Trend Macrolytics, LLC
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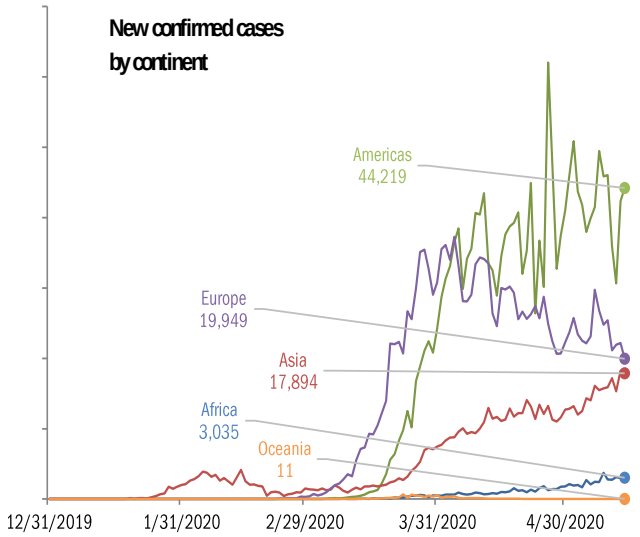
Data Insights: Covid-2019 Monitor

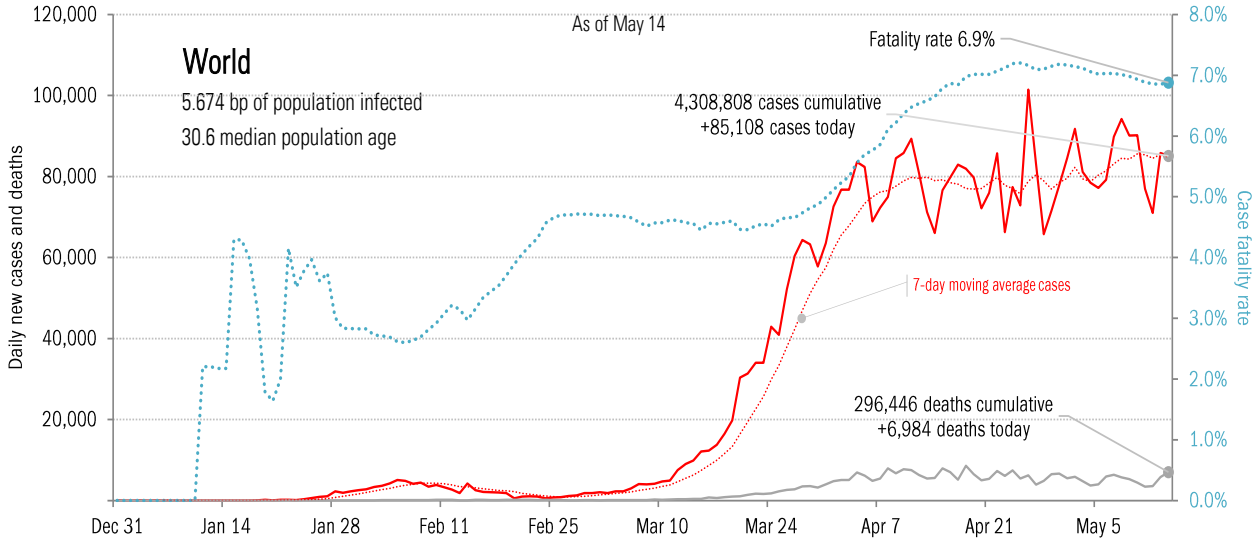
Thursday, May 14, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
US	+20,782	US	+1,746
Brazil	+11,385	Brazil	+749
Russia	+10,028	UK	+494
Peru	+4,247	Mexico	+294
India	+3,722	Italy	+172
UK	+3,242	Sweden	+147
Chile	+2,660	Canada	+135
Iran	+1,958	India	+134
Saudi	+1,905	Peru	+112
Mexico	+1,862	Russia	+96
	+61,791		+4,079
World	+85,108	World	+6,984
Top ten	73%	Top ten	58%





Source: ECDC, TrendMacro calculations

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The US scorecard

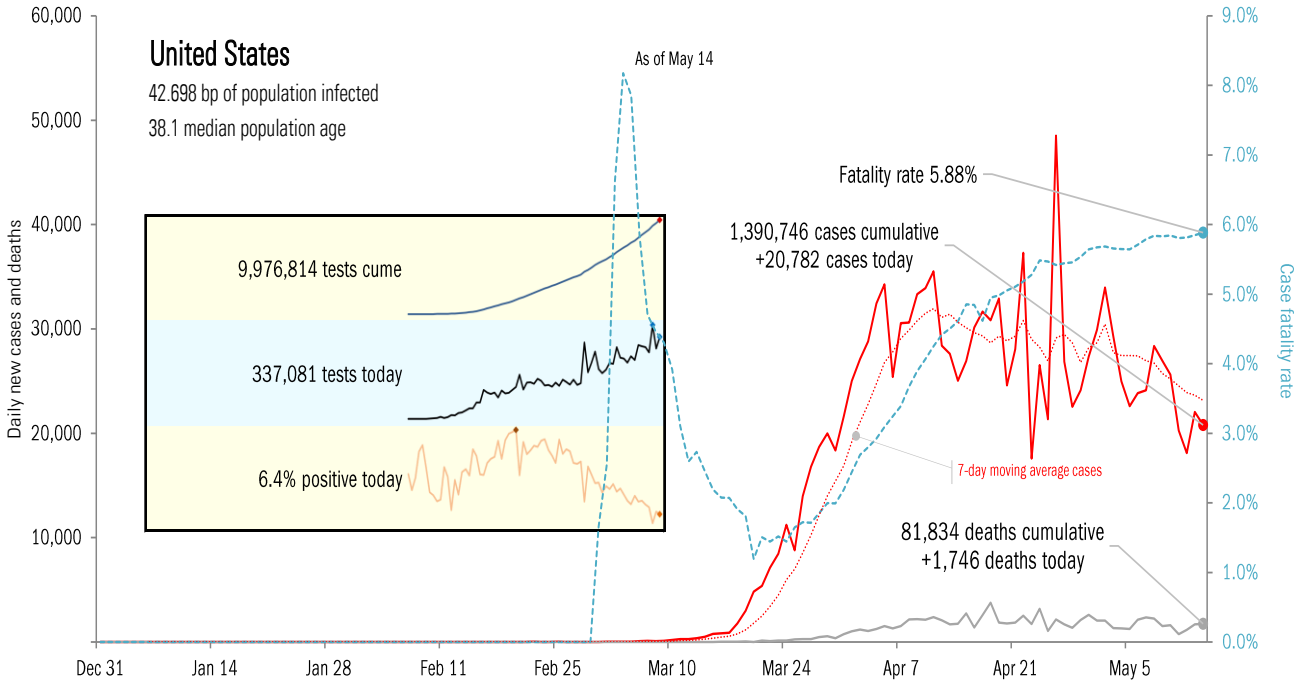
National and state-by-state data do not line up because of different sources

The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
TX	+2,534	NJ	+194	IN	+4,389	NY	340,661	NY	22,013	NY	73,963
NY	+2,176	IL	+191	NY	+820	NJ	141,560	NJ	9,702	CT	9,389
CA	+1,759	MA	+174	MA	+190	IL	84,698	MA	5,315	MA	8,032
IL	+1,677	NY	+168	FL	+181	MA	80,497	MI	4,714	FL	7,835
MA	+1,165	PA	+137	VA	+151	CA	71,141	PA	3,943	MD	6,404
VA	+946	CA	+87	GA	+129	PA	58,698	IL	3,792	GA	6,259
NJ	+817	CT	+84	MD	+117	MI	48,391	CT	3,125	VA	5,080
MD	+751	TX	+58	OH	+79	TX	42,403	CA	2,934	OH	4,618
PA	+707	MD	+53	KY	+58	FL	42,402	LA	2,381	IN	4,389
GA	+697	FL	+49	MN	+52	GA	35,332	FL	1,898	CO	3,695
	+13,229		+1,195		+6,166		945,783		59,817		129,664
All states	+21,599	All states	+1,726	All states	+6,486	All states	1,382,304	All states	78,343	All states	149,347
Top ten	61%	Top ten	69%	Top ten	95%	Top ten	68%	Top ten	76%	Top ten	87%

Five most improved US states

Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
IL	-2,337	MI	-50	NM	-97	MN	+8,149
FL	-462	NY	-37	SC	-86	TX	+1,806
TN	-308	OH	-32	OH	-47	NY	+514
SC	-274	SC	-24	MN	-31	IA	+336
MN	-272	MD	-20	FL	-15	WI	+302



