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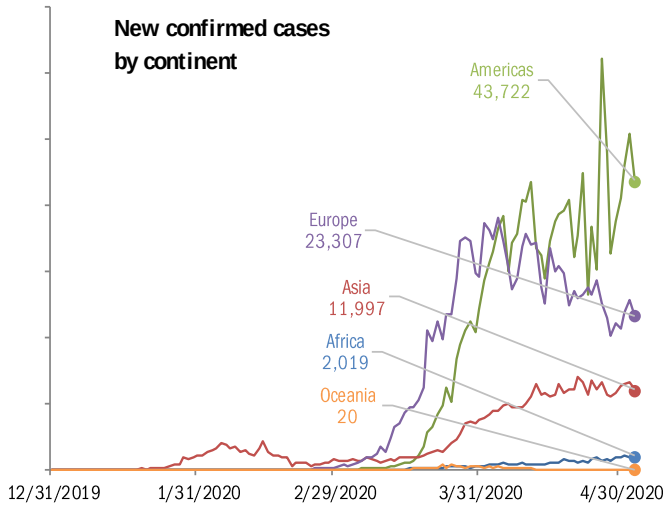
Data Insights: Covid-2019 Monitor

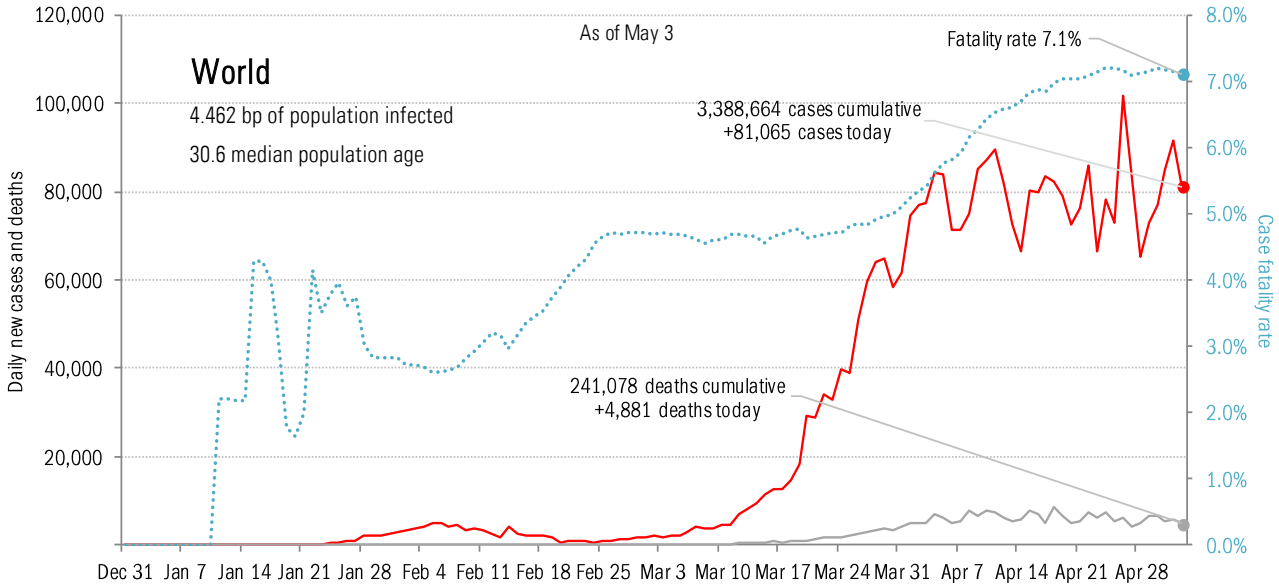
Sunday, May 3, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
US	+29,288	US	+1,317
Russia	+9,623	UK	+621
Brazil	+4,970	Italy	+474
UK	+4,806	Brazil	+421
India	+2,644	Ecuador	+308
Peru	+2,075	Spain	+276
Turkey	+1,983	Canada	+175
Italy	+1,900	France	+166
Canada	+1,653	Netherlands	+94
Chile	+1,427	Mexico	+89
	+60,369		+3,941
World	+81,065	World	+4,881
Top ten	74%	Top ten	81%





Source: ECDC, TrendMacro calculations

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The US scorecard

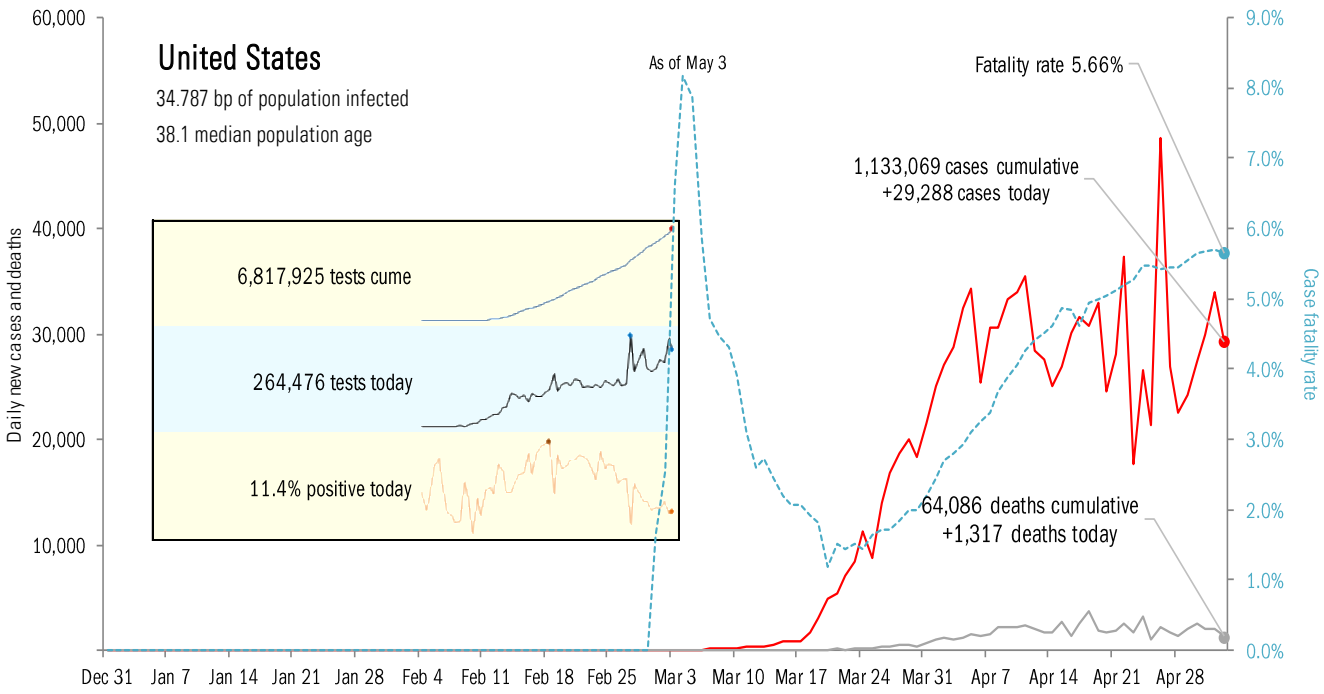
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
NY	+4,663	NY	+299	NY	+710	NY	312,977	NY	18,909	NY	67,890
NJ	+2,527	NJ	+204	MA	+209	NJ	123,717	NJ	7,742	CT	7,758
IL	+2,450	MI	+154	MD	+192	MA	66,263	MI	4,020	MA	6,378
MA	+1,952	MA	+130	FL	+150	IL	58,505	MA	3,846	FL	5,945
CA	+1,755	IL	+102	AZ	+136	CA	52,197	IL	2,559	GA	5,387
PA	+1,334	CA	+98	GA	+118	PA	48,305	PA	2,418	MD	4,910
TX	+1,293	FL	+74	VA	+84	MI	43,207	CT	2,339	VA	3,738
GA	+1,036	PA	+64	OH	+78	FL	35,463	CA	2,171	OH	3,712
MD	+1,001	MD	+59	MN	+63	TX	30,522	LA	1,950	CO	2,747
MI	+851	IN	+54	NM	+51	LA	29,140	FL	1,388	WI	1,591
	+18,862		+1,238		+1,791		800,296		47,342		110,056
All states	+30,038	All states	+1,651	All states	+2,112	All states	1,125,719	All states	60,710	All states	123,860
Top ten	63%	Top ten	75%	Top ten	85%	Top ten	71%	Top ten	78%	Top ten	89%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
CT	-1,064	NJ	-106	CT	-7,758	MI	+7,317
TN	-755	CT	-82	SC	-110	NY	+1,353
MD	-729	LA	-42	NY	-101	TX	+769
IL	-687	MA	-24	TN	-88	WI	+346
FL	-303	GA	-14	CO	-26	IA	+257



