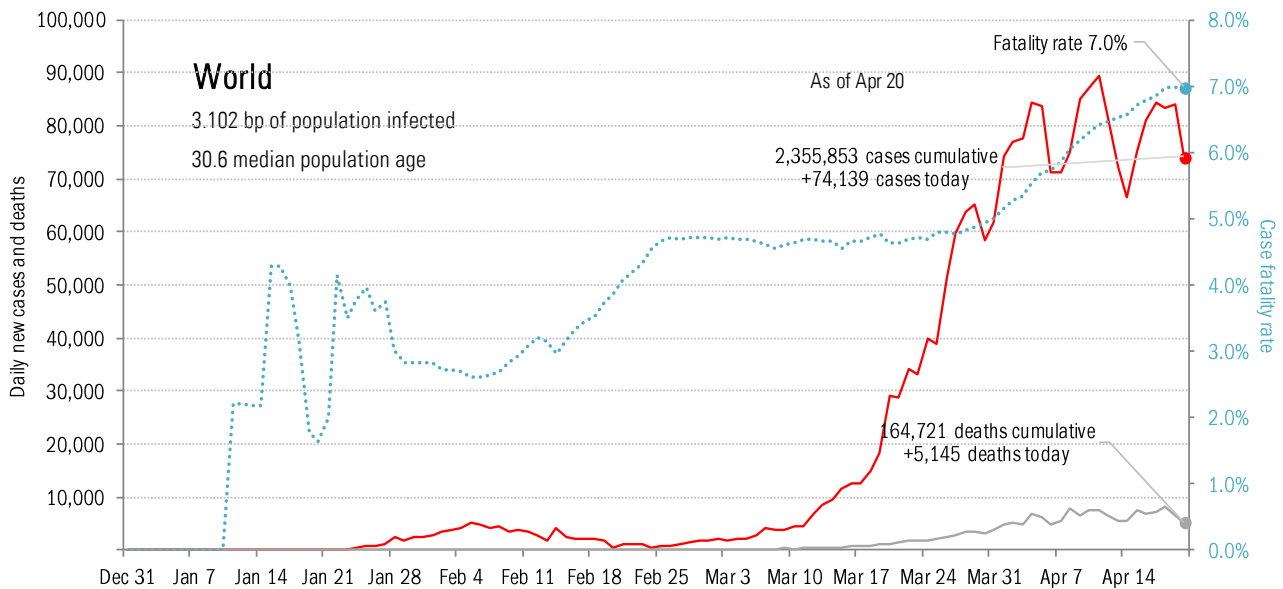
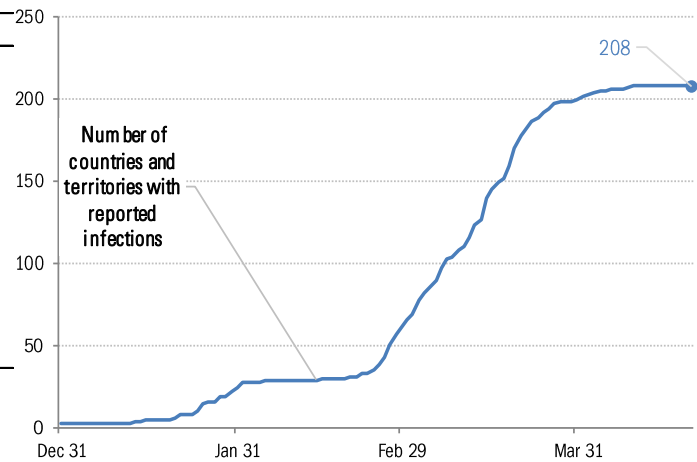


Data Insights: Covid-2019 Monitor

Monday, April 20, 2020

The global scorecard

The worst ten countries			
New infections		New Deaths	
US	+24,601	US	+1,772
Russia	+6,060	UK	+596
UK	+5,850	Italy	+433
Spain	+4,218	Spain	+410
Turkey	+3,977	France	+395
Italy	+3,047	Belgium	+230
Brazil	+2,055	Turkey	+127
Germany	+1,775	Brazil	+115
India	+1,553	Canada	+113
Canada	+1,436	Germany	+110
+54,572		+4,301	
World	+74,139	World	+5,145
Top ten	74%	Top ten	84%



Source: [ECDC](#), TrendMacro calculations

For more information contact us:

Donald Luskin: 312 273 6766 don@trendmacro.com
 Thomas Demas: 704 552 3625 tdemas@trendmacro.com

The US scorecard

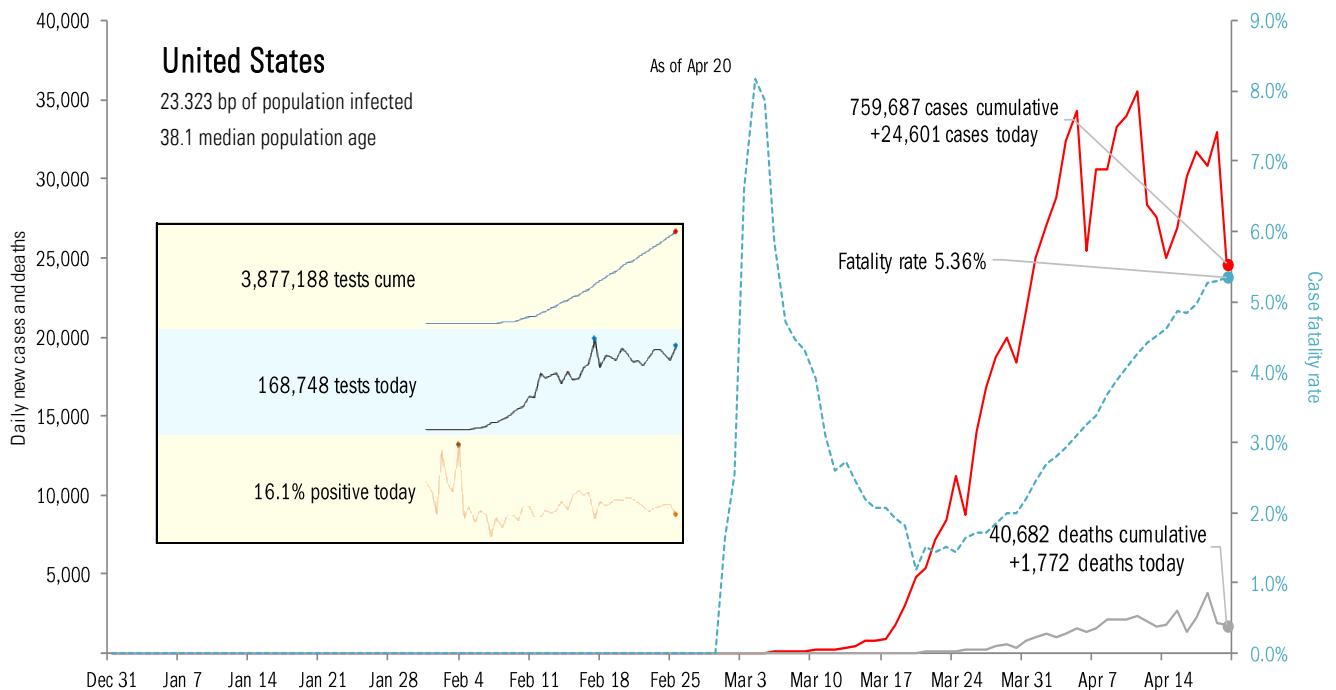
National and state-by-state data do not line up because of different sources

The ten worst US states

New infections		New Deaths		New in hospital		Cume infections		Cume deaths		Cume in hospital	
NY	+6,054	NY	+507	NY	+1,384	NY	242,786	NY	13,869	NY	55,723
NJ	+3,881	PA	+276	MD	+129	NJ	85,301	NJ	4,202	FL	3,930
MA	+1,705	MA	+146	VA	+126	MA	38,077	MI	2,391	GA	3,464
CA	+1,370	NJ	+132	FL	+88	PA	32,284	MA	1,706	MD	2,886
CH	+1,353	CA	+94	KY	+51	MI	31,424	LA	1,296	OH	2,565
PA	+1,215	MI	+83	OH	+46	IL	30,357	IL	1,290	CO	1,797
IL	+1,197	CT	+50	GA	+44	CA	30,333	CA	1,166	VA	1,422
CT	+741	IL	+31	CO	+42	FL	25,996	PA	1,112	WI	1,190
FL	+727	LA	+29	MS	+26	LA	23,928	CT	1,086	KY	1,059
TX	+663	FL	+27	AL	+21	TX	18,923	FL	781	MS	808
+18,906		+1,375		+1,957		559,409		28,899		74,844	
All states	+27,021	All states	+1,654	All states	+2,042	All states	749,203	All states	35,793	All states	80,881
Top ten	70%	Top ten	83%	Top ten	96%	Top ten	75%	Top ten	81%	Top ten	93%

Five most improved US states

Fewer daily infections		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
NY	-1,036	NJ	-98	NY	-531	TX	+528
FL	-423	IL	-94	AR	-291	AZ	+455
PA	-413	NY	-33	SC	-101	KY	+195
IL	-388	FL	-28	FL	-89	MD	+143
MA	-265	LA	-25	GA	-52	UT	+114



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

Recommended reading

[Let's Look at the BCG Theory Again](#)

Alex To
Cross Current Research
April 19, 2020

[Analysis of SARS-CoV-2 Antibodies in COVID-19 Convalescent Plasma using a Coronavirus Antigen Microarray](#)

