Say](#)

Edward Wong, Matthew Rosenberg and Julian E. Barnes
New York Times
April 22, 2020

[China's Coronavirus Diplomacy Has Finally Pushed Europe Too Far](#)

Alan Crawford and Peter Martin
Bloomberg
April 22, 2020

[Michigan cancels contract with two Democratic-linked firms that had been tapped to track coronavirus](#)

Matt Viser and Josh Dawsey
Washington Post
April 22, 2020

[U.K. Starts Human Trials of Coronavirus Vaccine on Thursday](#)

Robert Hutton and Joe Mayes
Bloomberg
April 22, 2020

[Could an old vaccine be a godsend for new coronavirus?](#)

Dr. Konstantin Chumakov and Dr. Robert Gallo
USA Today
April 21, 2020

[Coronavirus and the Laboratories in Wuhan](#)

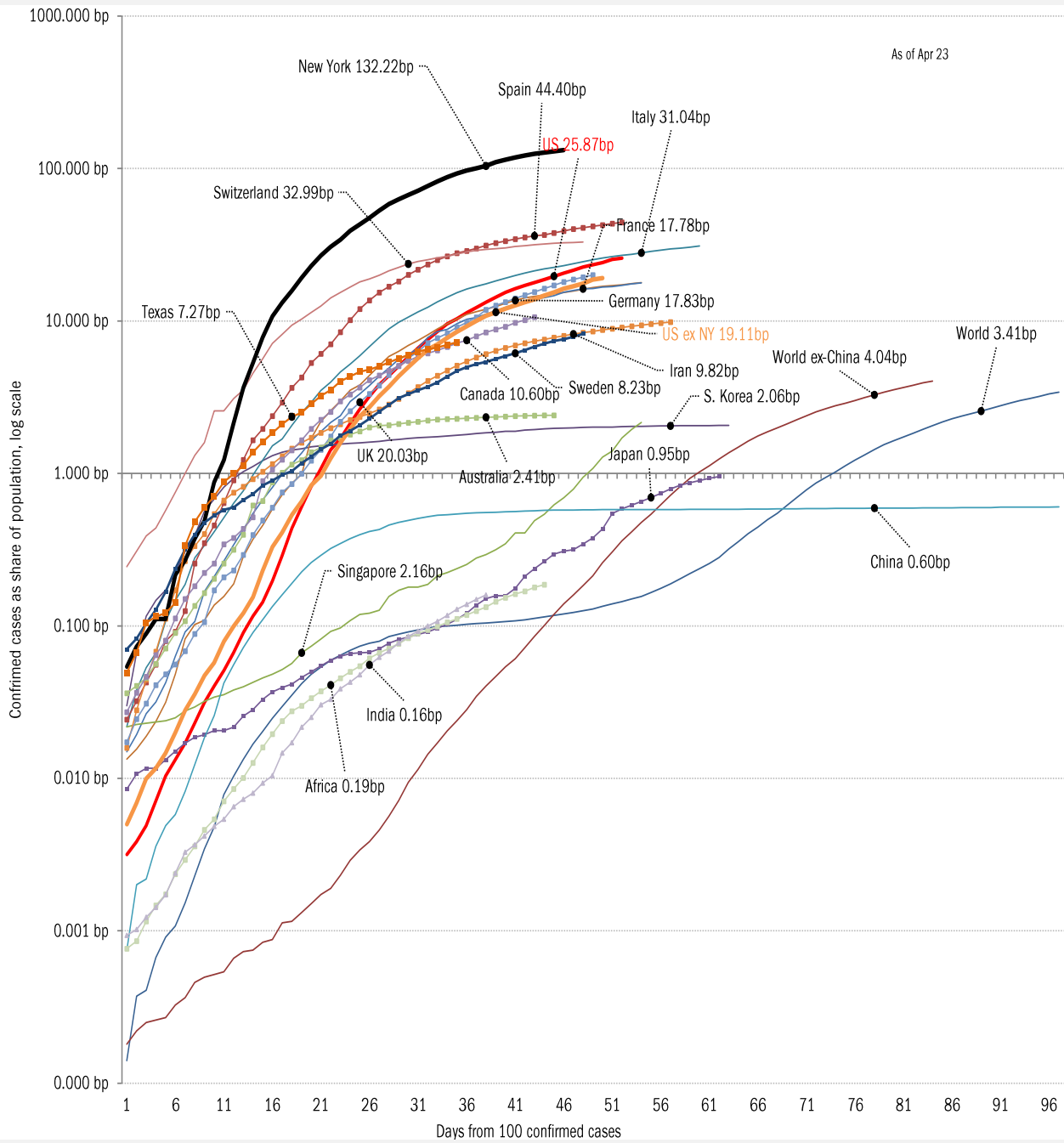
Tom Cotton
Wall Street Journal
April 21, 2020

Meme of the day



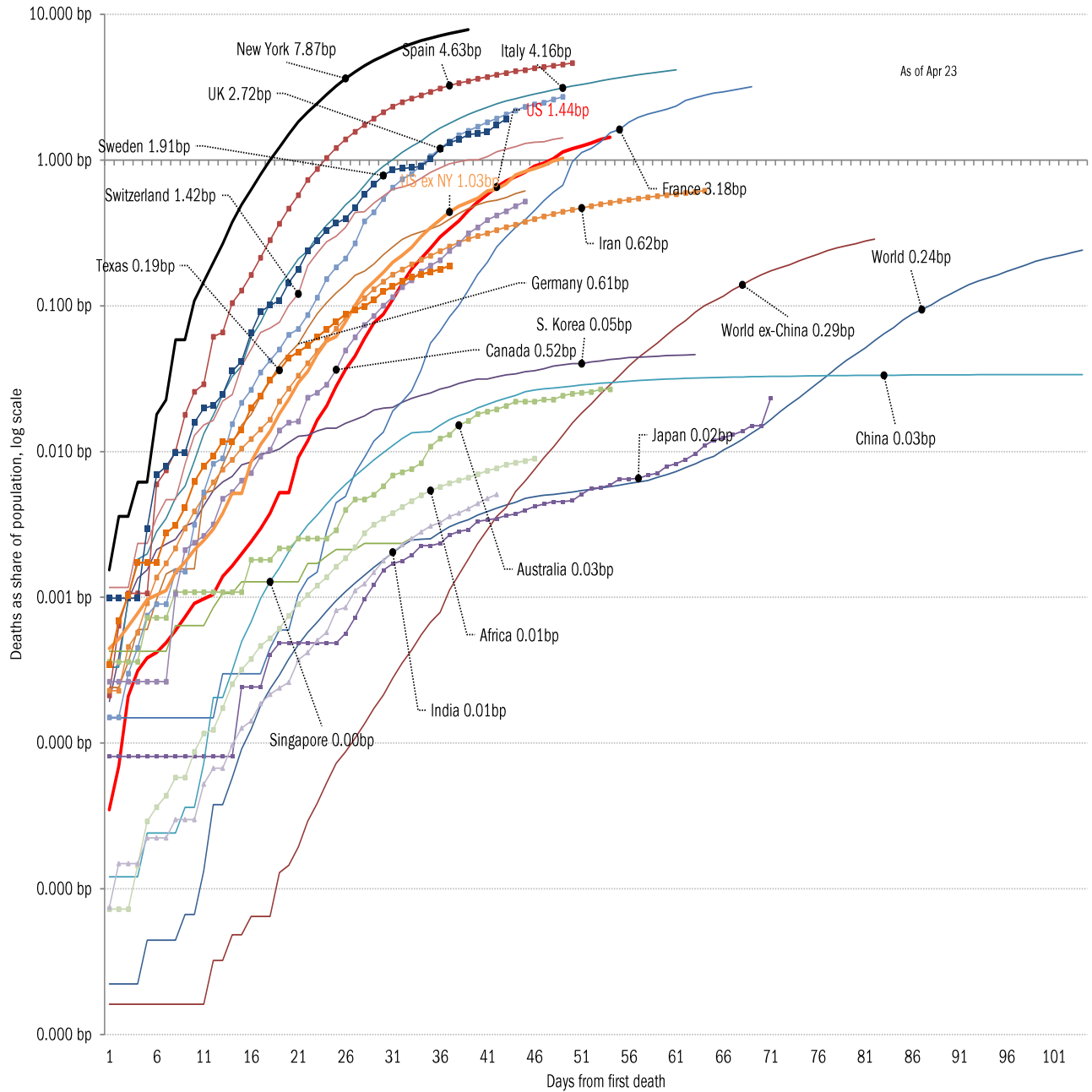
Source: Our beloved clients, and [Power Line blog "The Week in Cartoons"](#)