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

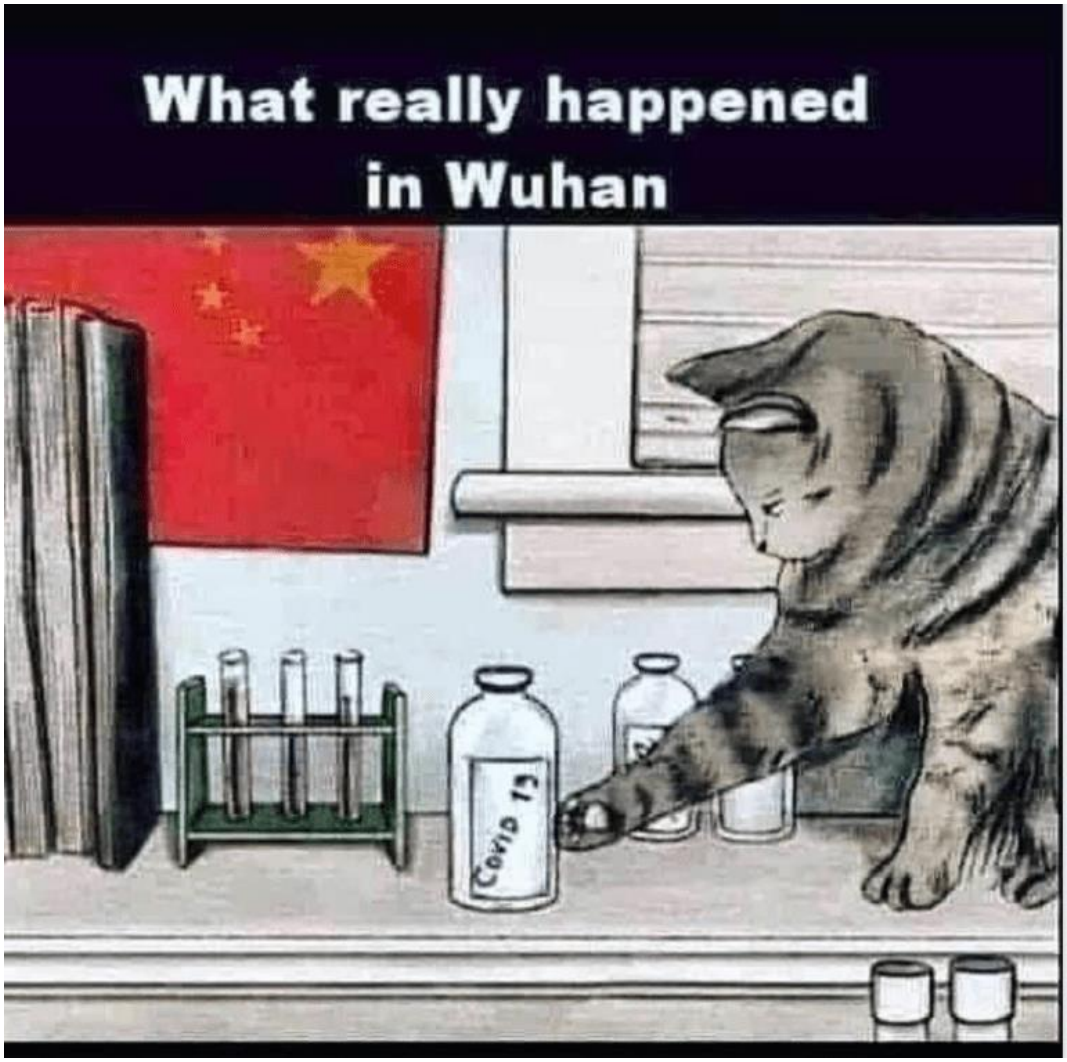
Recommended reading

[Sweden's Coronavirus Strategy Will Soon Be the World's]
Nils Karlson, Charlotta Stern, and Daniel B. Klein
Foreign Affairs
May 12, 2020

[Letter to the Public from the Former Trustees of Social Security and Medicare]
Charles Blahous III and Robert Reischauer
Bipartisan Policy Center
May 12, 2020

[Individual variation in susceptibility or exposure to SARS-CoV-2 lowers the herd immunity threshold]
M. Gabriela M. Gomes et al.
medRvix
May 12, 2020