Rafael R de Assis et al.
medRxiv
April 17, 2020

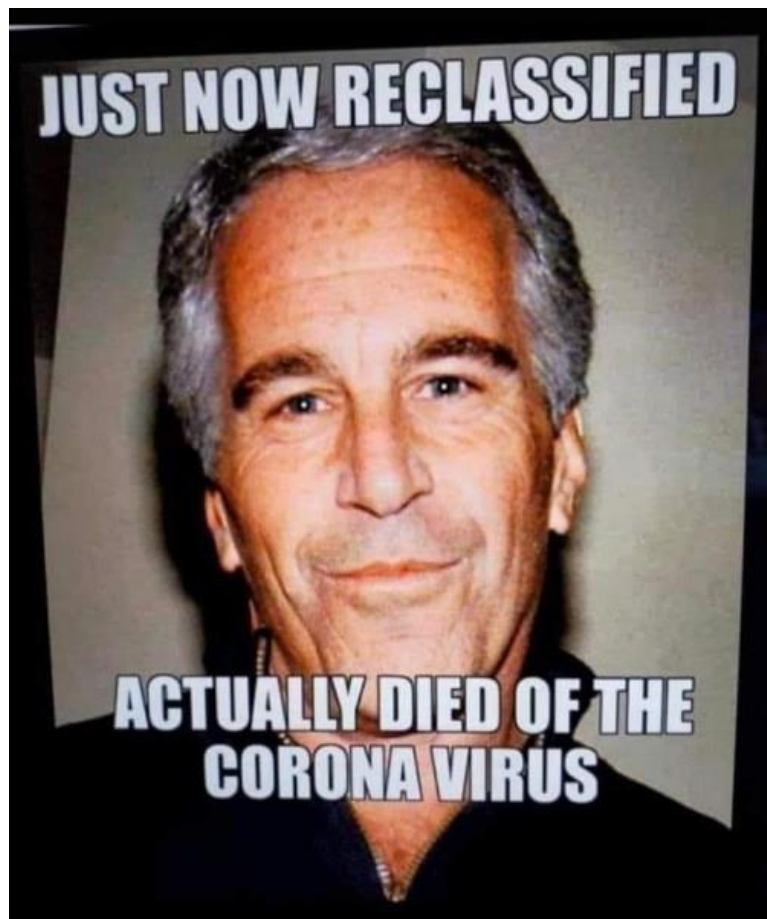
[Chinese Coronavirus Is a Man Made Virus According to Luc Montagnier the Man Who Discovered HIV](#)

Robert Miller
Gilmore Health
April 16, 2020

[COVID-19 Antibody Seroprevalence in Santa Clara County, California](#)

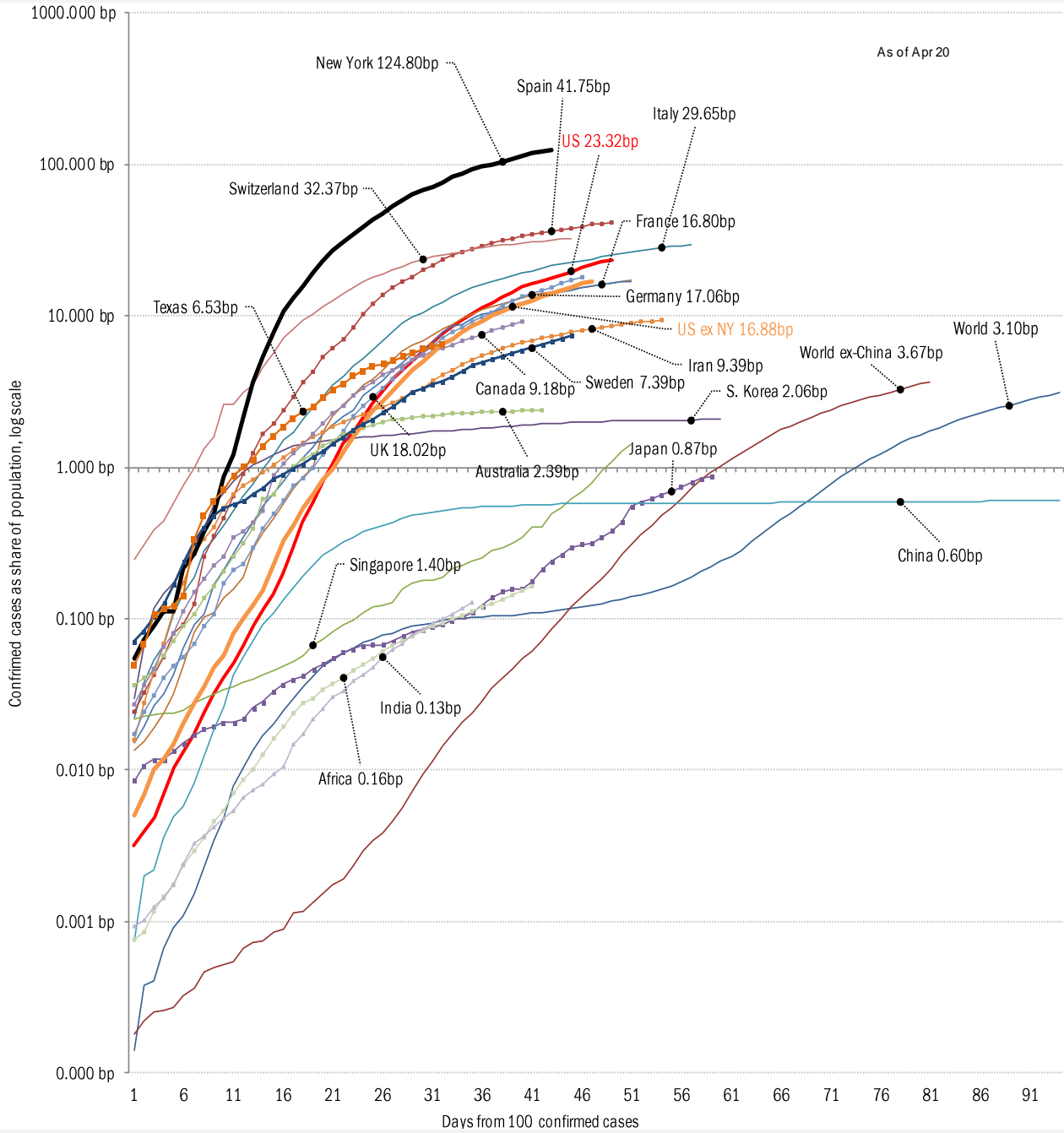
Eran Bendavid et al.
medRxiv
April 17, 2020

Meme of the day



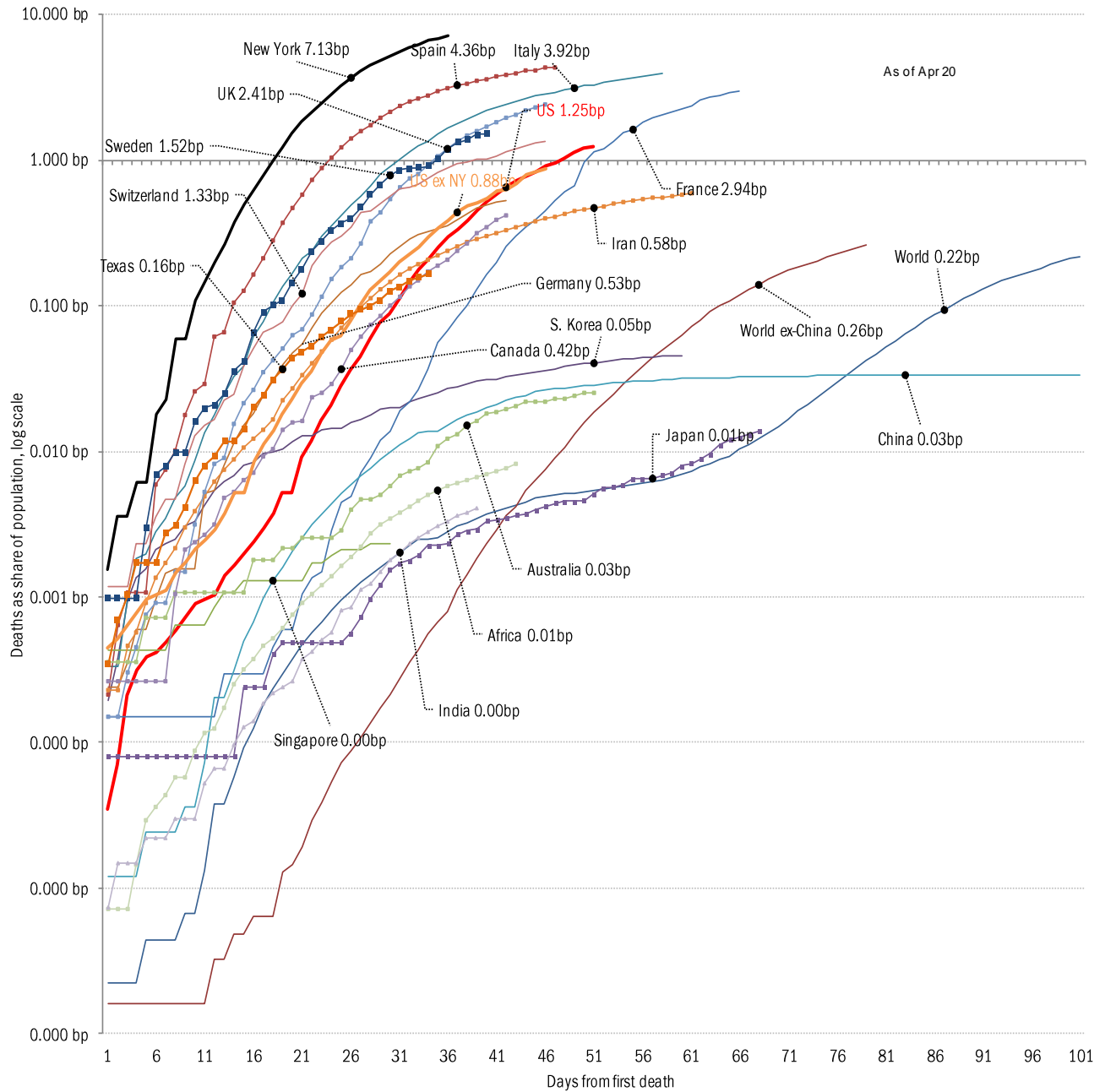
Source: Our beloved clients, and [Power Line blog "The Week in Cartoons"](#)