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



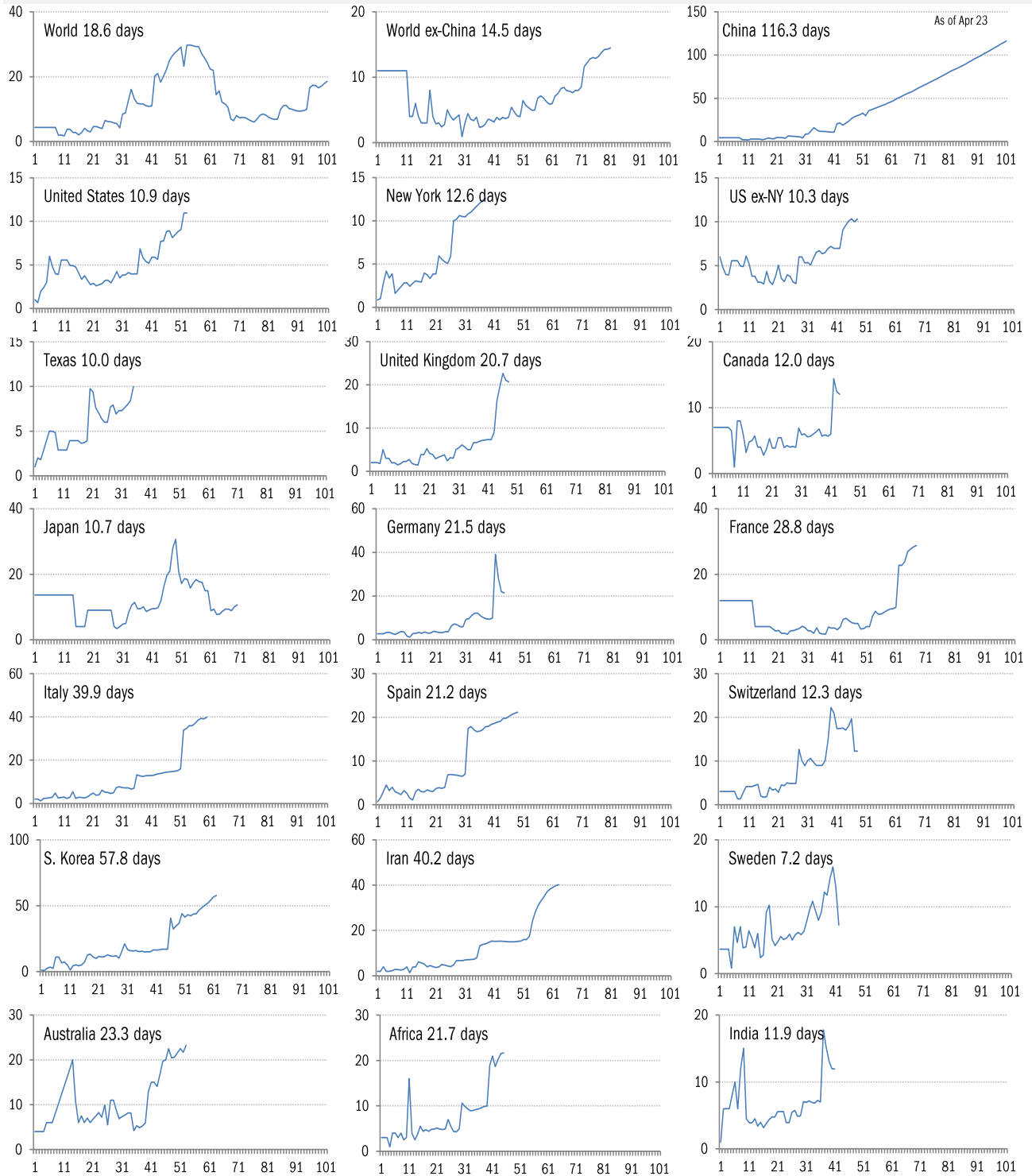
Source: [ECDC](#), TrendMacro calculations

Our most reliable evidence of slowing the Moore's law of Covid-19

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

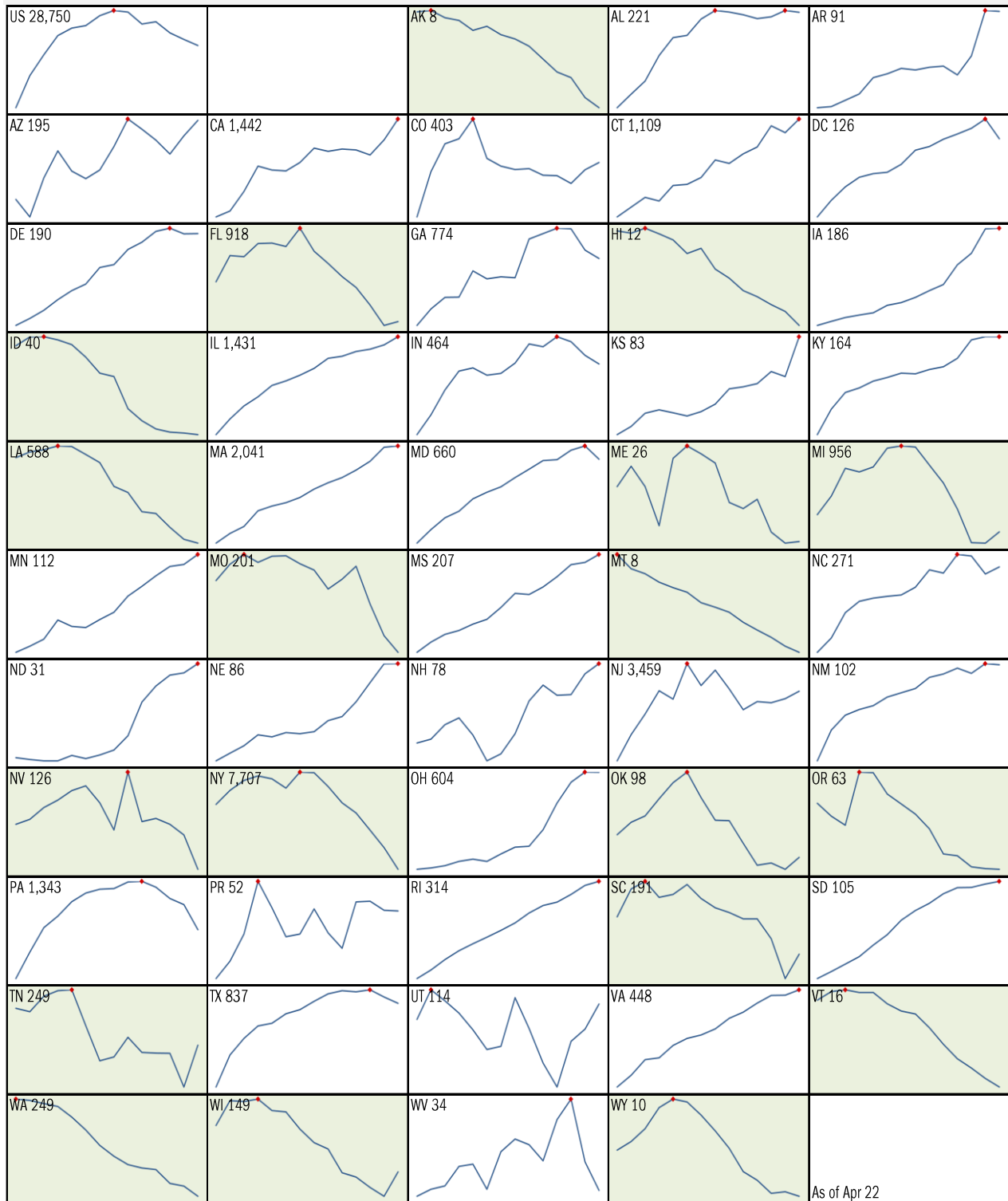
Progress means seeing the line move up and to the right. . .