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

Recommended reading

[Chinese virologist at centre of 'coronavirus came from a laboratory' claim denies defecting]
Sarah Zheng
South China Morning Post
May 2, 2020

[The end of exponential growth: The decline in the spread of coronavirus]
Isaac Ben-Israel
Times of Israel
April 19, 2020

[Front Line COVID-19 Critical Care Consortium urges immediate adoption of early intervention protocol to prevent mortality and reduce the need for ventilators from COVID-19 disease.]
Umberto Meduri MD et al.
Front Line COVID-19 Critical Care Consortium
April 6, 2020

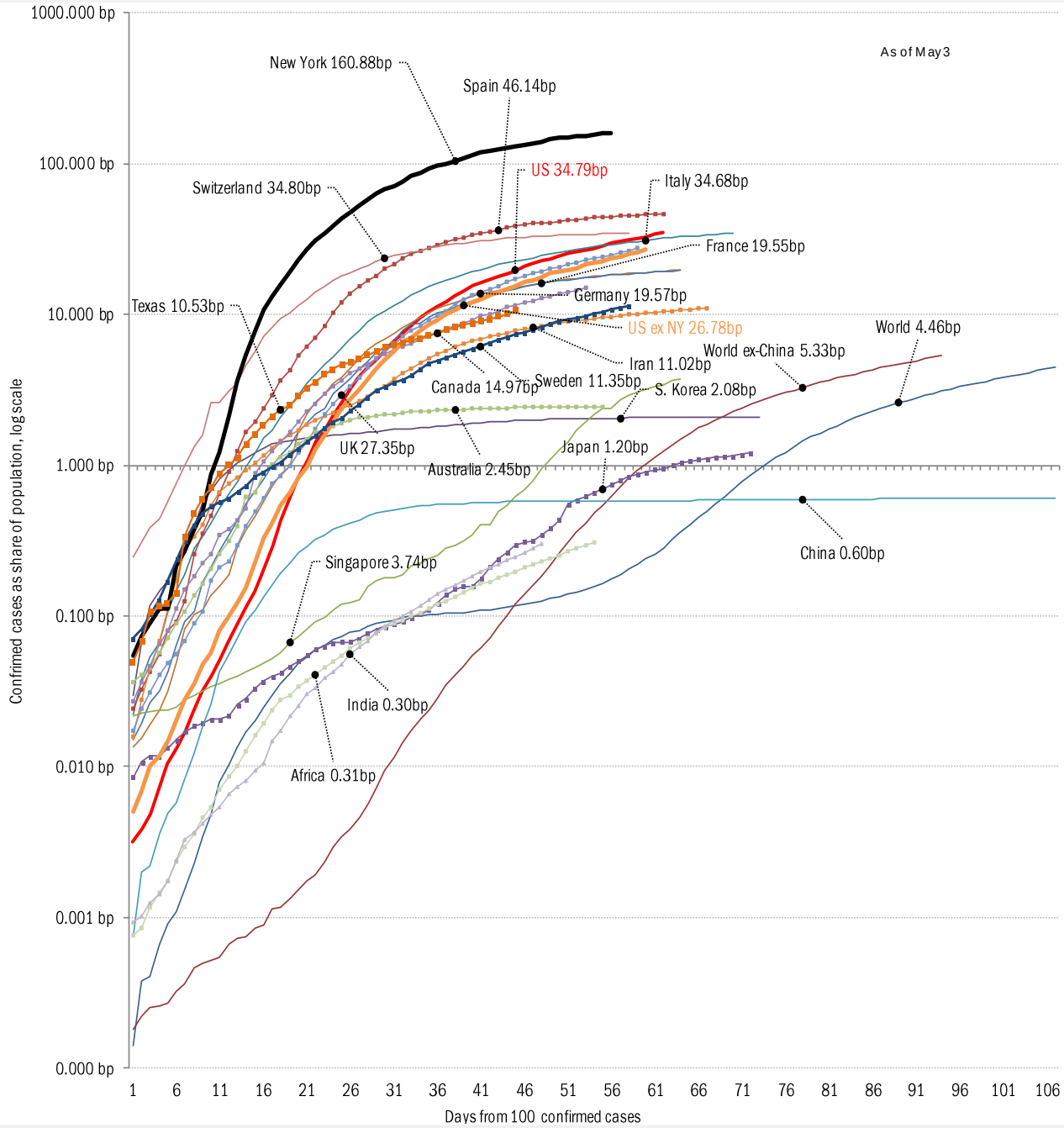
[Coronavirus: Switzerland says young children can hug grandparents]
BBC
April 29, 2020

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

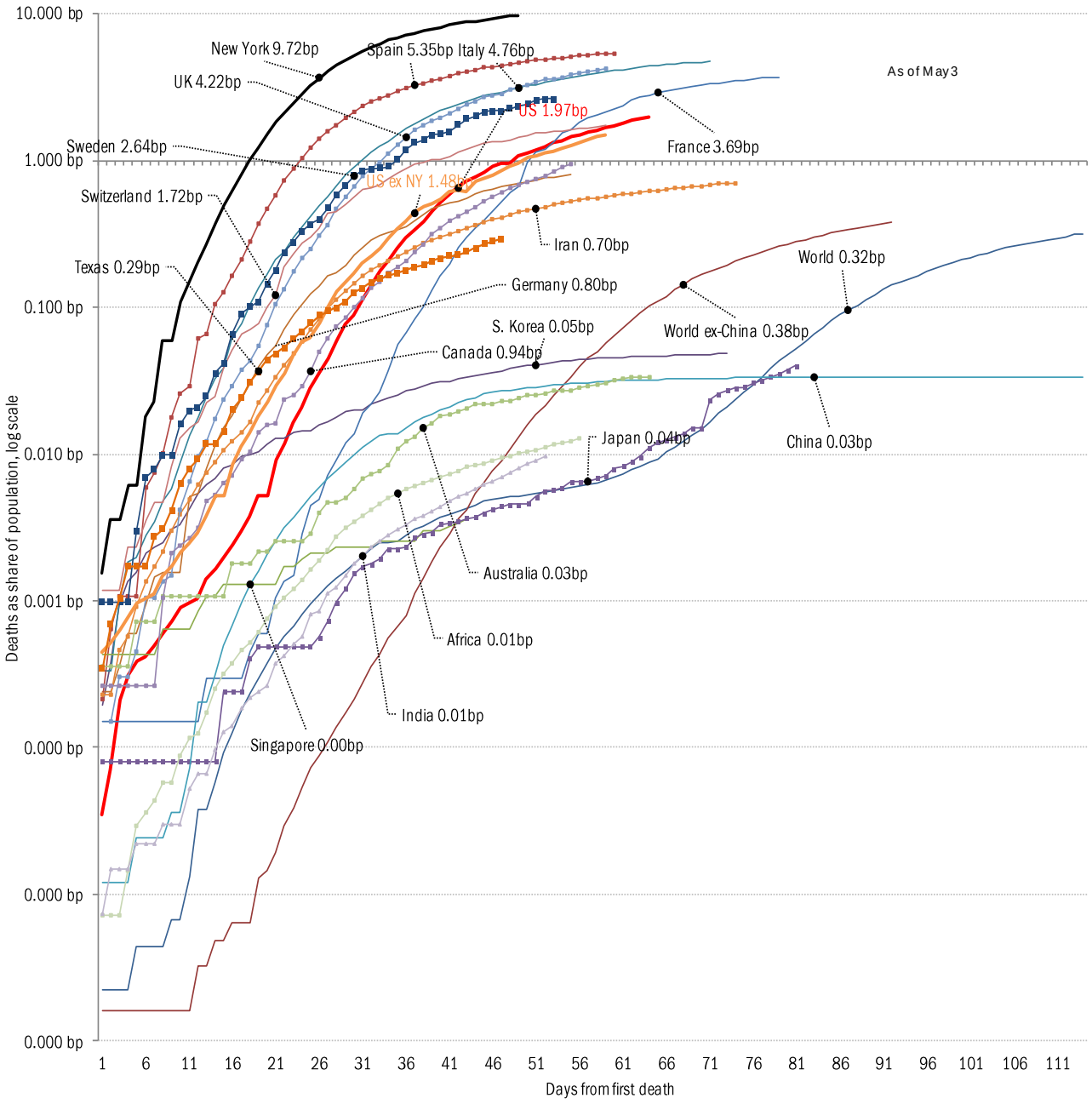
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

