

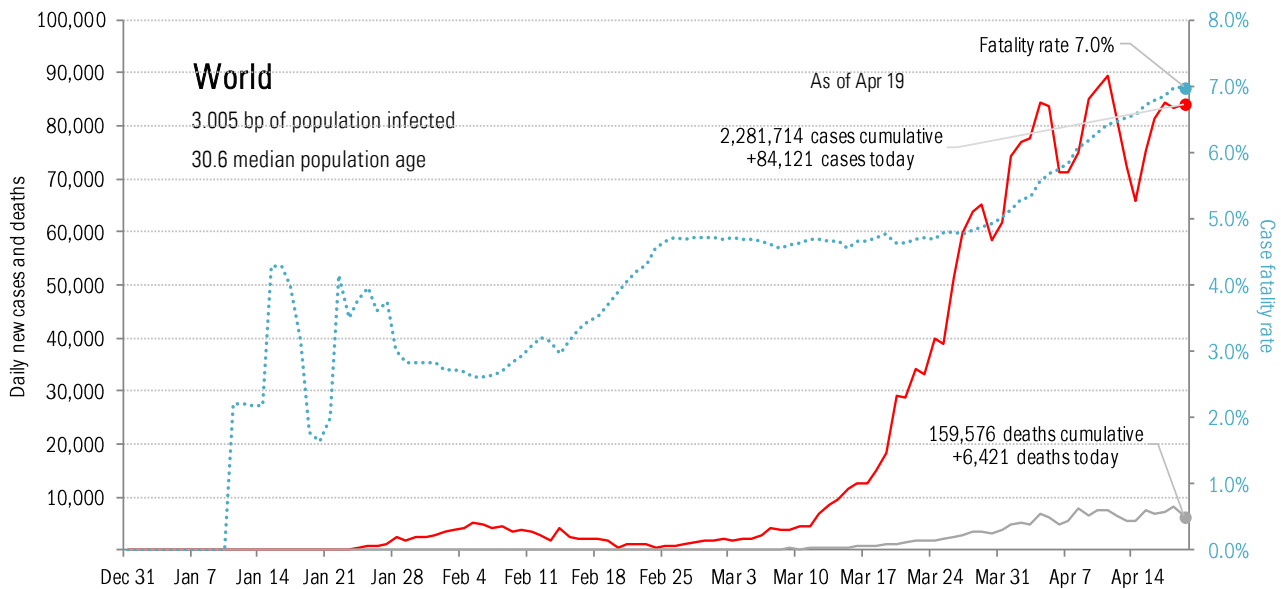
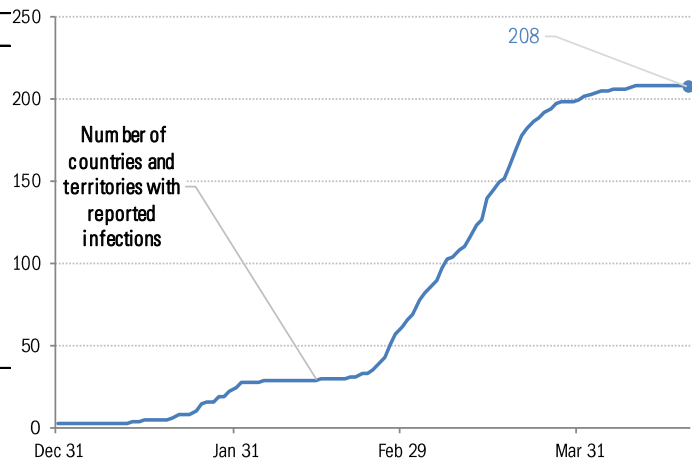
Data Insights: Covid-2019 Monitor

Sunday, April 19, 2020

The global scorecard

The worst ten countries

New infections		New Deaths	
US	+32,922	US	+1,856
UK	+5,525	UK	+888
Russia	+4,785	France	+642
Turkey	+3,783	Spain	+565
Spain	+3,658	Italy	+480
Italy	+3,491	Belgium	+290
Brazil	+2,917	Brazil	+206
France	+2,569	Germany	+184
Germany	+2,458	Canada	+158
Canada	+1,469	Netherlands	+142
+63,577		+5,411	
World	+84,121	World	+6,421
Top ten	76%	Top ten	84%



Source: [ECDC](#), TrendMacro calculations

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The US scorecard

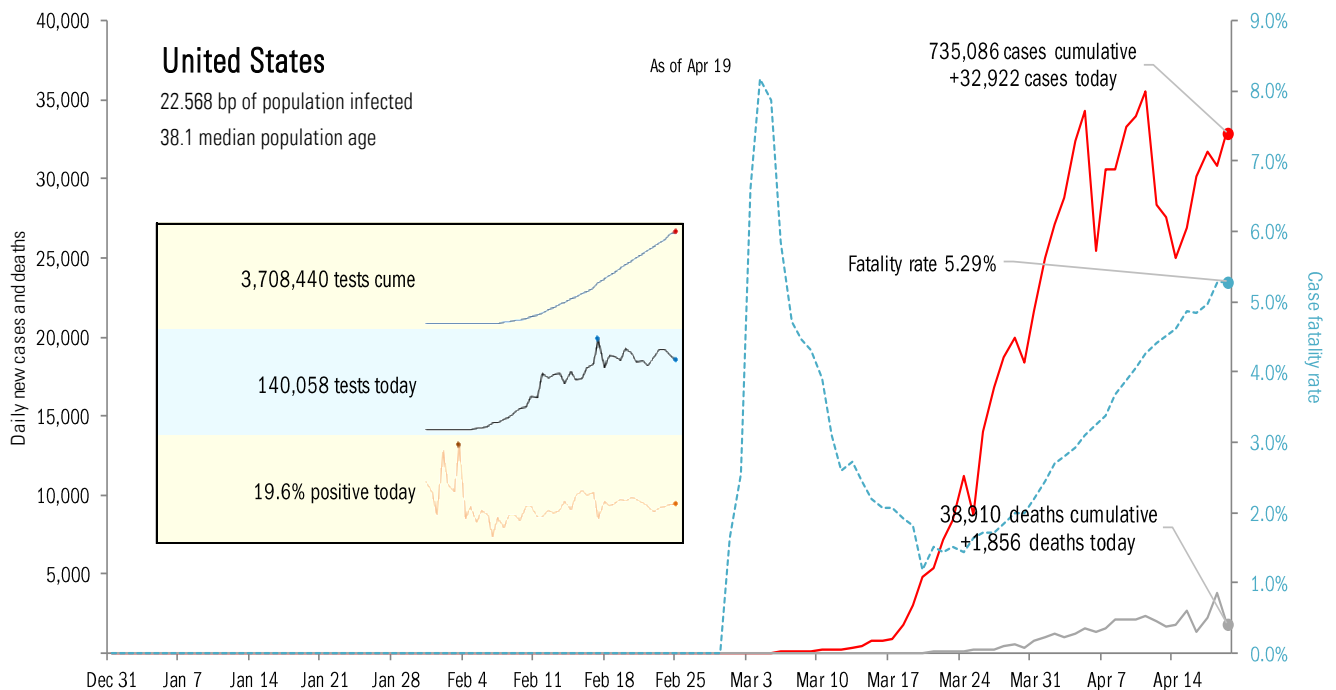
National and state-by-state data do not line up because of different sources

The ten worst US states

New infections		New Deaths		New in hospital		Cume infections		Cume deaths		Cume in hospital	
NY	+7,090	NY	+540	NY	+1,915	NY	236,732	NY	13,362	NY	54,339
NJ	+2,953	NJ	+230	AR	+291	NJ	81,420	NJ	4,070	FL	3,842
MA	+1,970	MA	+156	FL	+177	MA	36,372	MI	2,308	GA	3,420
PA	+1,628	IL	+125	MD	+145	PA	31,069	MA	1,560	MD	2,757
IL	+1,585	CA	+87	SC	+101	MI	30,791	LA	1,267	OH	2,519
CA	+1,435	MI	+81	GA	+96	IL	29,160	IL	1,259	CO	1,755
FL	+1,150	PA	+80	OH	+95	CA	28,963	CA	1,072	VA	1,296
CH	+1,081	FL	+55	VA	+75	FL	25,269	CT	1,036	WI	1,176
TX	+889	LA	+54	CO	+62	LA	23,580	PA	836	KY	1,008
MI	+768	MD	+38	MS	+46	TX	18,260	FL	754	MS	782
+20,549		+1,446		+3,003		541,616		27,524		72,894	
All states	+27,662	All states	+1,774	All states	+884	All states	722,182	All states	34,139	All states	78,839
Top ten	74%	Top ten	82%	Top ten	340%	Top ten	75%	Top ten	81%	Top ten	92%

Five most improved US states

Fewer daily infections		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
GA	-1,050	NJ	-92	MA	-2,340	SC	+2,633
CT	-925	NY	-90	KY	-127	MI	+2,608
NY	-268	CT	-65	GA	-120	TX	+616
IL	-257	MI	-53	NY	-59	TN	+217
MA	-251	GA	-40	VA	-32	OK	+184