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



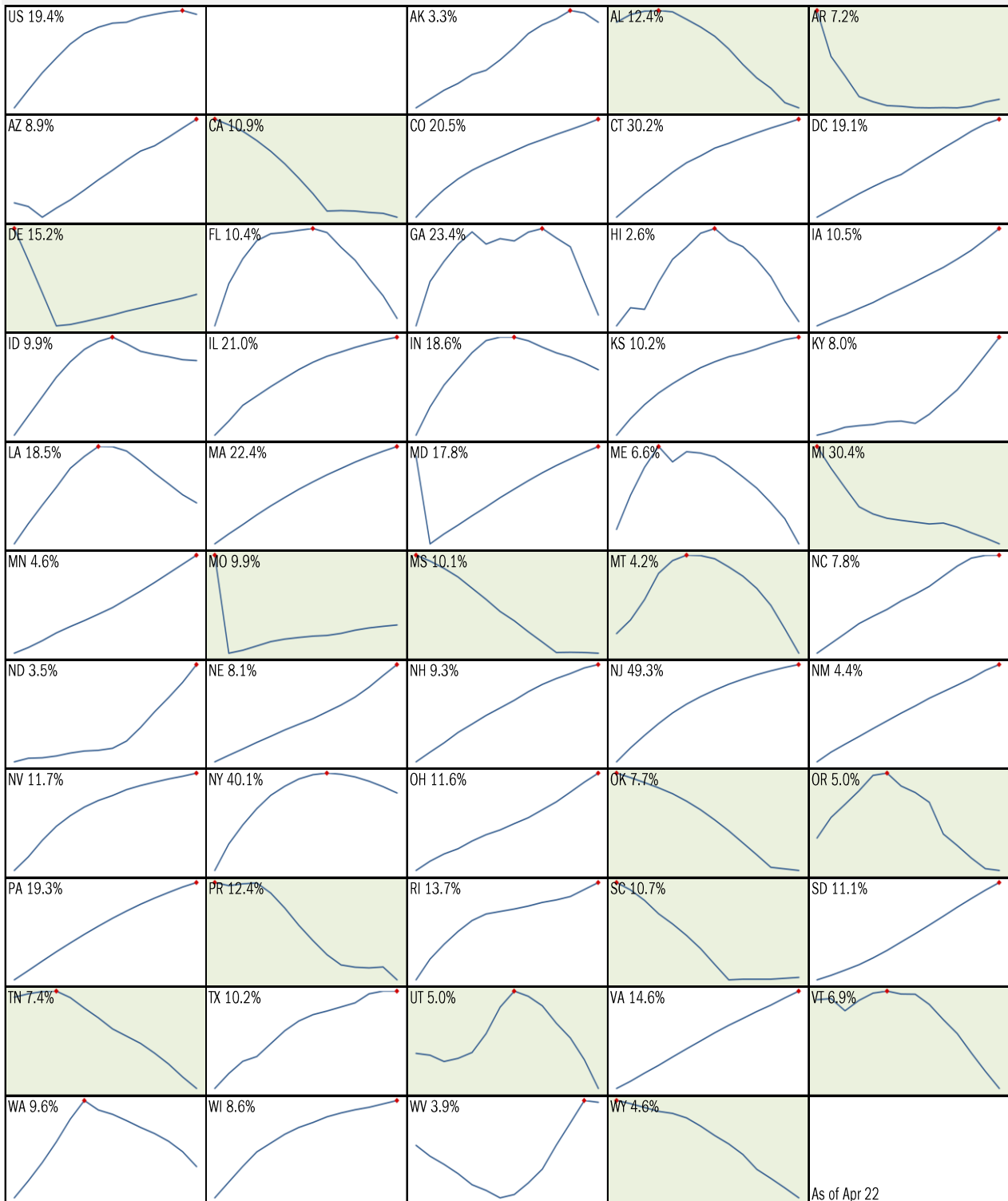
Source: [ECDC](#), TrendMacro calculations

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



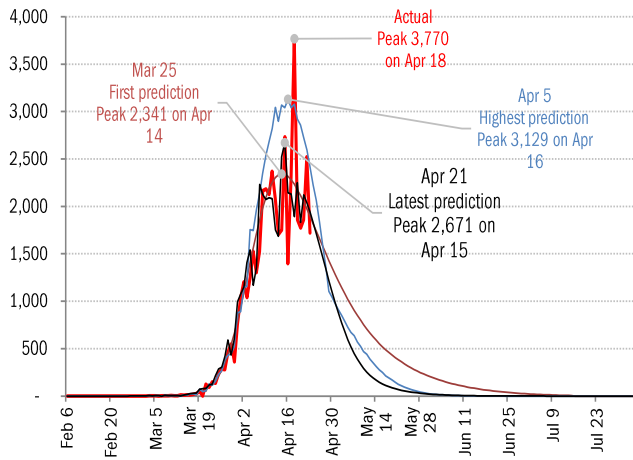
Source: [Covid Tracking Project](#), TrendMacro calculations

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

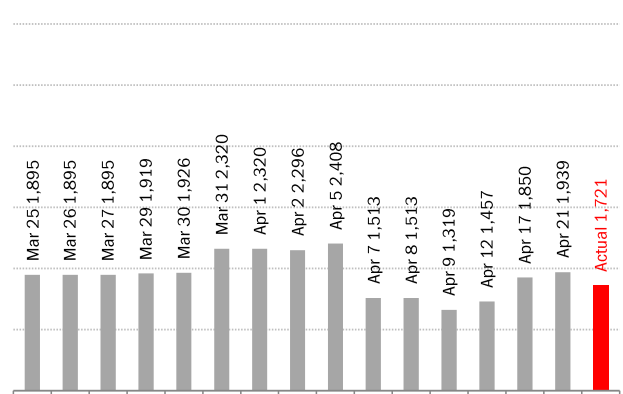
New daily fatalities

As of Apr 23

Actual versus first, highest and latest model mean predictions

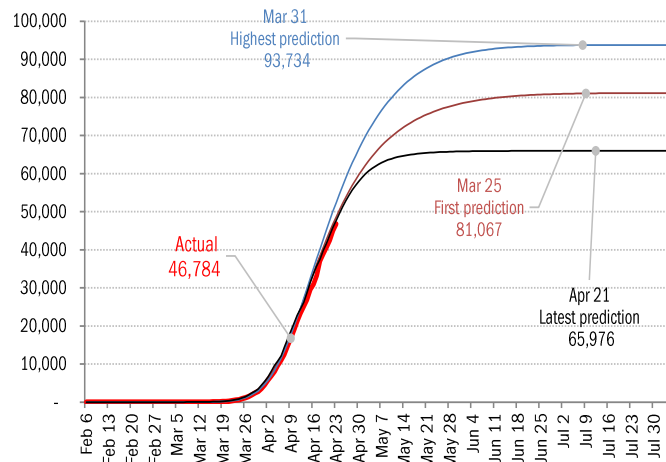


For this day, versus all model mean predictions

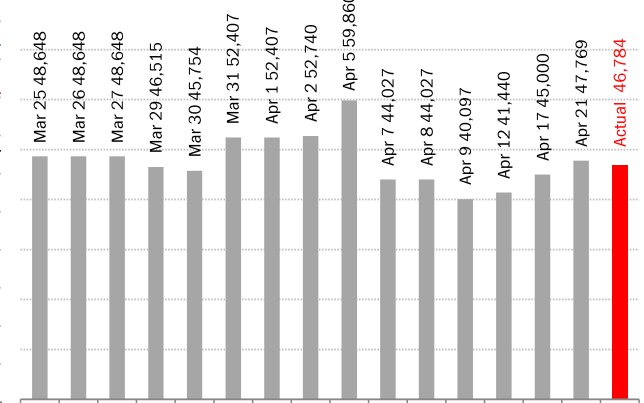


Cumulative fatalities

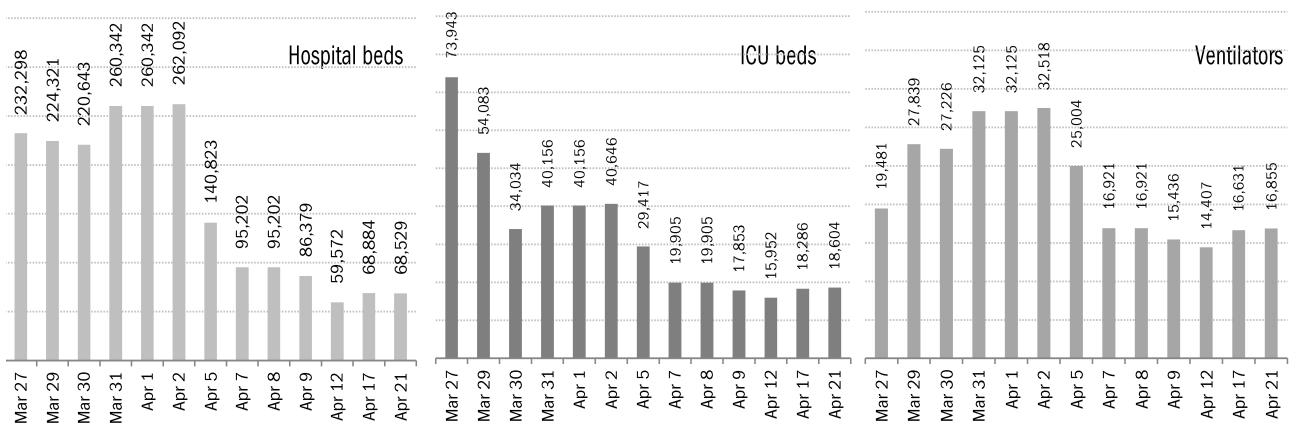
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