Share of deceased population from day of first fatality



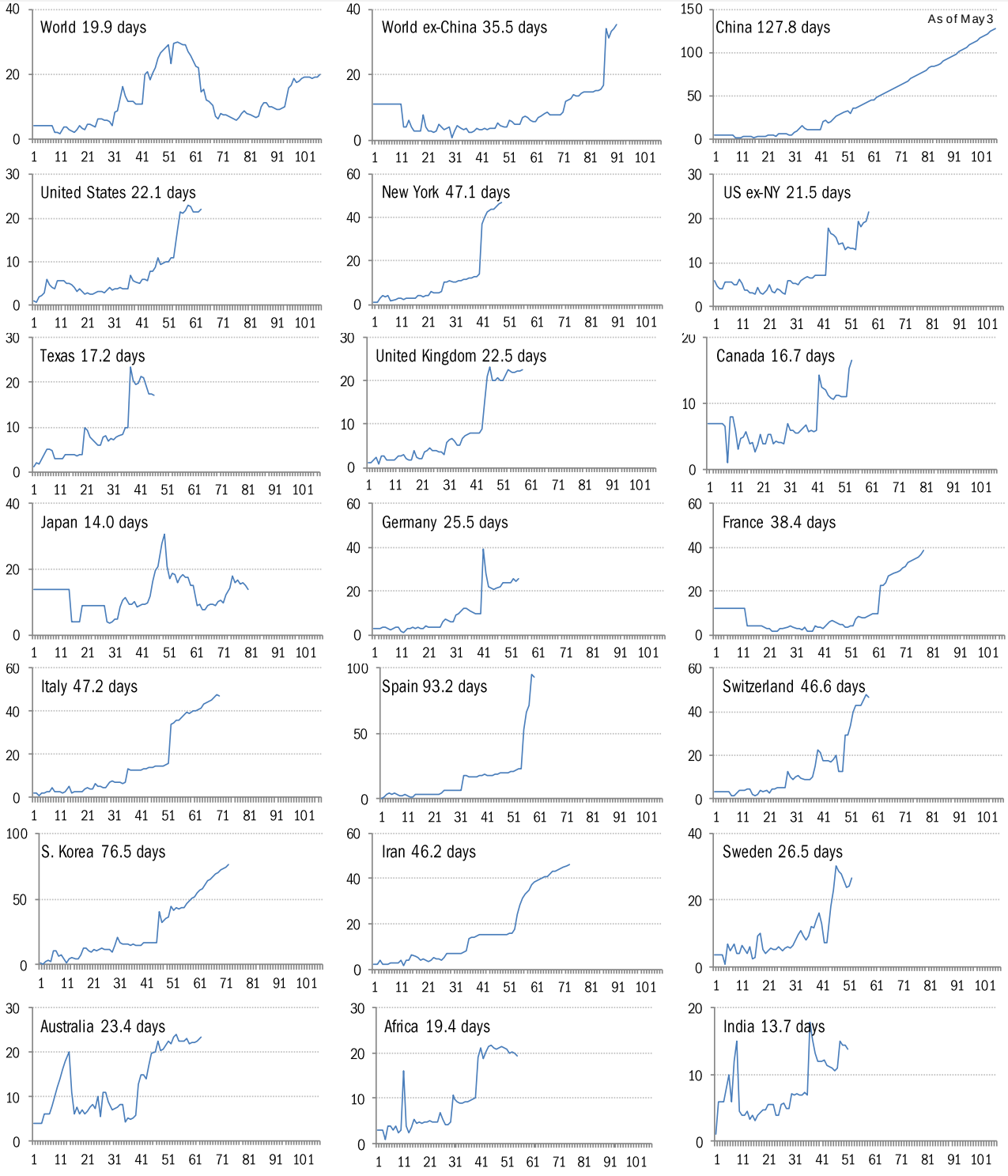
Source: ECDC, TrendMacro calculations

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…

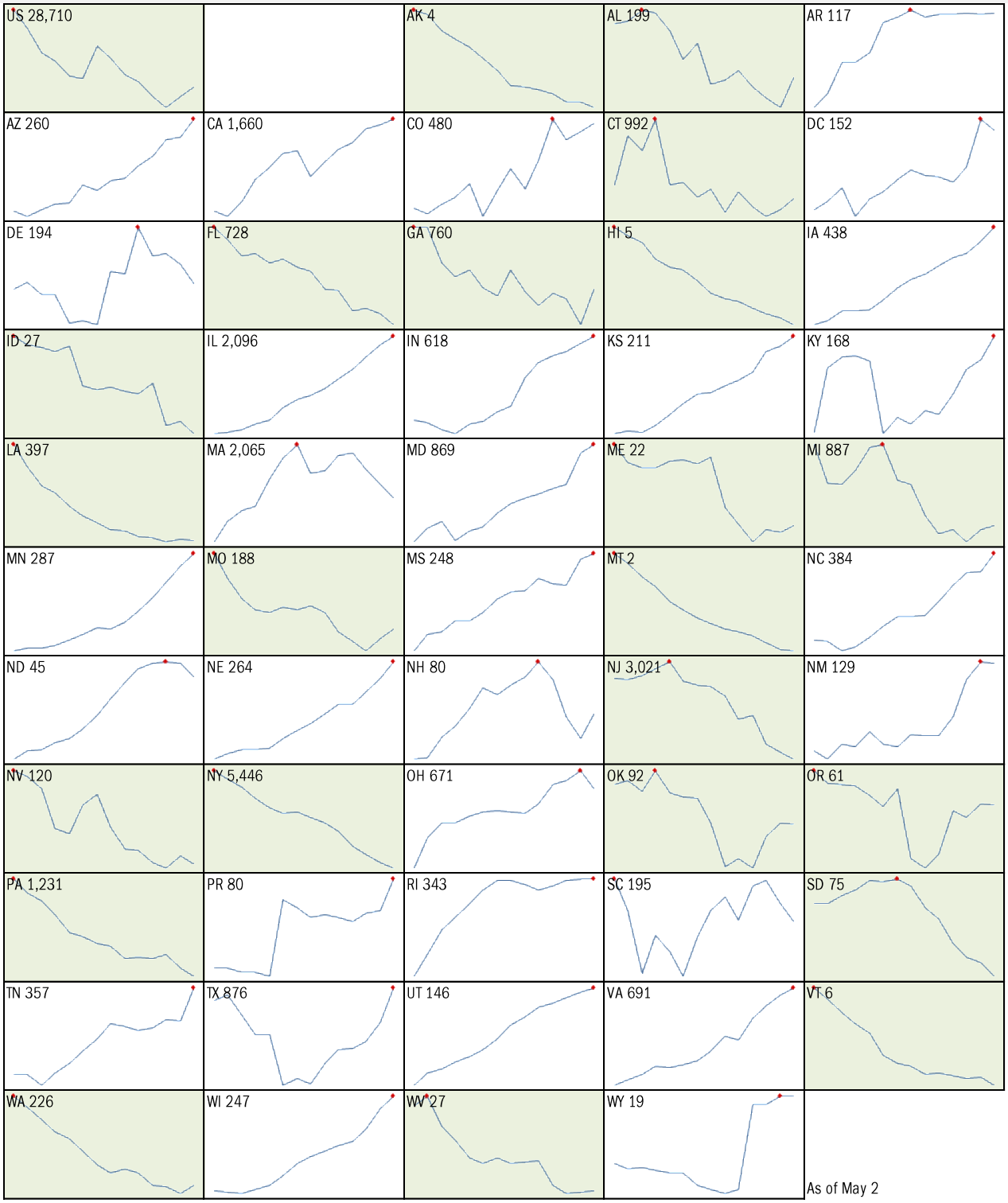
Extrapolated between actual doubling points. The most anomalous extrapolations are smoothed.