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

Recommended reading

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

Eran Bendavid 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

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

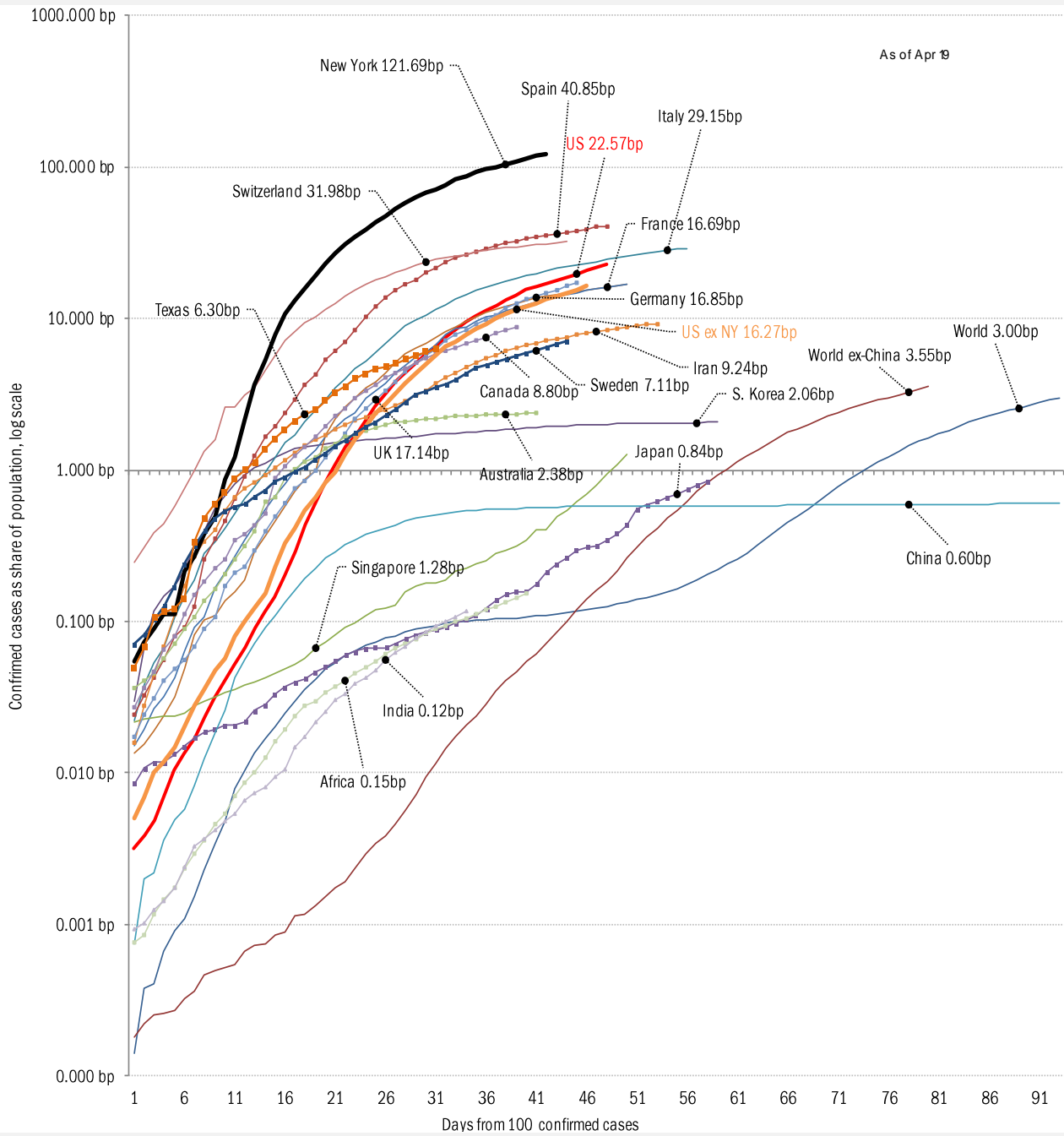
Rafael R de Assis et al.
medRxiv
April 17, 2020

Meme of the day



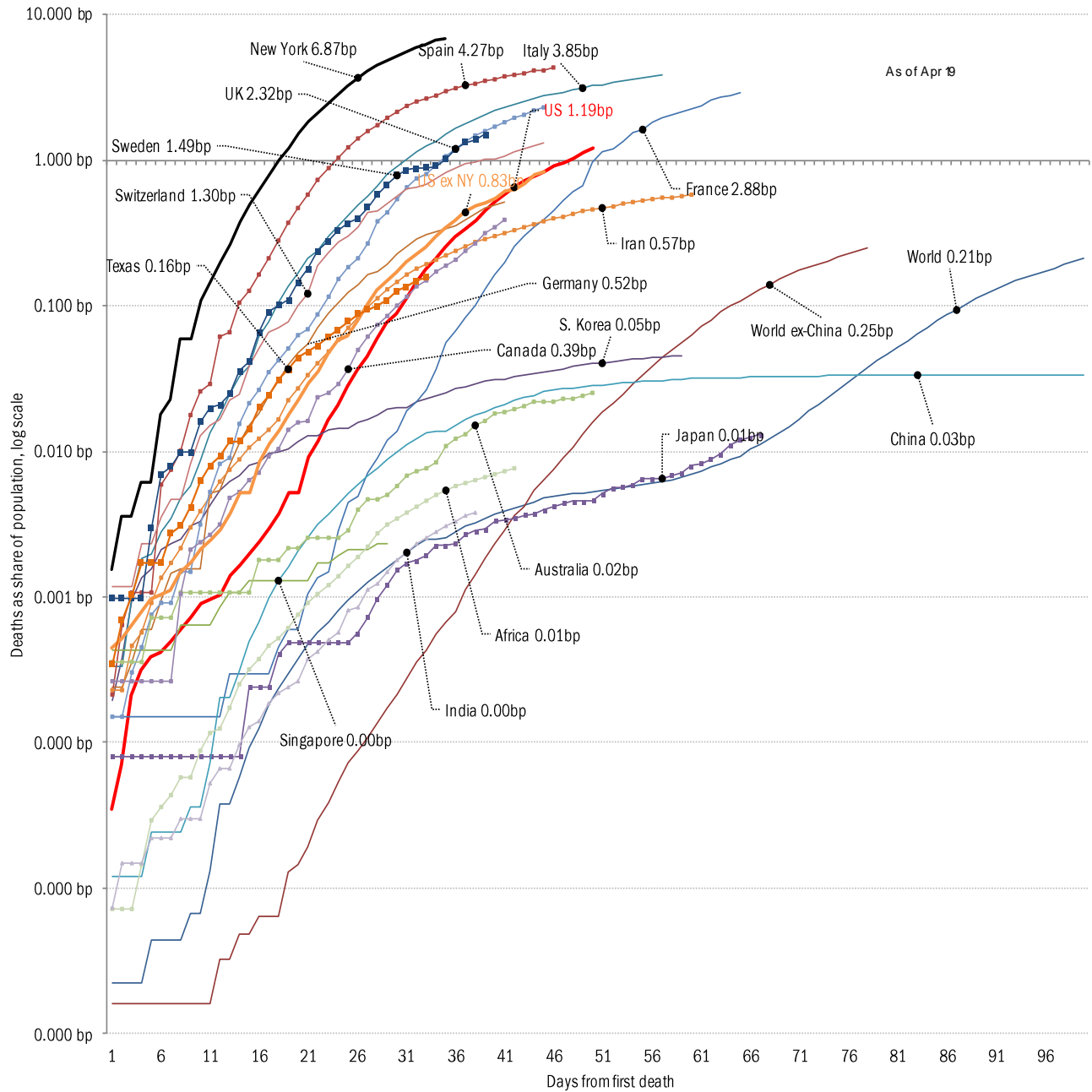
Source: Our beloved clients, and [Power Line blog "The Week in Cartoons"](#)

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



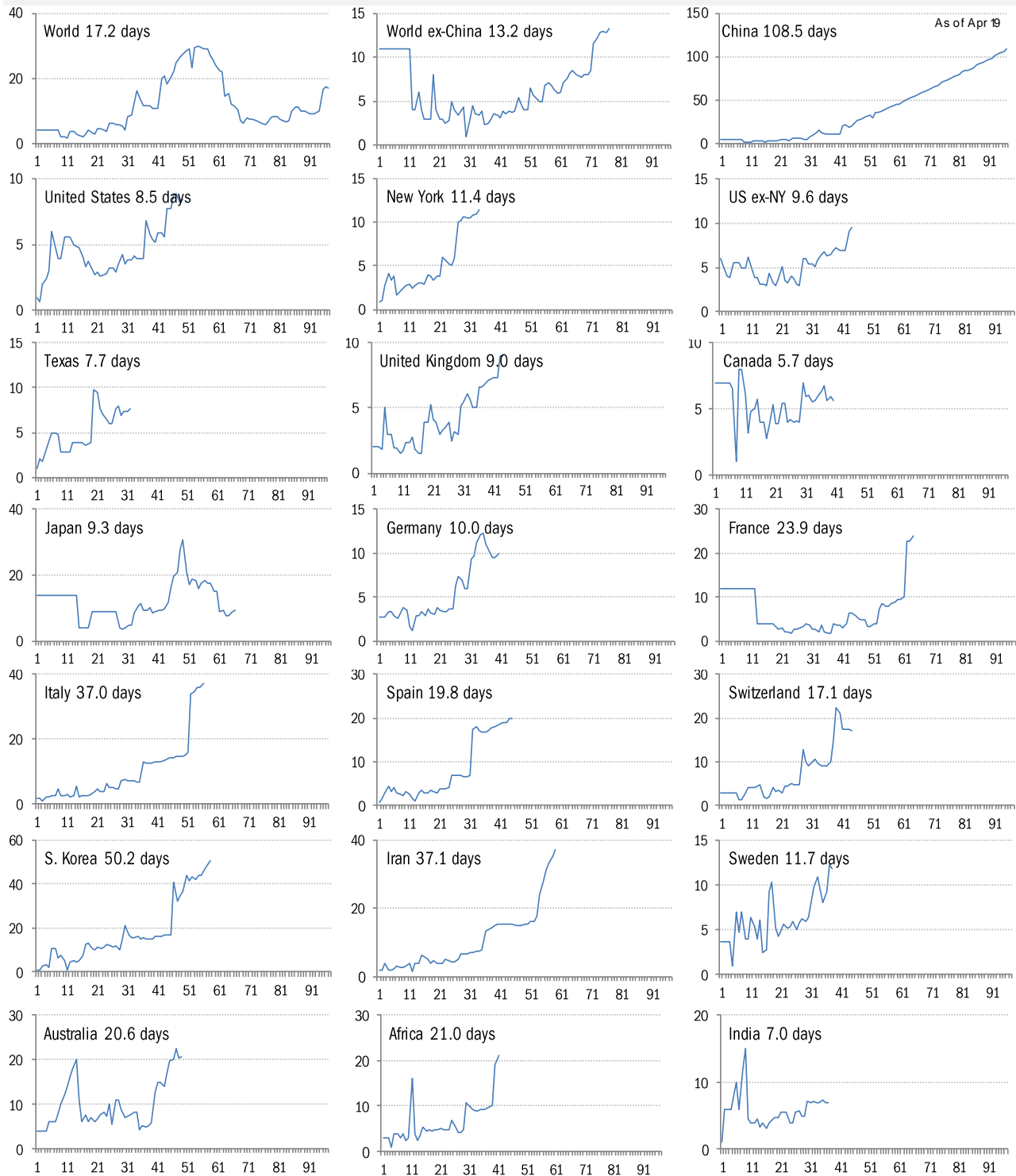
Source: [ECDC](#), TrendMacro calculations