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



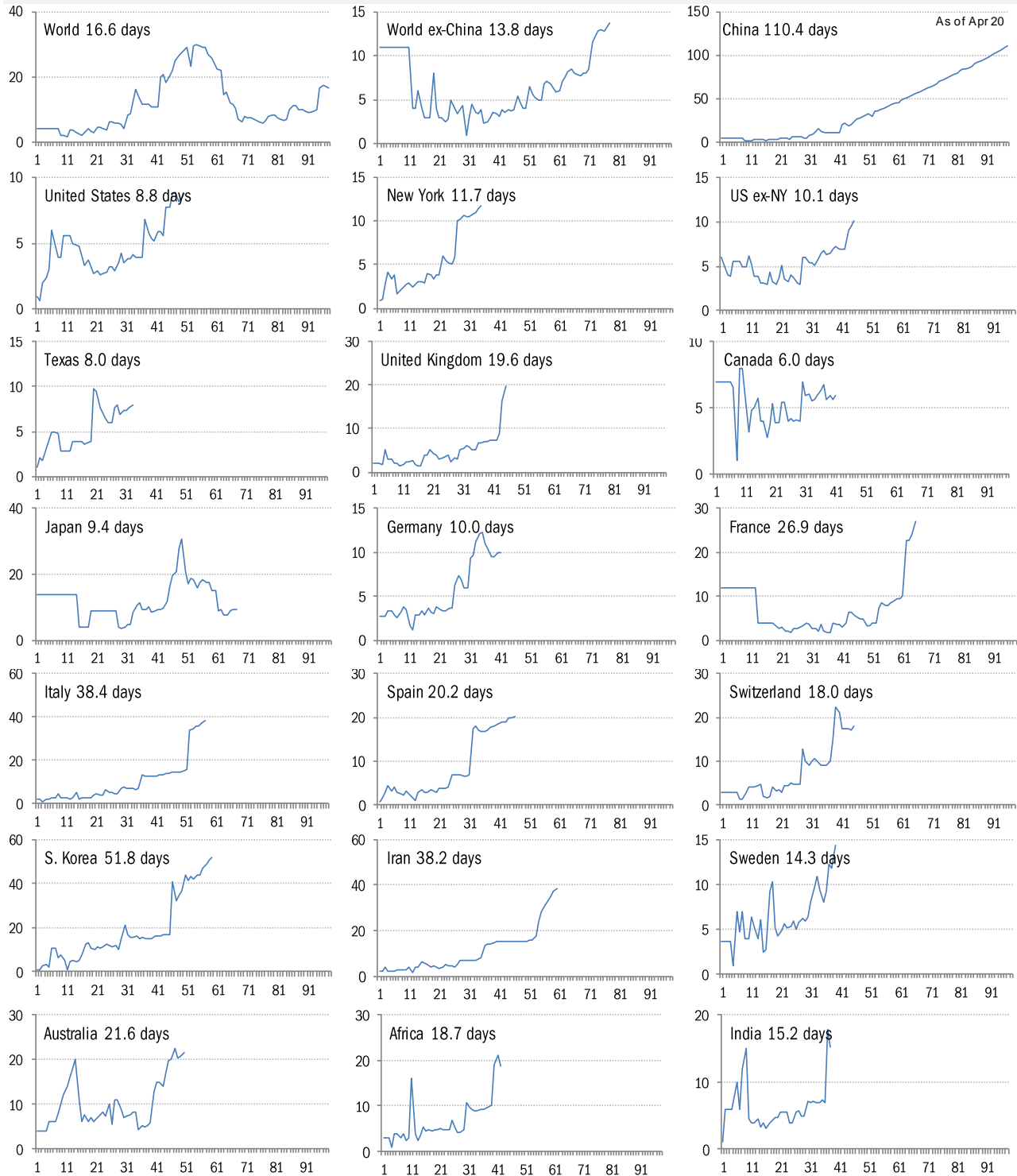
Source: [ECDC](#), TrendMacro calculations

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

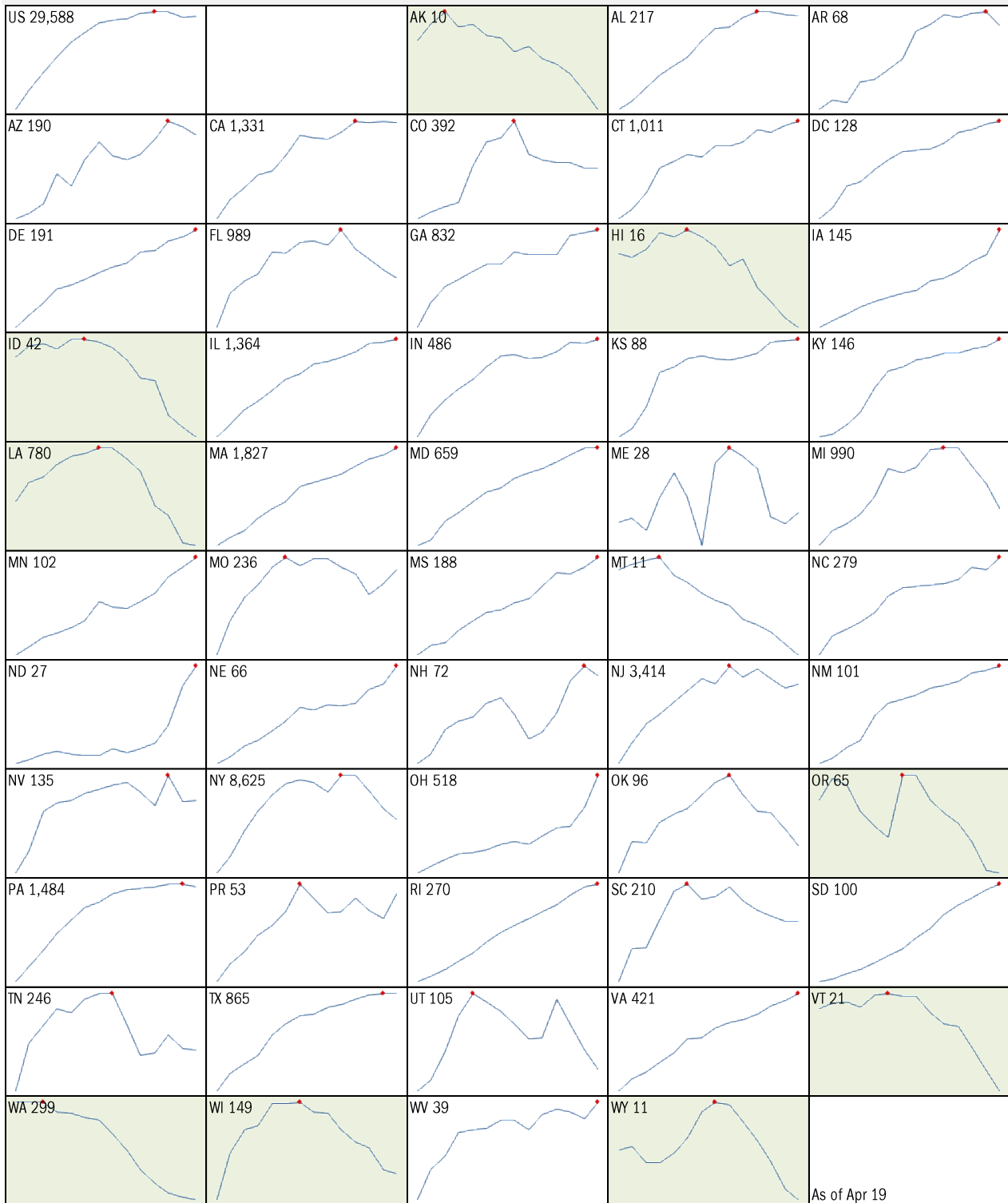
Progress means seeing the line move up and to the right. . .