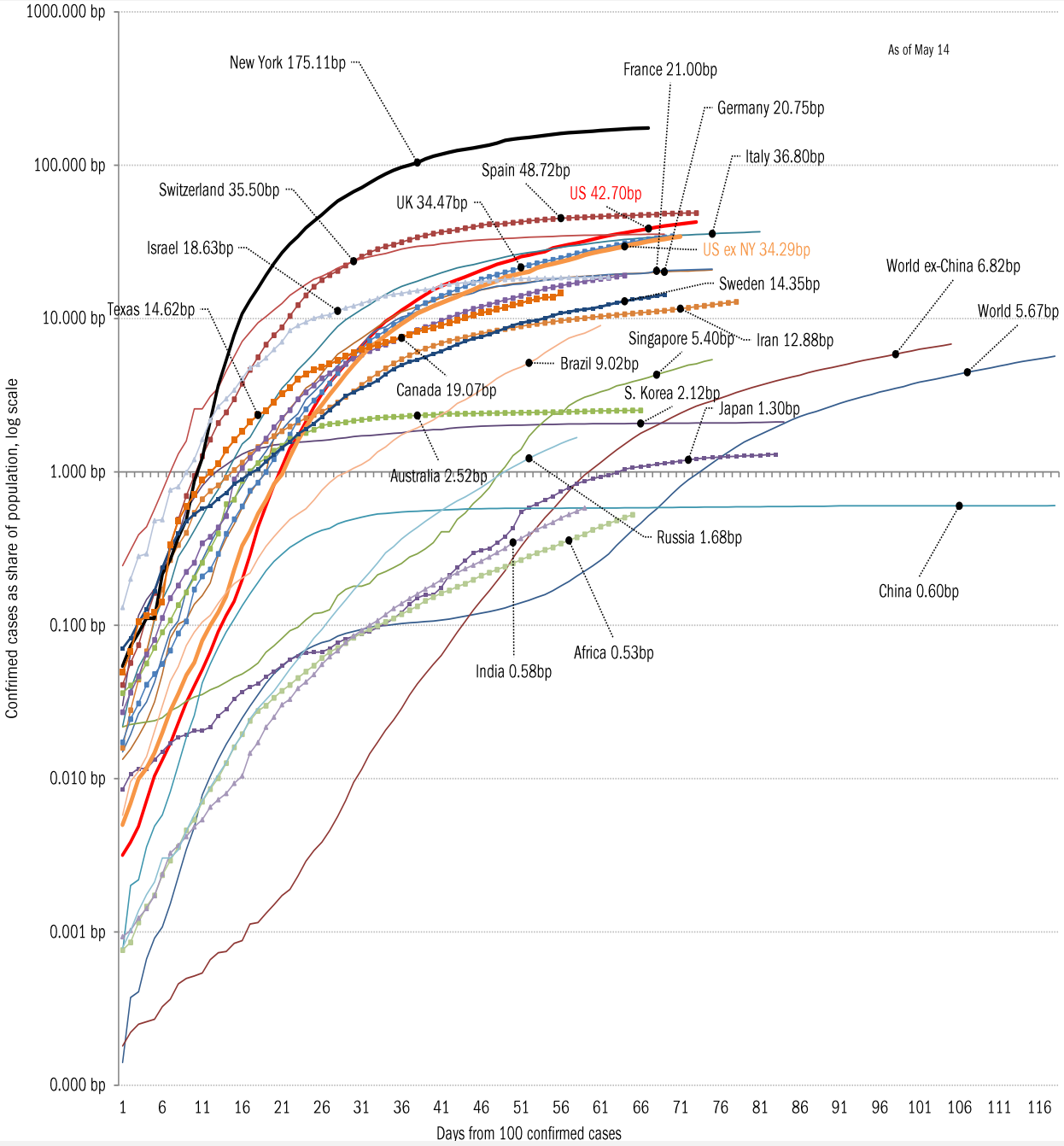
Meme of the day



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

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

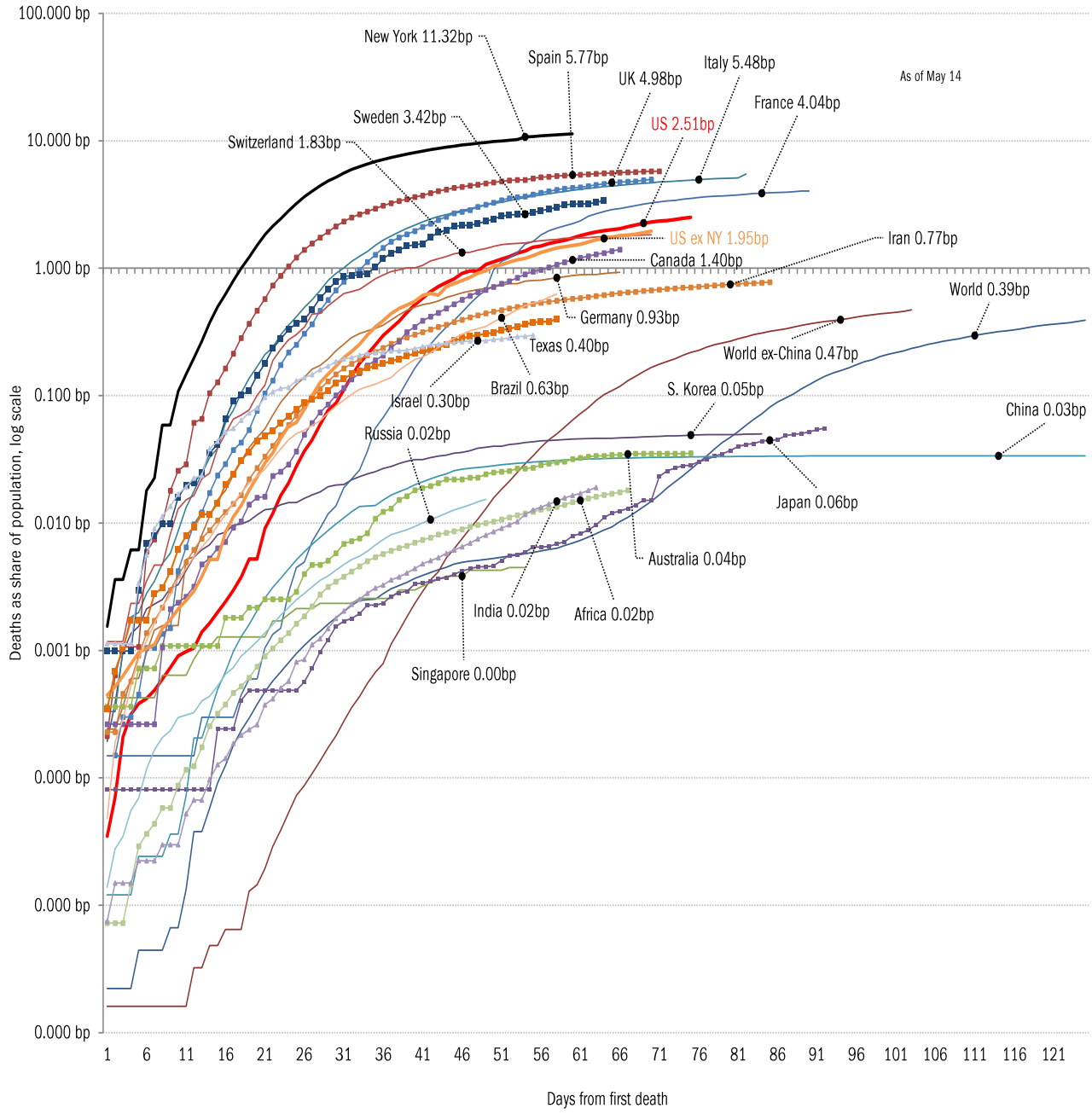
Share of infected population from first day with 100 confirmed cases, log scale



Source: ECDC, TrendMacro calculations

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

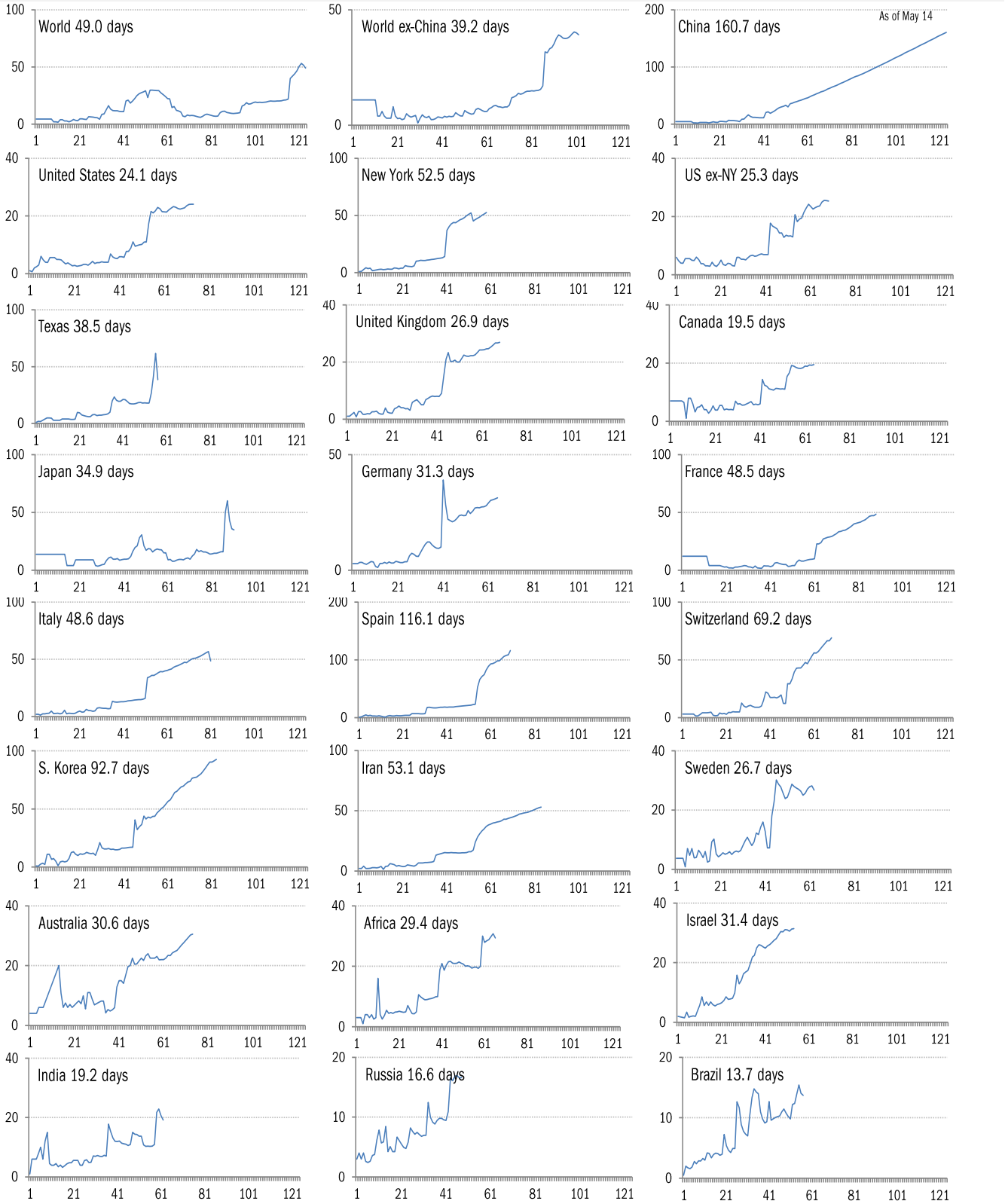
Share of deceased population from day of first fatality