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

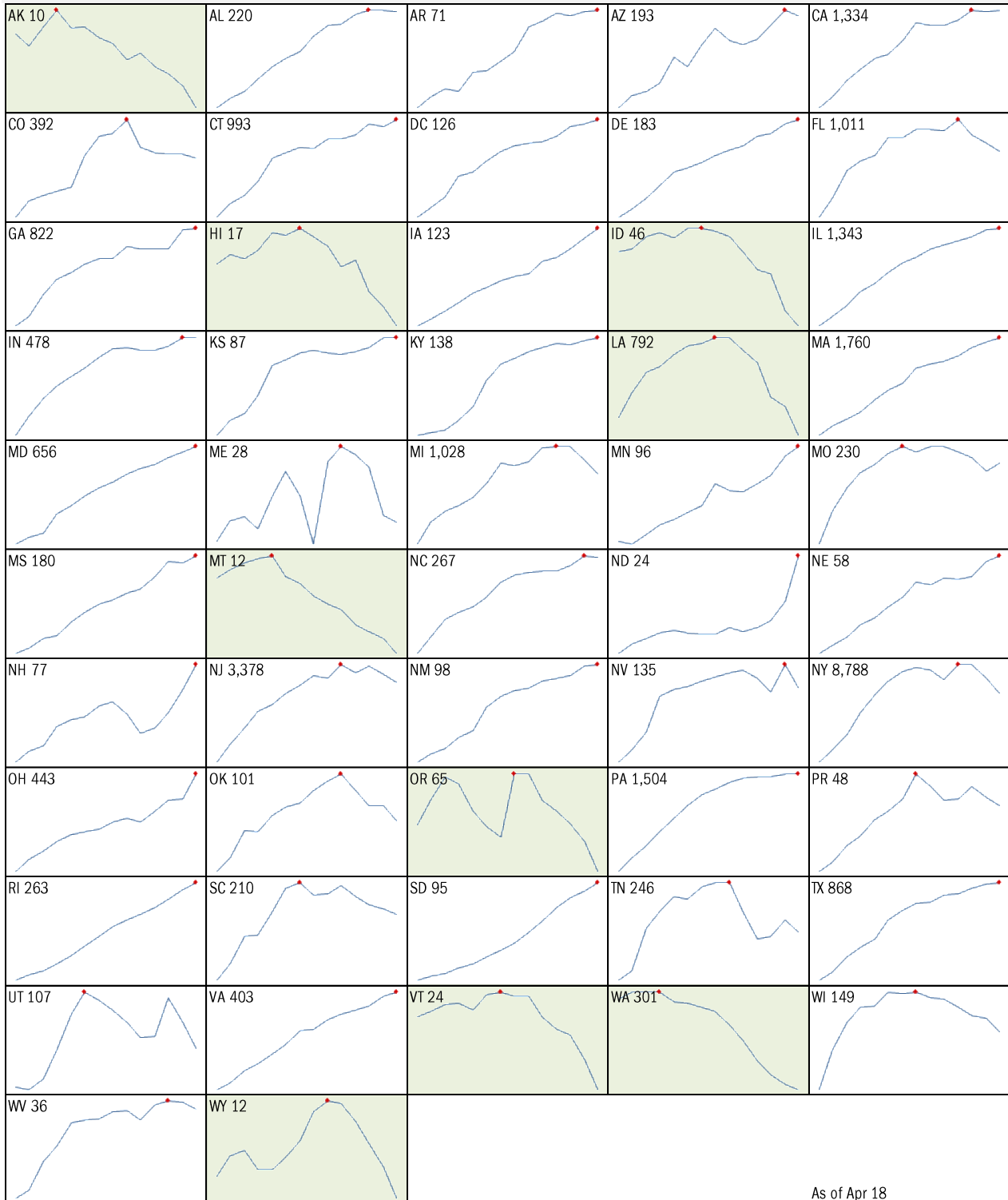
Progress means seeing the line move up and to the right...

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



Source: [ECDC](#), TrendMacro calculations

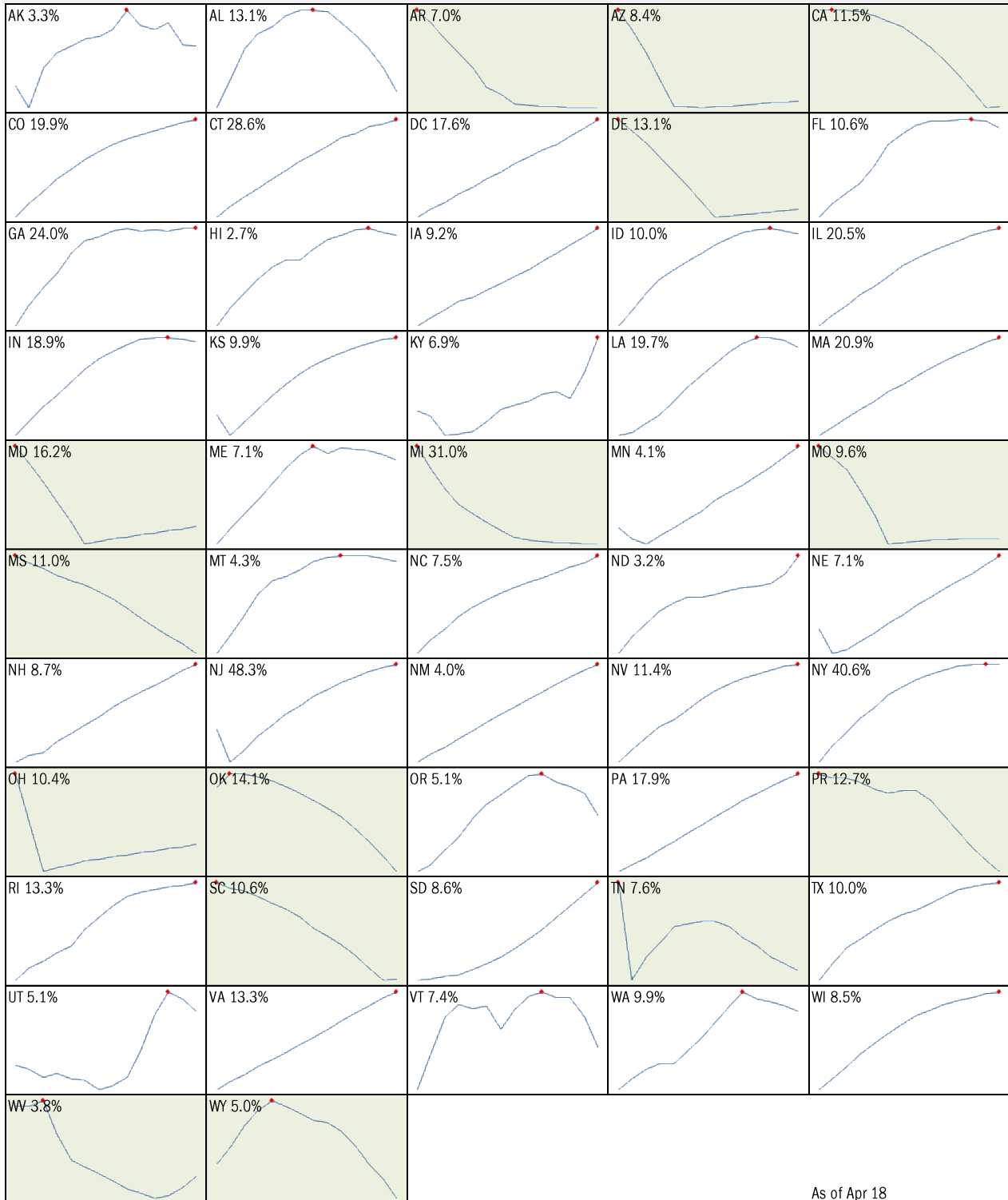
Requirement to [Open Up America Again](#): ■ 14-day “downward trajectory” in new cases
 14-day moving average, last 14 days *Most recent value displayed*



As of Apr 18

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



As of Apr 18

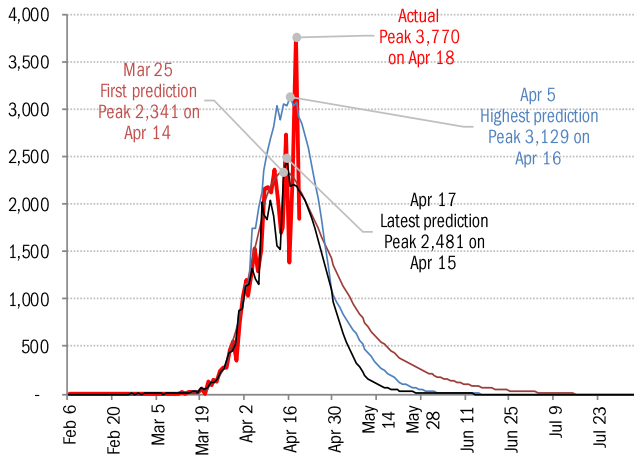
Source: [Covid Tracking Project](#), TrendMacro calculations