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



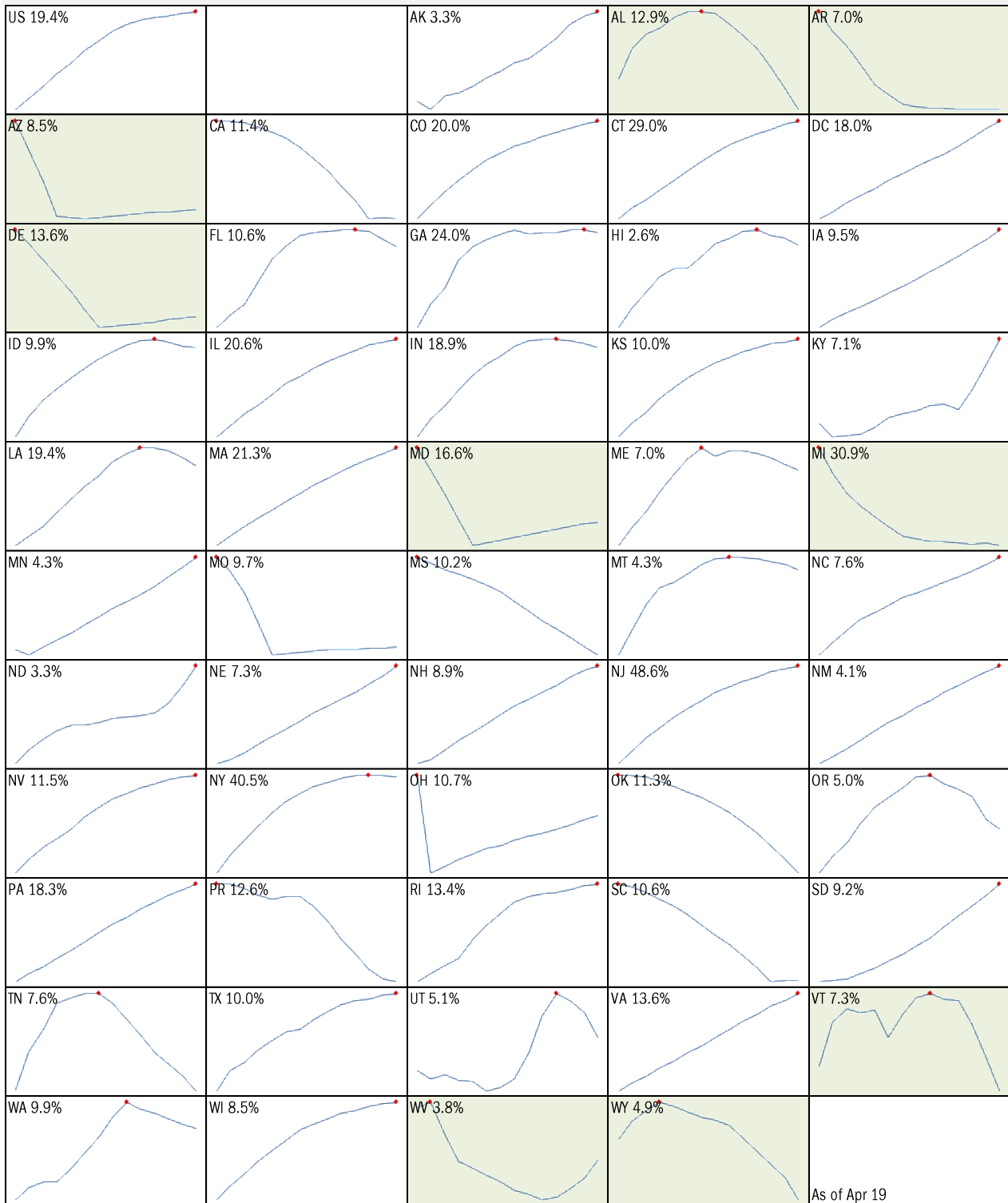
Source: [ECDC](#), TrendMacro calculations

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



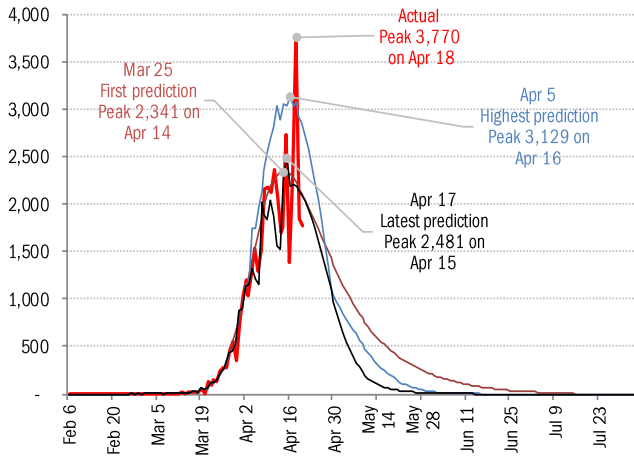
Source: [Covid Tracking Project](#), TrendMacro calculations

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

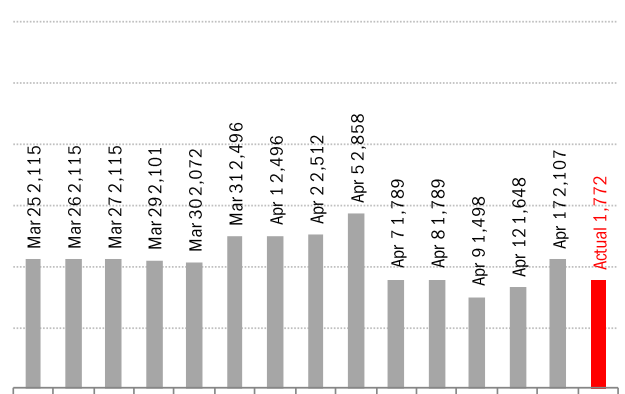
New daily fatalities

As of Apr 20

Actual versus first, highest and latest model mean predictions

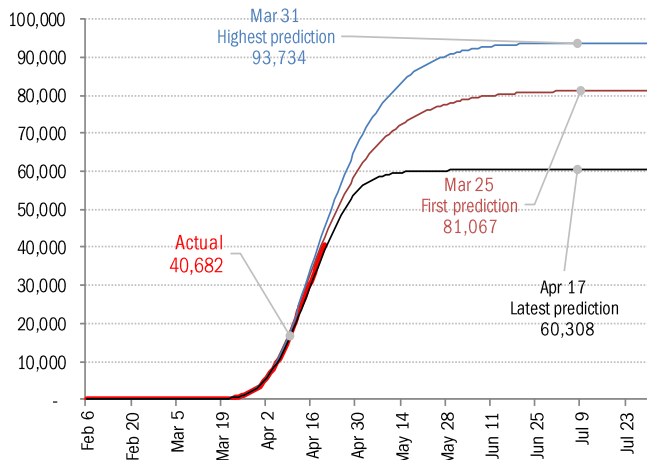


For this day, versus all model mean predictions

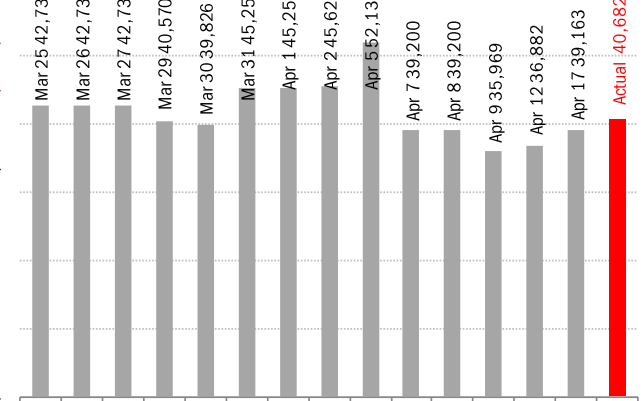


Cumulative fatalities

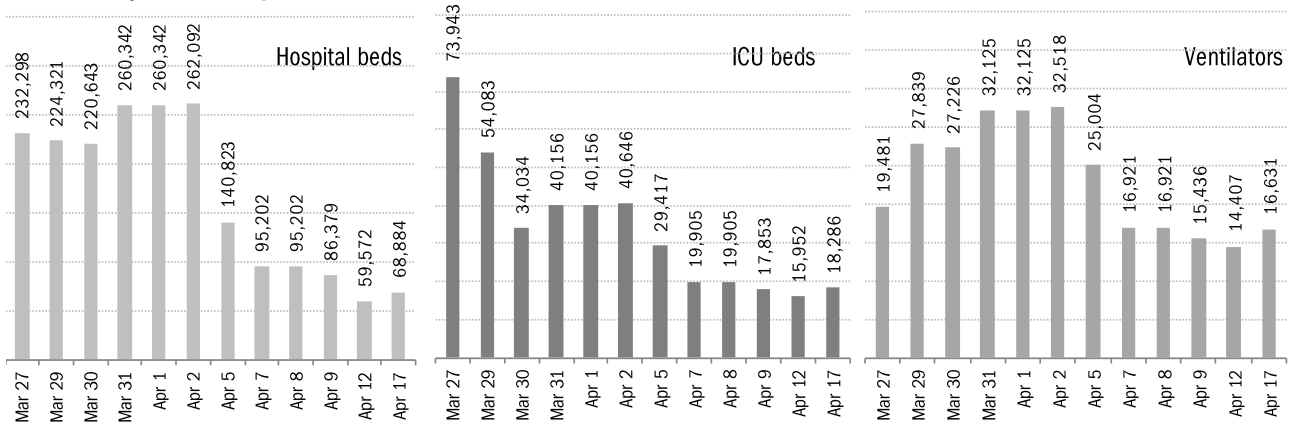
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