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

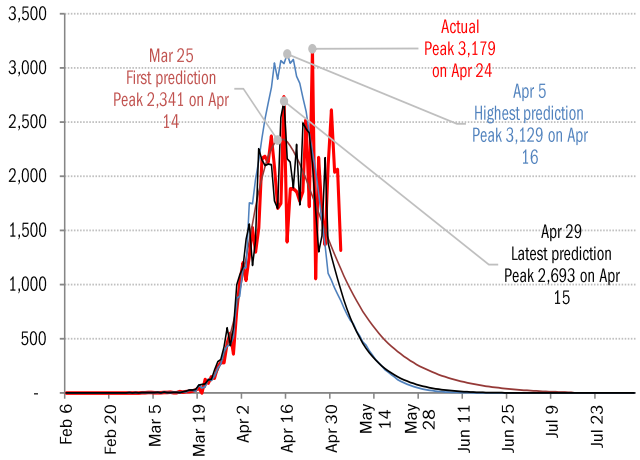
14-day moving average, last 14 days *Most recent value displayed*

Source: Covid Tracking Project, TrendMacro calculations

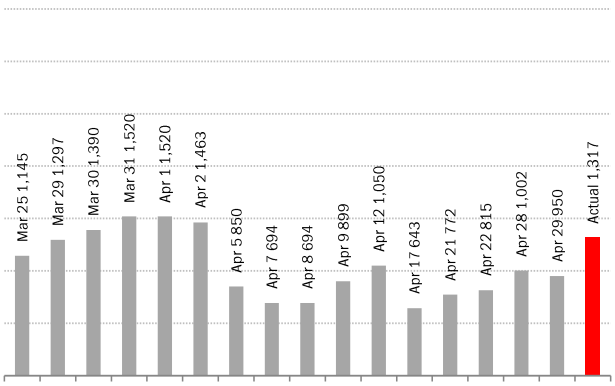
Reality-checking the models: actuals versus IHME predictions

New daily fatalities As of May 3

Actual versus first, highest and latest model mean predictions

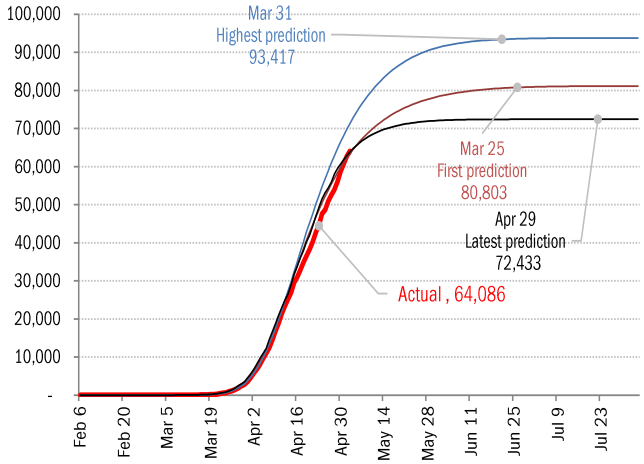


For this day, versus all model mean predictions

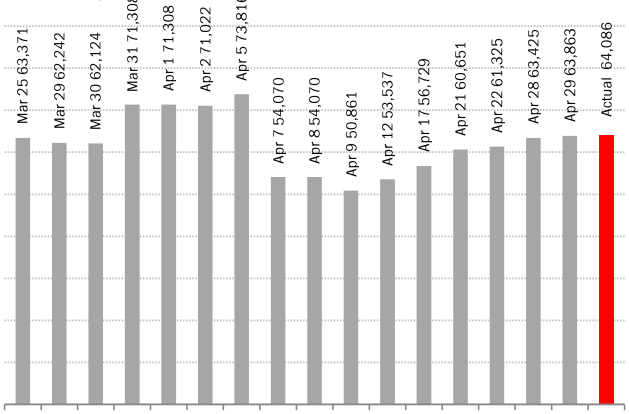


Cumulative fatalities

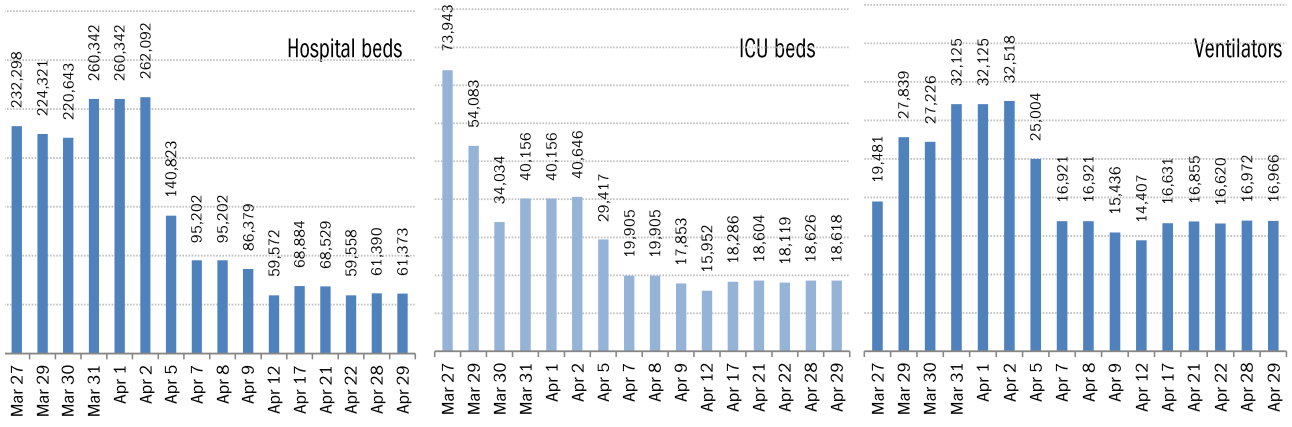
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