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

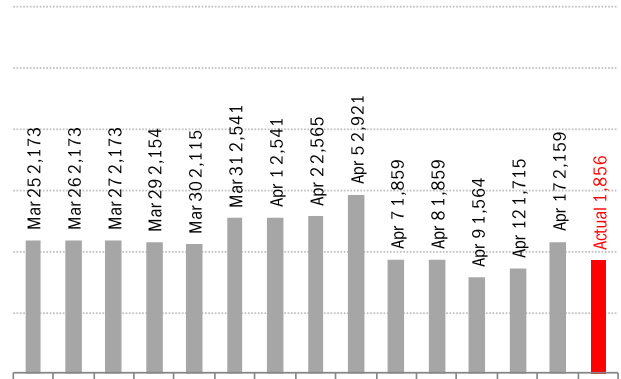
New daily fatalities

As of Apr 19

Actual versus first, highest and latest model mean predictions

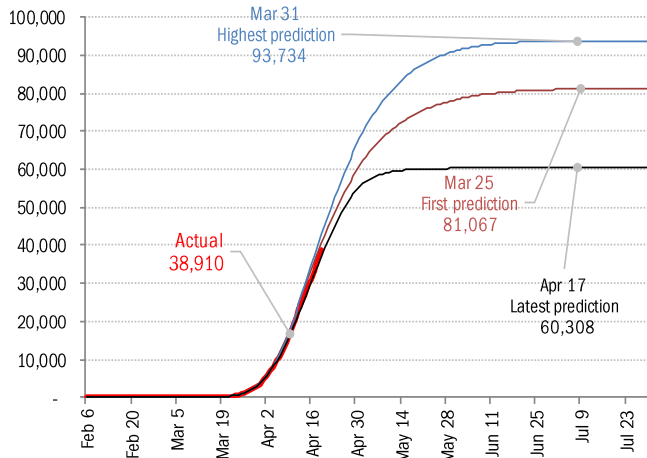


For this day, versus all model mean predictions

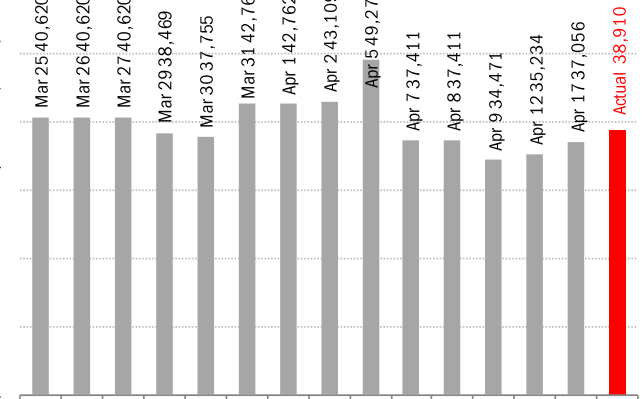


Cumulative fatalities

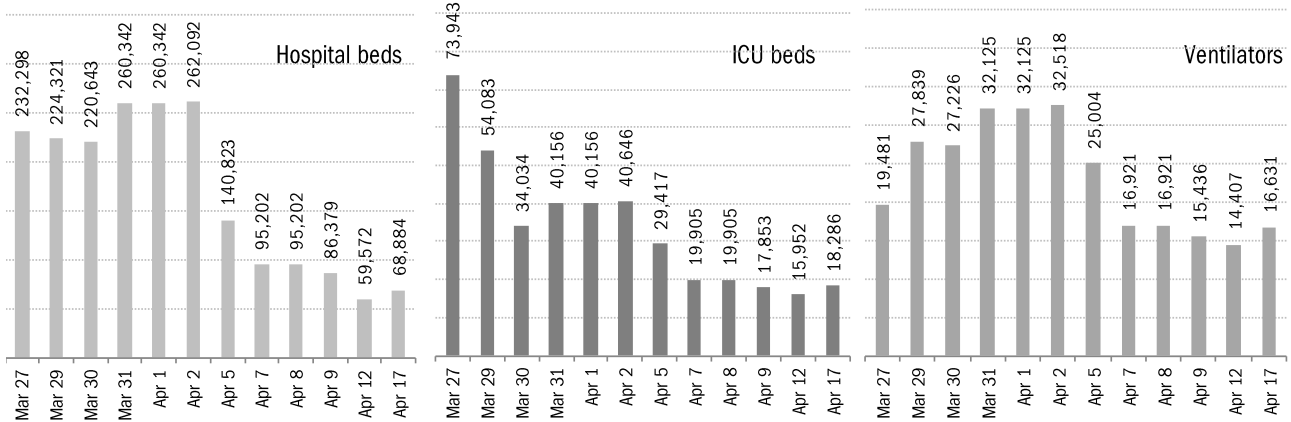
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

