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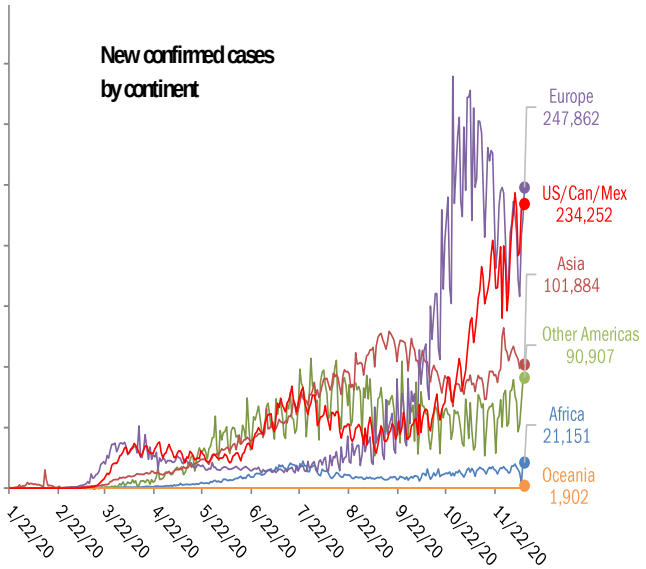
Data Insights: Covid-2019 Monitor

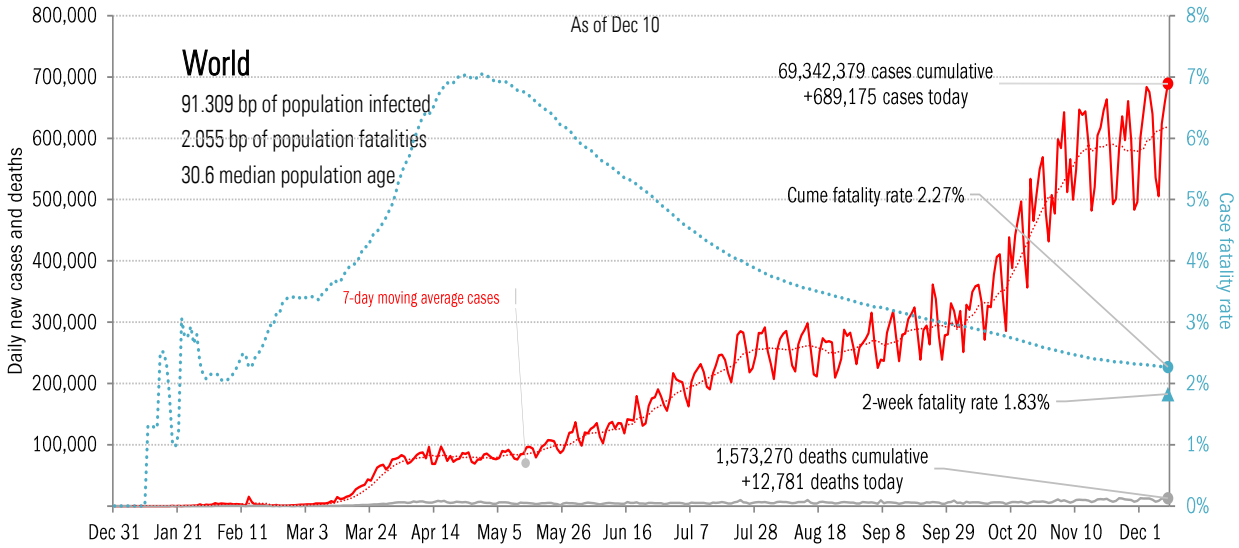
Friday, December 11, 2020

The global scorecard

The worst ten countries

New cases		New Deaths	
United States	+215,669	United States	+3,067
Brazil	+53,347	Italy	+887
Germany	+32,734	Brazil	+770
Turkey	+30,424	Mexico	+671
India	+29,373	Germany	+604
Russia	+27,562	Russia	+549
United Kingdom	+21,066	United Kingdom	+516
Italy	+16,998	Poland	+470
Poland	+13,750	India	+413
Ukraine	+13,736	Spain	+325
	+454,659		+8,272
World	+689,175	World	+12,781
Top ten	66%	Top ten	65%





Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

For more information contact us:
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The US scorecard

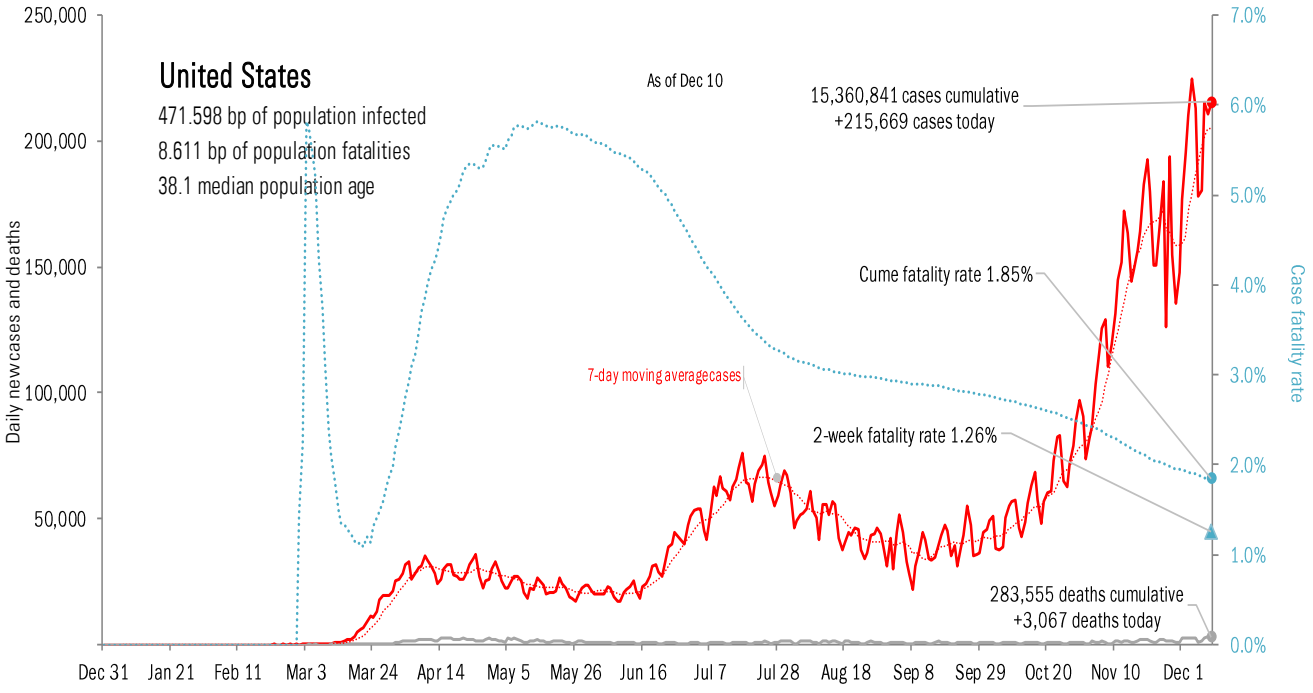
The ten worst US states

New cases		New Deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital	
CA	+29,677	PA	+248	CA	+512	CA	1,450,235	NY	27,498	NY	89,995
TX	+12,458	TX	+244	NY	+171	TX	1,296,132	TX	23,325	FL	58,226
PA	+11,972	IL	+232	AZ	+121	FL	1,076,547	CA	20,463	NJ	43,259
OH	+11,738	CA	+220	WA	+63	IL	823,531	FL	19,851	GA	37,017
IL	+11,101	MI	+194	MO	+62	NY	743,242	NJ	17,608	OH	31,142
FL	+11,071	FL	+135	AL	+59	OH	531,850	IL	14,845	IN	29,743
NY	+10,178	OH	+111	MS	+45	GA	462,175	PA	12,010	AZ	29,335
IN	+6,518	IA	+99	MA	+31	PA	457,289	MA	11,209	AL	27,618
MI	+6,302	IN	+97	WV	+29	WI	456,889	MI	10,900	MD	22,833
GA	+6,062	NY	+94	PA	+25	MI	454,720	GA	9,975	MN	19,029
	+117,077		+1,674		+1,118		7,752,610		167,684		388,197
All states	+215,669	All states	+3,067	All states	+553	All states	15,360,841	All states	283,555	All states	603,554
Top ten	54%	Top ten	55%	Top ten	202%	Top ten	50%	Top ten	59%	Top ten	64%

Some states not reporting

Five most improved US states

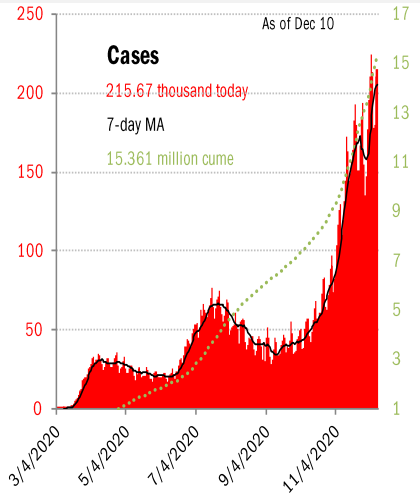
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most recoveries	
KS	-5,778	KS	-85	KS	-486	MA	+17,412
TN	-2,202	CO	-77	PA	-266	TX	+12,181
LA	-1,937	NJ	-50	IL	-231	OH	+10,040
CA	-1,174	MA	-47	OH	-105	PA	+6,944
MN	-1,017	AZ	-35	VA	-101	WI	+6,317