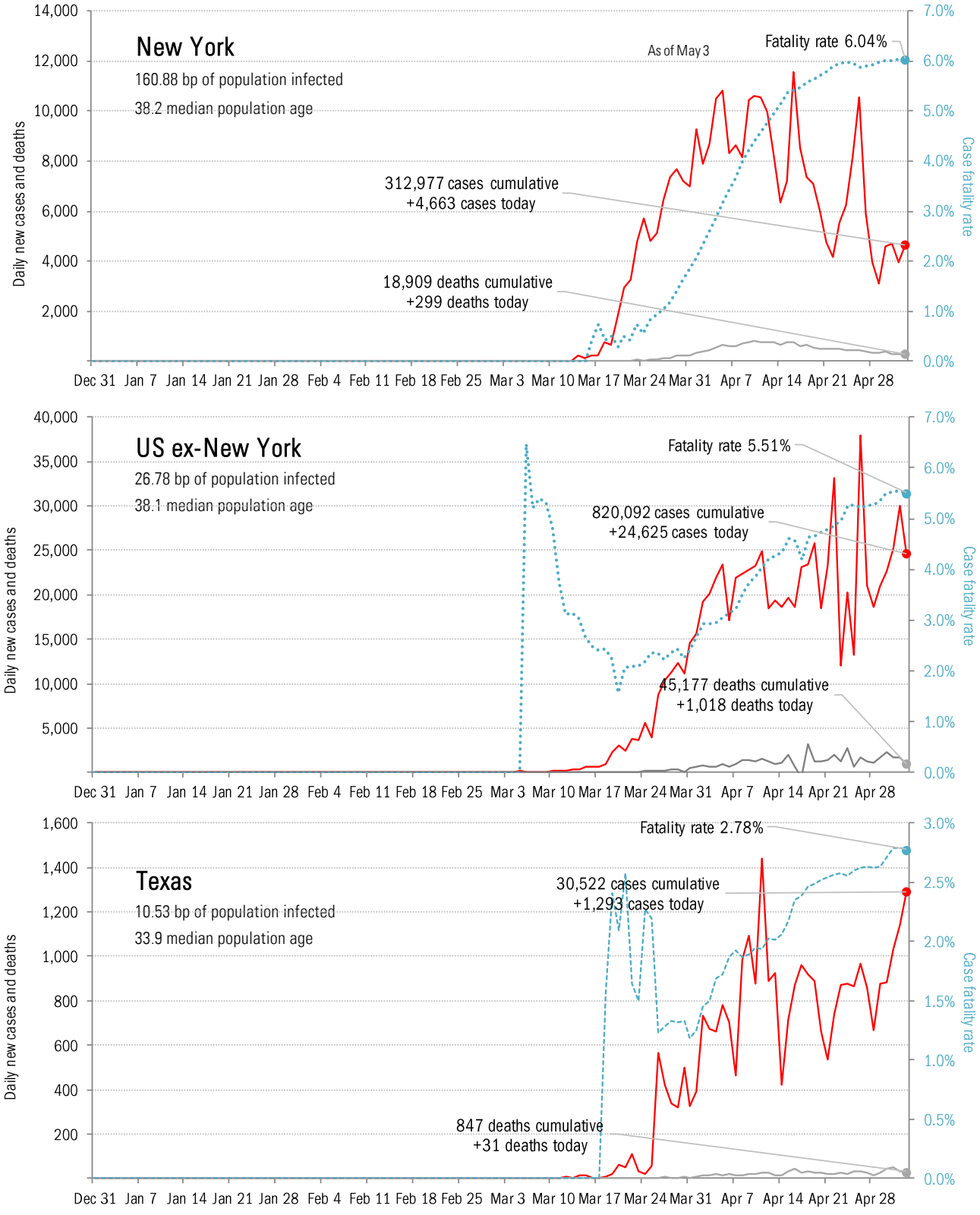


Healthcare system stress, peak estimated at each model revision



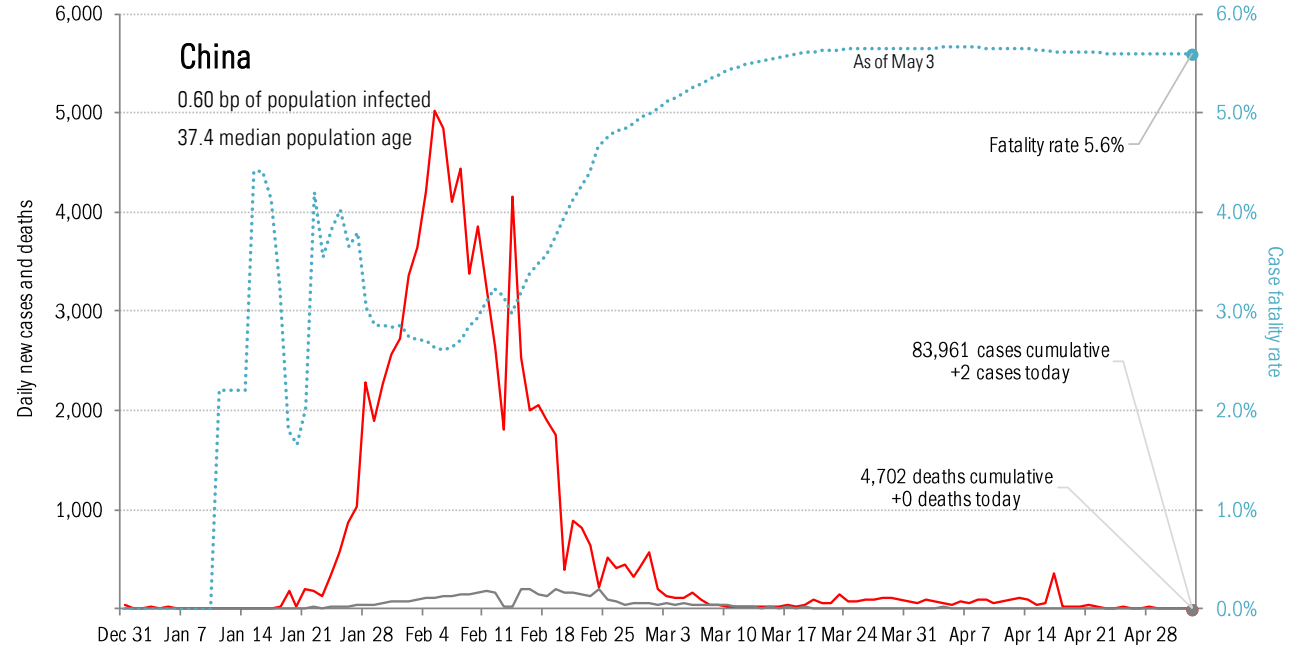
Source: ECDC, TrendMacro calculations

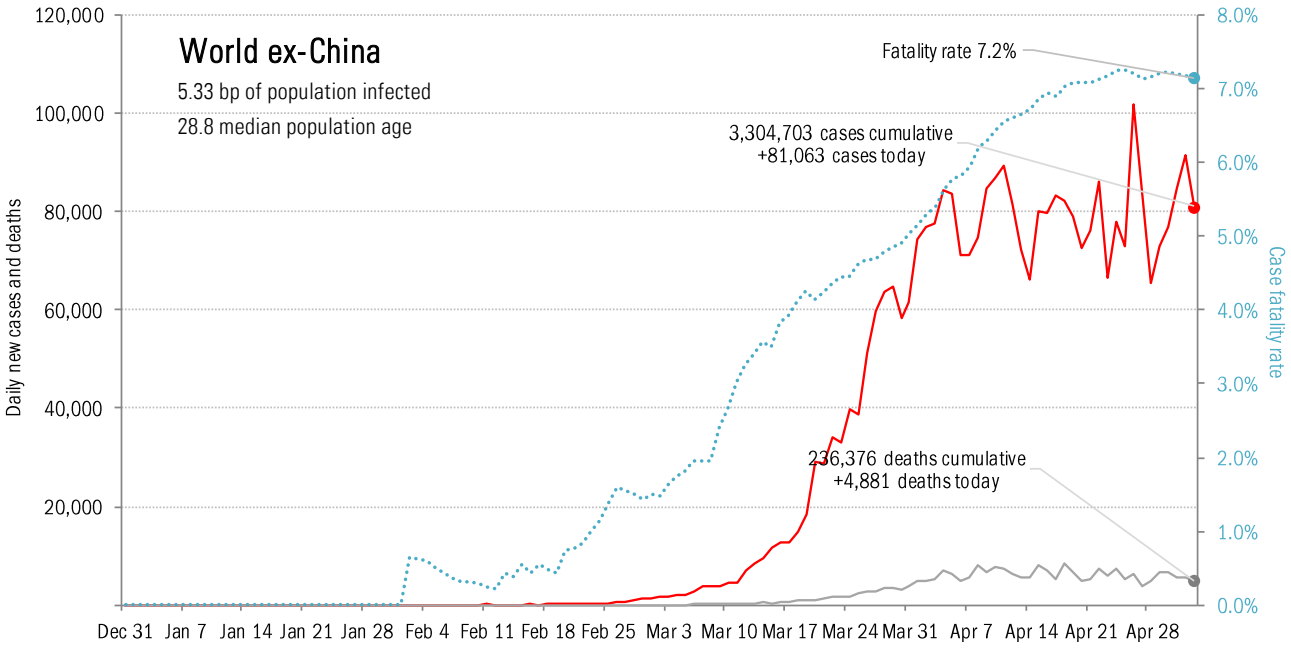
From Ground Zero to the Rio Grande