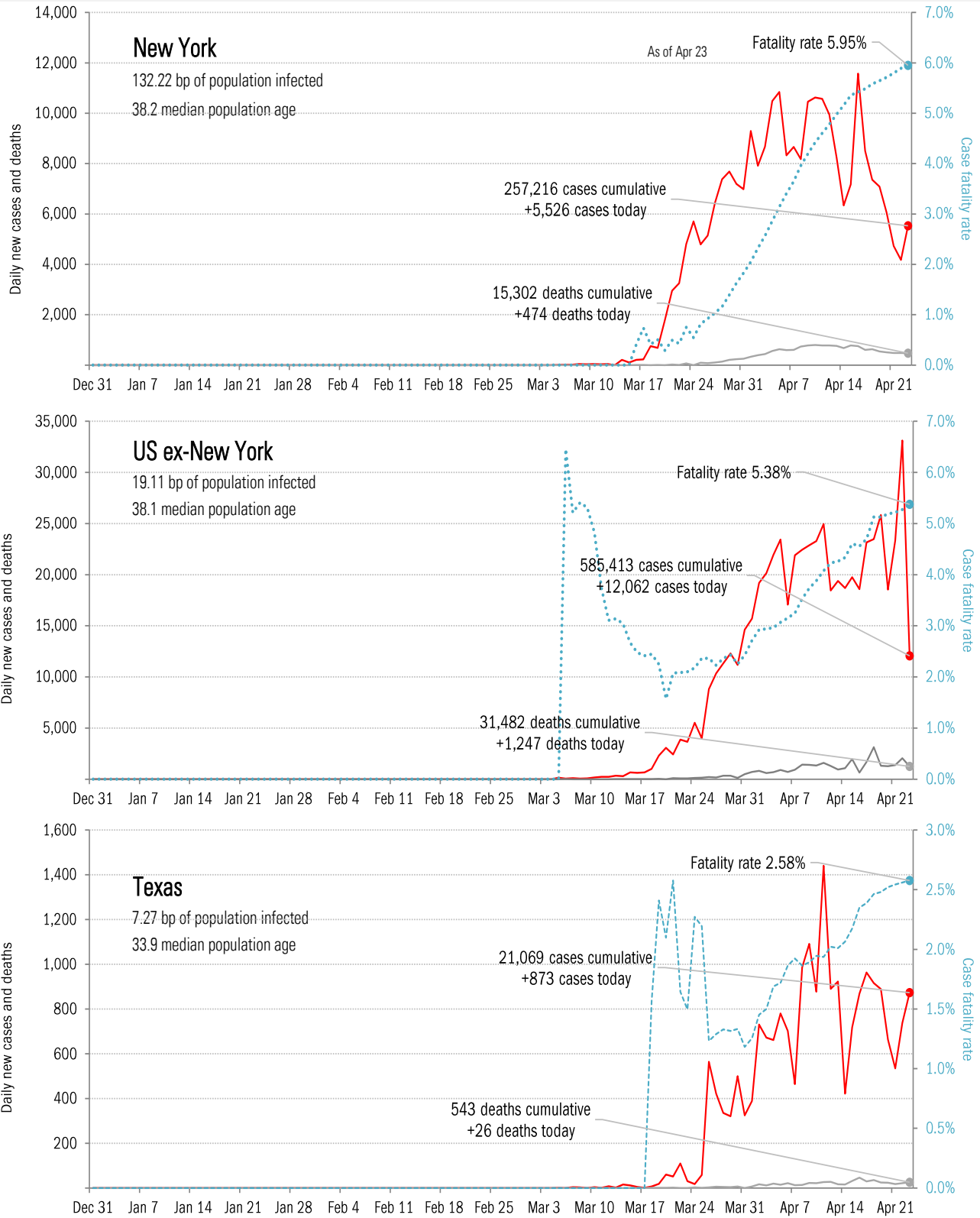


Healthcare system stress, peak estimated at each model revision



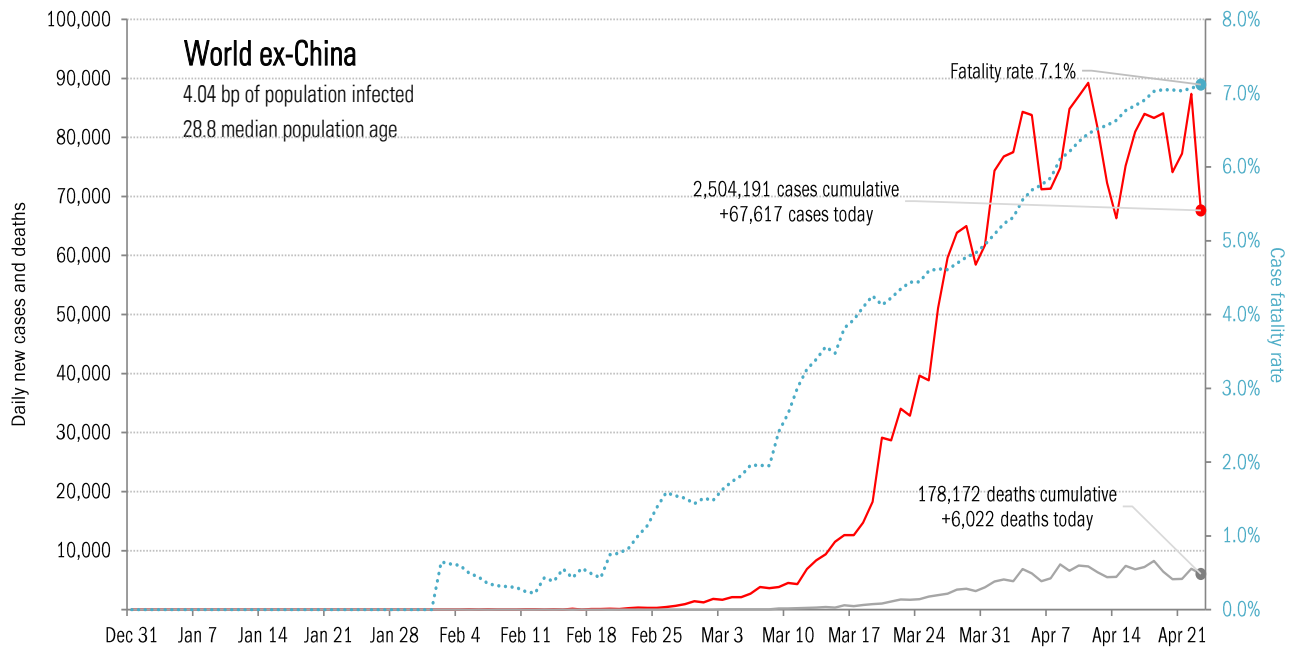
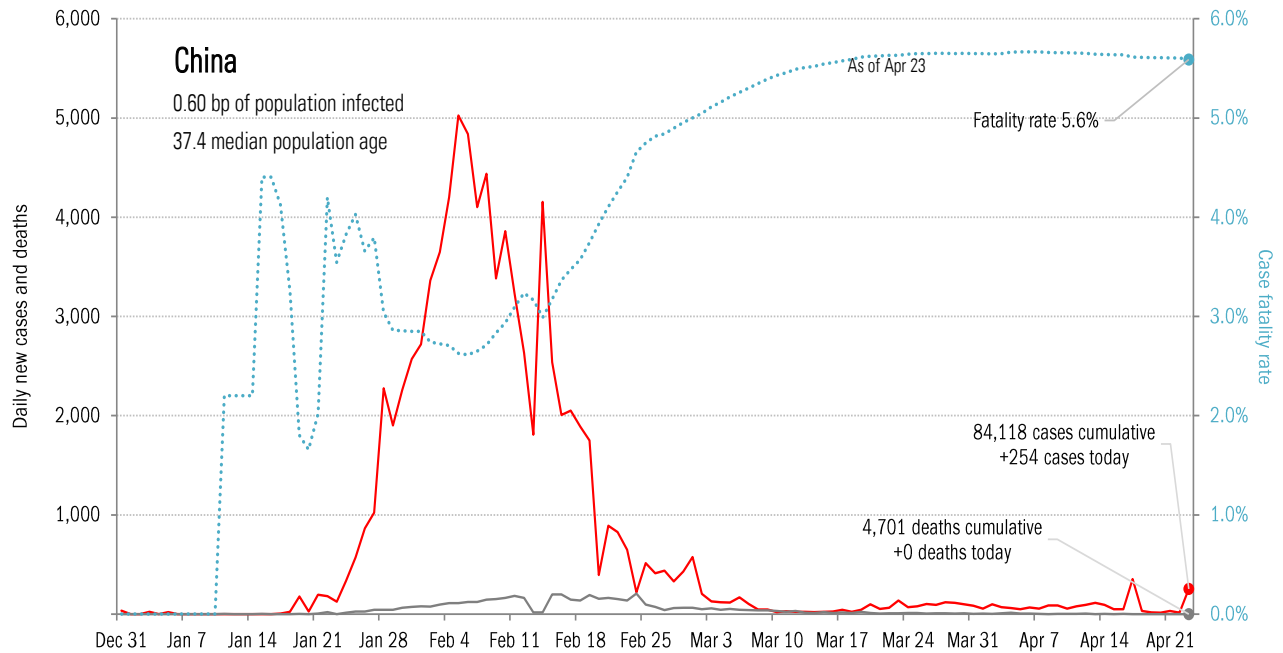
Source: [ECDC](#), TrendMacro calculations