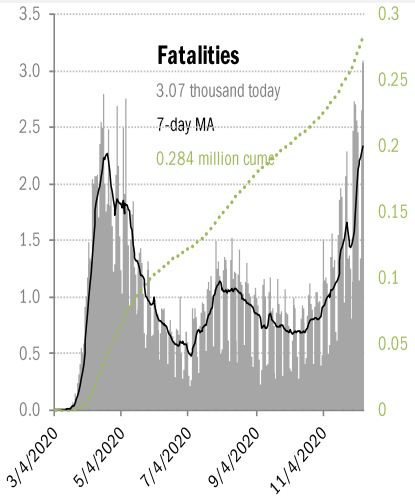


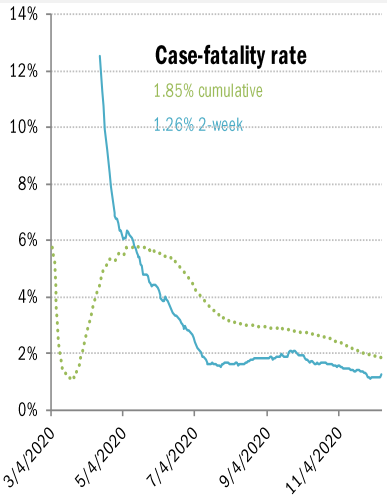
Source: Covid Tracking Project, TrendMacro calculations

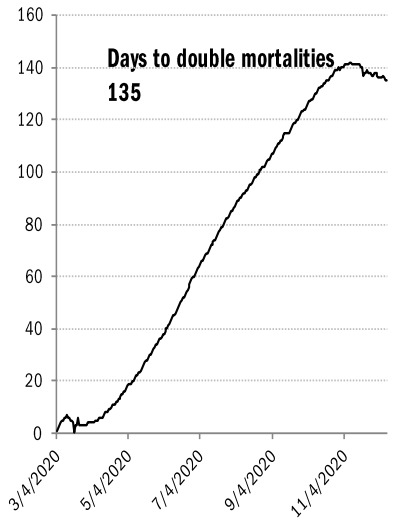
US deep-dive

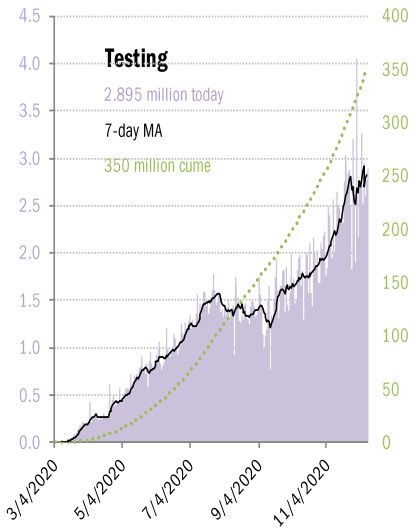
National and state-by-state data do not line up because of different sources