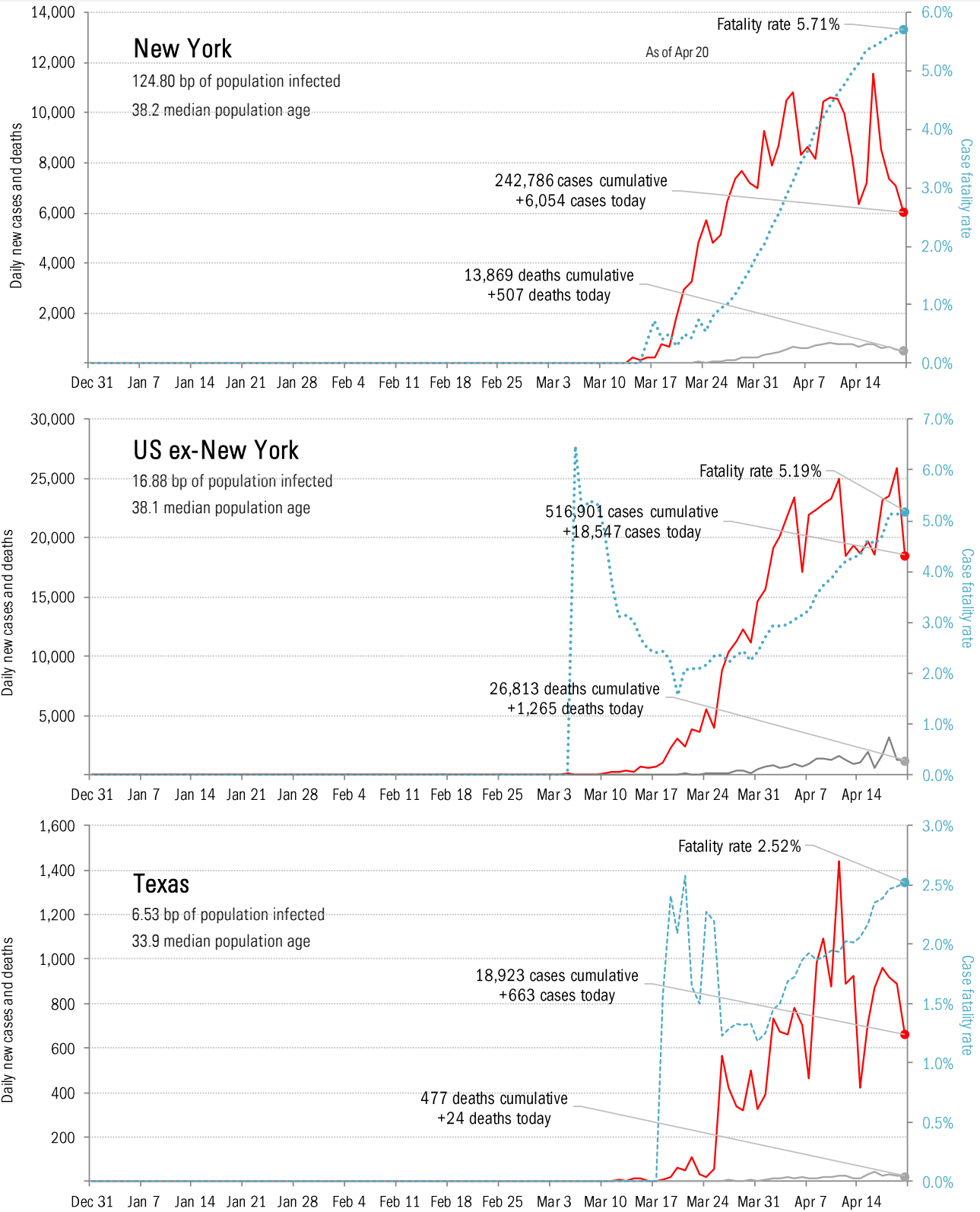


Healthcare system stress, peak estimated at each model revision



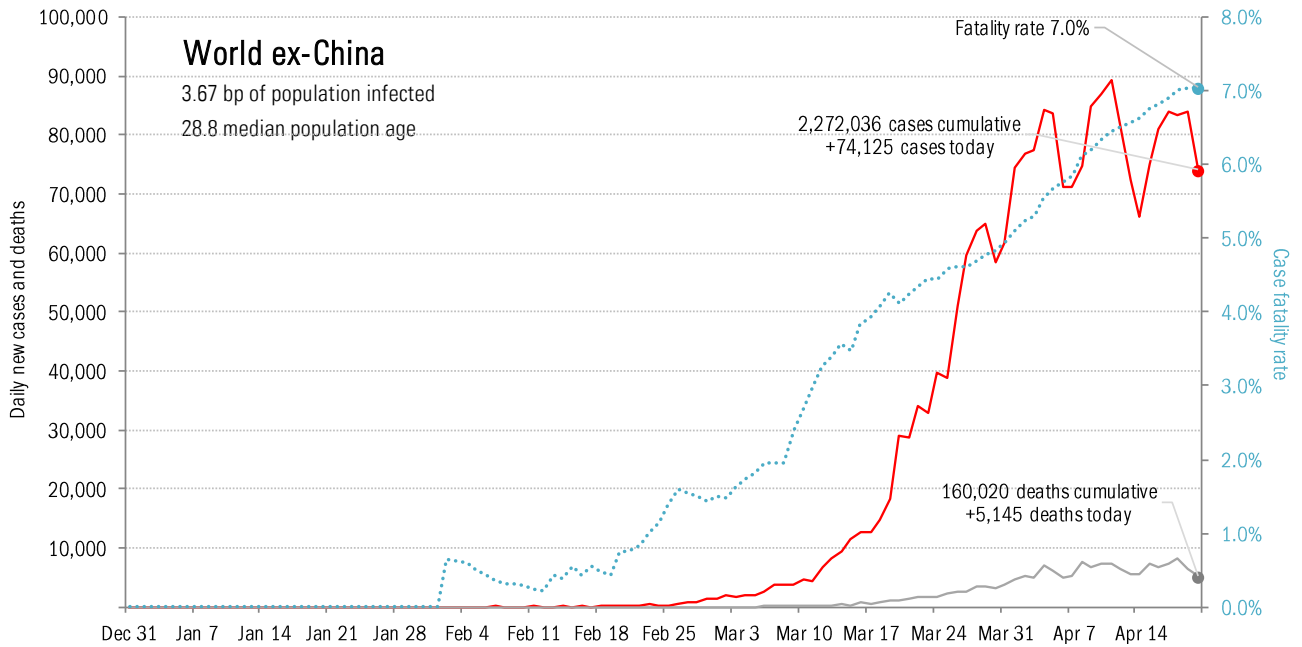
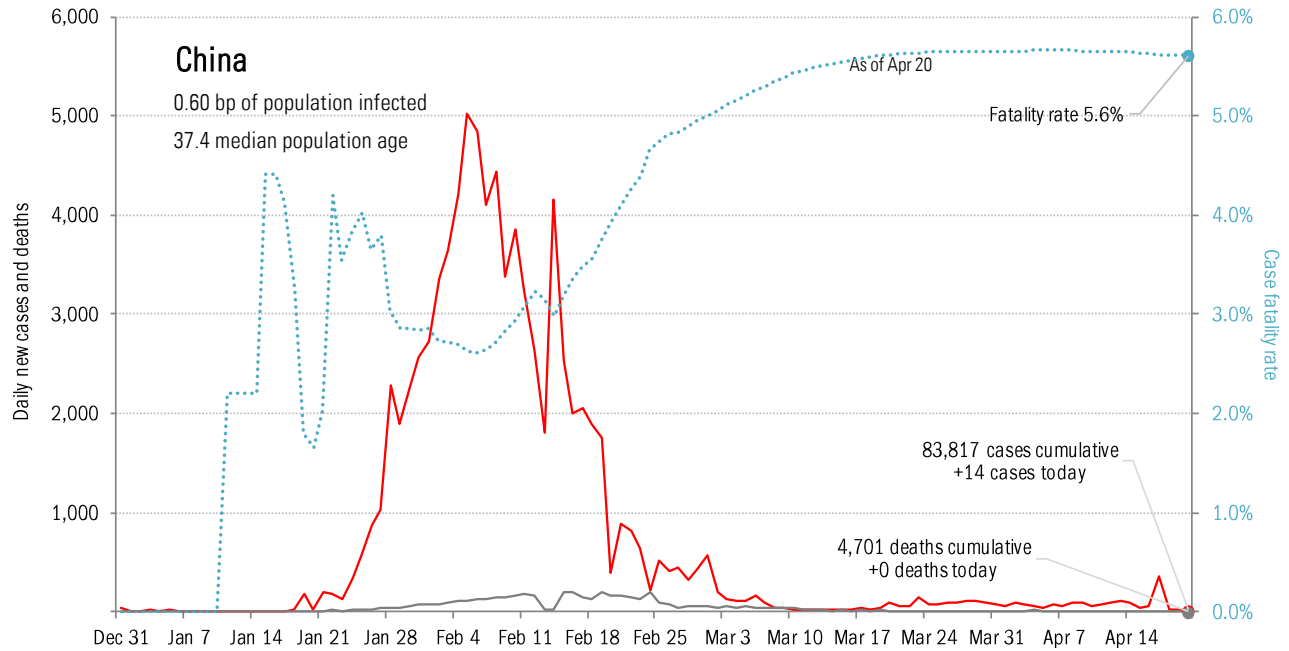
Source: [ECDC](#), TrendMacro calculations