From Ground Zero to the Rio Grande



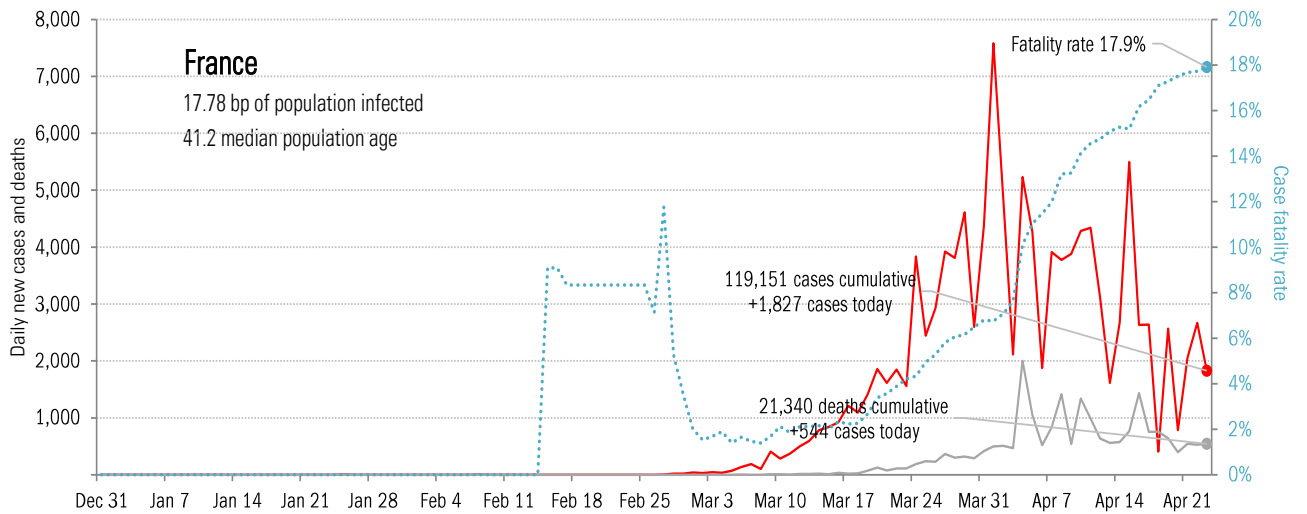
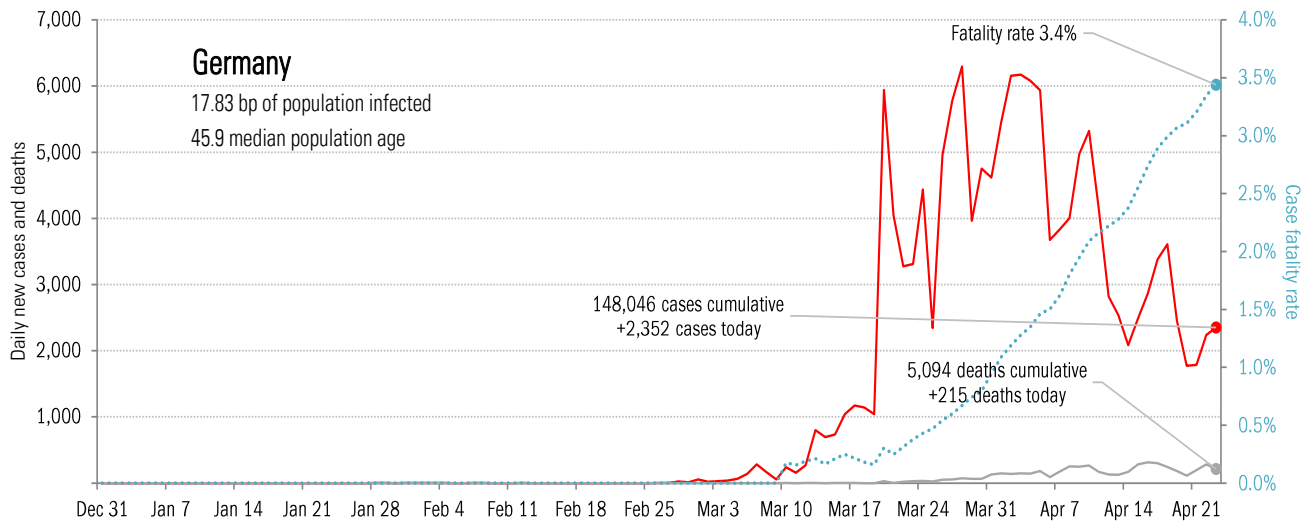
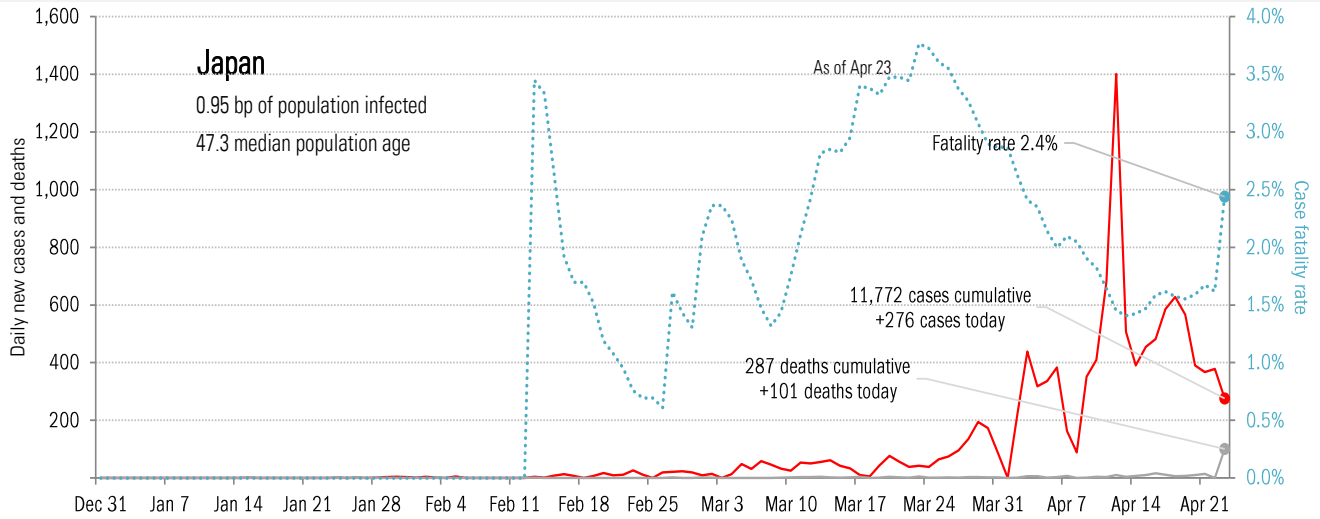
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