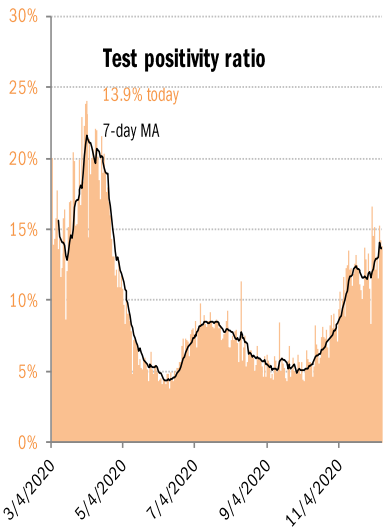


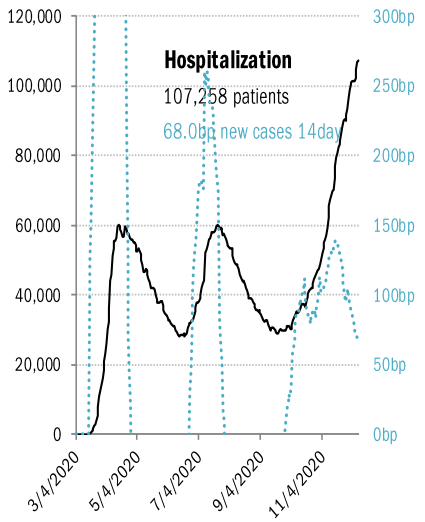


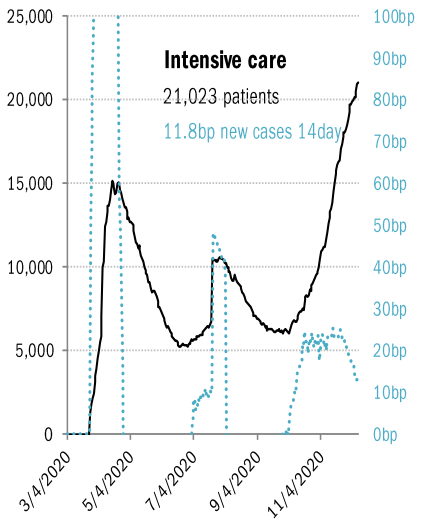


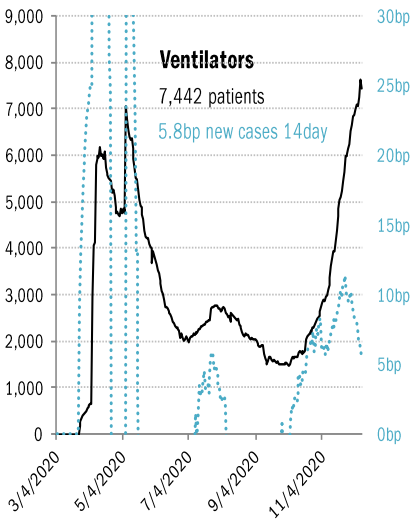






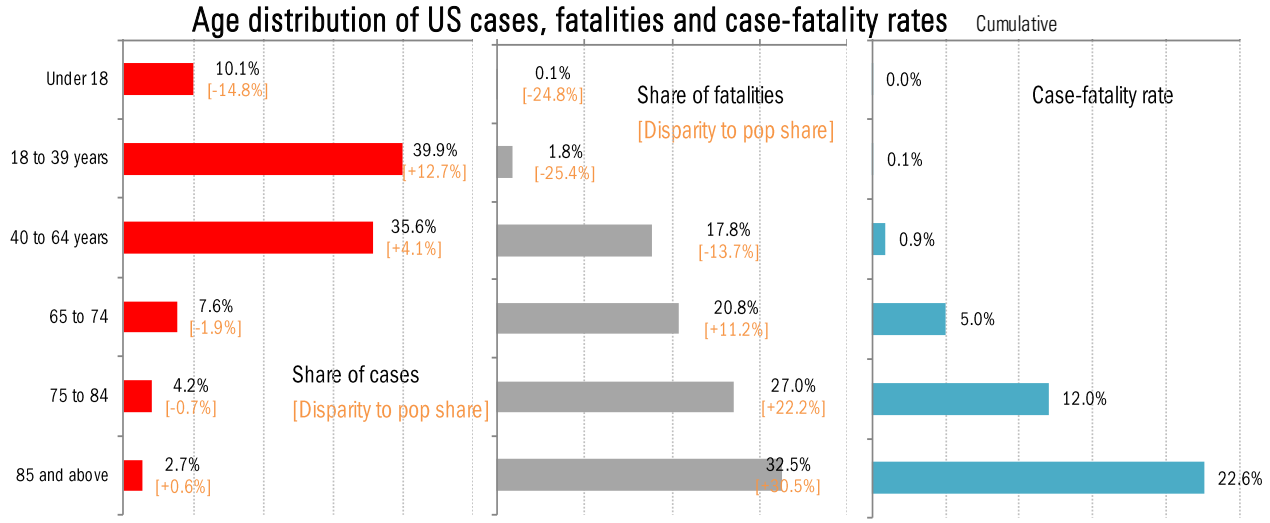


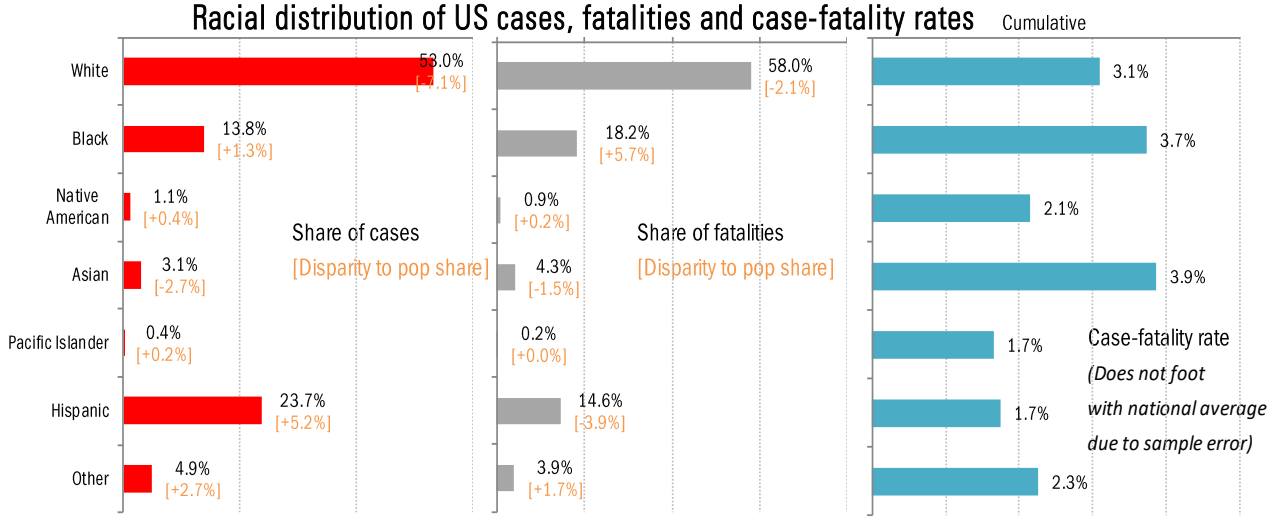




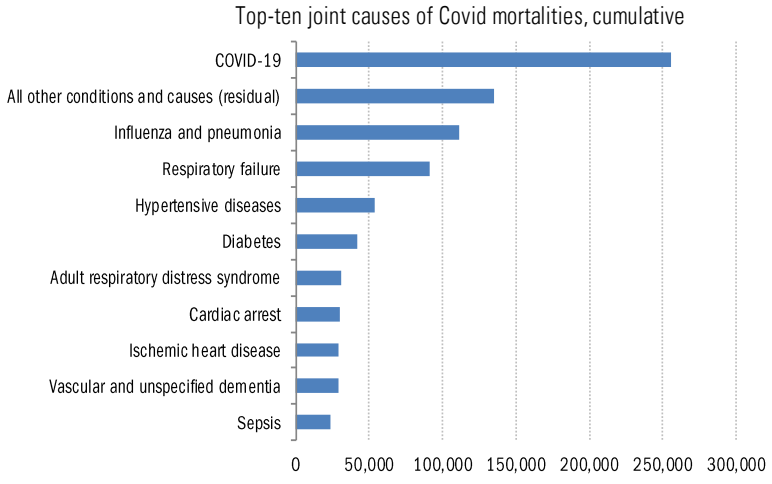
Source: Covid Tracking Project, TrendMacro calculations

US deep-dive on the demographics of age, race and health





Comorbidites



For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.9 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

A Shot (Instead of Two) at Saving Lives
Michael Segal
Wall Street Journal
December 10, 2020

California city redesignates existing outdoor dining locations as 'public seating' to help small businesses, restaurants
Lucas Manfredi
Fox Business
December 8, 2020

Where Is the Data to Support Closing Outdoor Dining in LA? It's Complicated
Farley Elliott
Eater
December 1, 2020

L.A. Restaurant Owner Fights Back Against Government's COVID-19 Double Standards
Patrice Onwuka
Independent Women's Forum
December 7, 2020

Combined Diagnostics, Modeling Population Heterogeneity by Providing Personalized COVID Diagnostics
Freddy Bunbury, Nina Miolane, Claire Donnat
C3.ai COVID-19 Grand Challenge
December 2020

George W. Bush and the Covid Vaccine
Karl Rove
Wall Street Journal
December 9, 2020

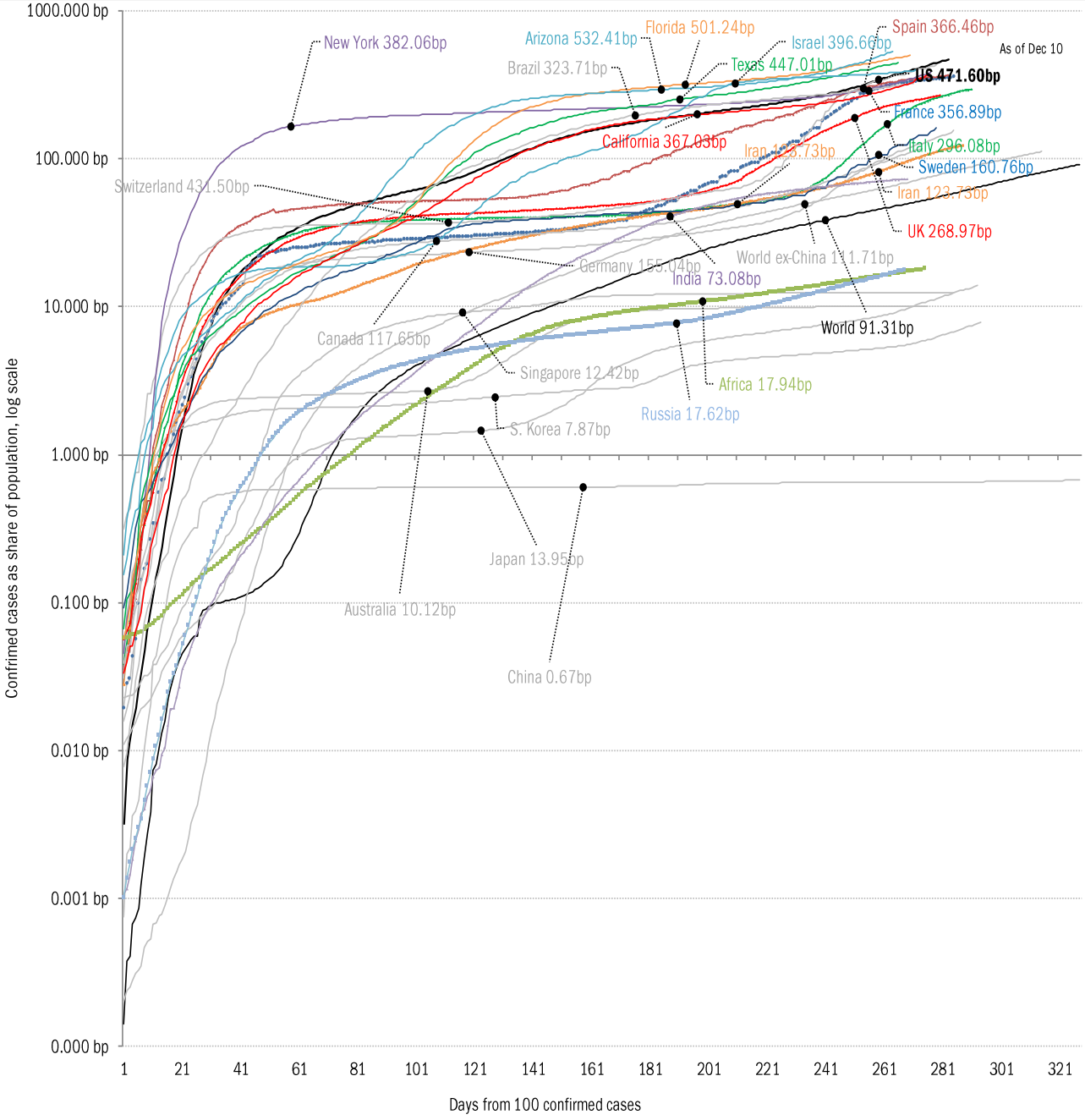
Ten Fatal Errors: Scientists Attack Paper That Established Global PCR Driven Lockdown
Celia Garber
Insider DC
December 3, 2020

Meme of day

Source: Our beloved clients, and Power Line blog "The Week in Pictures"

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

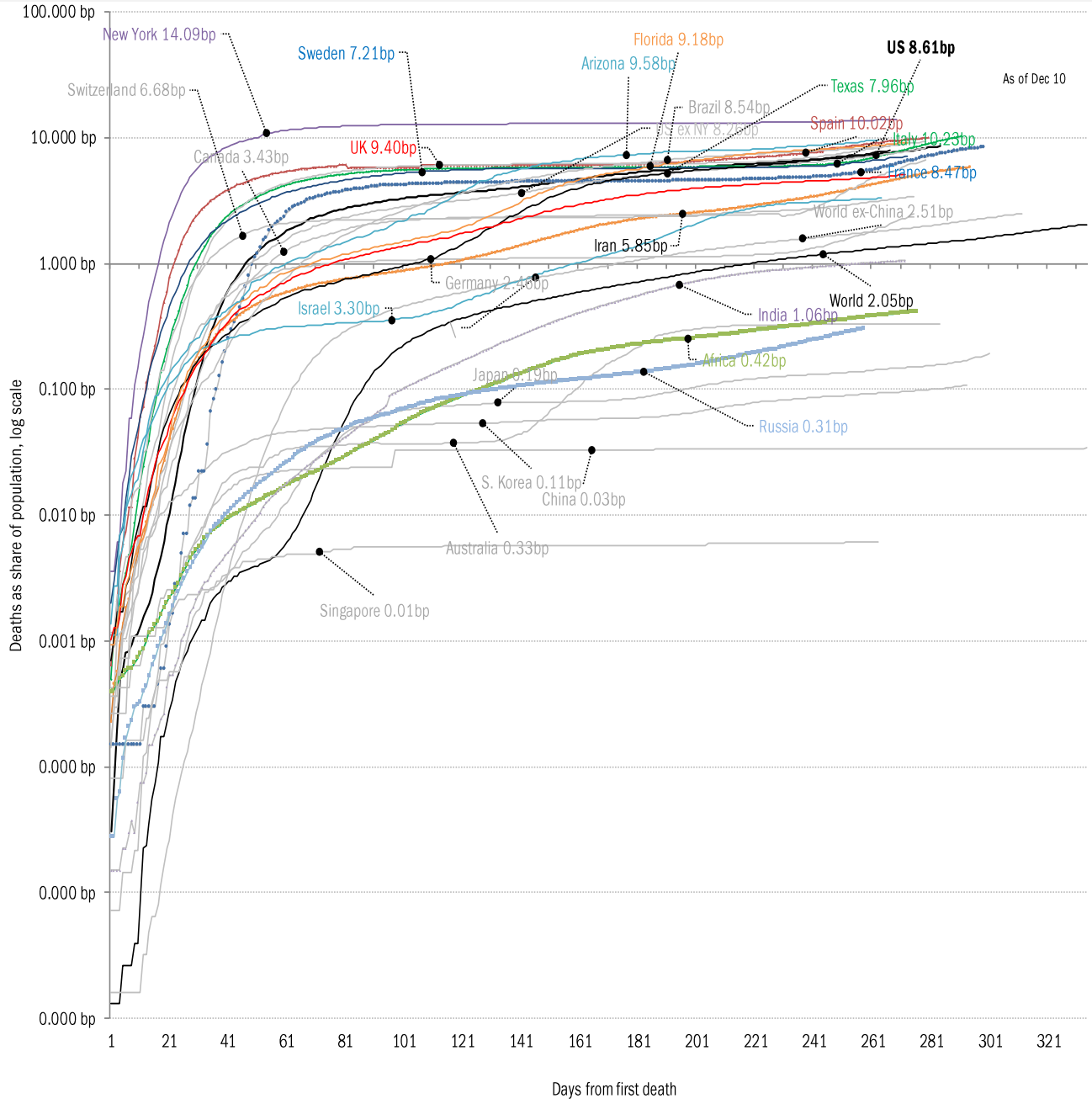
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