Source: ECDC, TrendMacro calculations

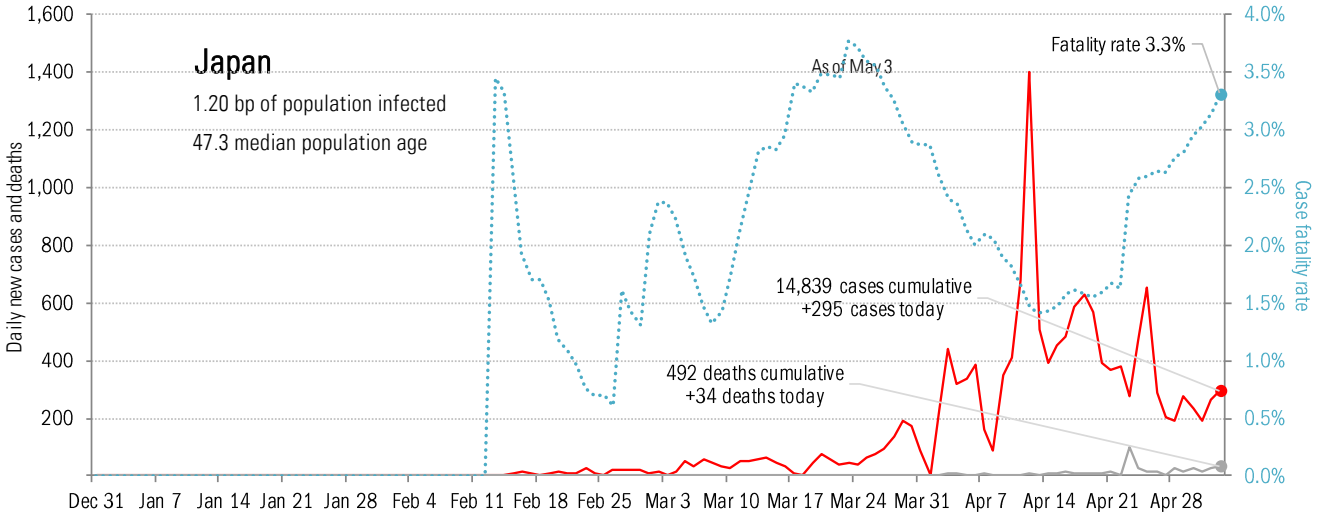
Patient zero… and then everyone else

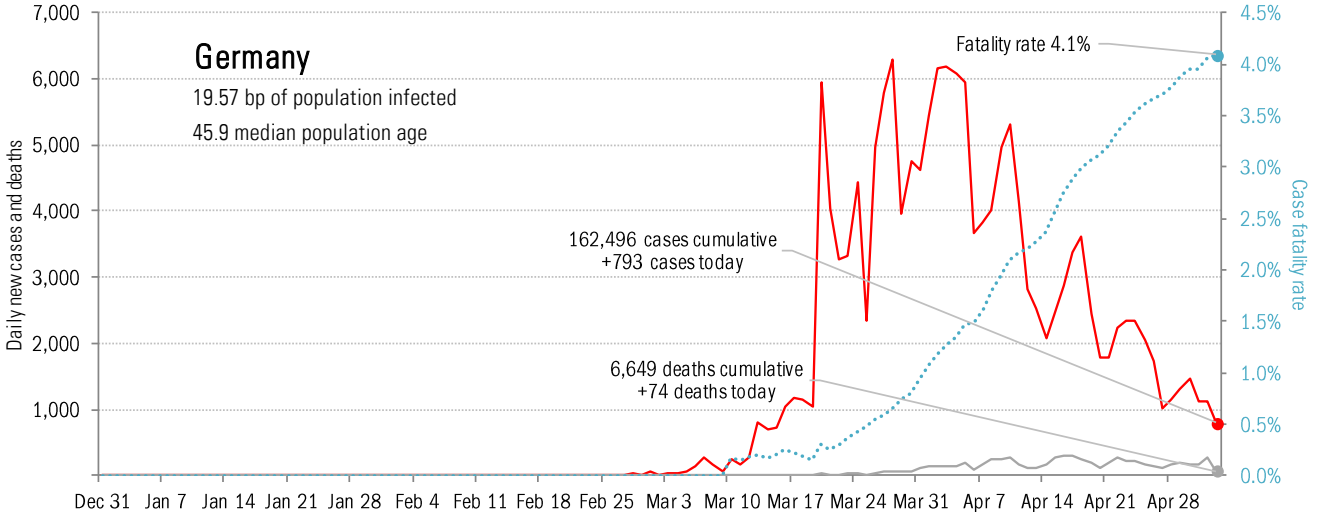


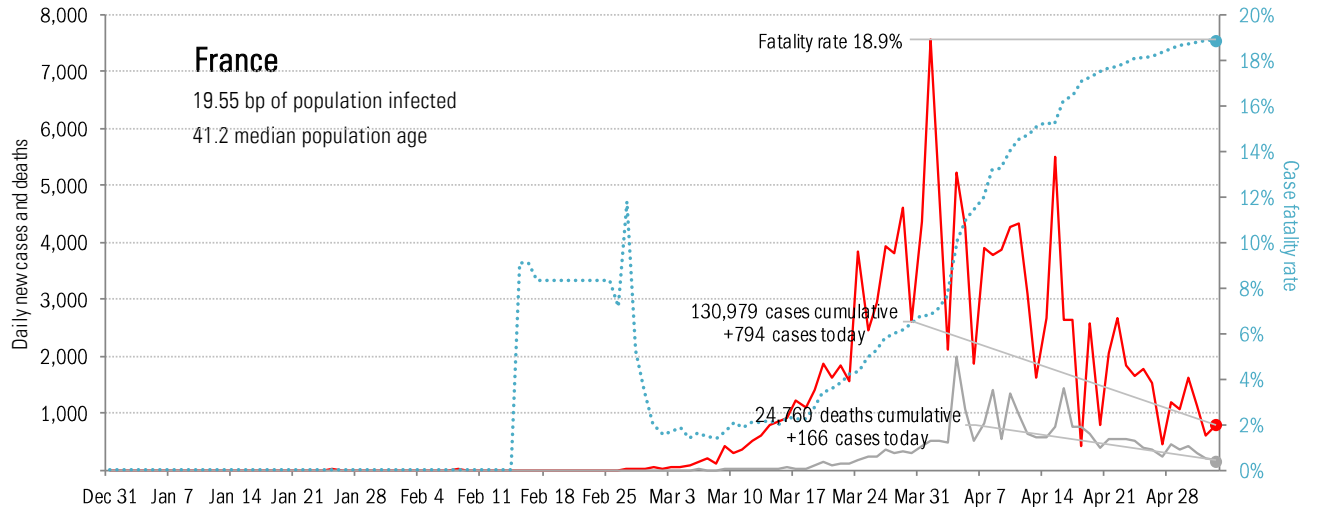


Source: ECDC, TrendMacro calculations

Impact in the largest economies