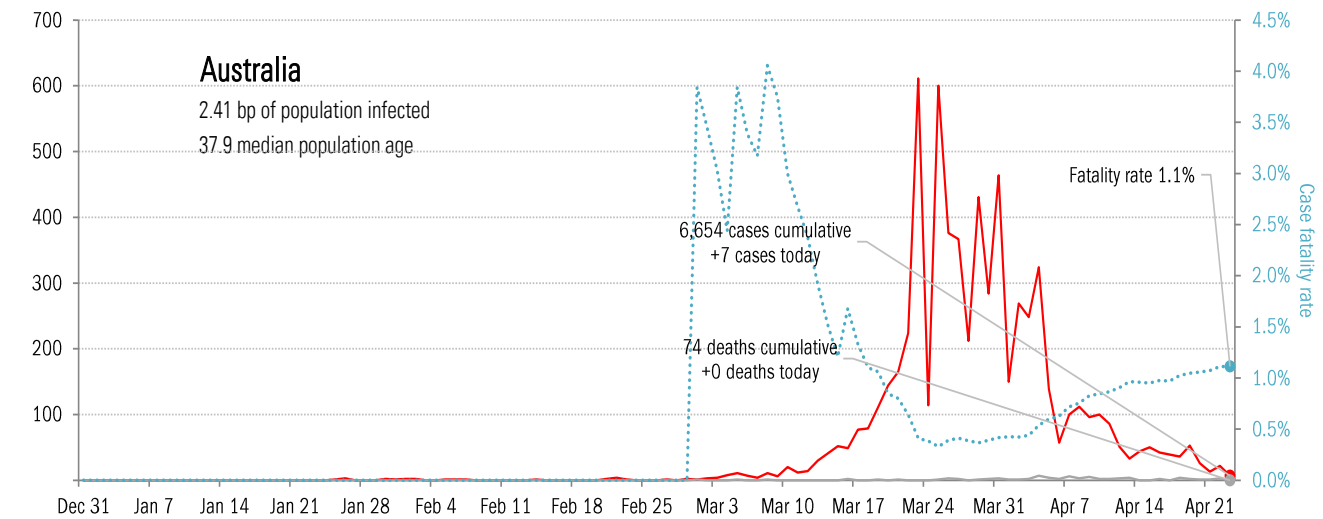
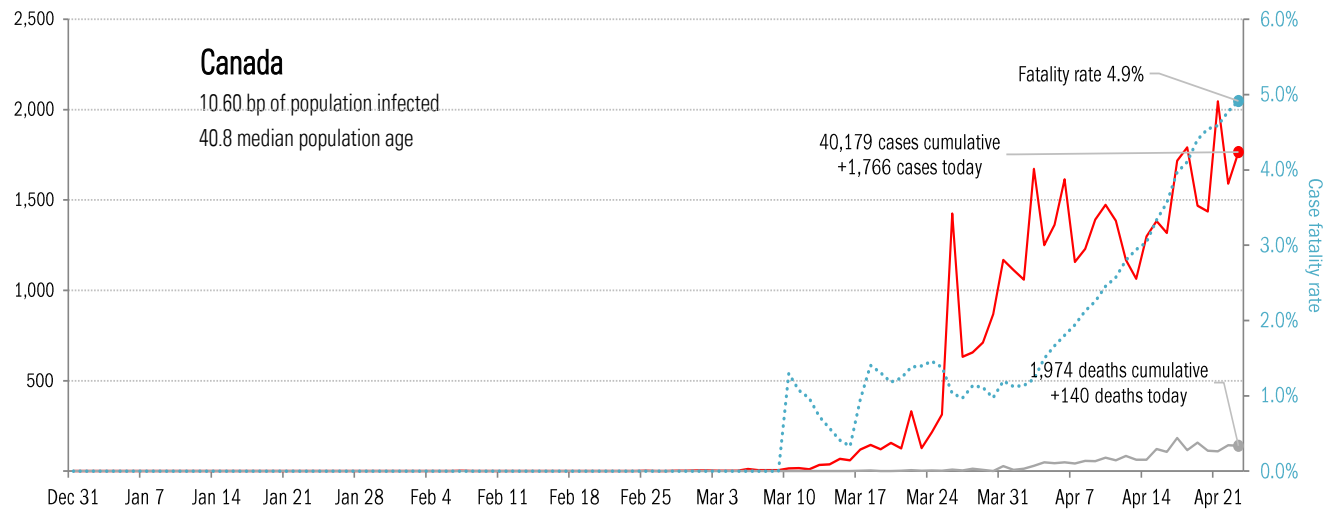
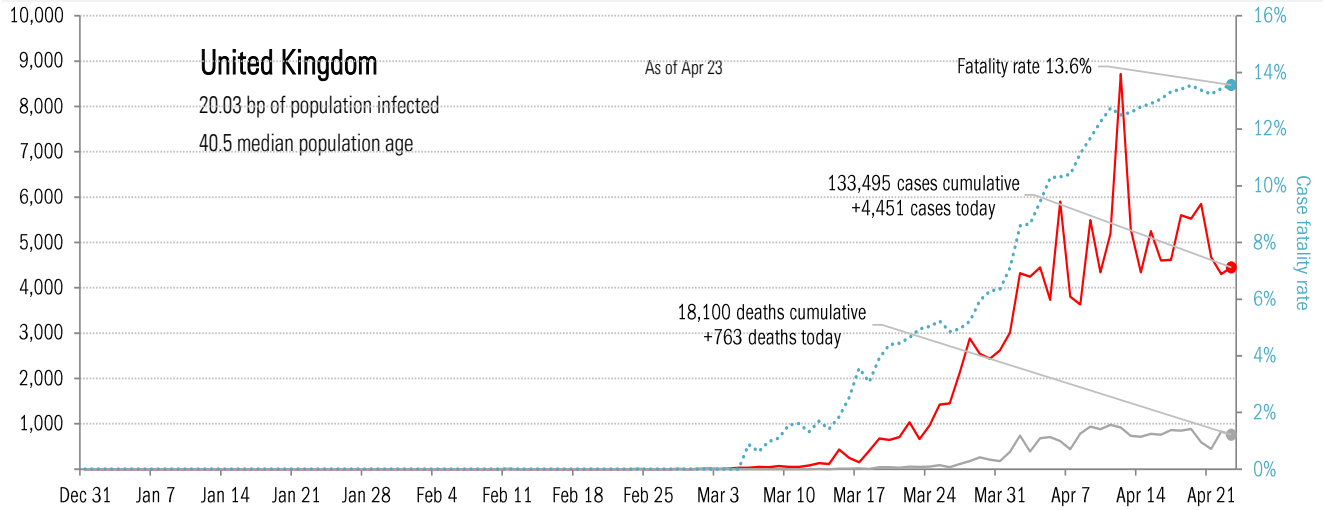
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