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

Share of deceased population from day of first fatality

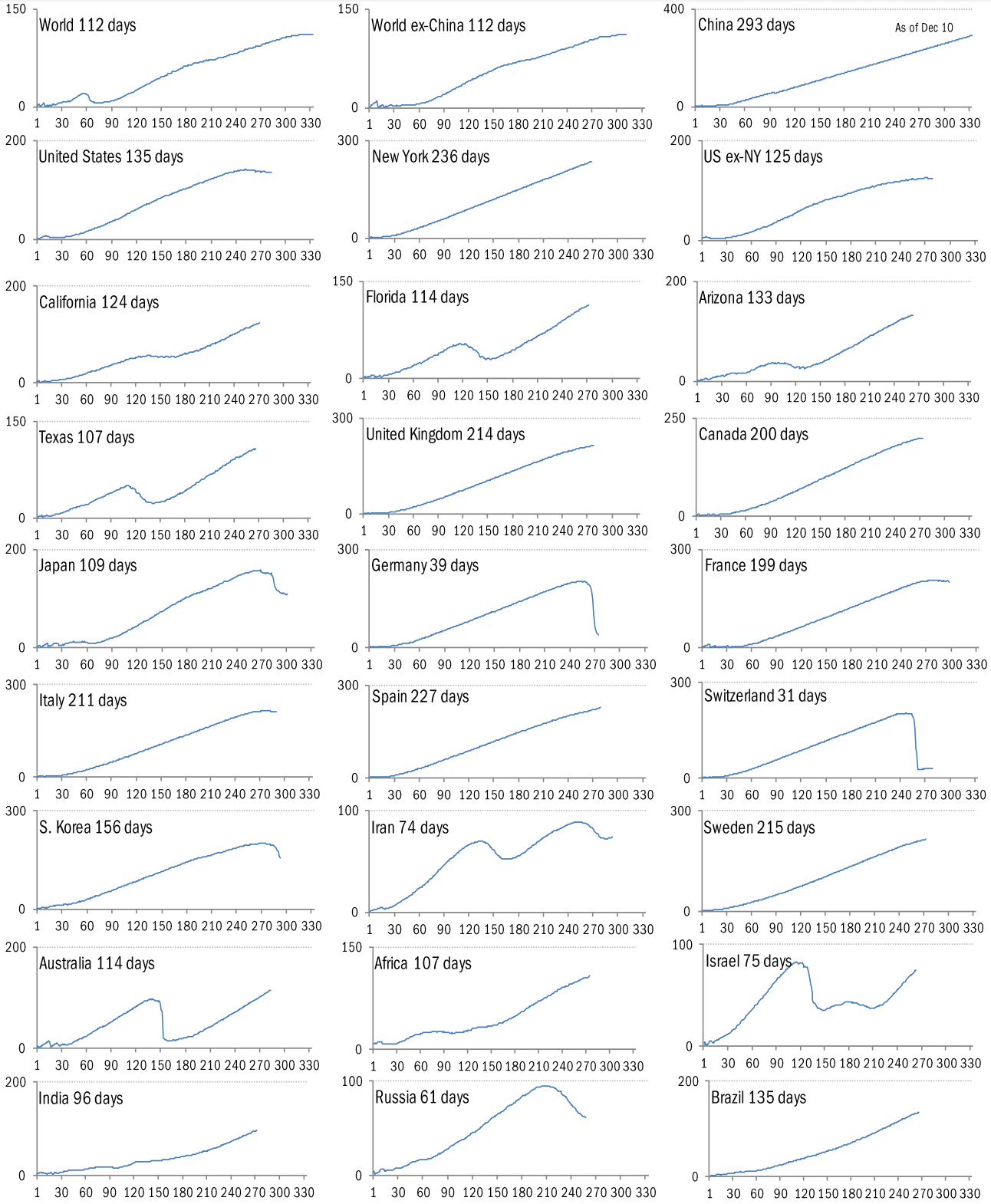


Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

Vertical: days to double deaths Horizontal: days from first death

Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread



Source: Johns Hopkins, Covid Tracking Project, 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 • High • Low

Downward trajectory Five best Upward trajectory Five worst

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* • High • Low

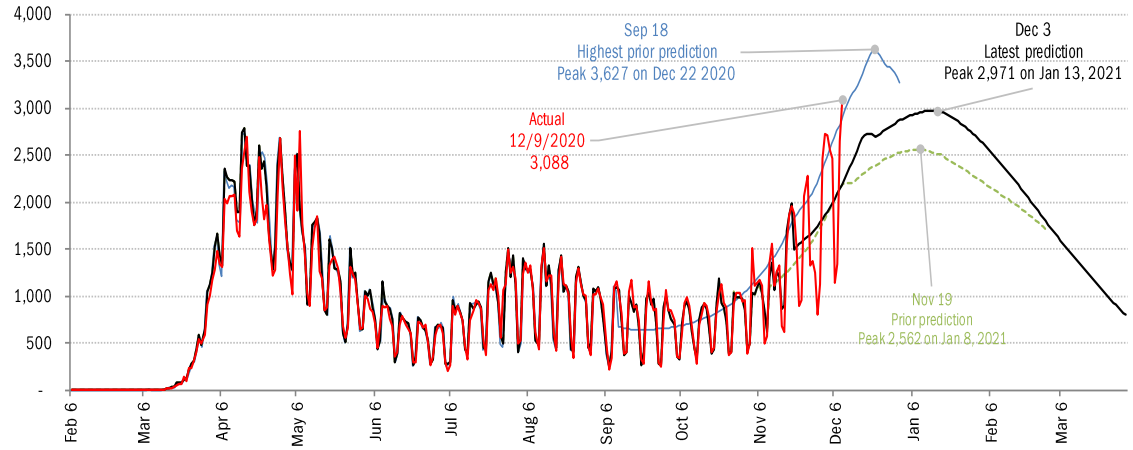
Downward trajectory Five best Upward trajectory Five worst