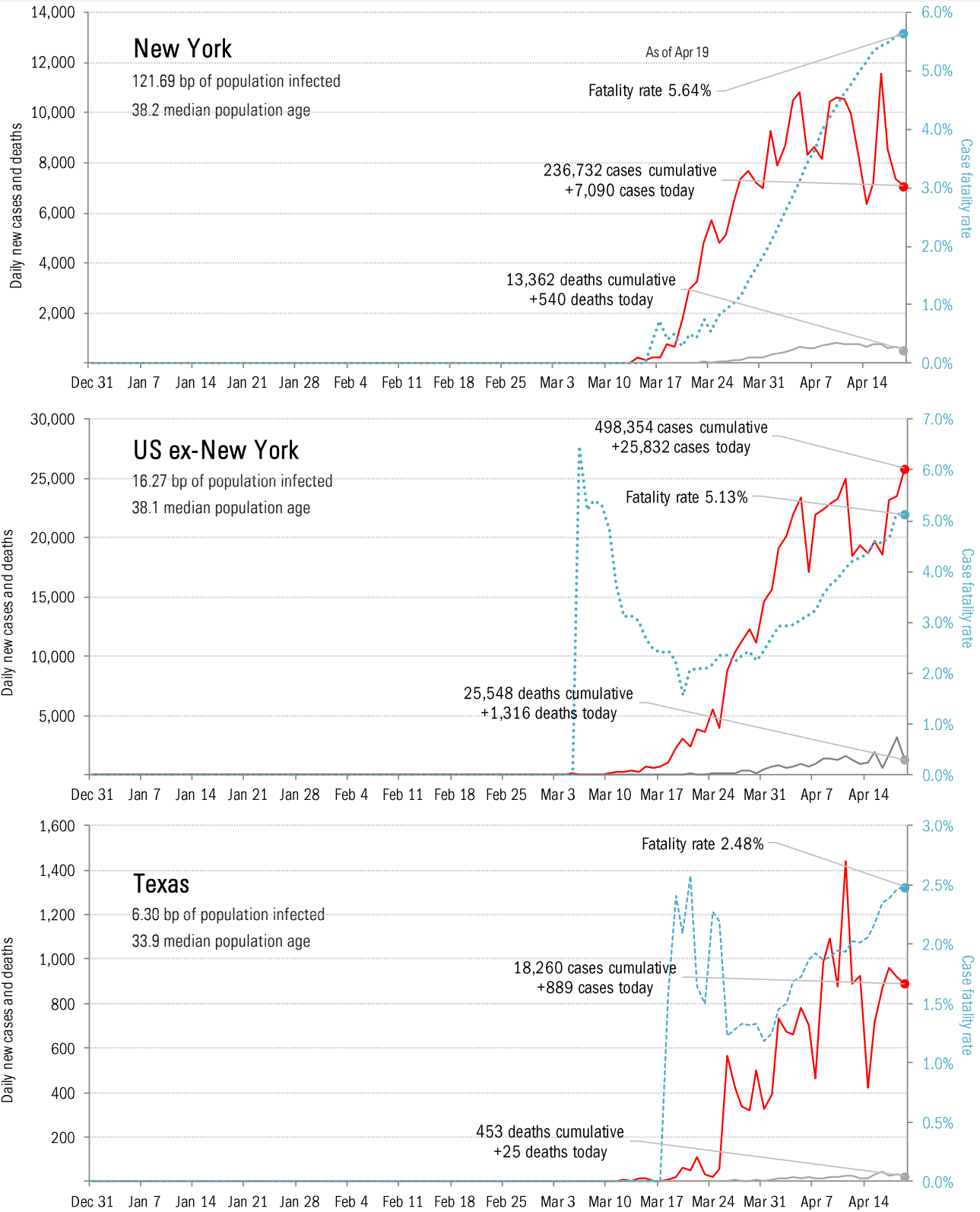


Healthcare system stress, peak estimated at each model revision



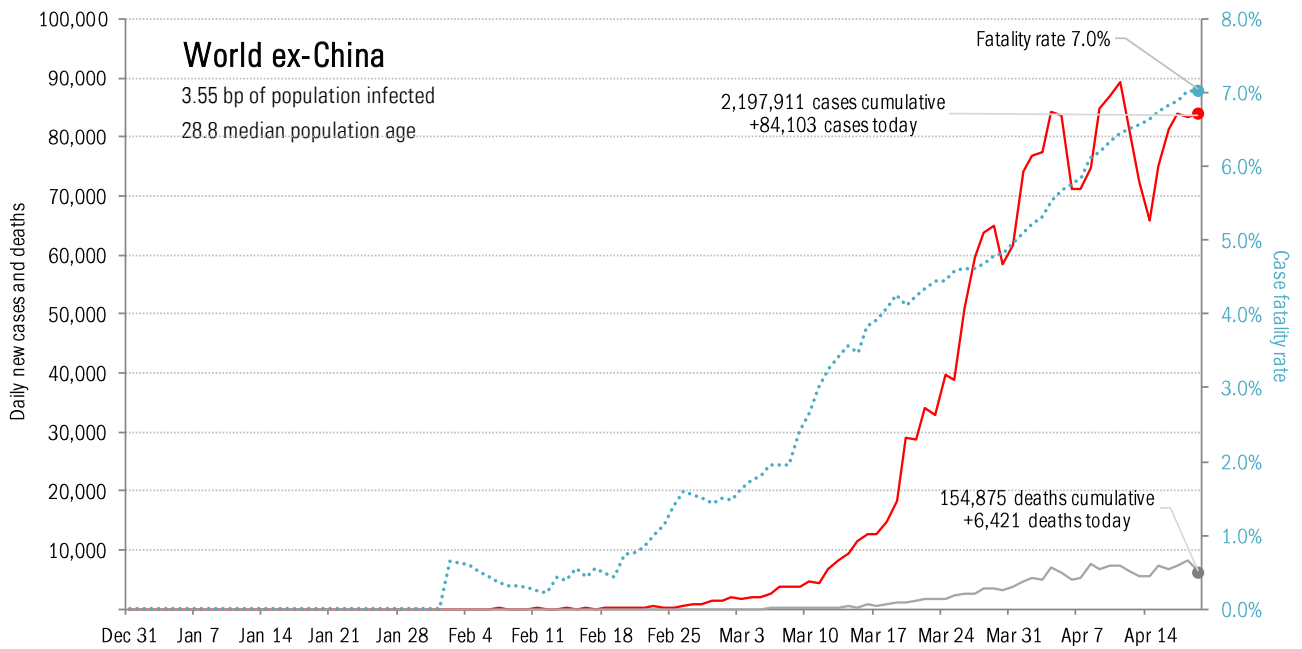
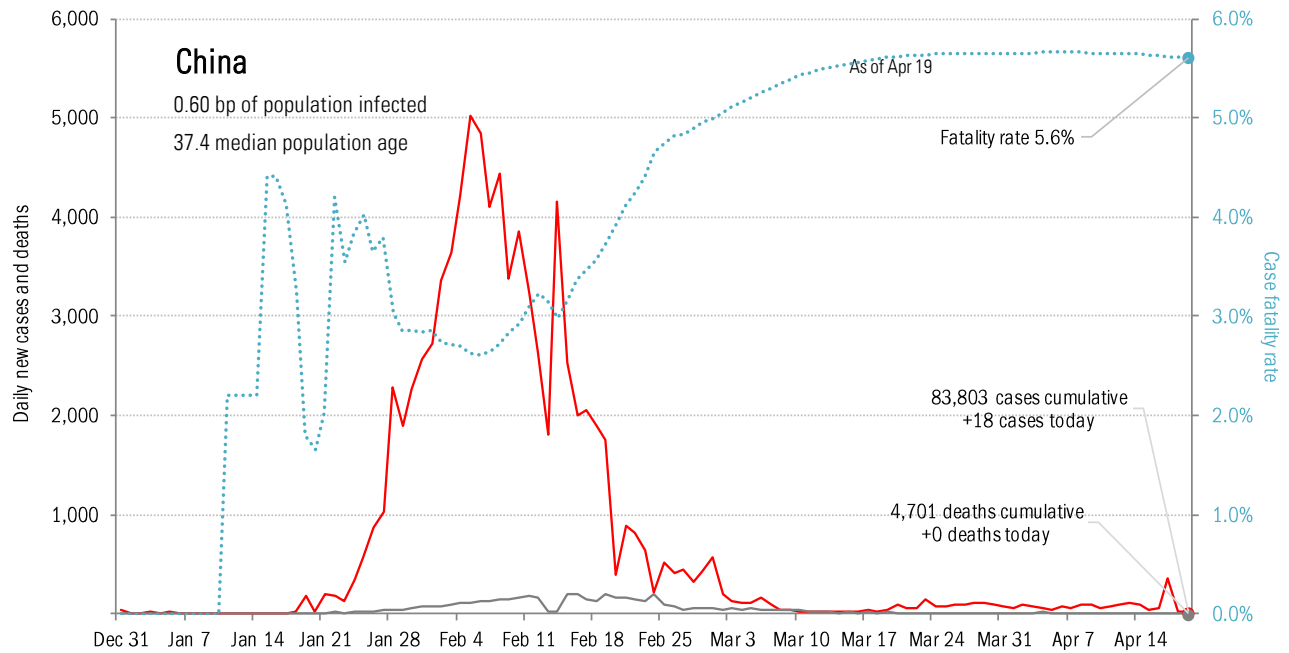
Source: [ECDC](#), TrendMacro calculations

From Ground Zero to the Rio Grande



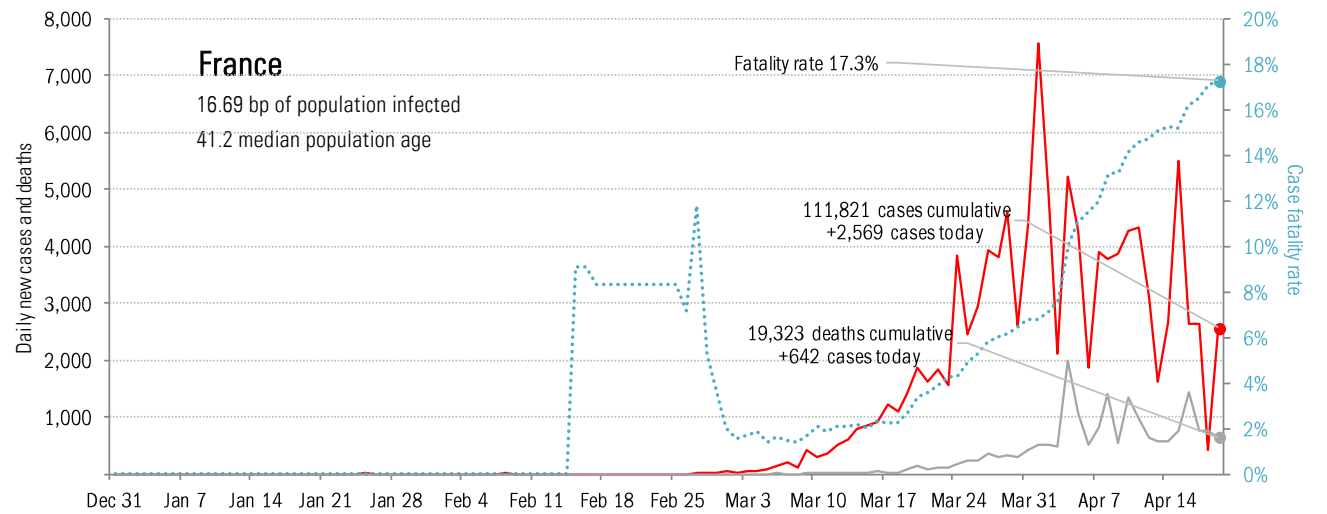
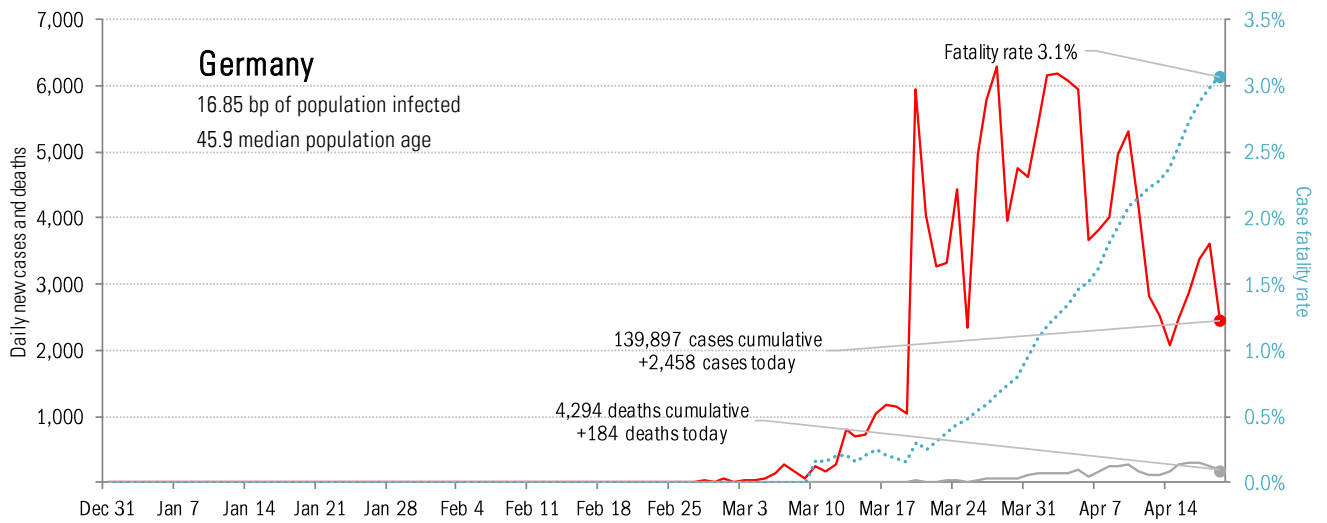
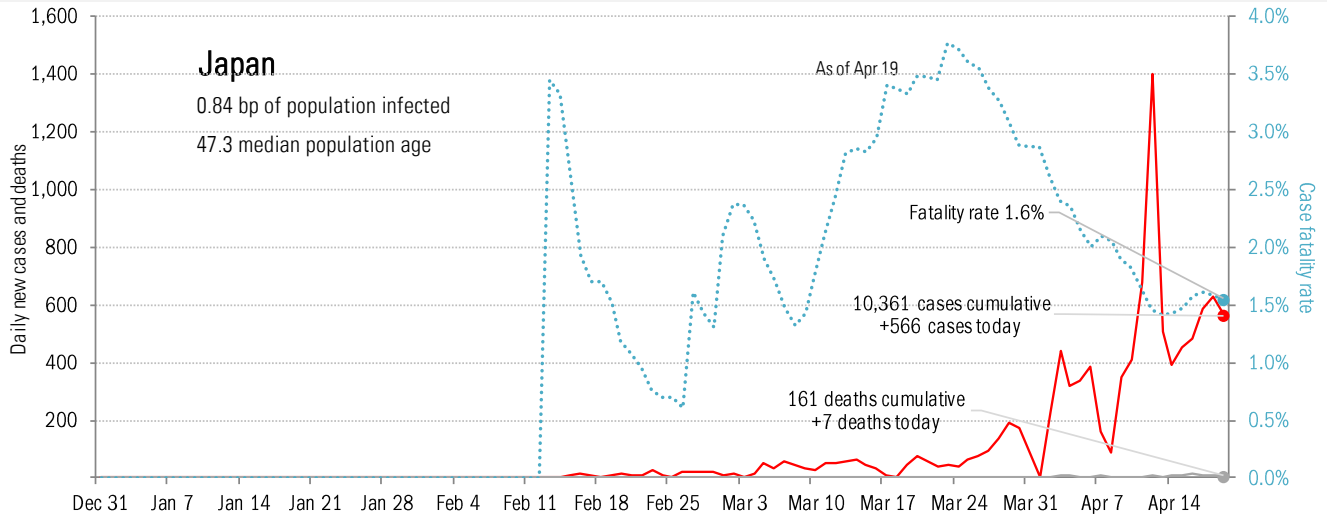
Source: [ECDC](#), TrendMacro calculations