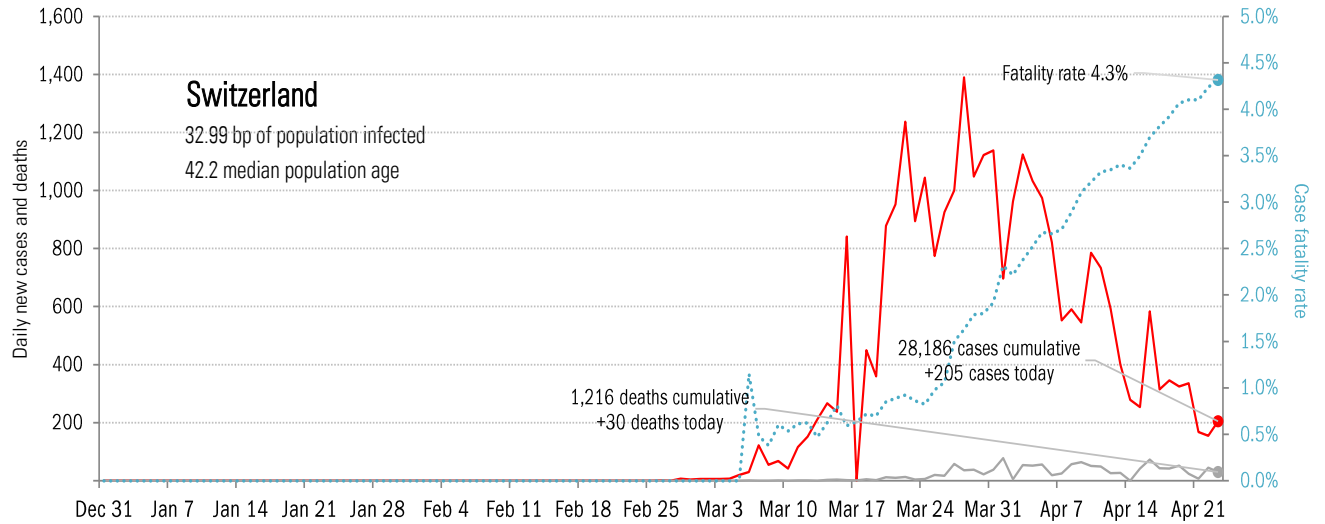
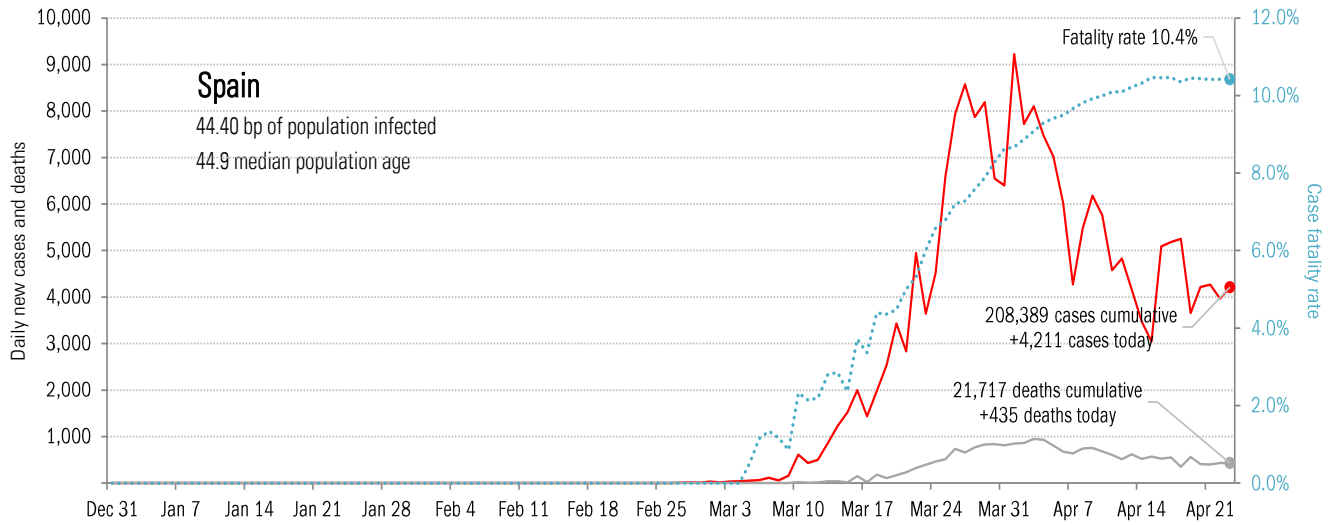
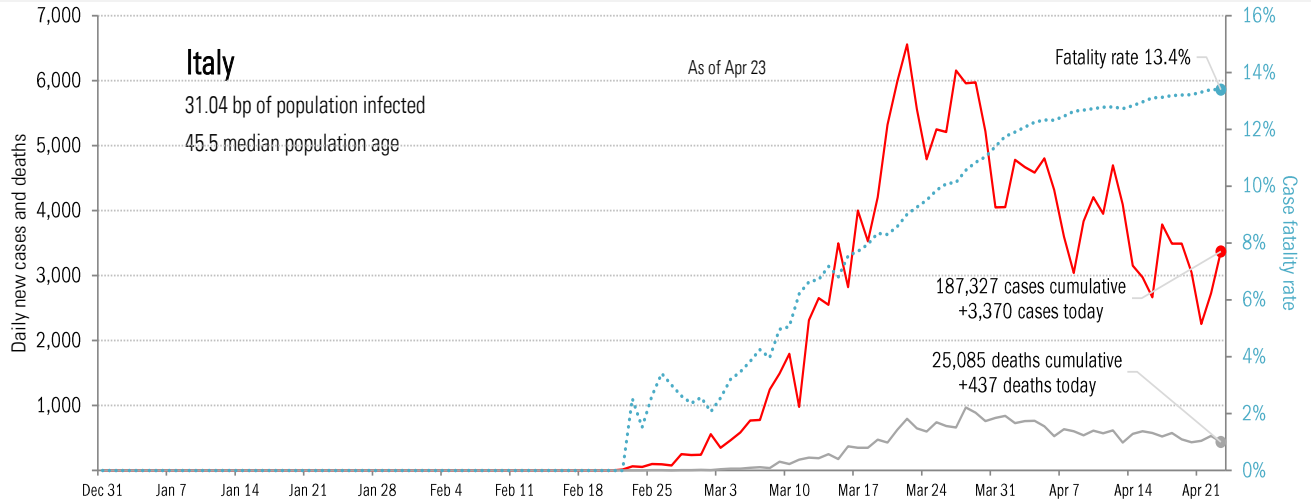
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



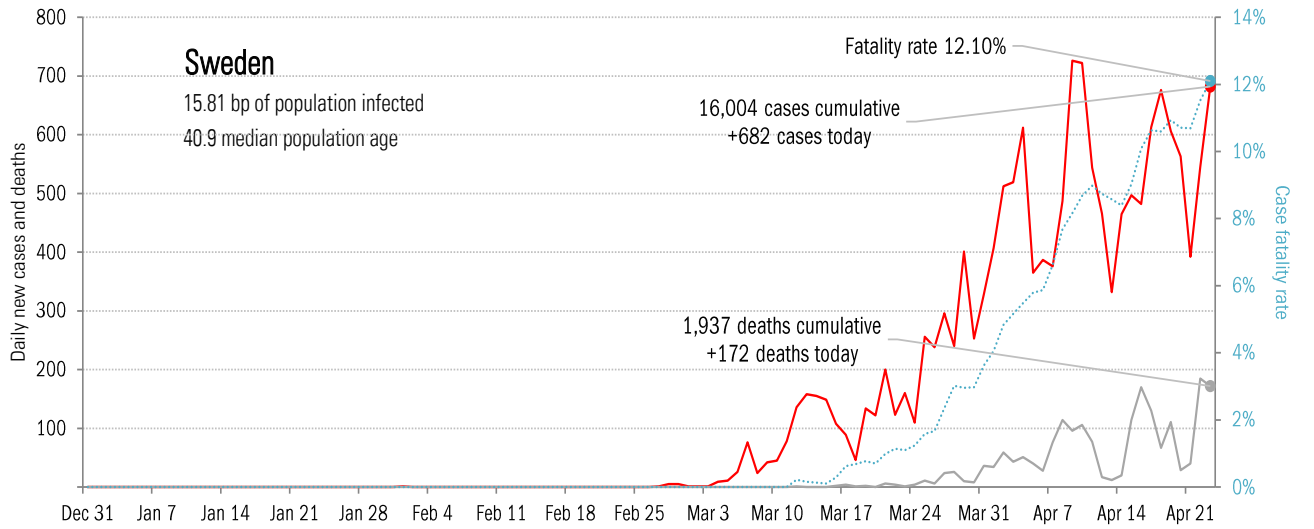
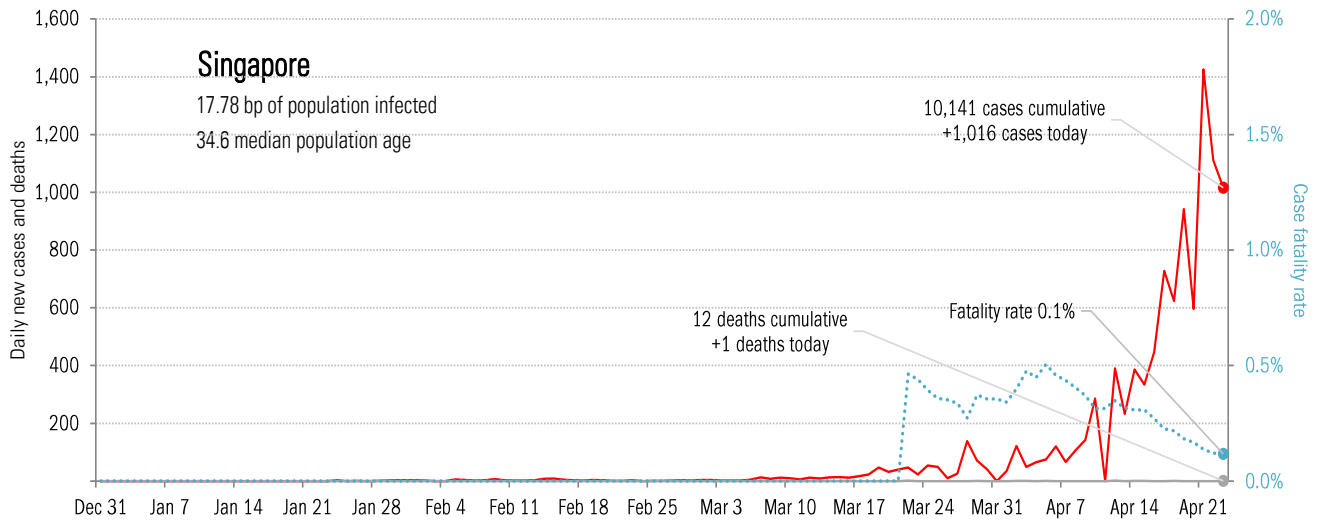
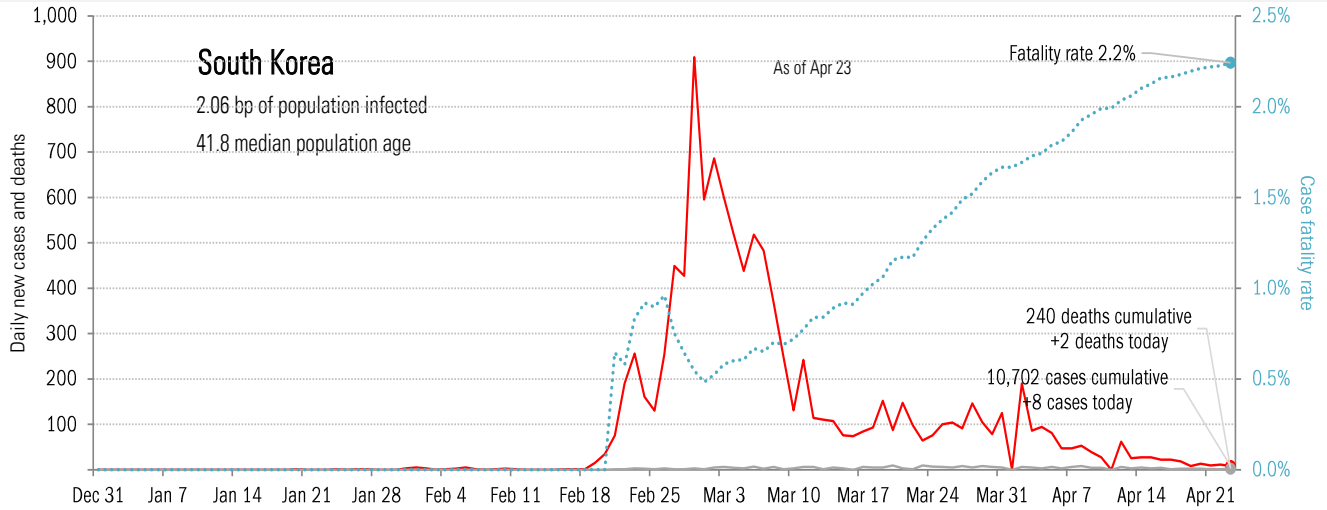
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