Source: ECDC, TrendMacro calculations

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

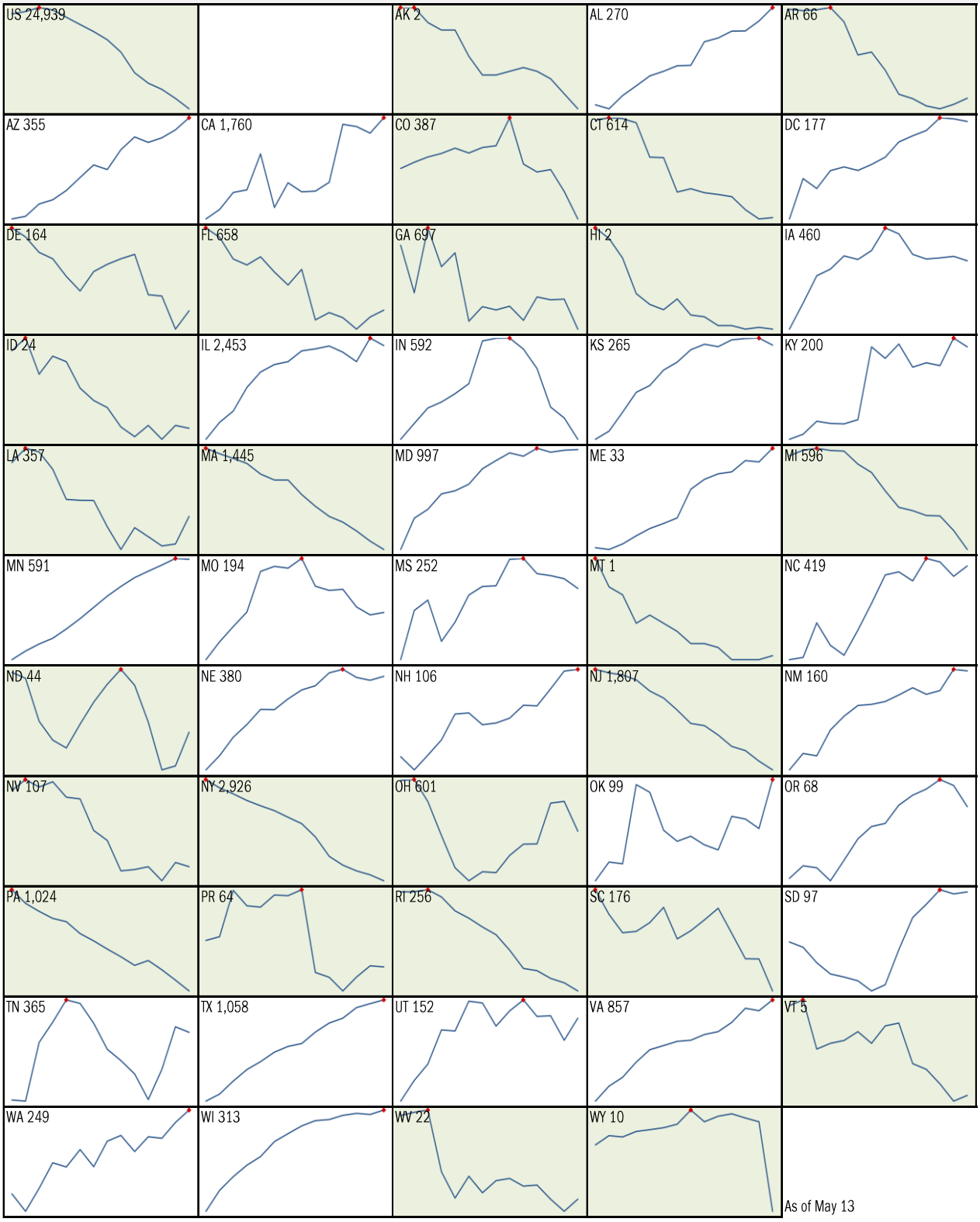
Vertical: number of days it takes to double deaths Horizontal: days from first death



Source: ECDC, TrendMacro calculations

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

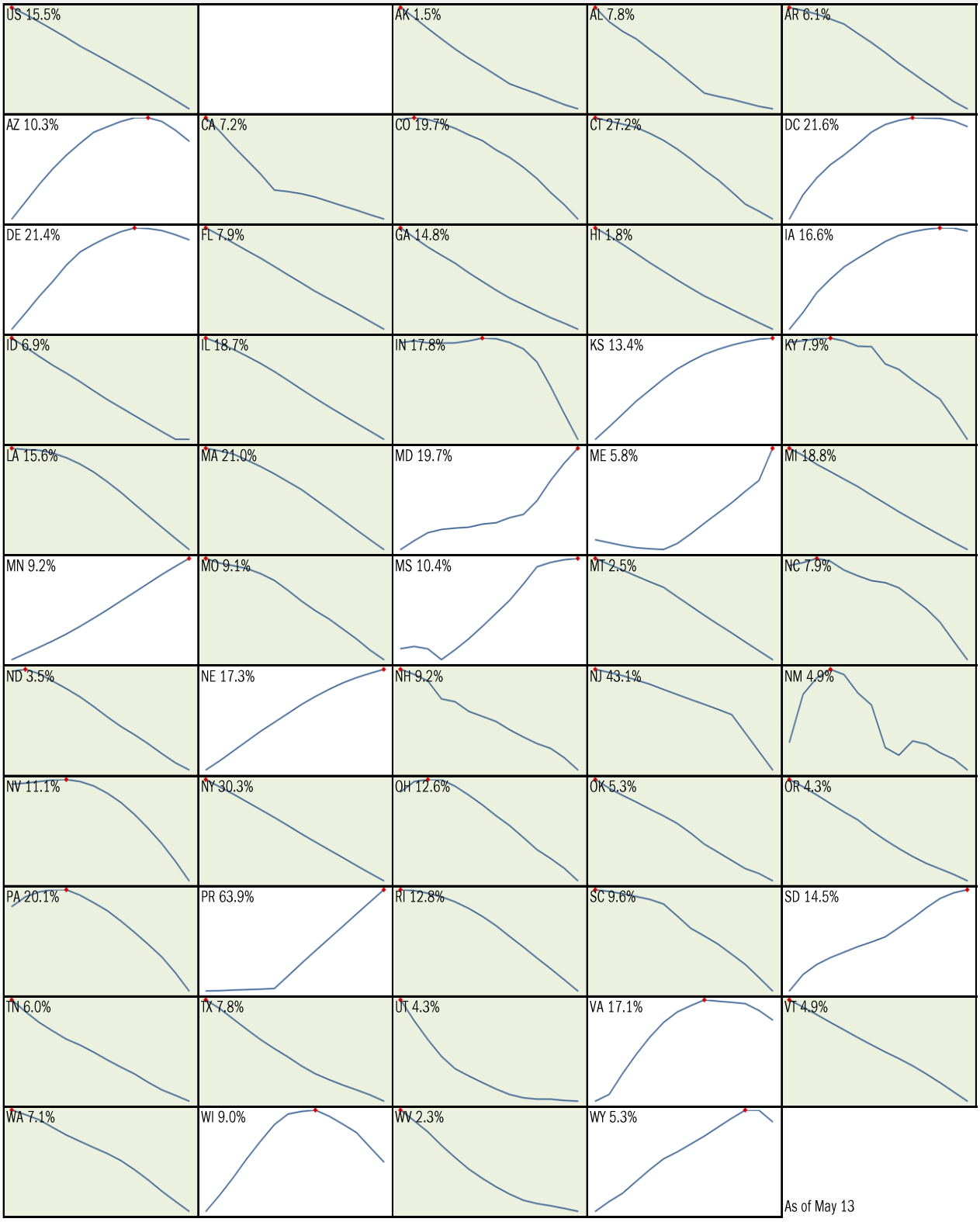
14-day moving average, last 14 days *Most recent value displayed*



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*

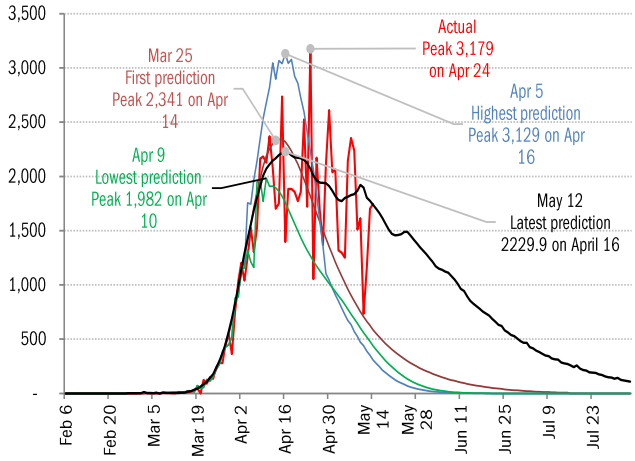


Source: Covid Tracking Project, TrendMacro calculations

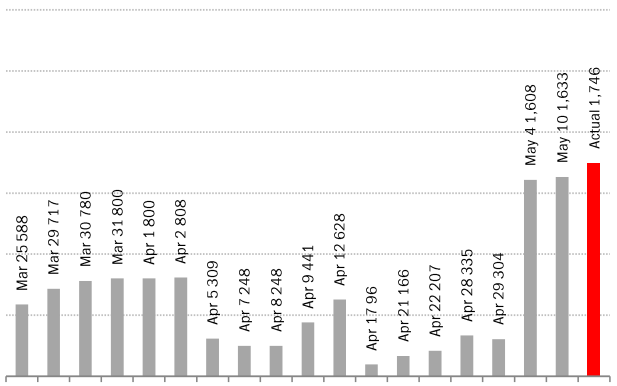
Reality-checking the models: actuals versus IHME predictions