Patient zero... and then everyone else



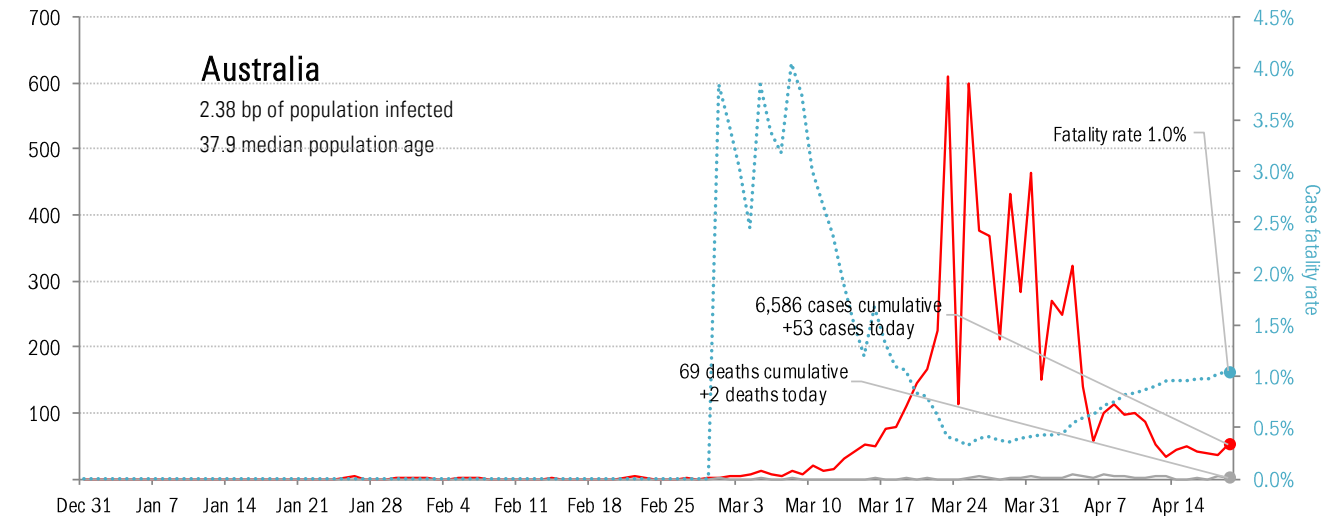
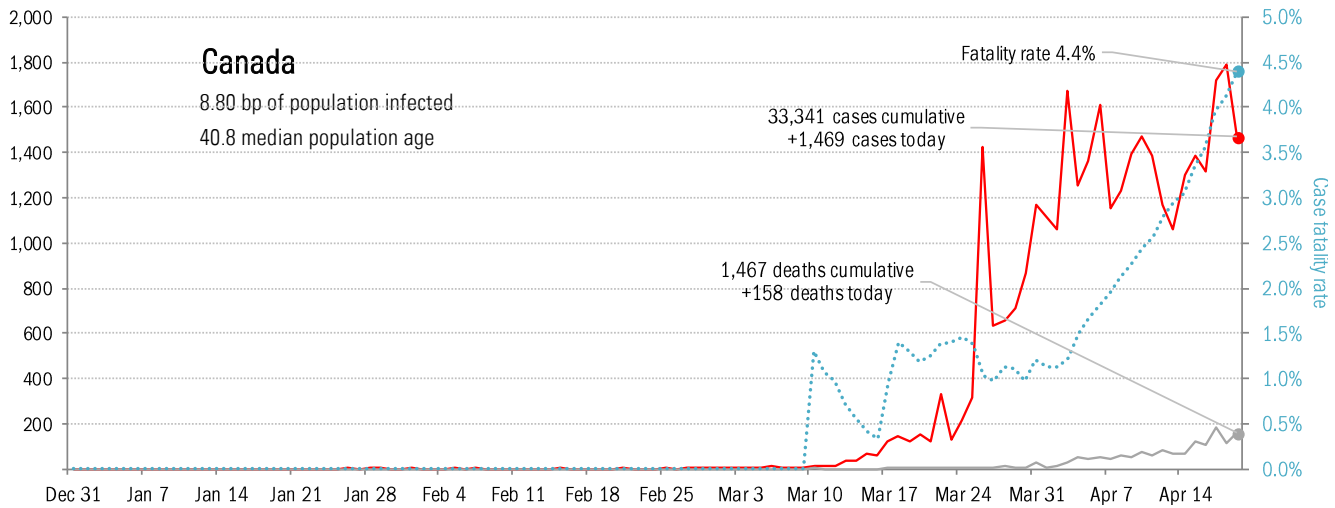
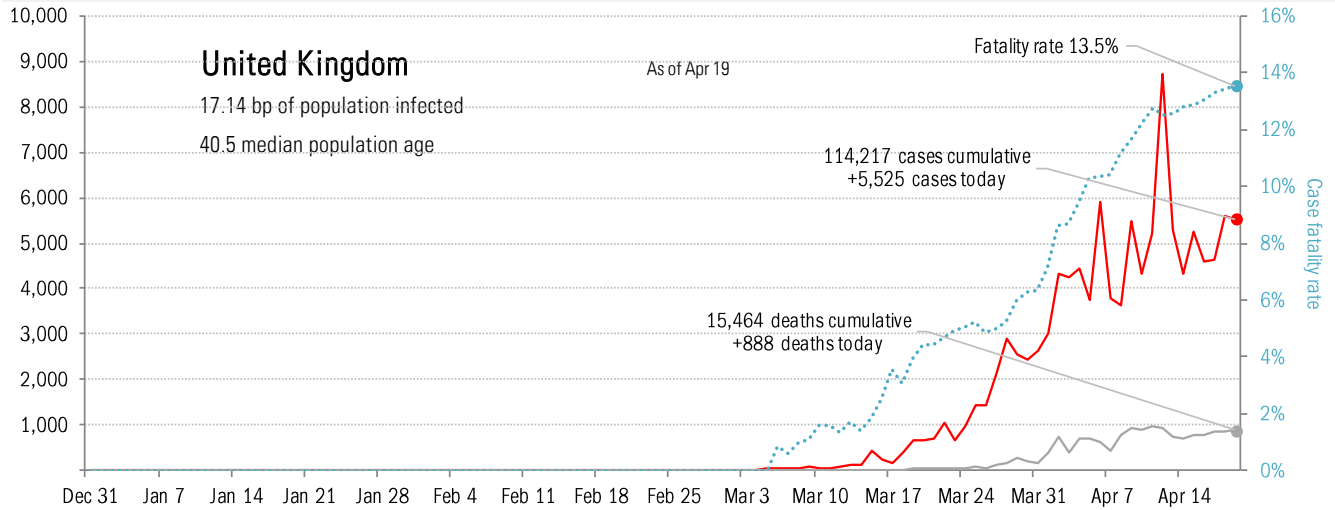
Source: [ECDC](#), TrendMacro calculations