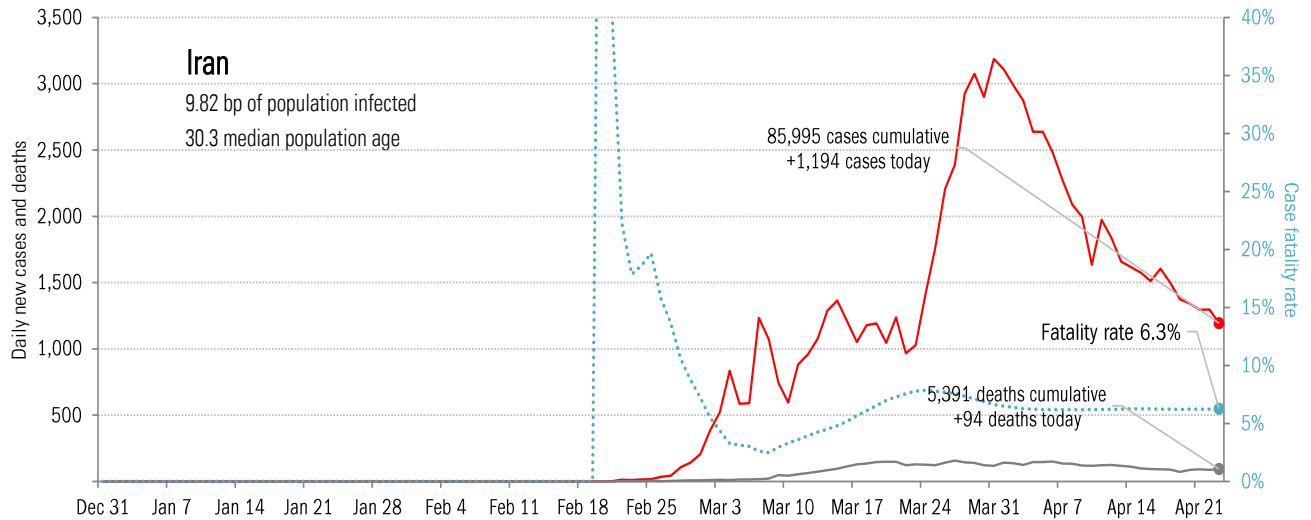
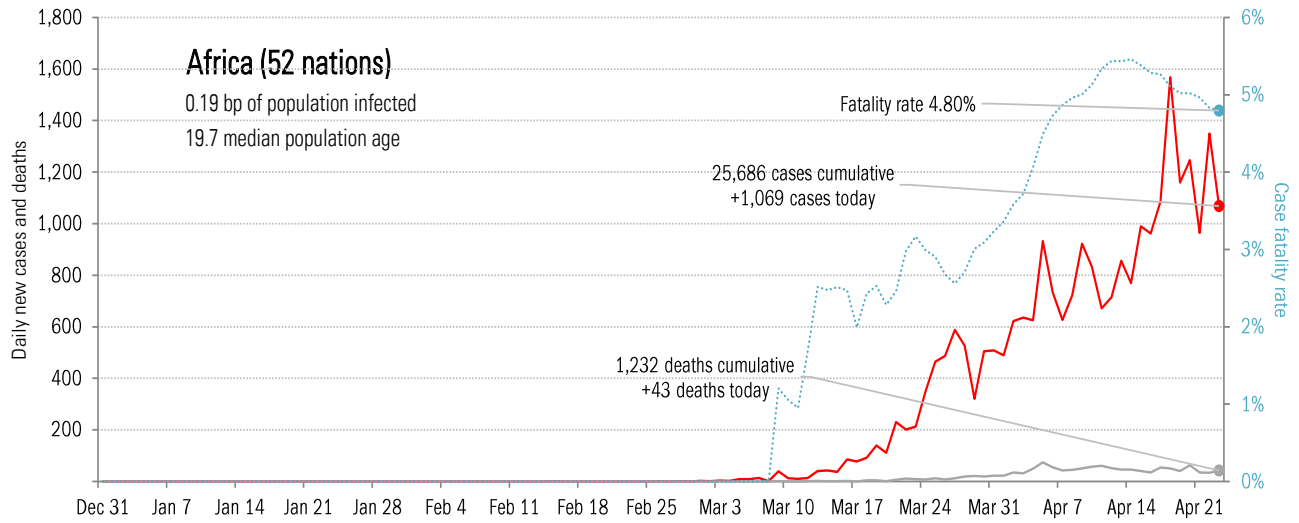
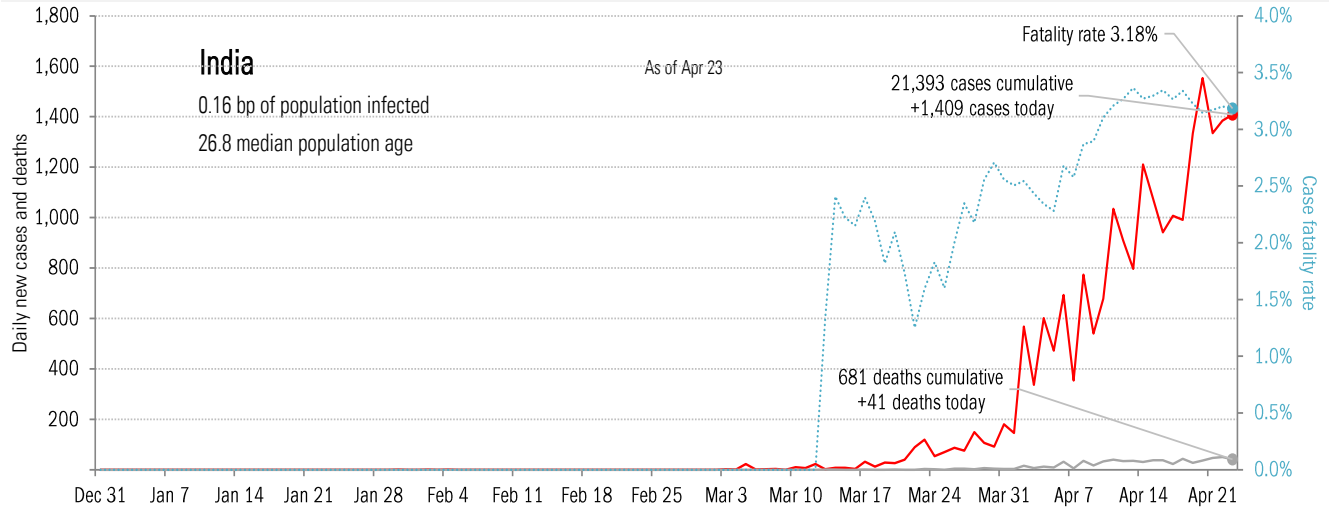
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

Impact in the fragile emerging world



Source: [ECDC](#), TrendMacro calculations