Source: Covid Tracking Project, TrendMacro calculations

Reality-checking the models: actuals versus IHME predictions

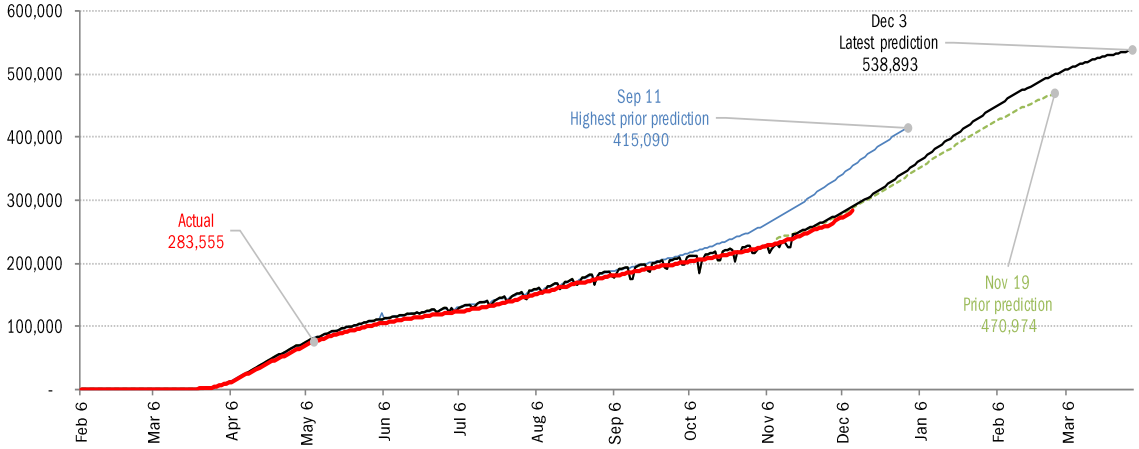
New daily fatalities As of Dec 10

Actual versus first, highest, lowest and latest model mean predictions

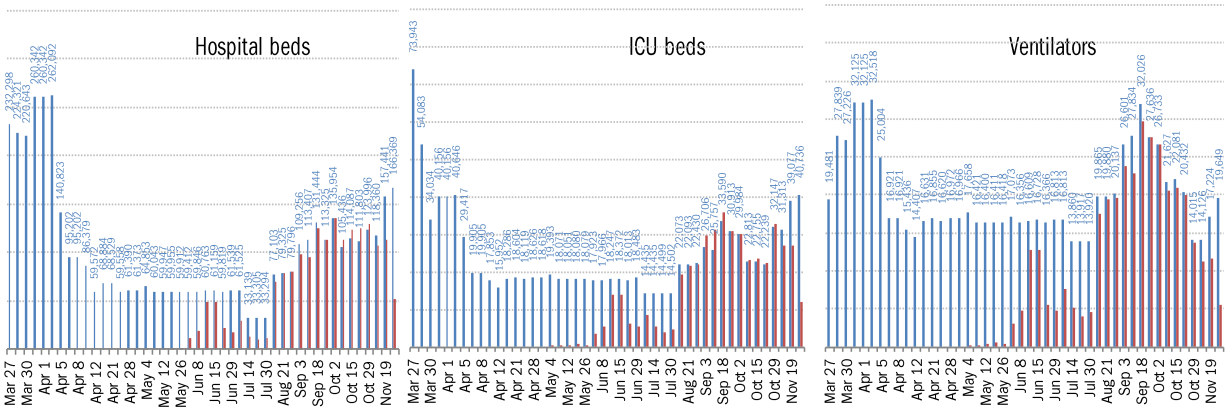


Cumulative fatalities

Actual versus first, highest, lowest and latest model mean predictions

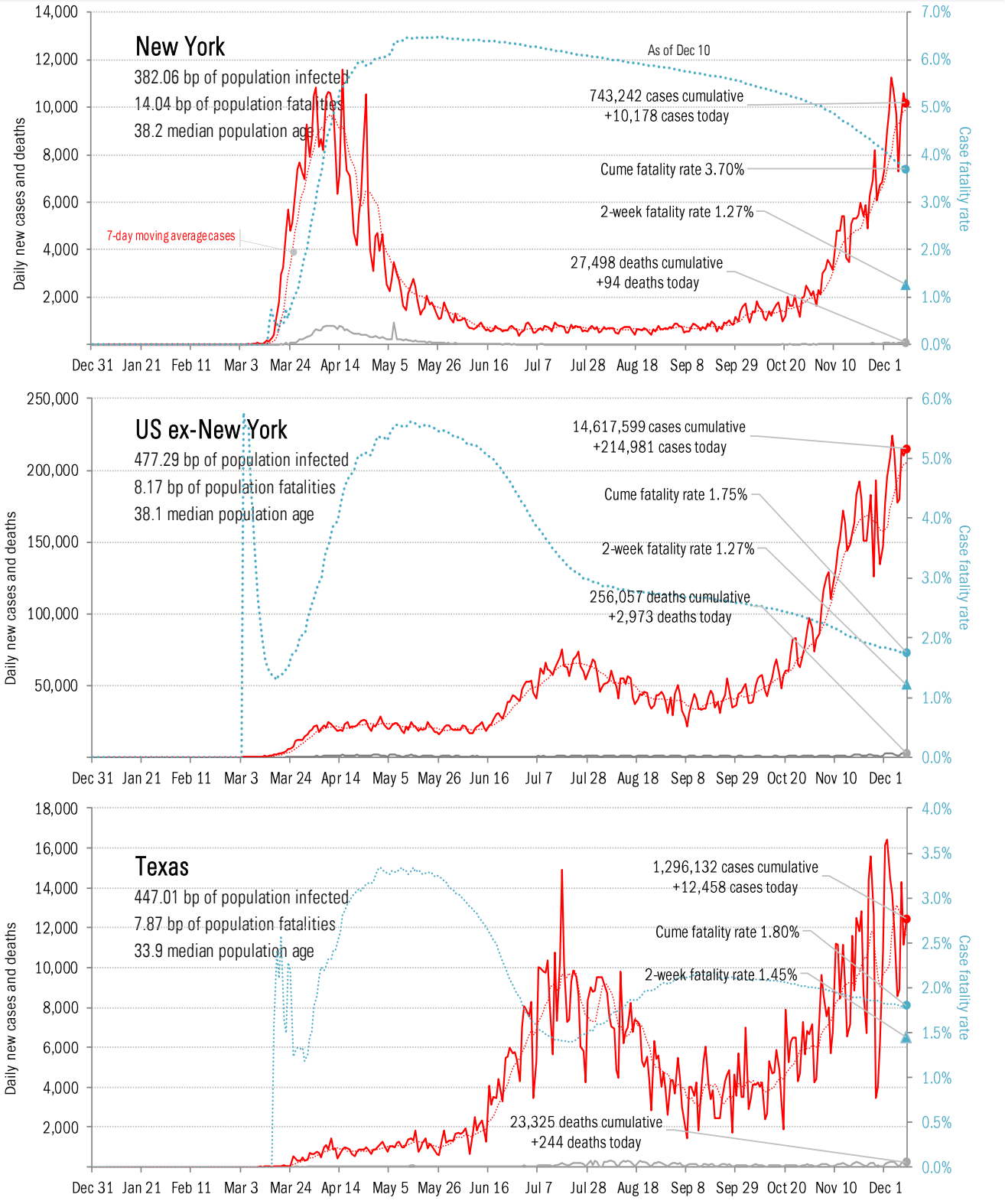


Healthcare system stress, peak and ultimate estimated at each model revision



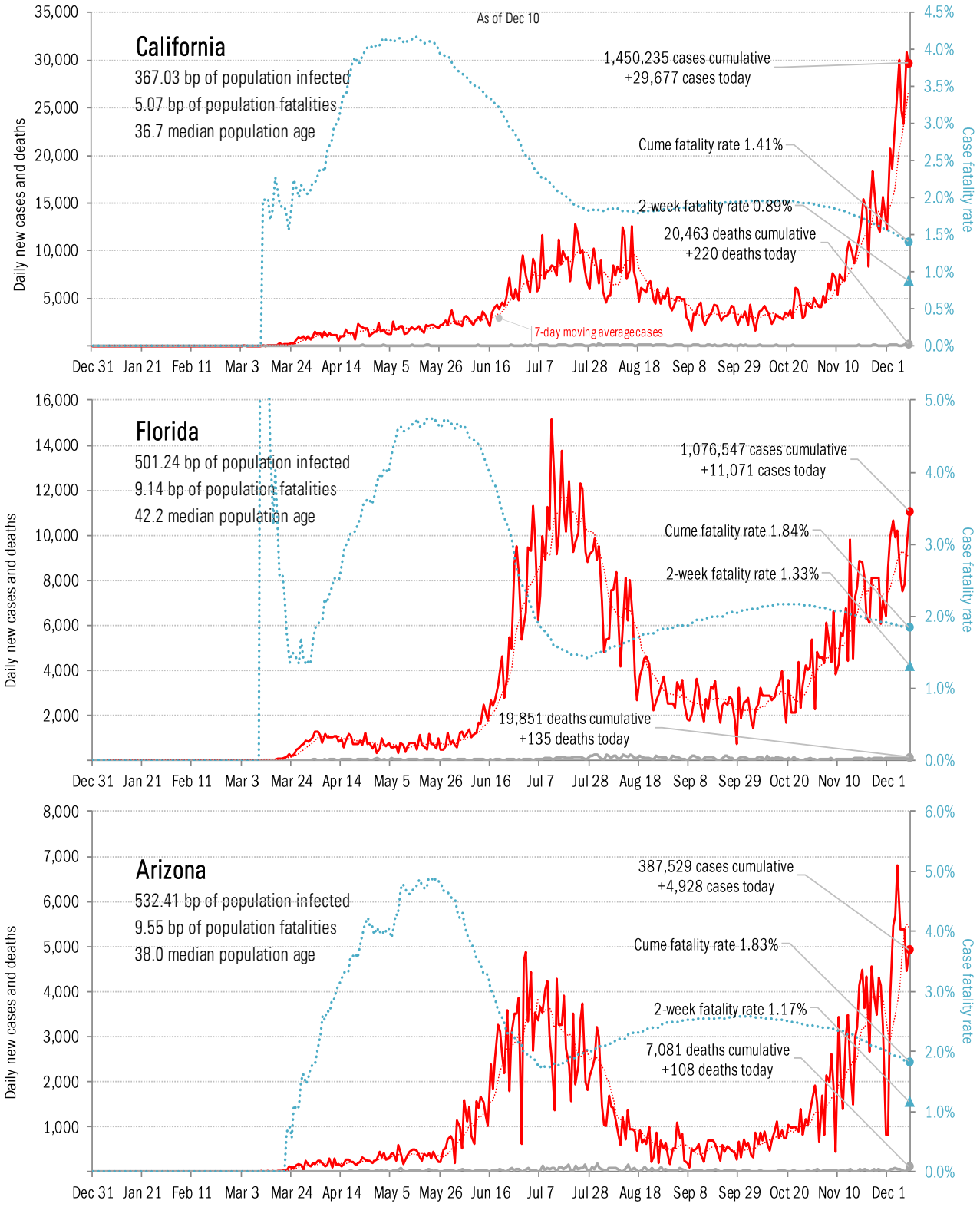
Source: IHME, Covid Tracking Project, TrendMacro calculations