New daily fatalities — As of May 14

Actual versus first, highest and latest model mean predictions

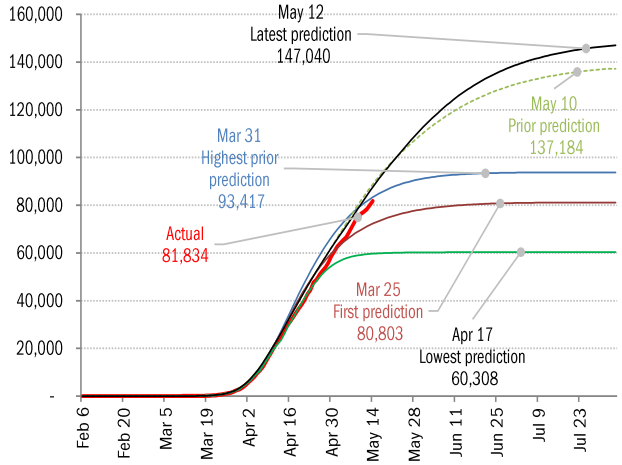


For this day, versus all model mean predictions

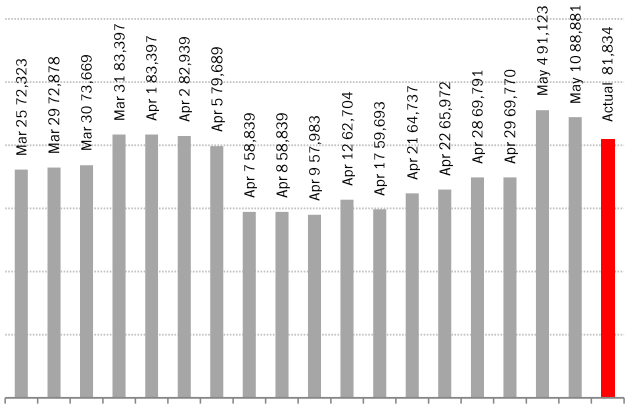


Cumulative fatalities

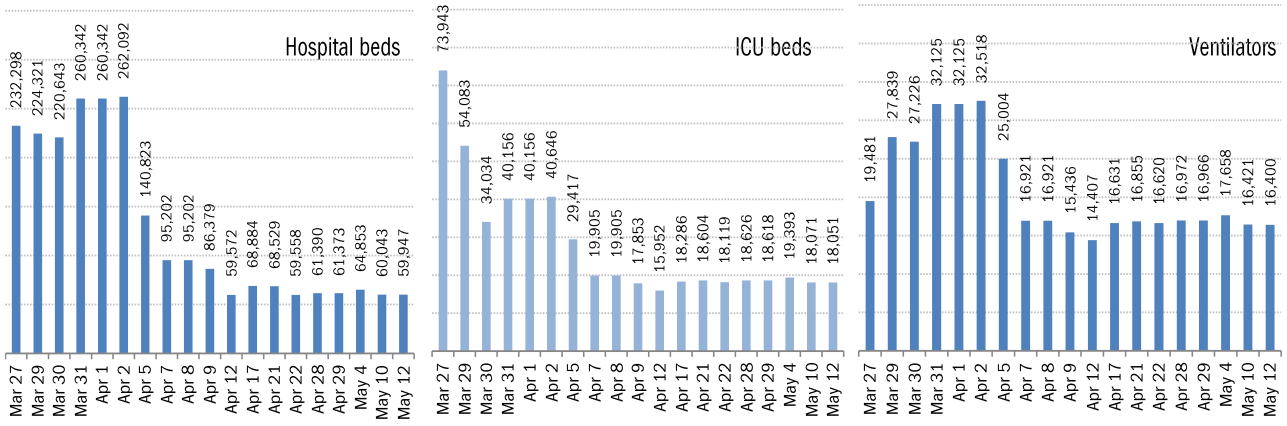
Actual versus first, highest and latest model mean predictions