Impact in the largest economies



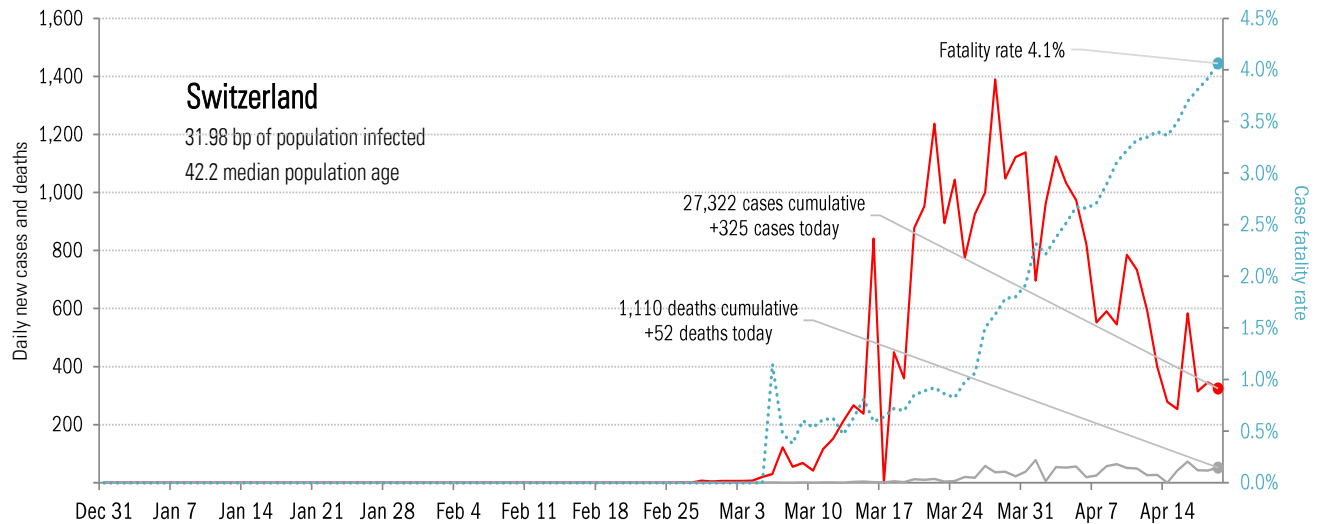
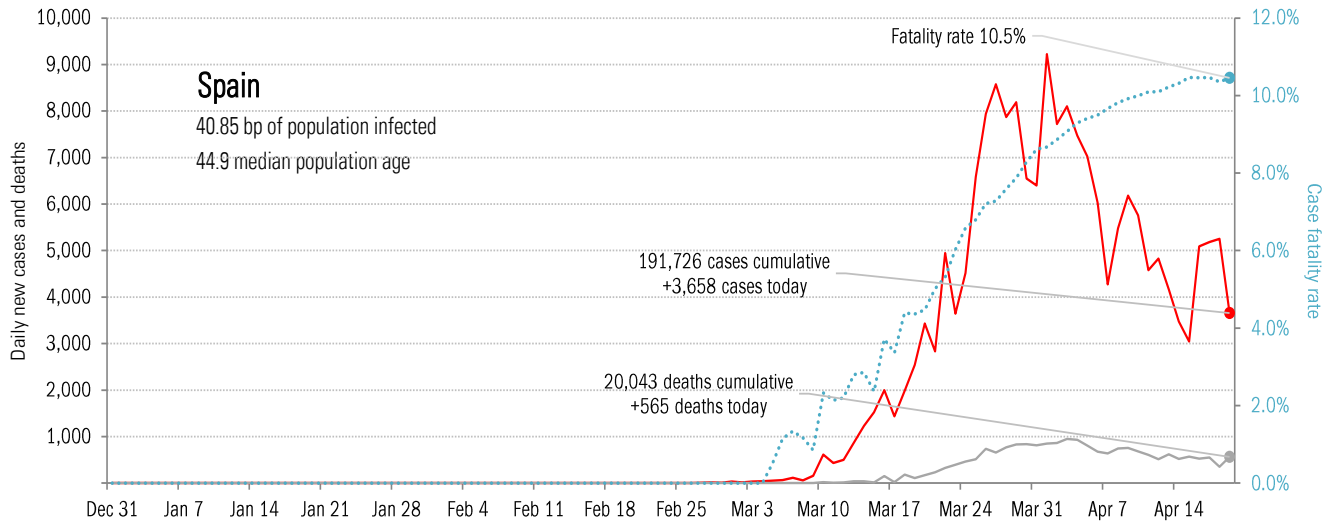
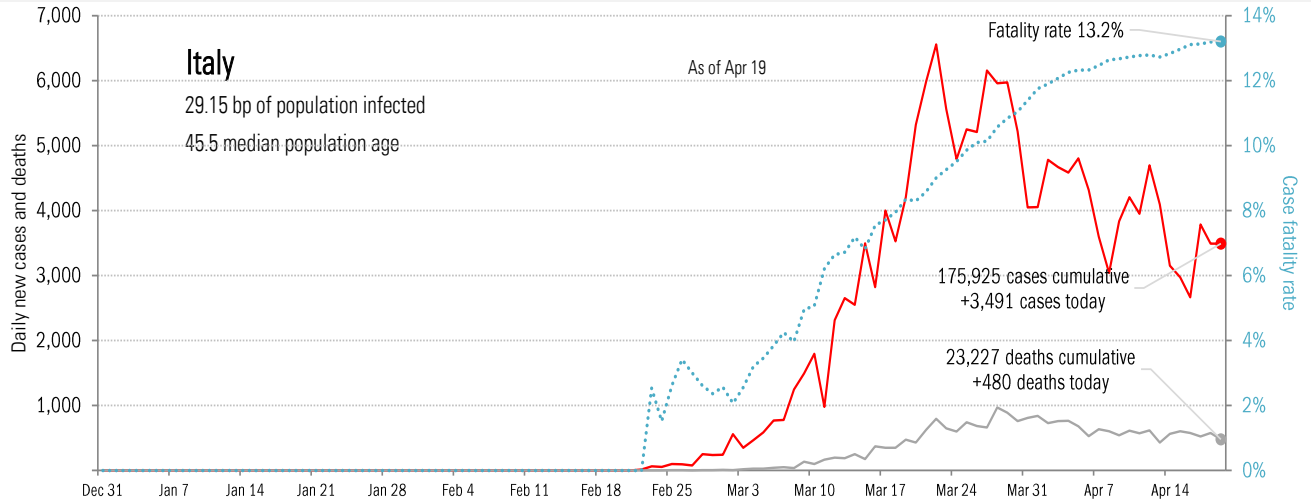
Source: [ECDC](#), TrendMacro calculations

Impact in The Anglosphere



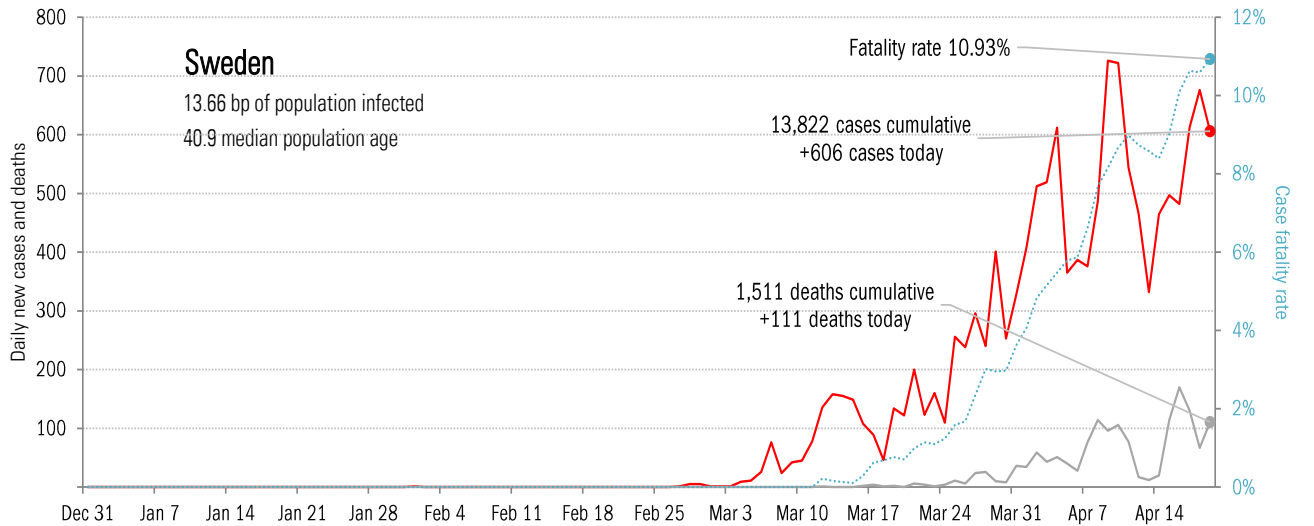
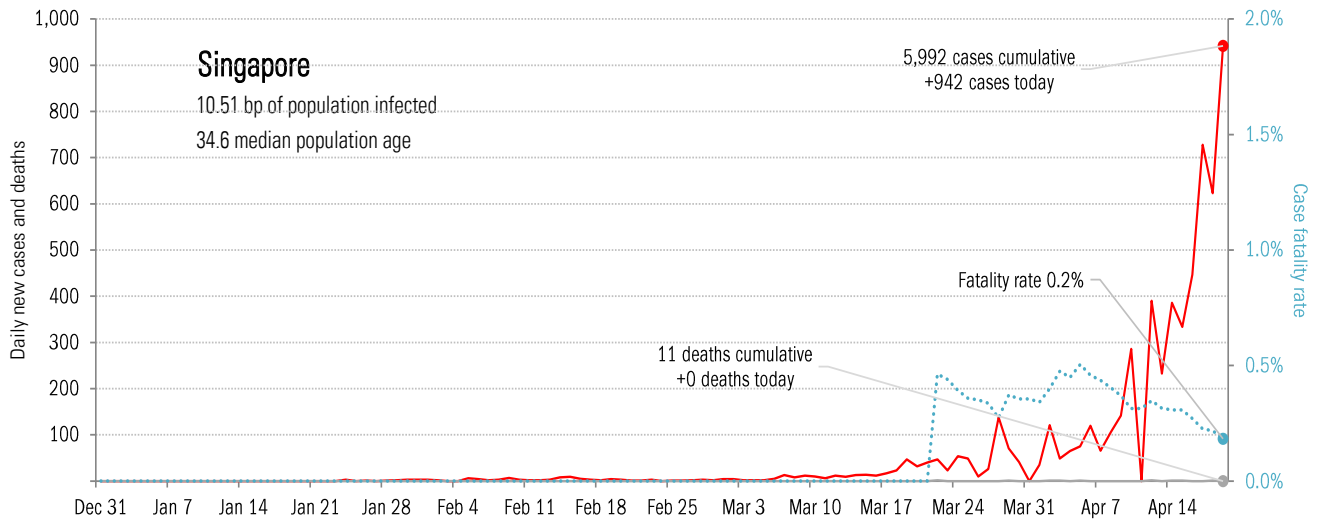
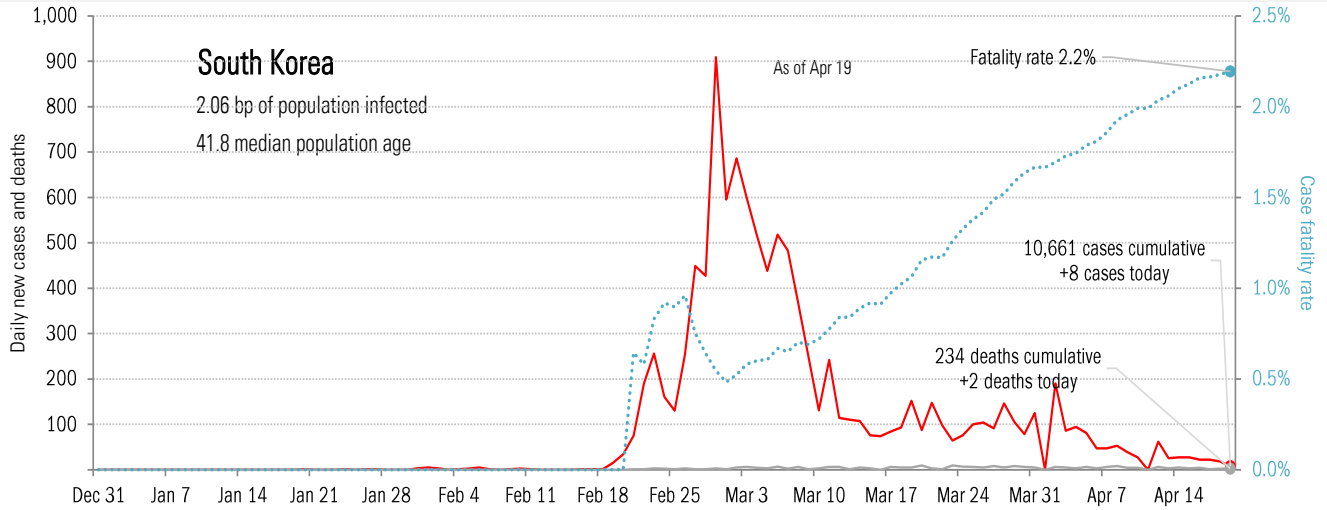
Source: [ECDC](#), TrendMacro calculations