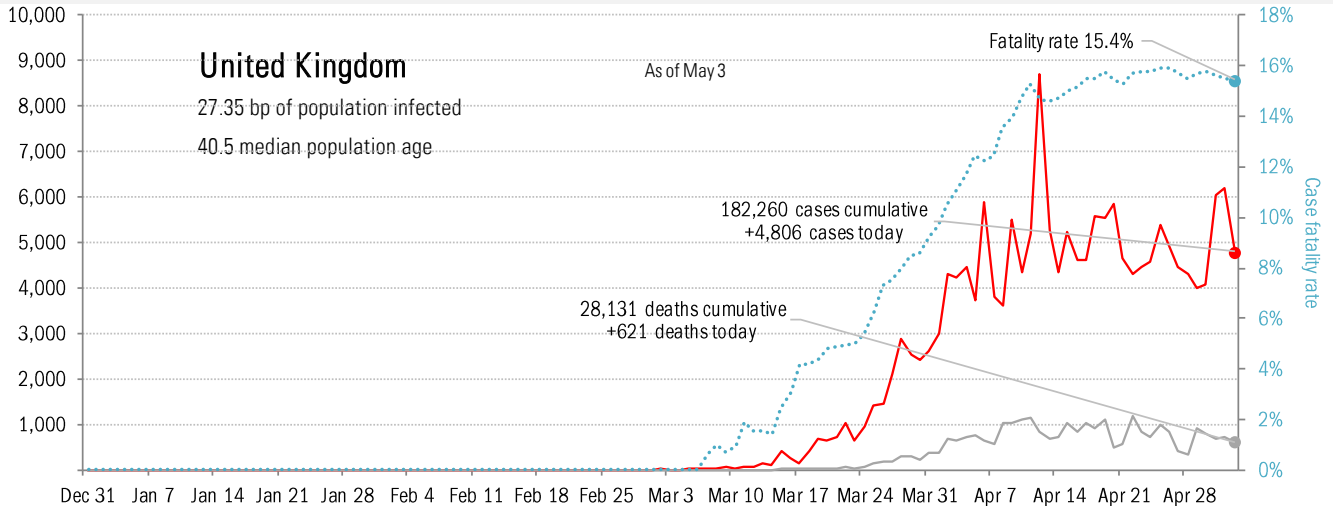


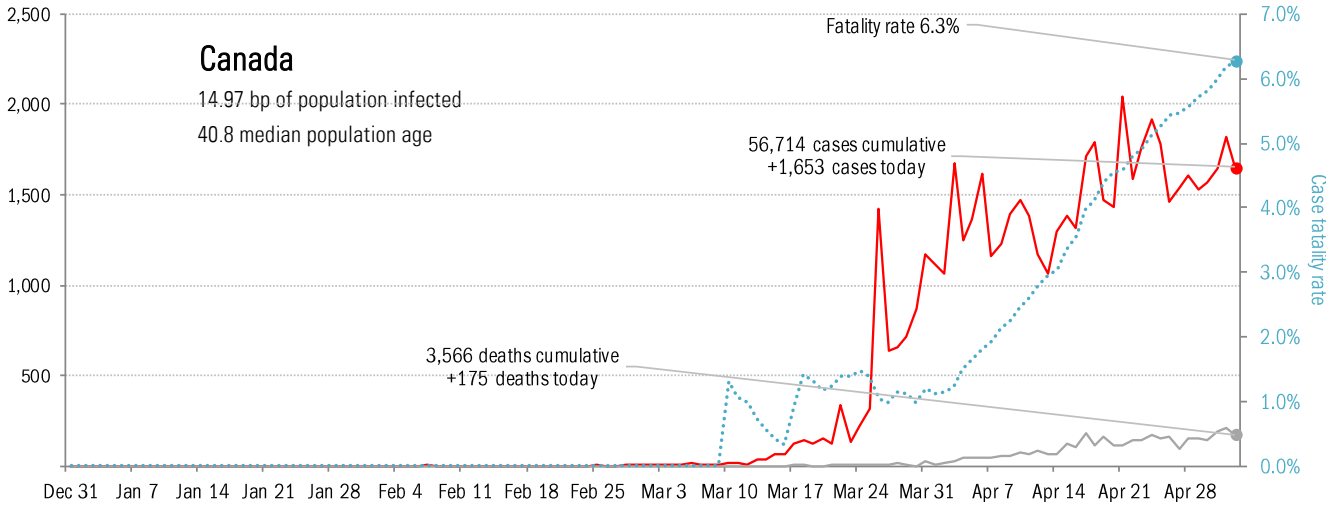


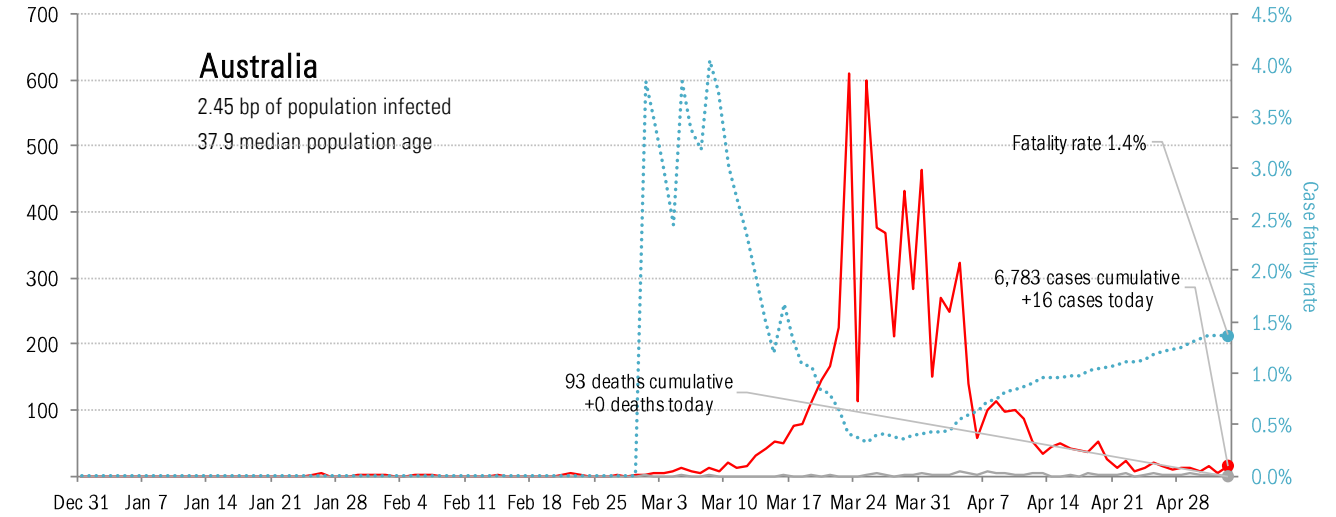


Source: ECDC, TrendMacro calculations

Impact in The Anglosphere

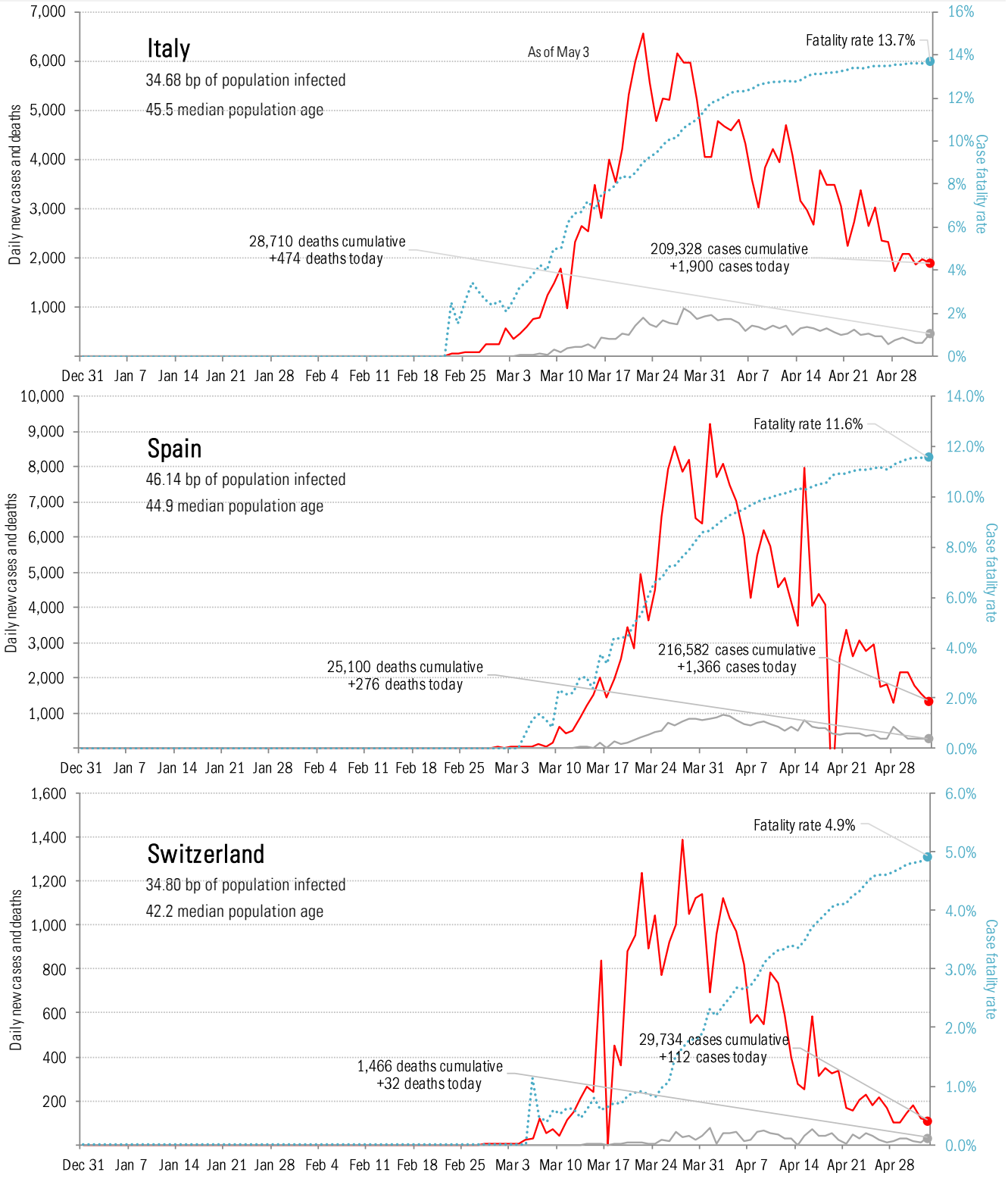






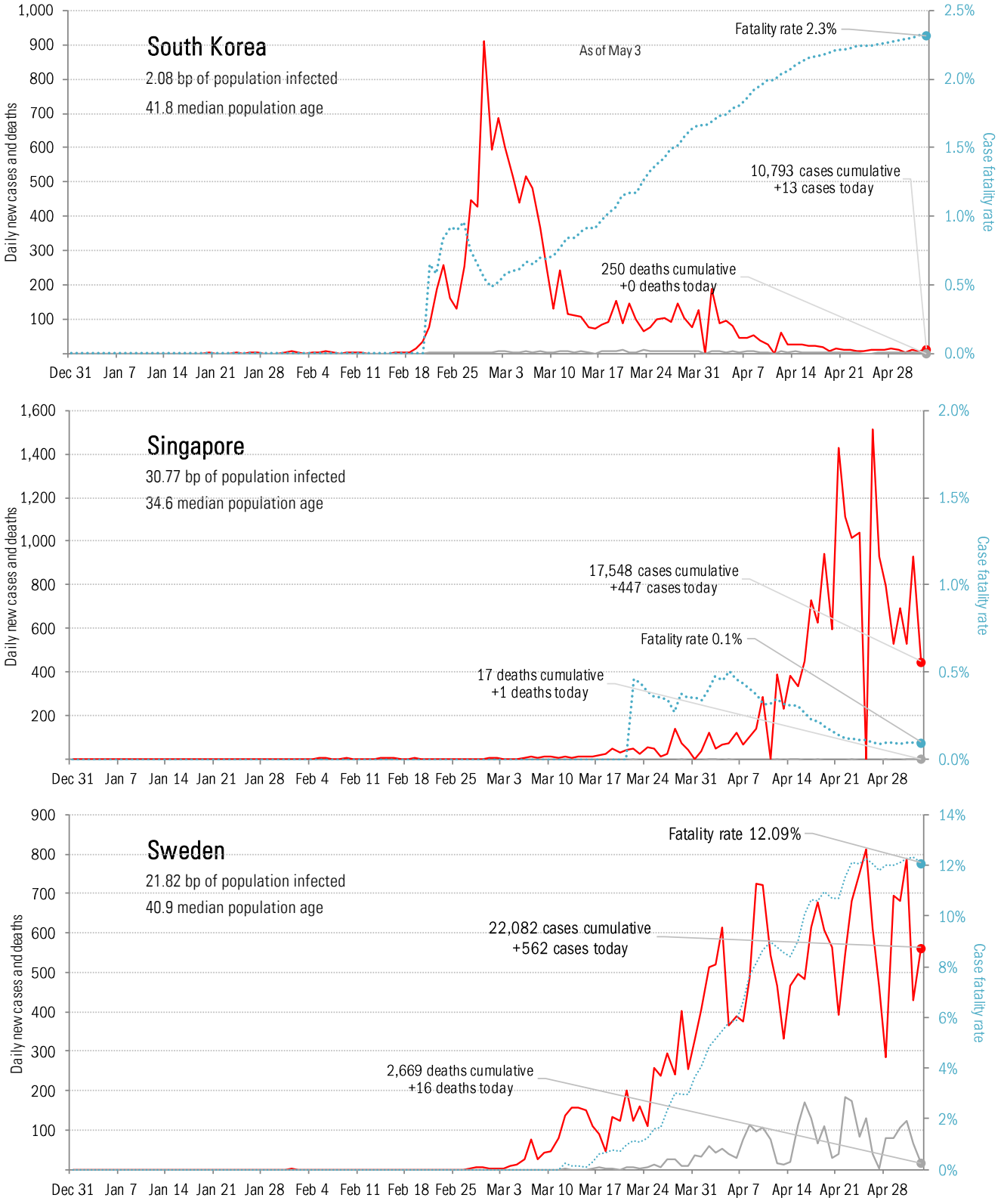