From Ground Zero to the Rio Grande



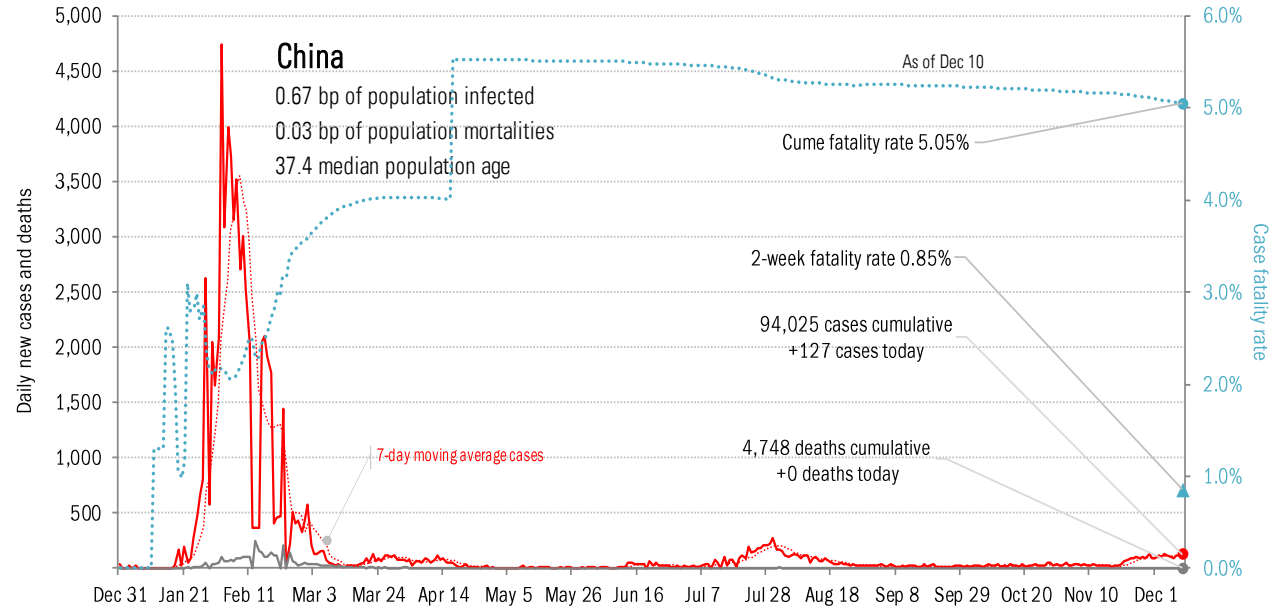
Source: Covid Tracking Project,, TrendMacro calculations

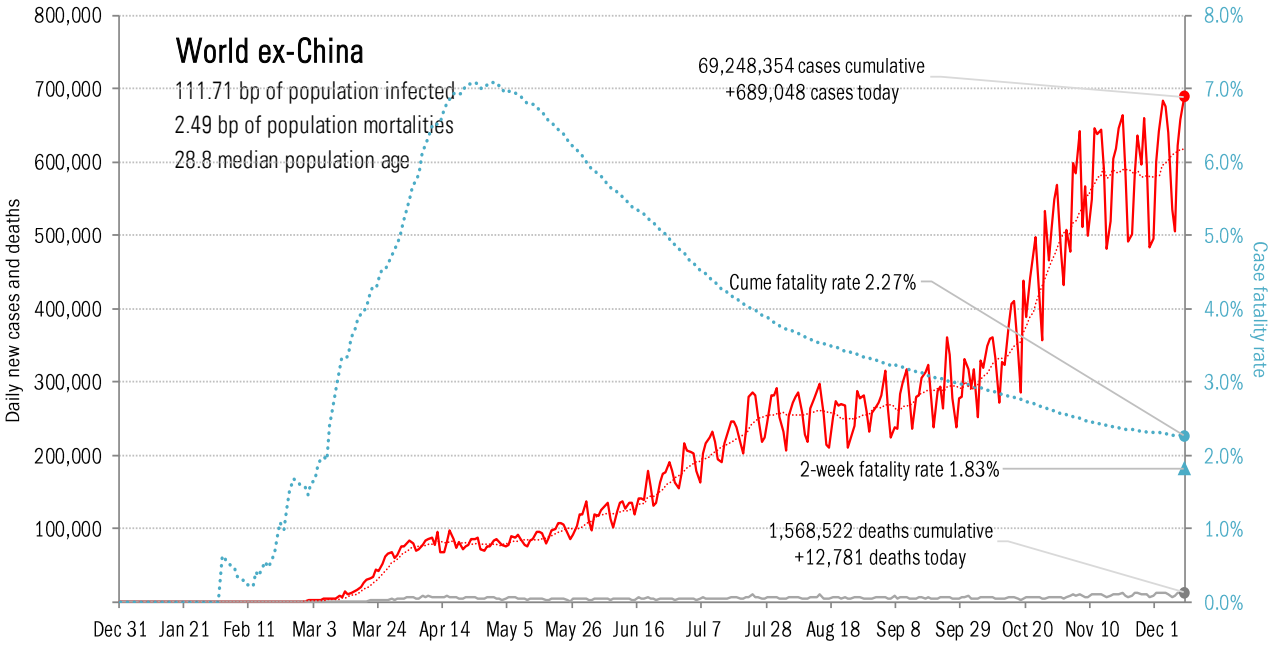
The sun-belt hot-spot states (other than Texas)