For this day, versus all model mean predictions

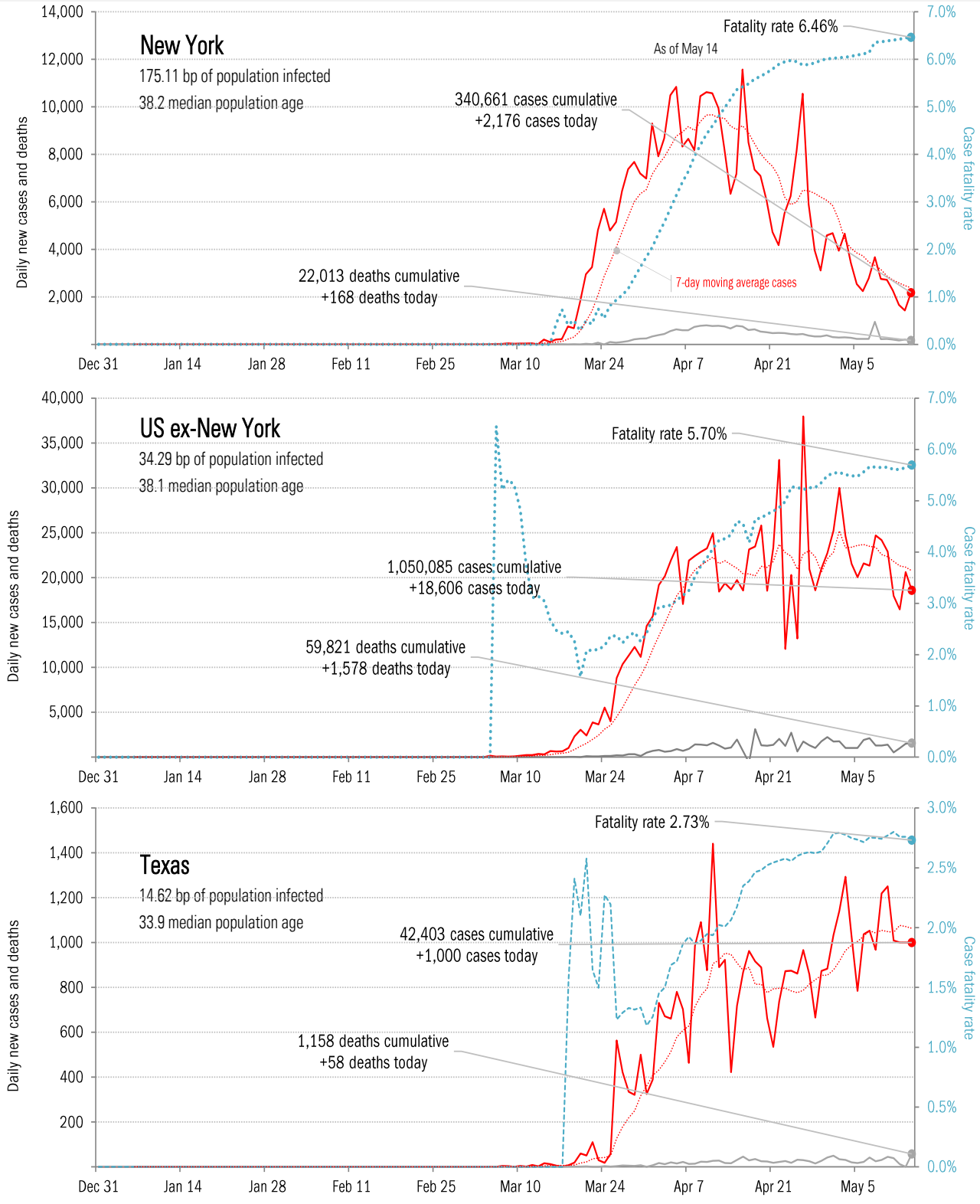


Healthcare system stress, peak estimated at each model revision



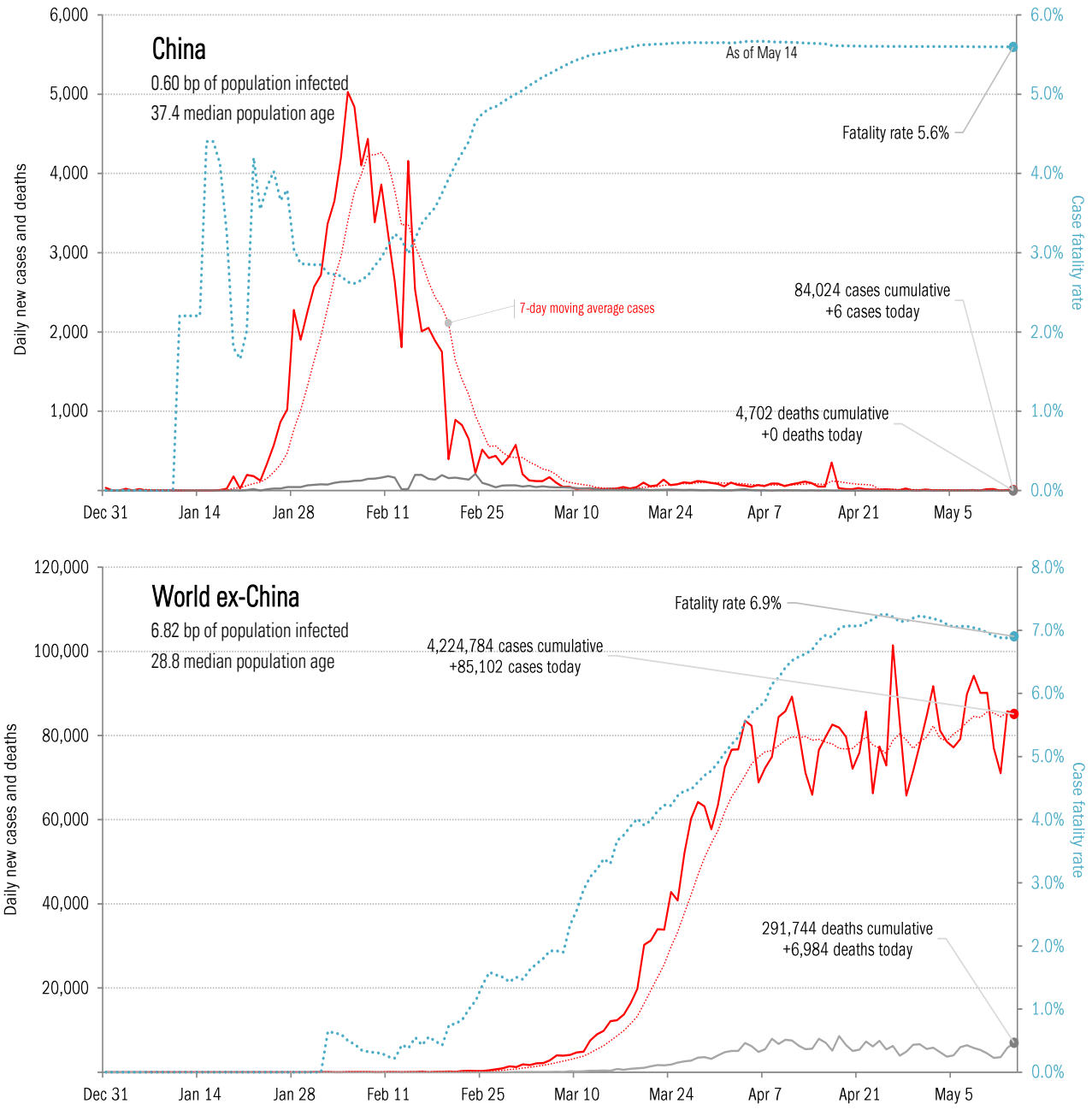
Source: ECDC, IHME, TrendMacro calculations