Source: ECDC, TrendMacro calculations

Impact in continental Europe



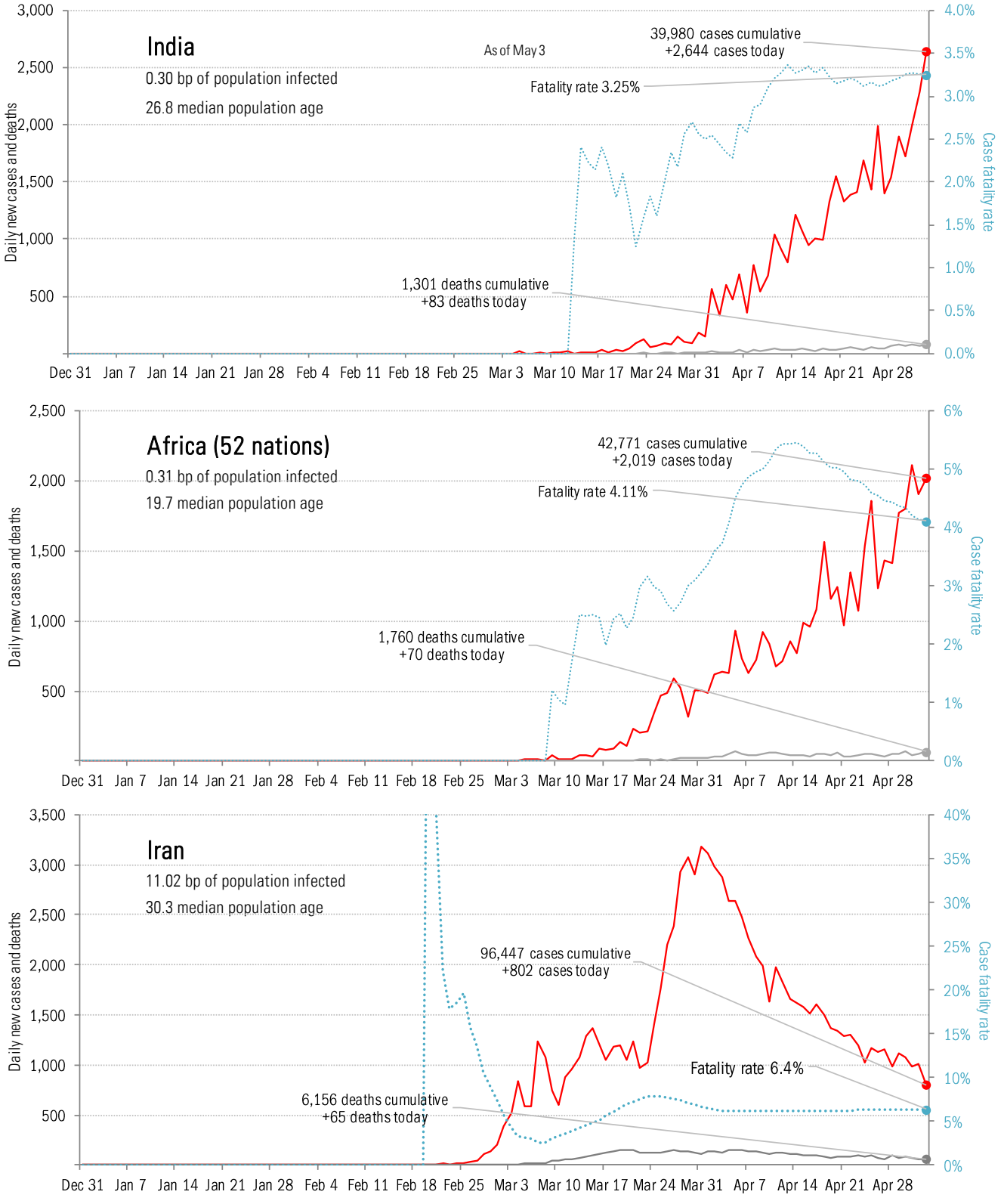
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



Source: ECDC, TrendMacro calculations

Impact in the fragile emerging world



Source: ECDC, TrendMacro calculations