Source: Covid Tracking Project,, TrendMacro calculations

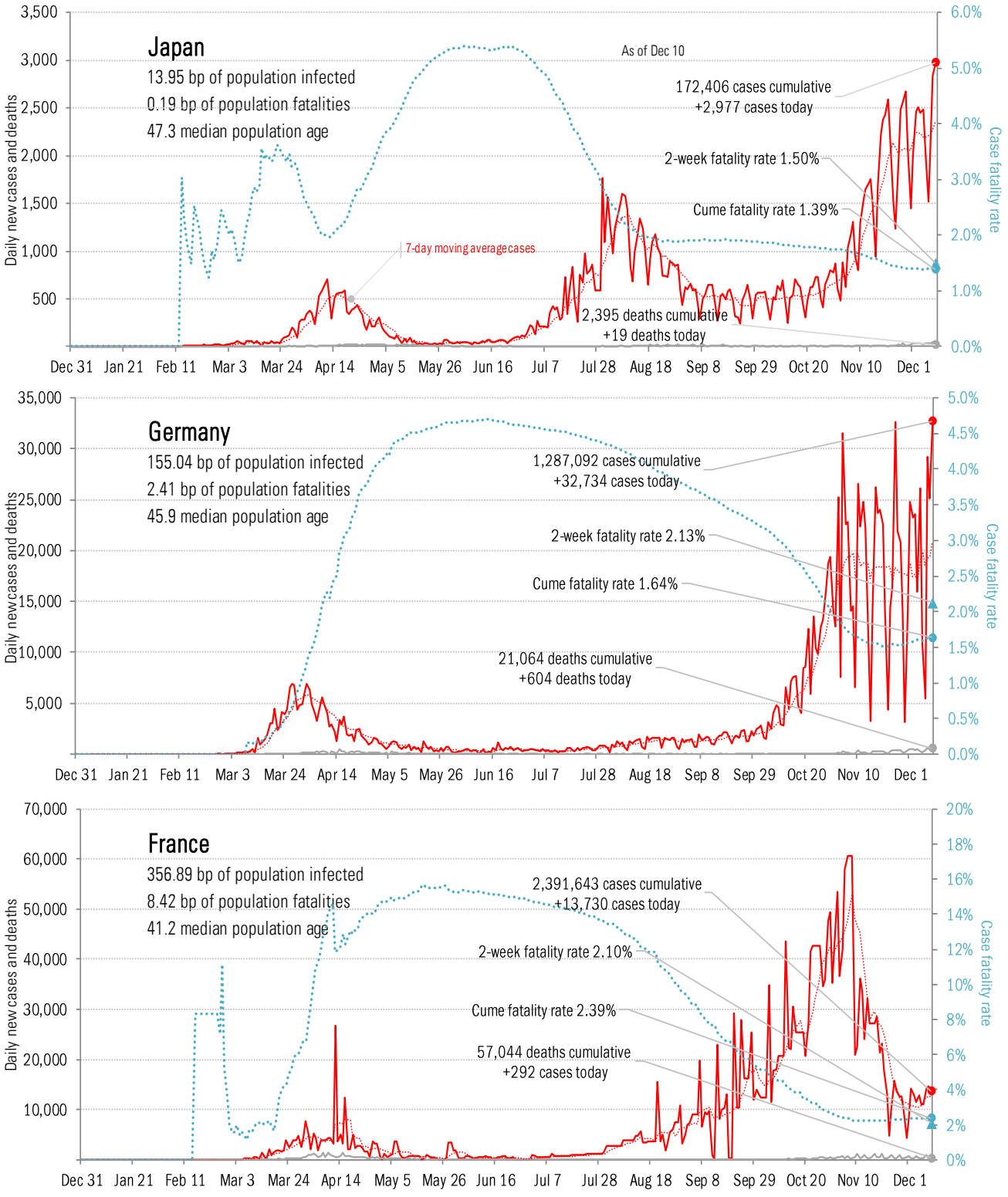
Patient zero… and then everyone else





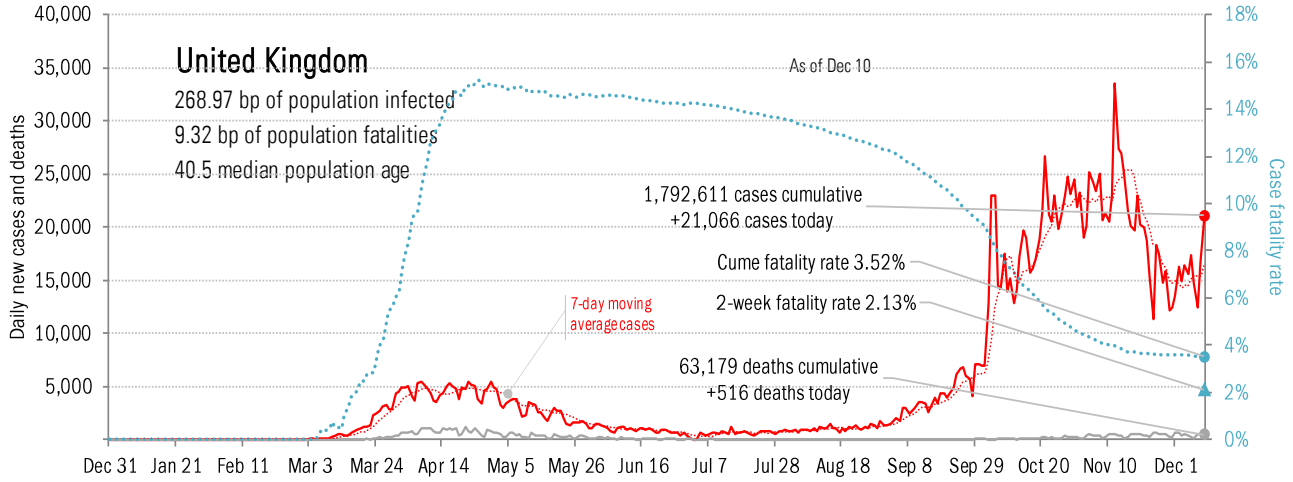
Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