From Ground Zero to the Rio Grande



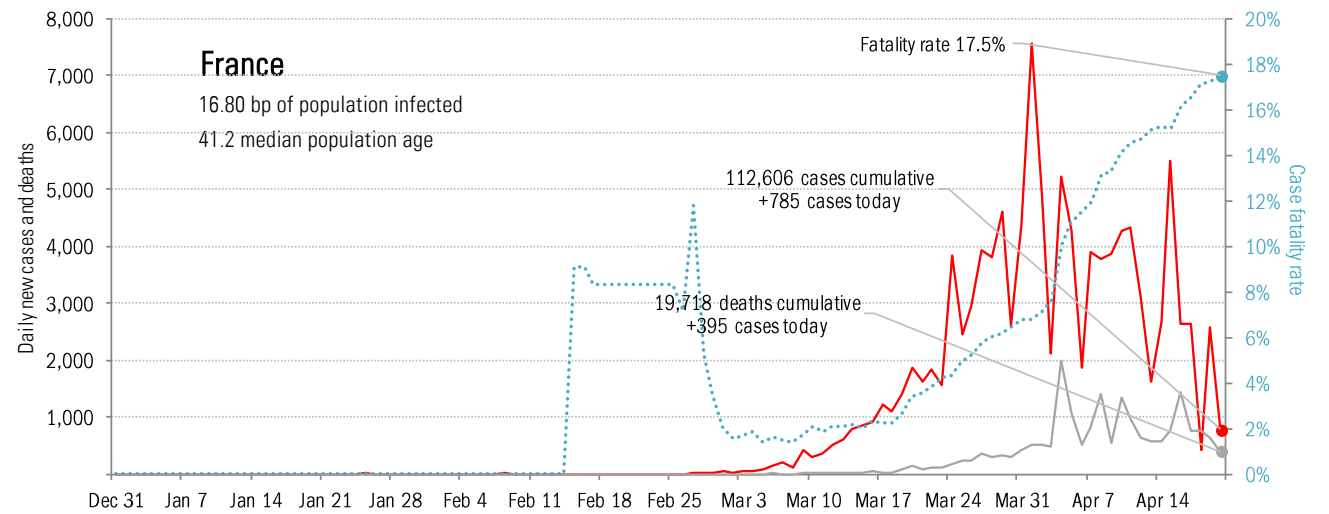
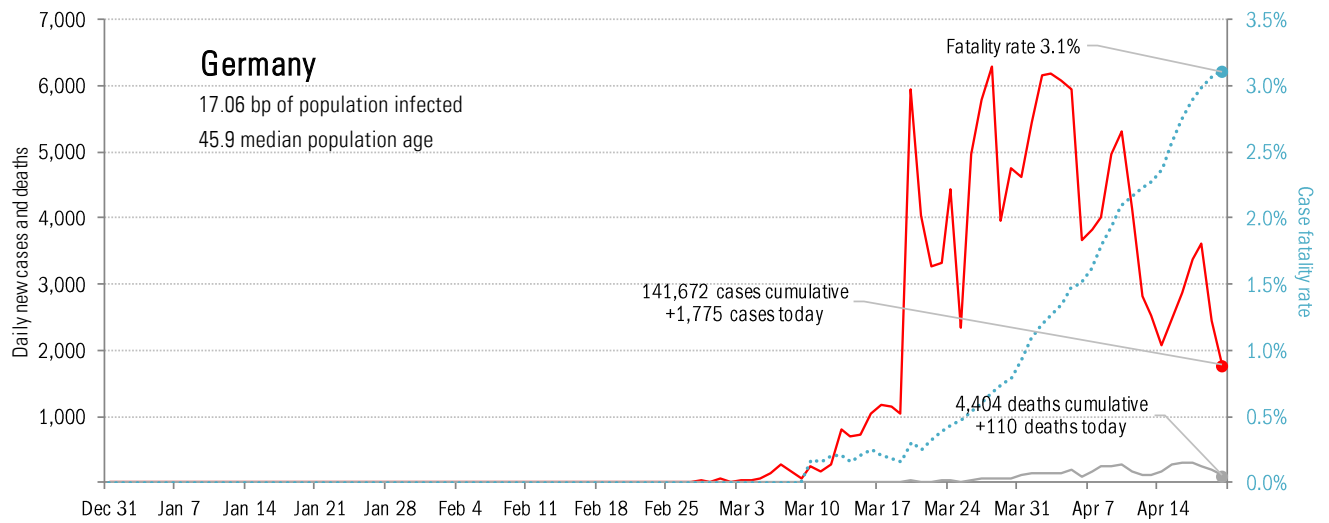
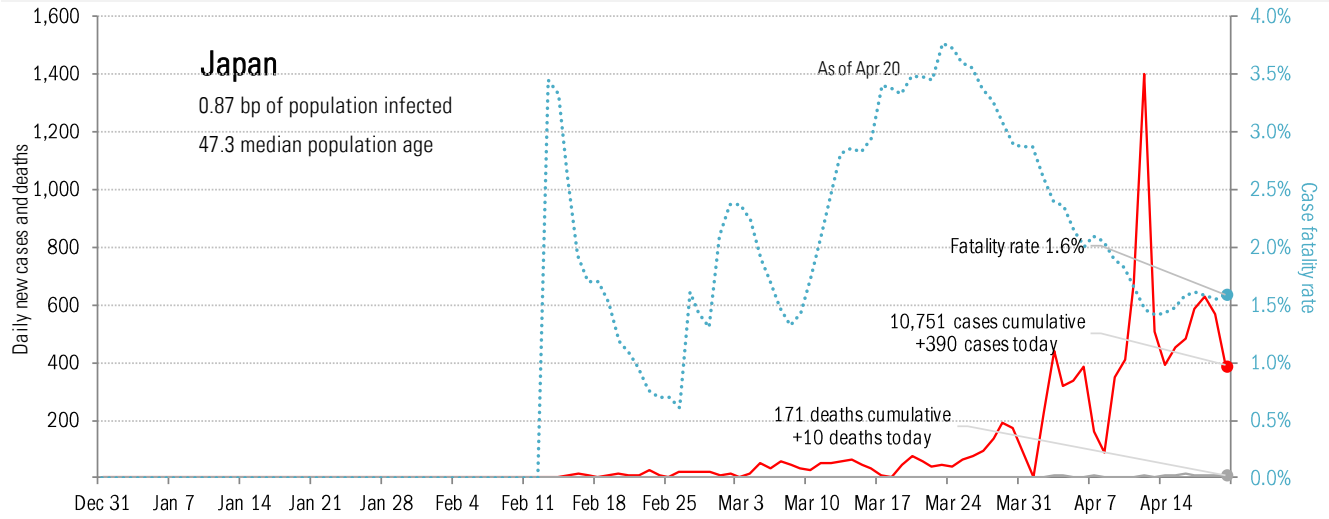
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



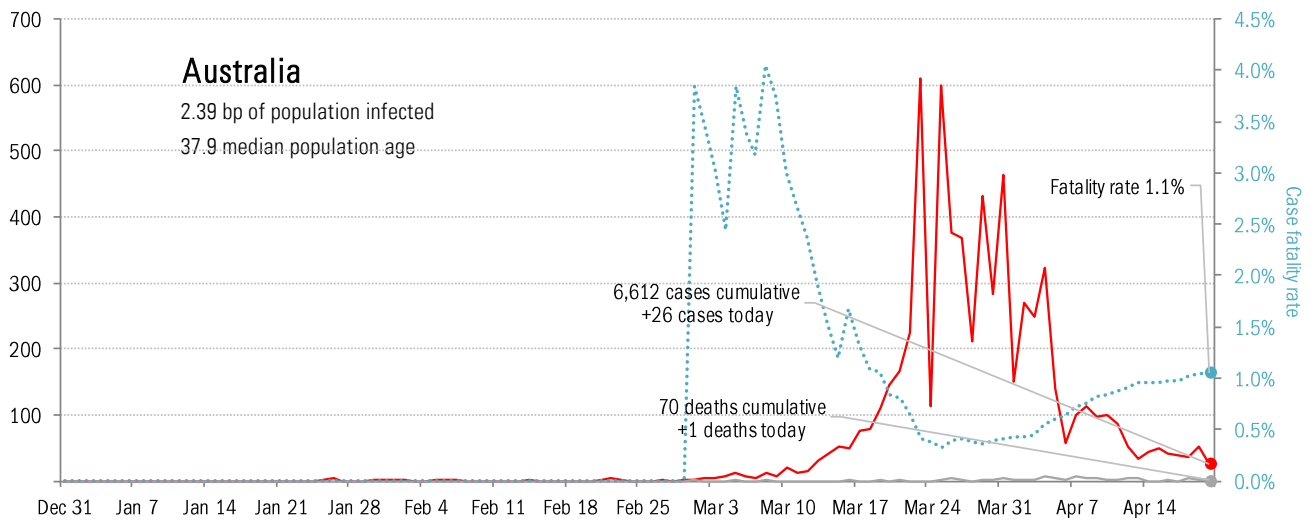
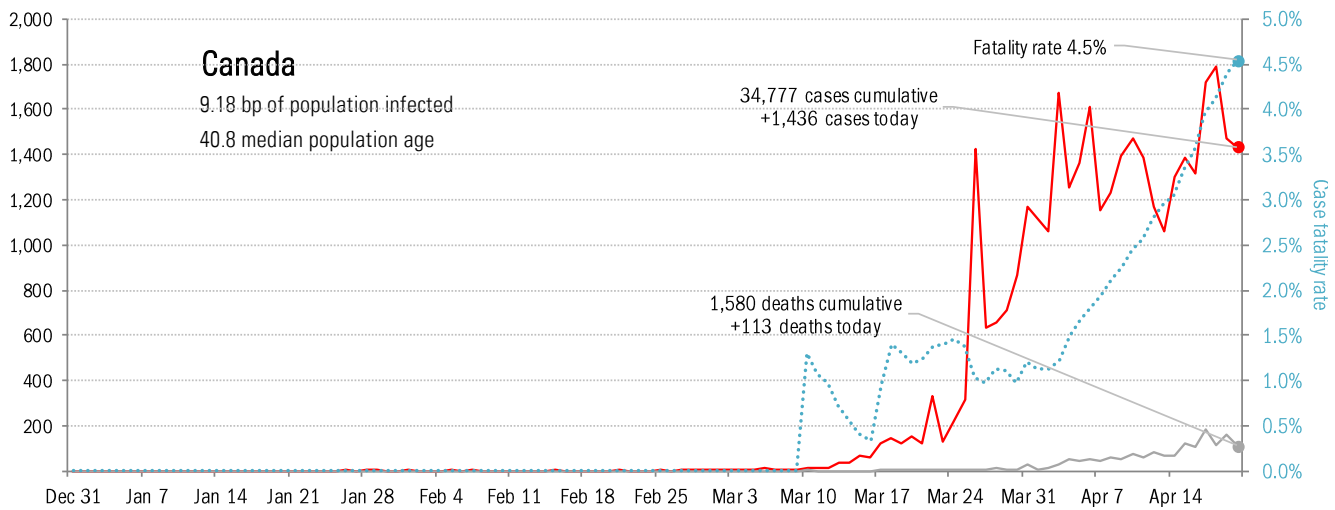
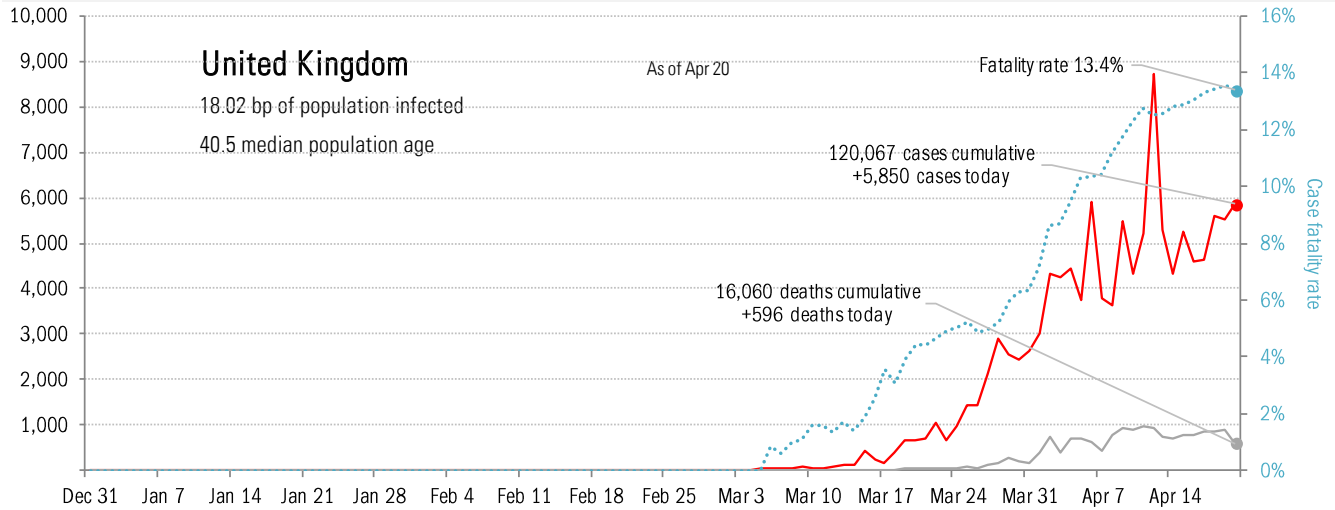
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