Impact in continental Europe



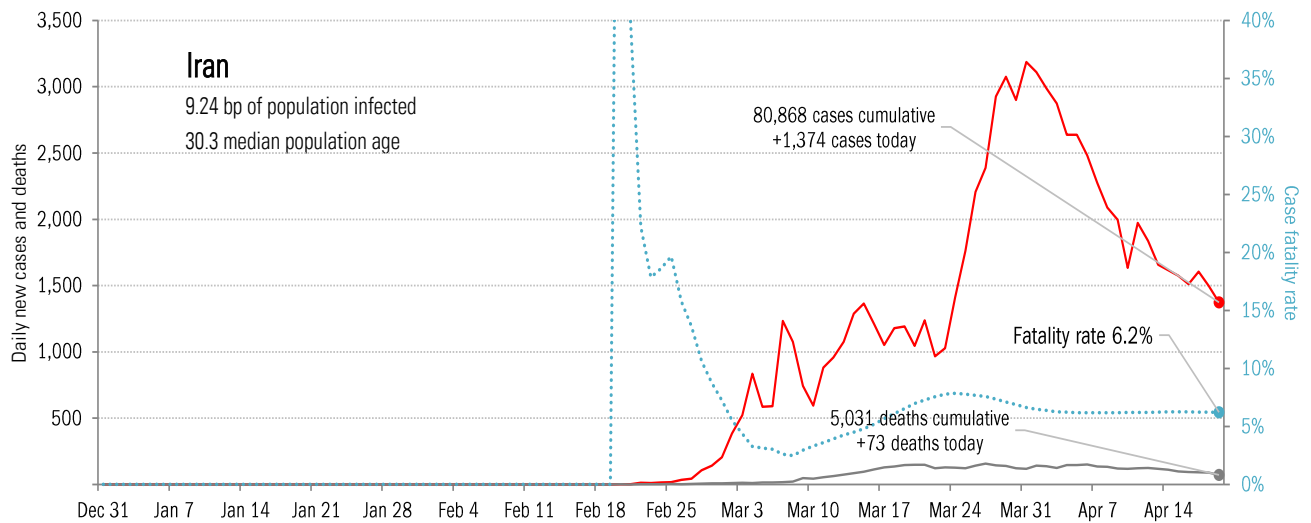
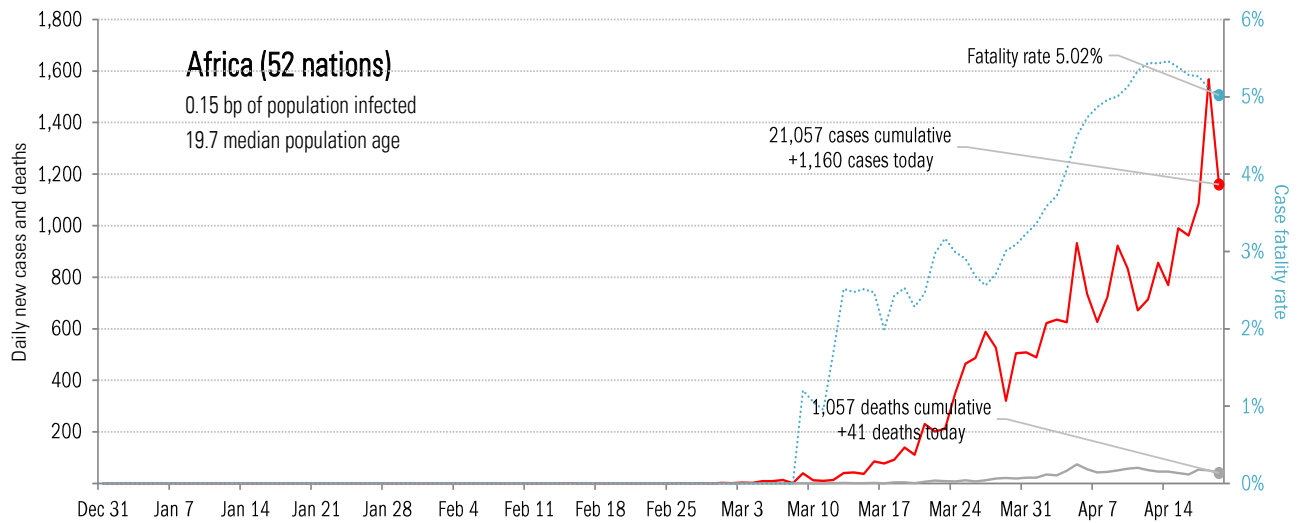
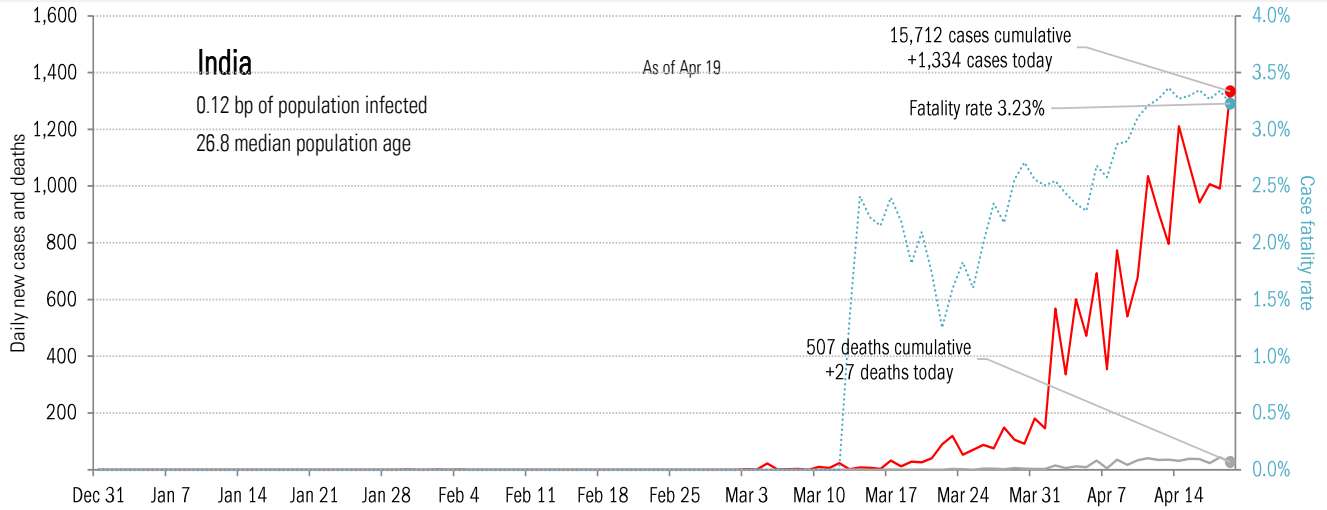
Source: [ECDC](#), TrendMacro calculations

Impact in other hot-spots



Source: [ECDC](#), TrendMacro calculations

Impact in the fragile emerging world



Source: [ECDC](#), TrendMacro calculations