From Ground Zero to the Rio Grande



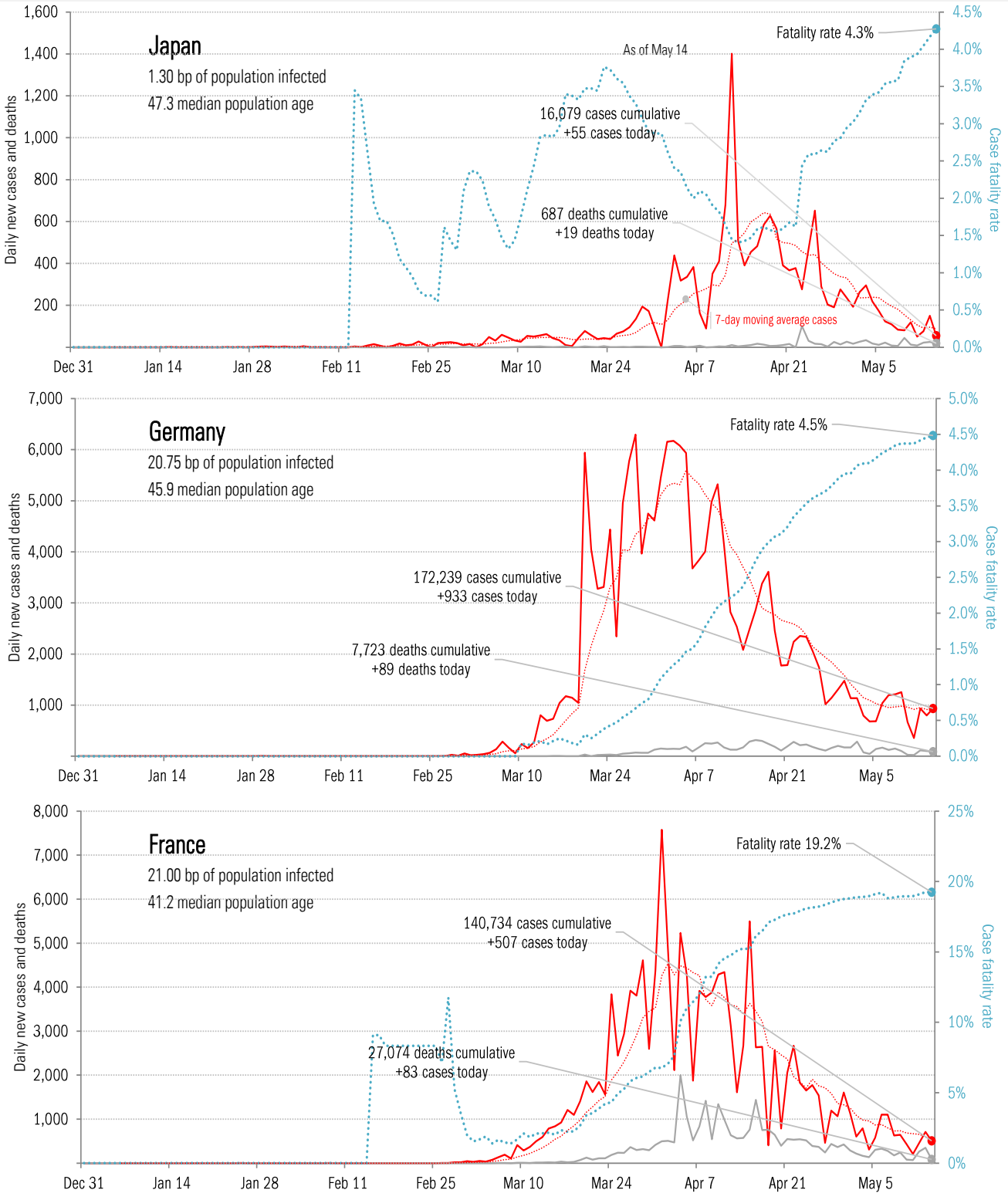
Source: ECDC, TrendMacro calculations

Patient zero… and then everyone else



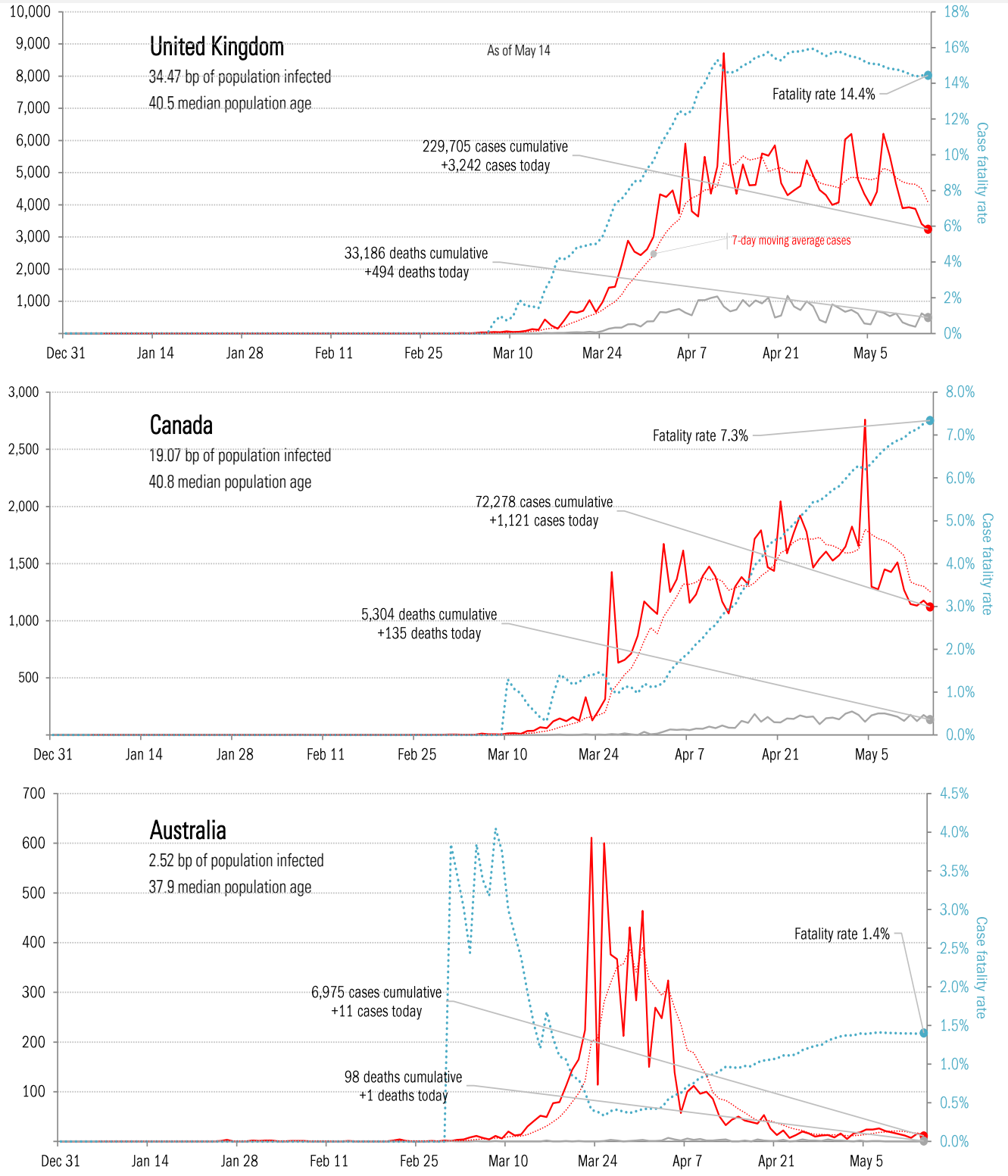
Source: ECDC, TrendMacro calculations

Impact in the largest economies



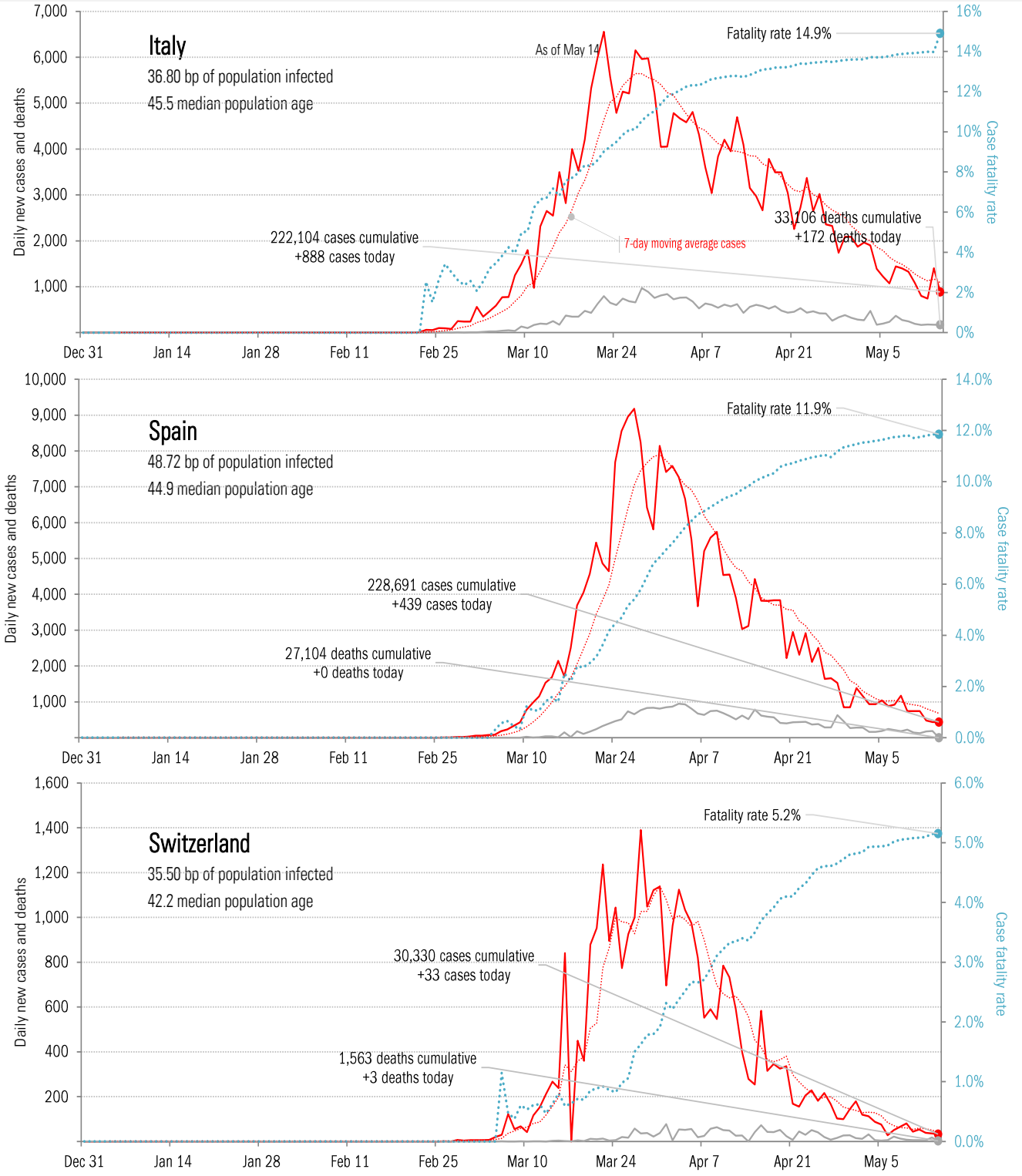
Source: ECDC, TrendMacro calculations

Impact in The Anglosphere



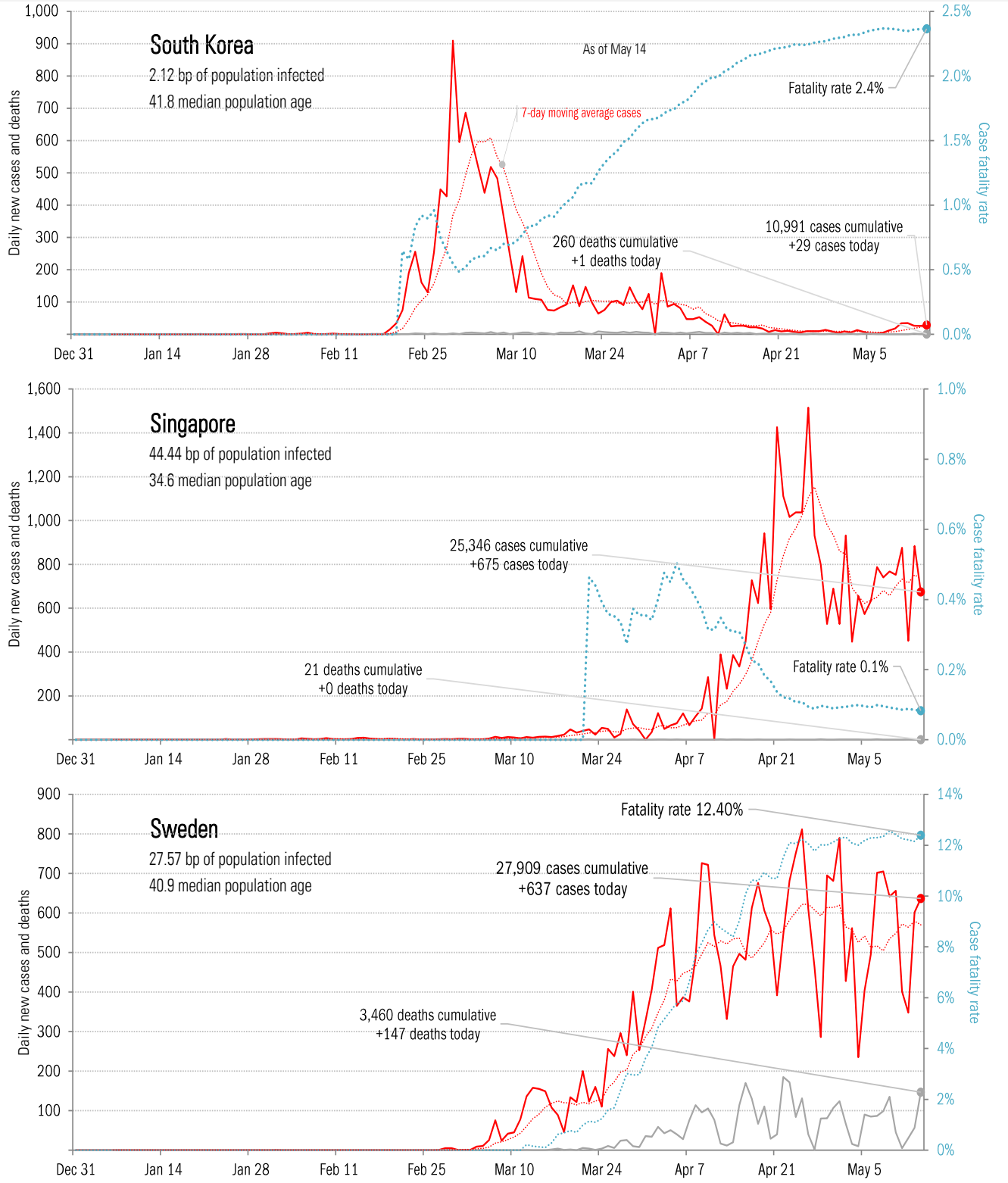