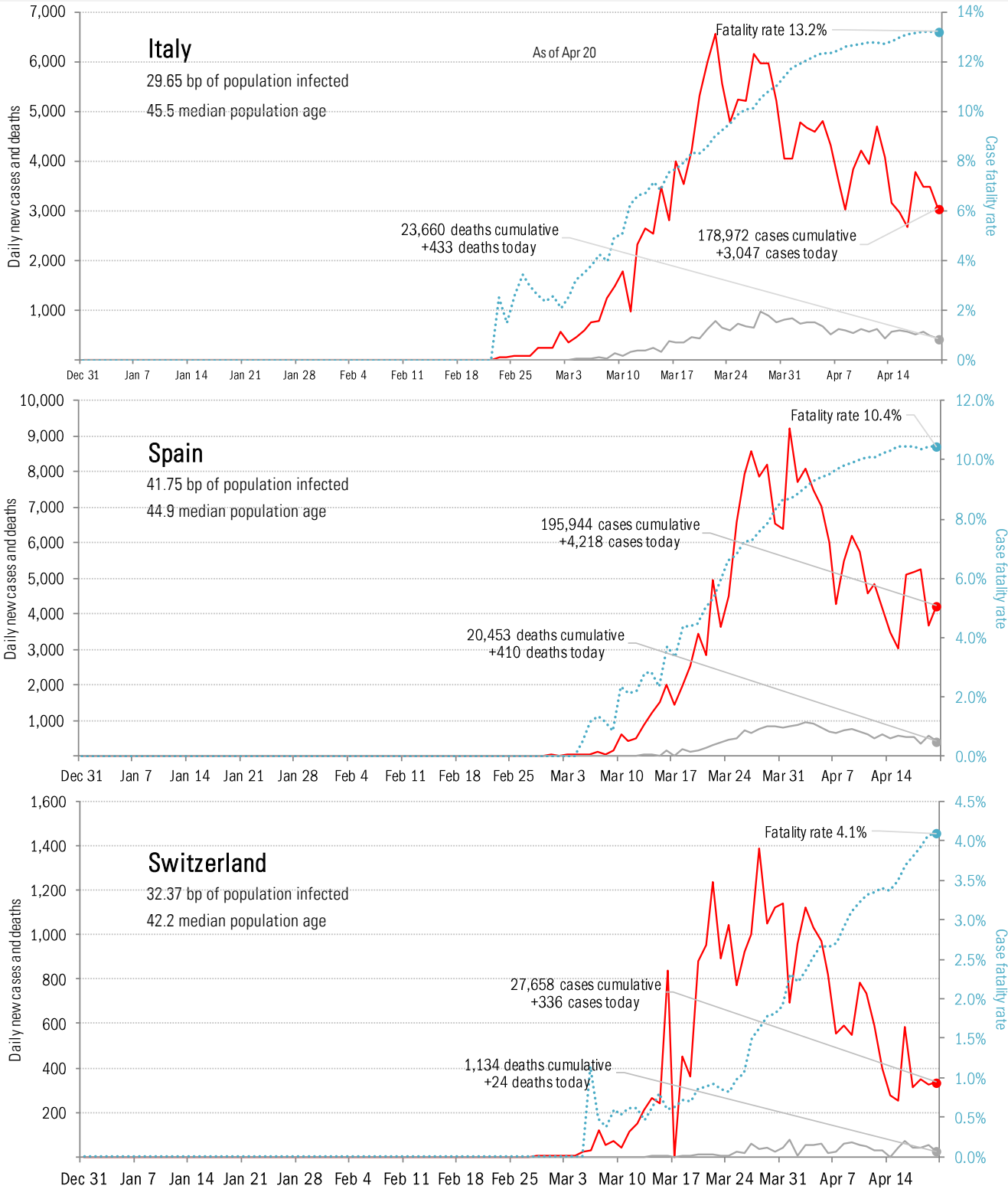
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



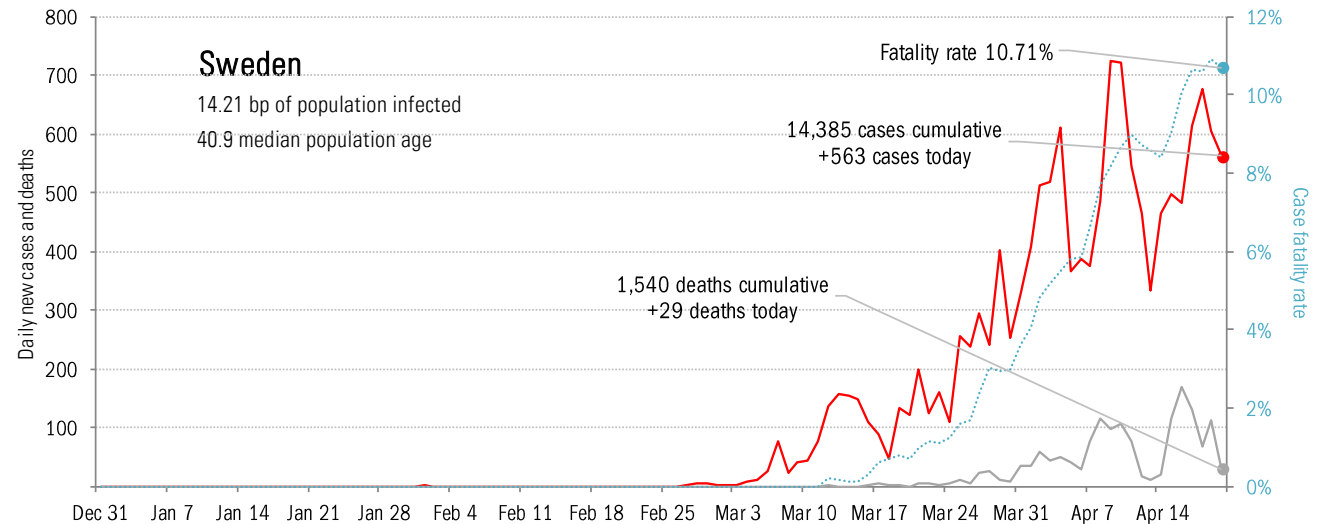
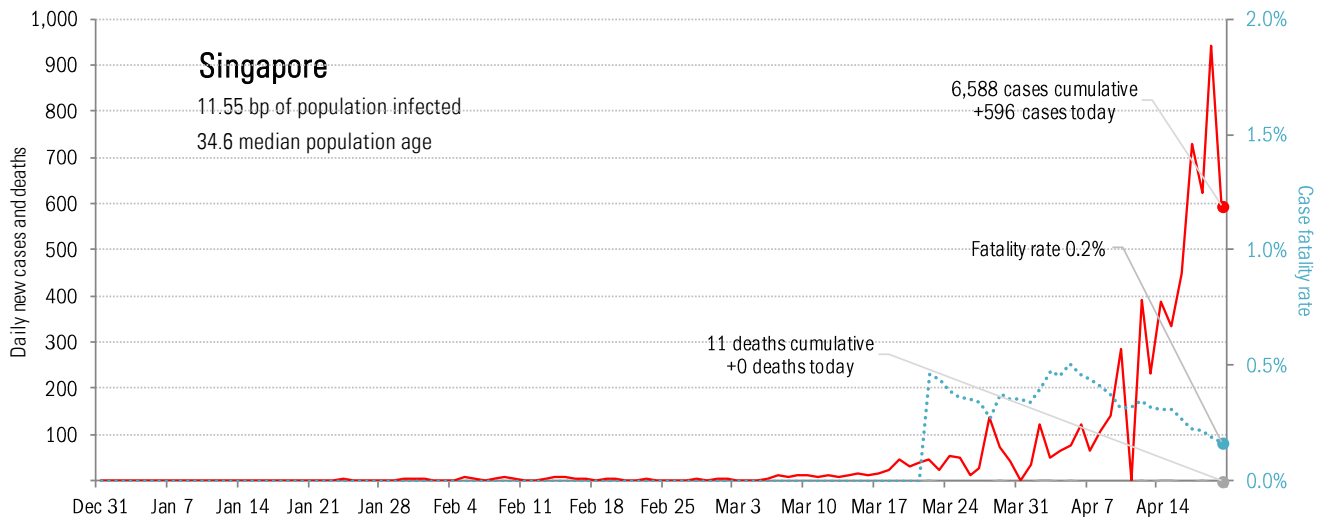
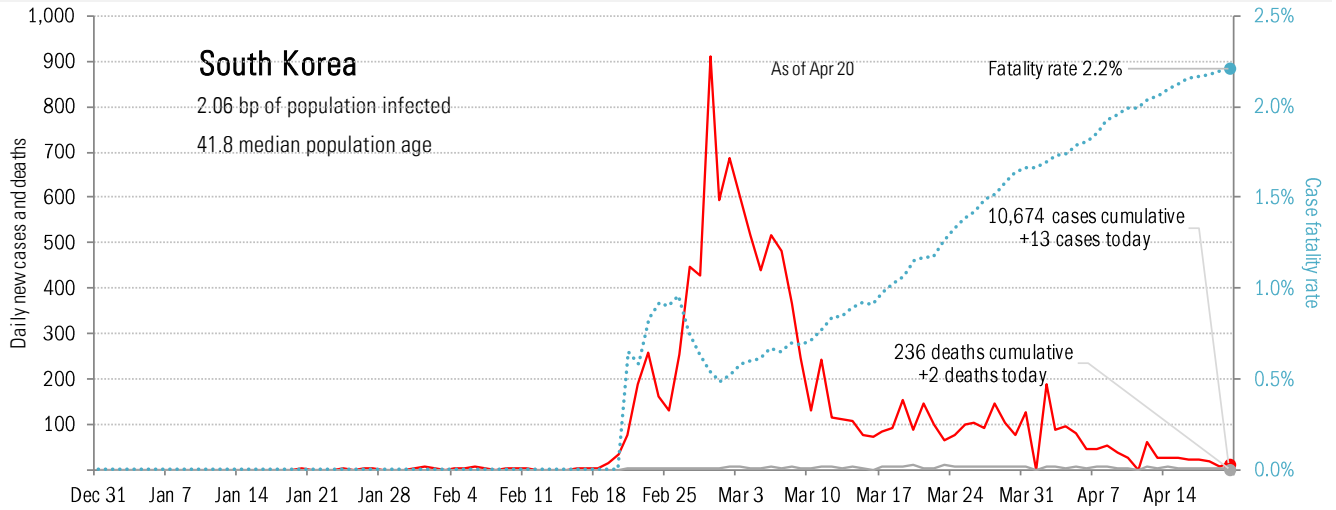
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



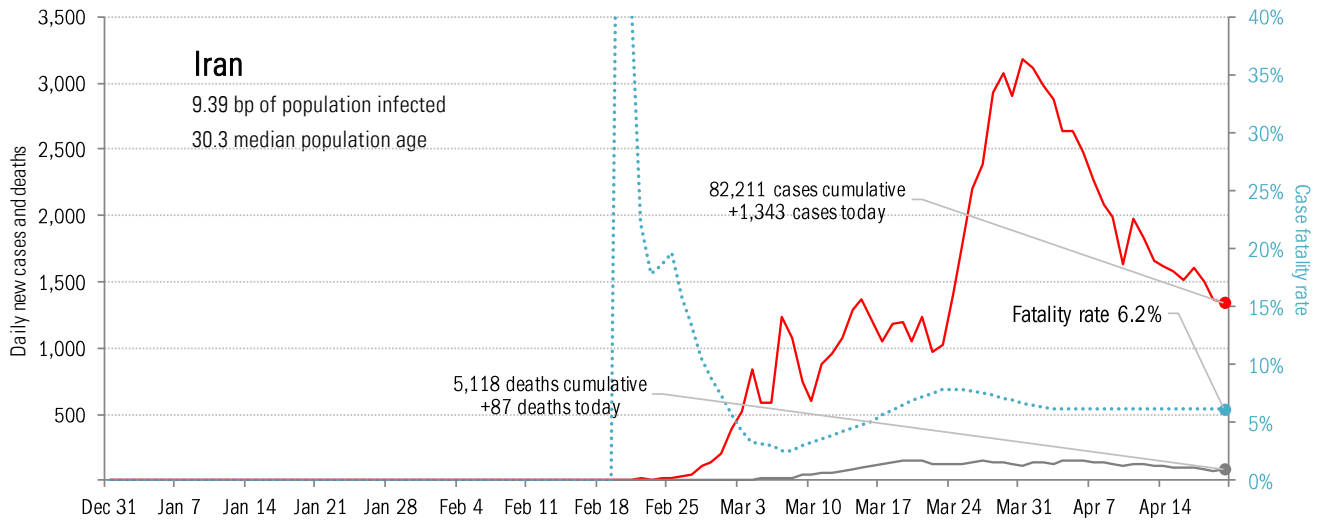
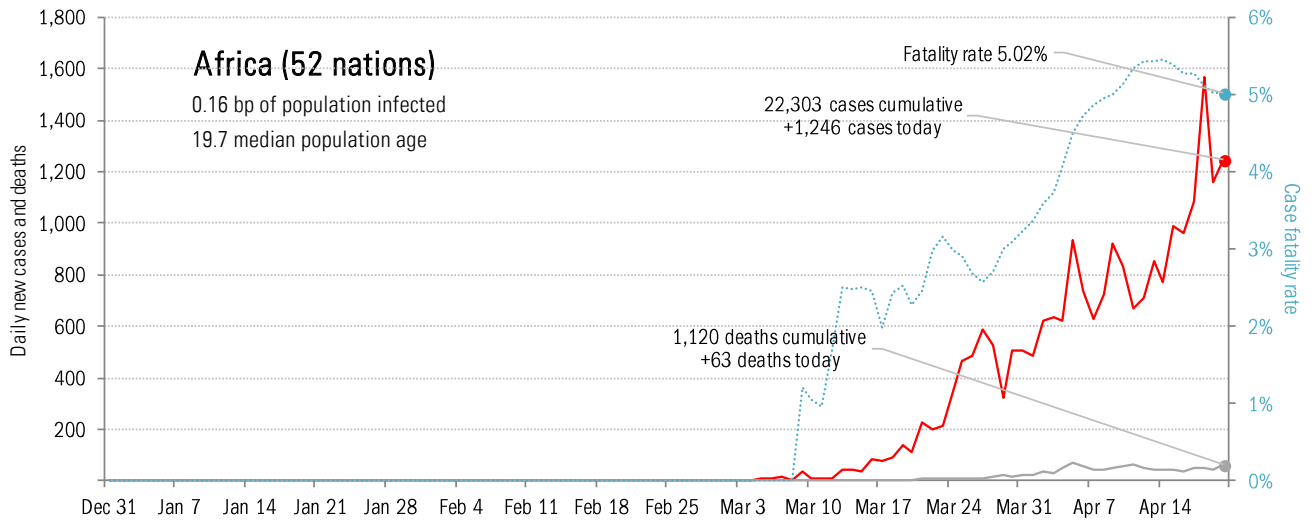
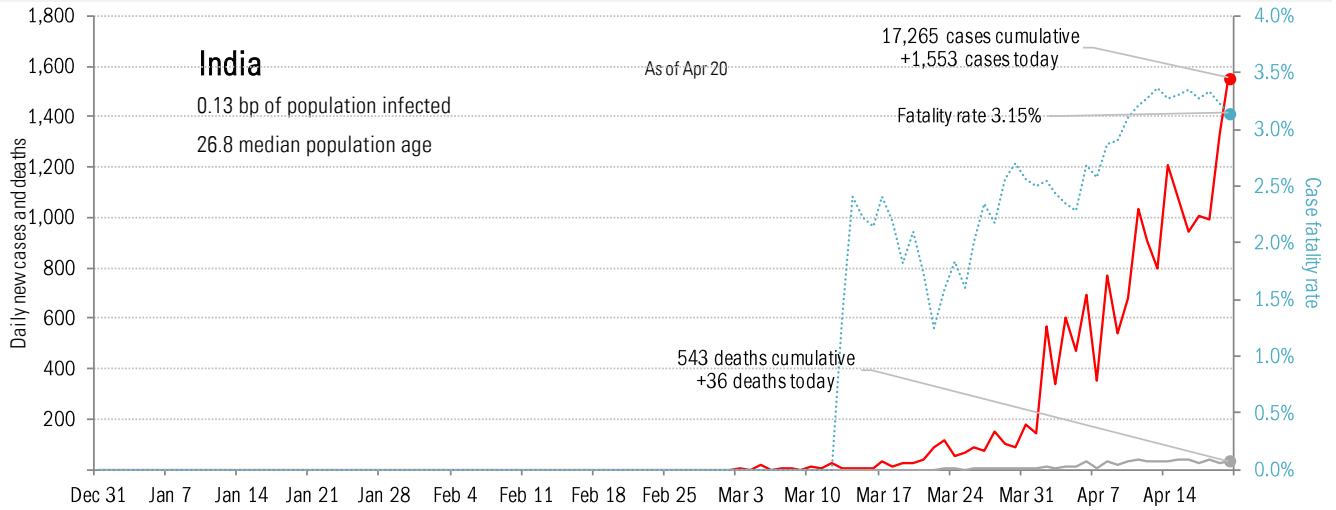
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

Impact in the fragile emerging world



Source: [ECDC](#), TrendMacro calculations