Source: ECDC, TrendMacro calculations

Impact in continental Europe



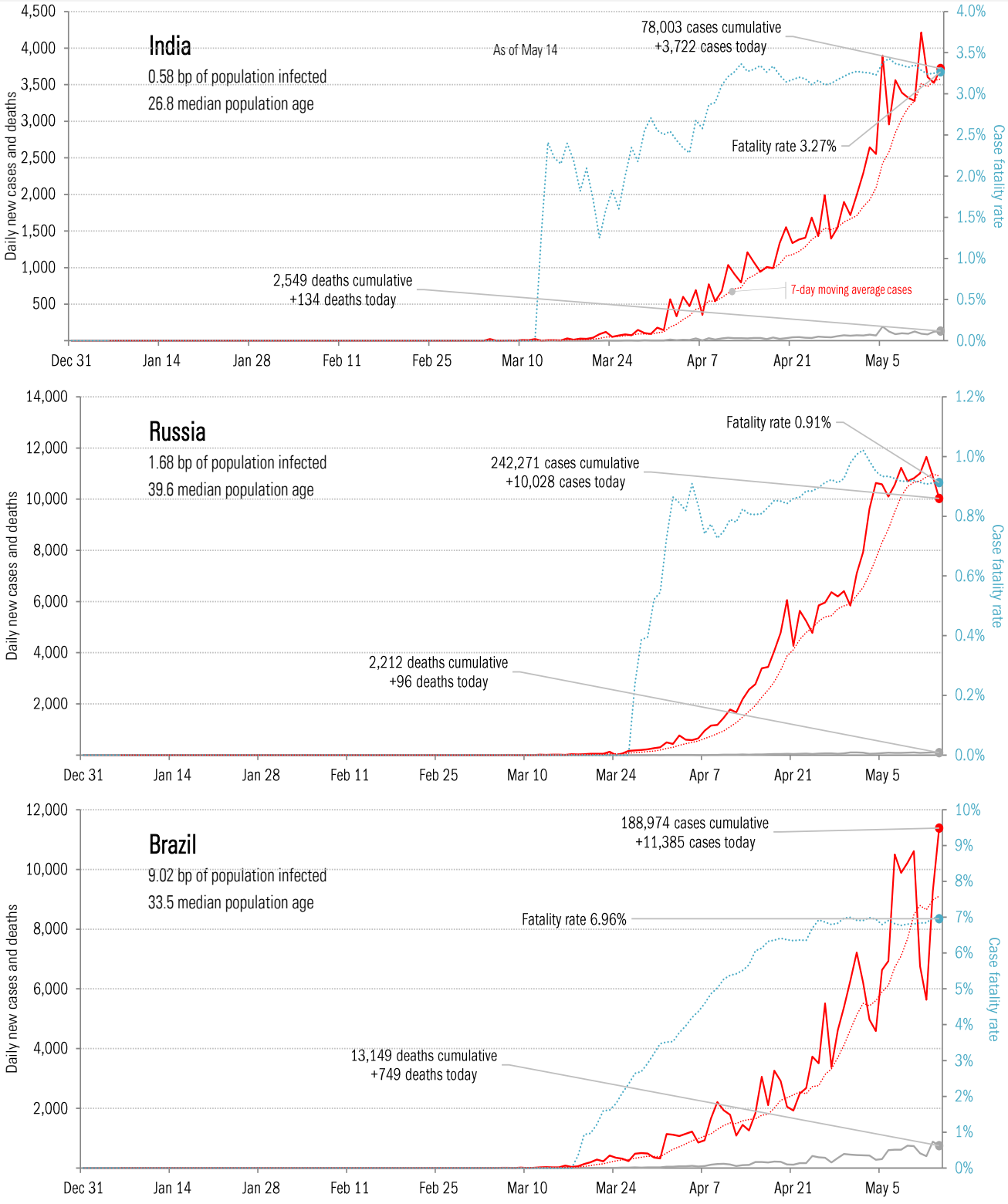
Source: ECDC, TrendMacro calculations

Impact in other hot-spots



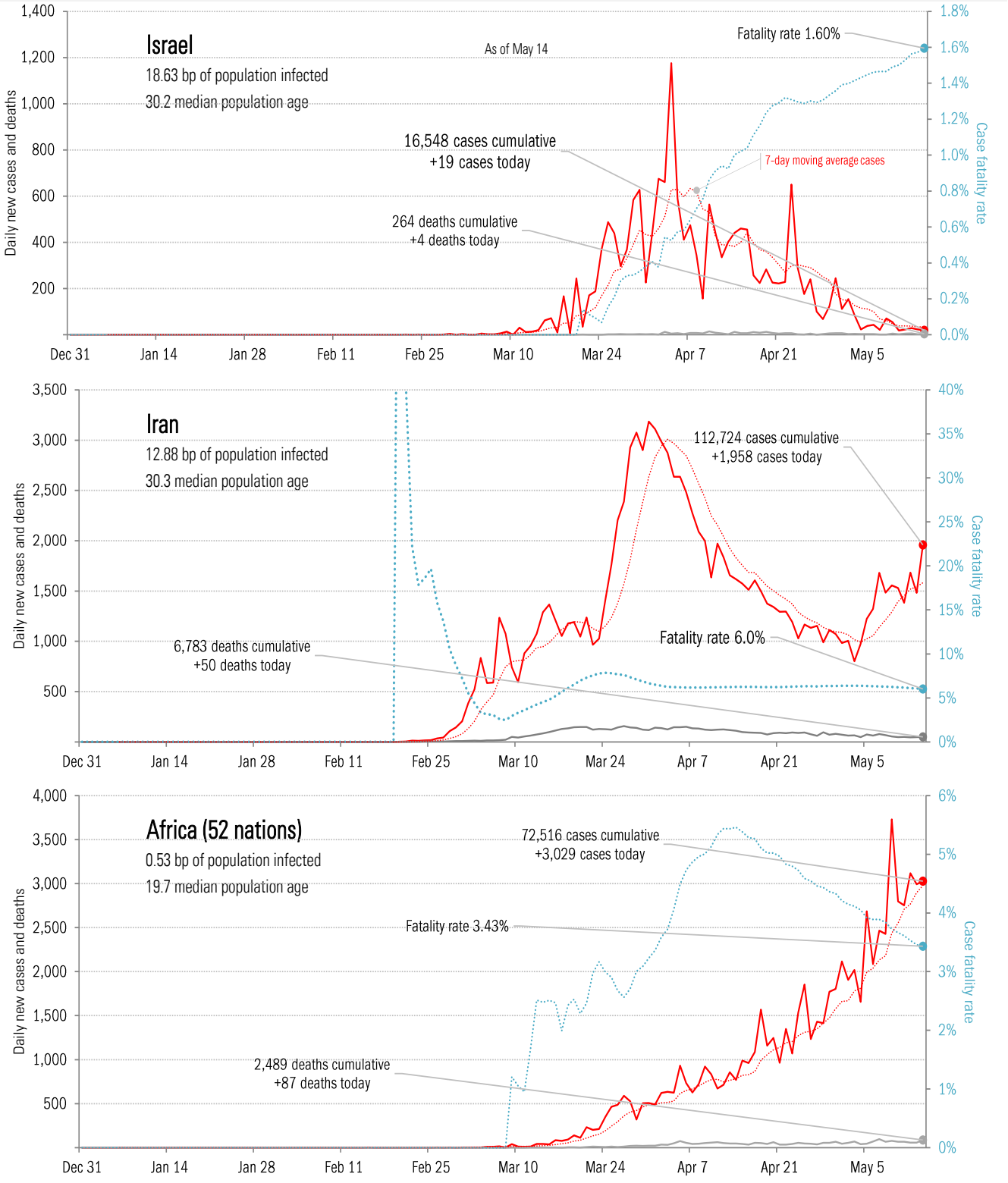
Source: ECDC, TrendMacro calculations

Impact in the BRICs ex-China



Source: ECDC, TrendMacro calculations

Impact in the Middle East and Africa



Source: ECDC, TrendMacro calculations