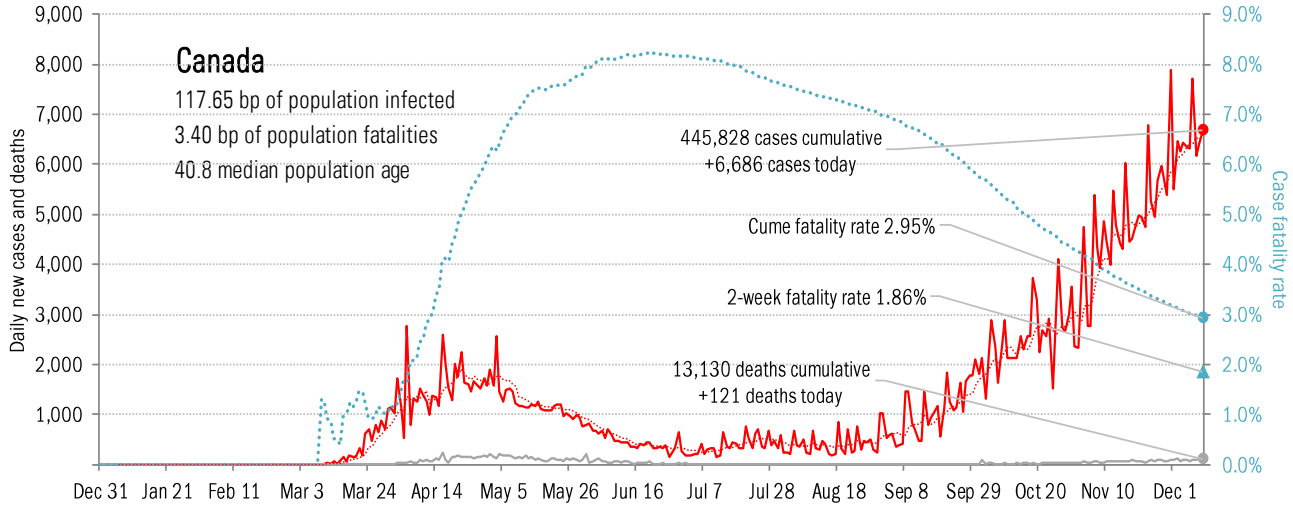
Impact in the largest economies

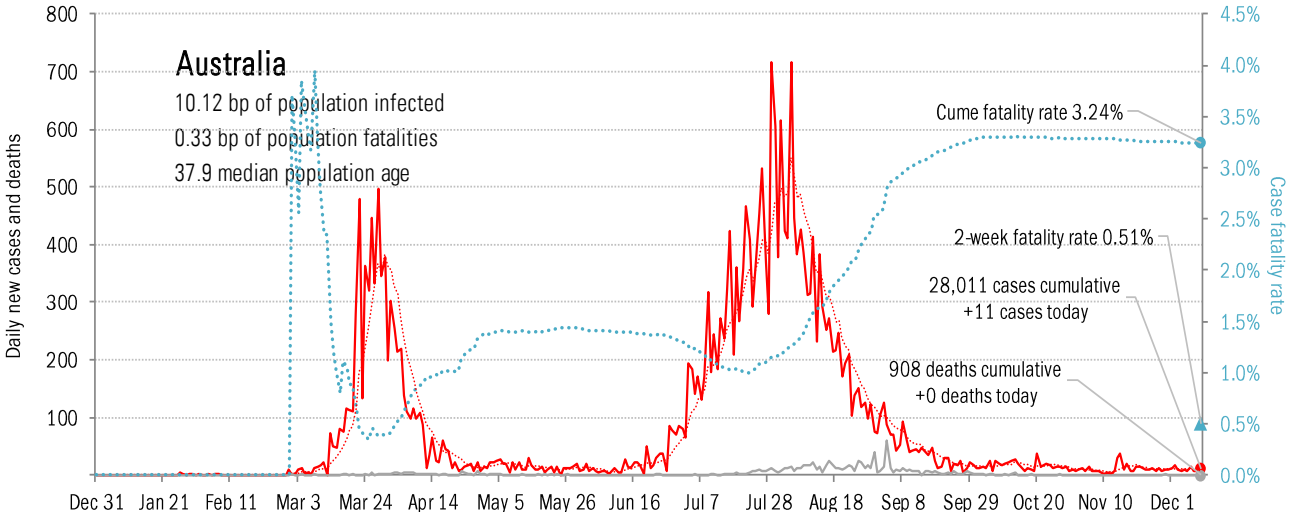


Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

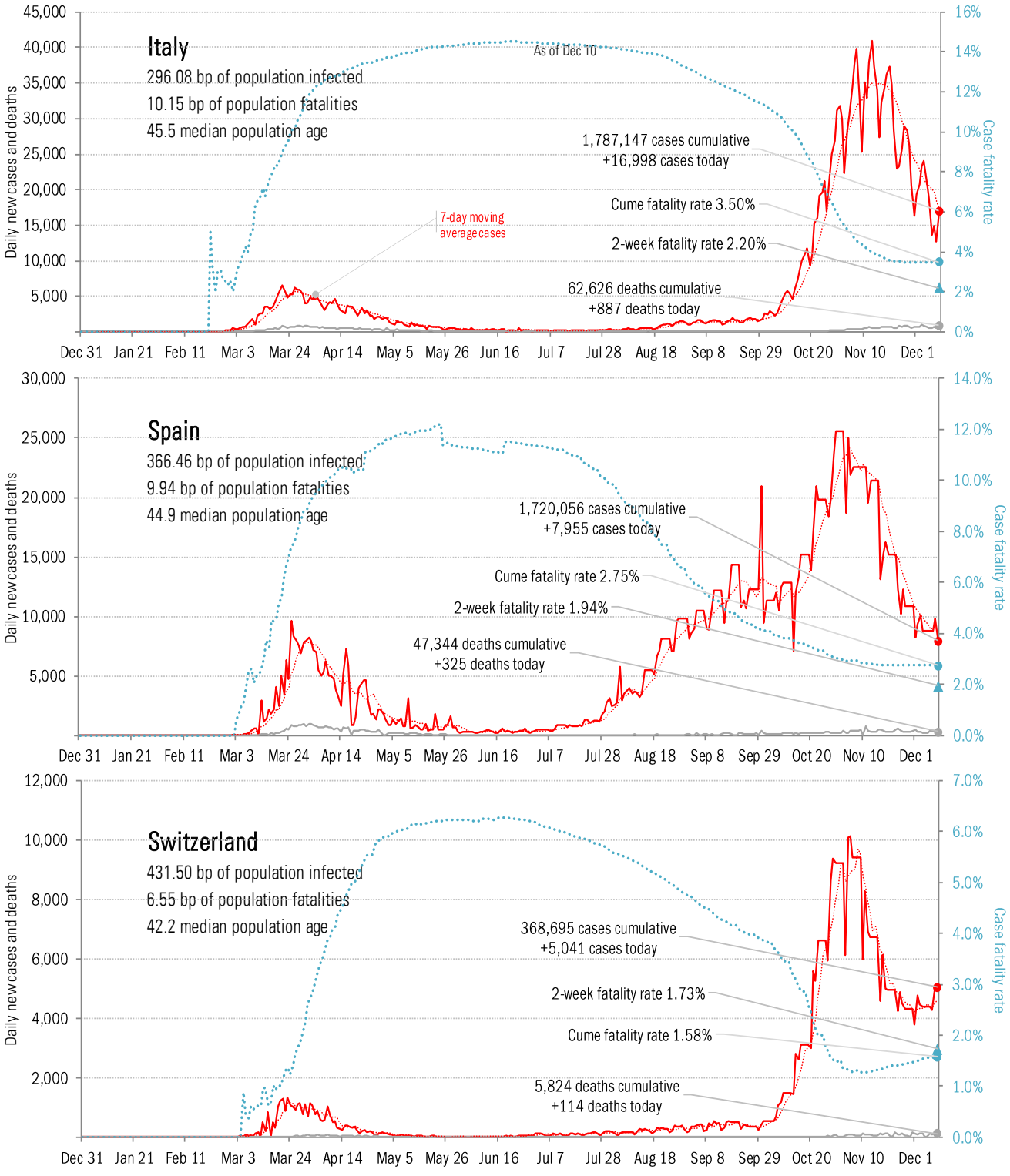






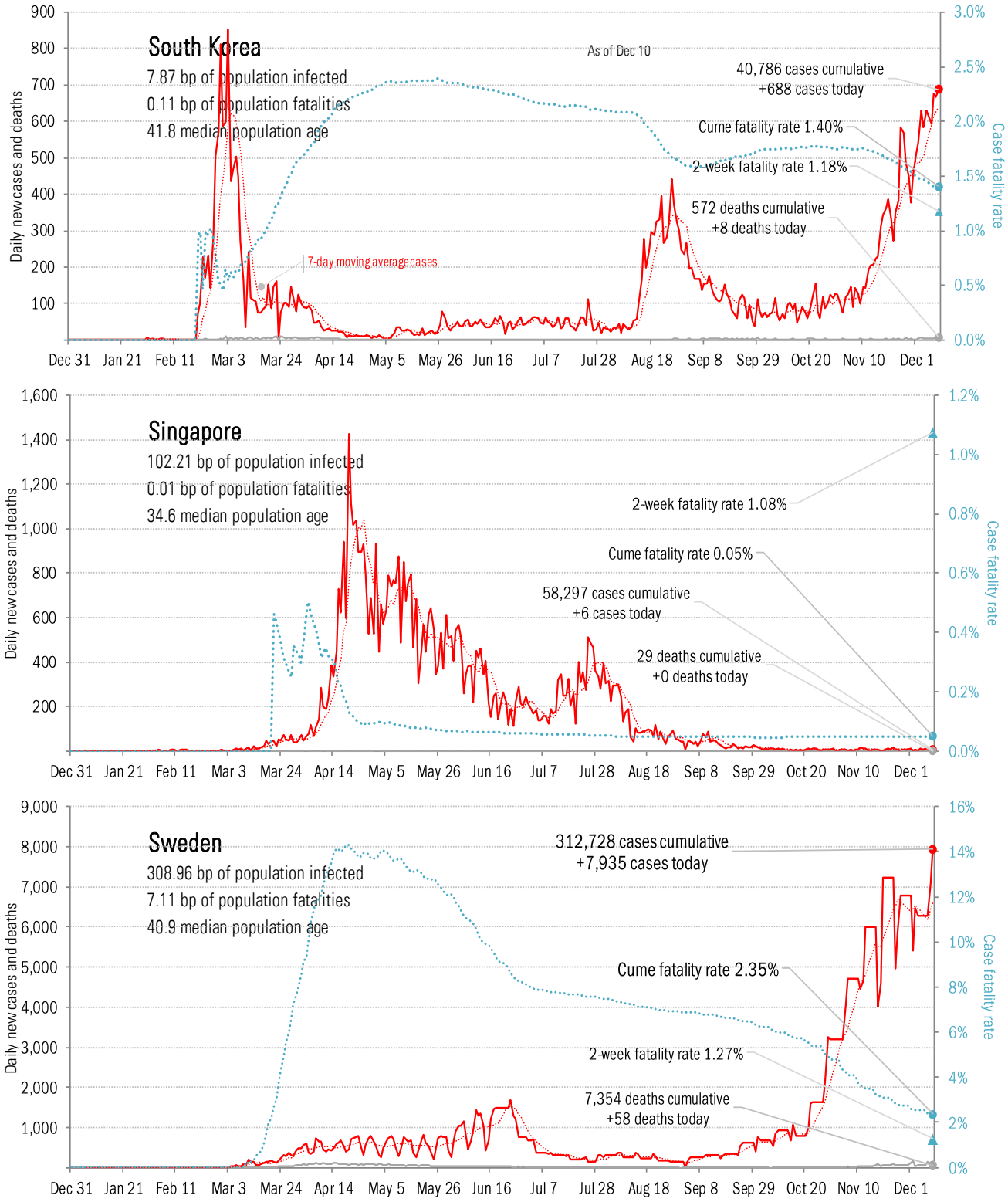
Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe



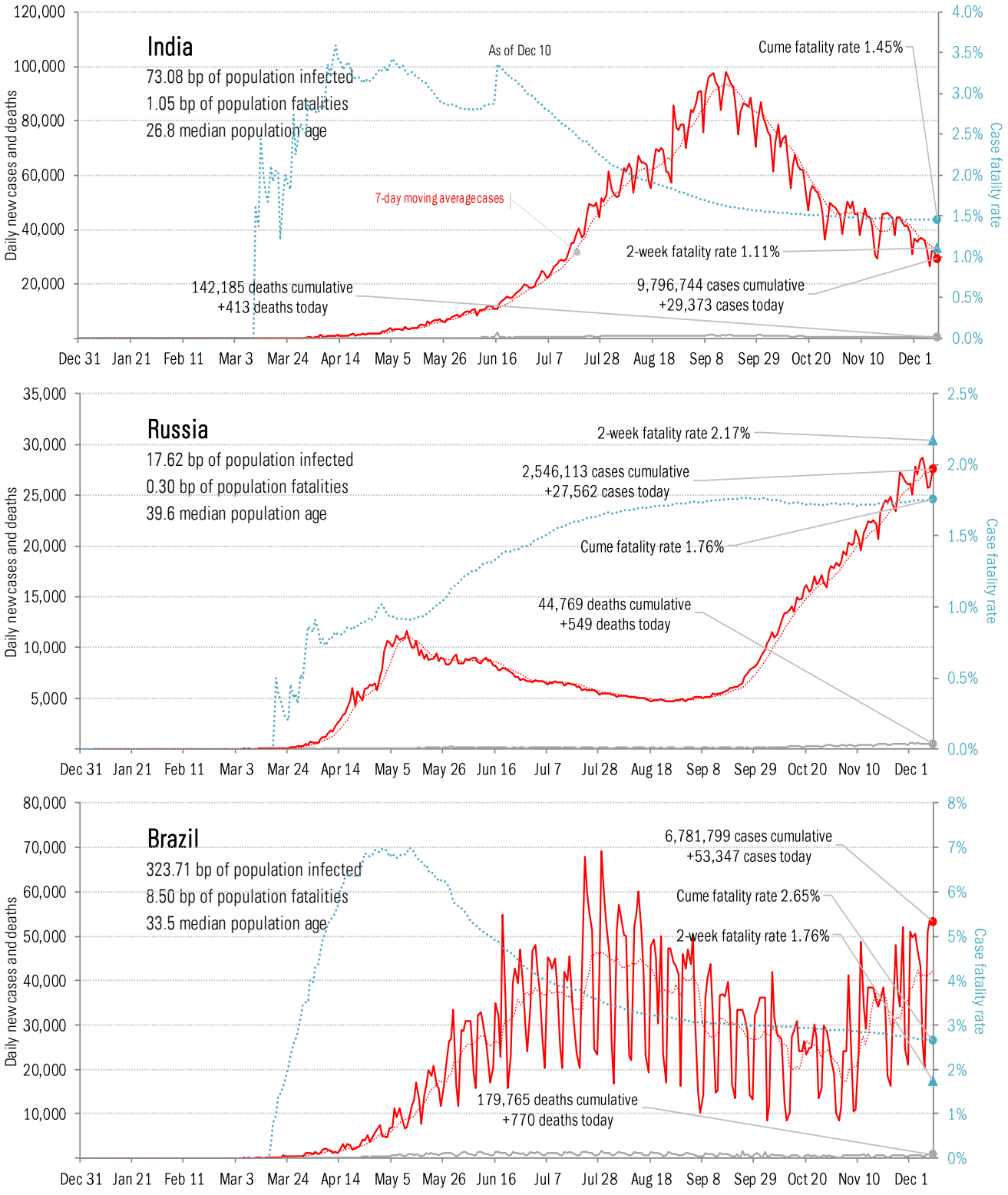
Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots



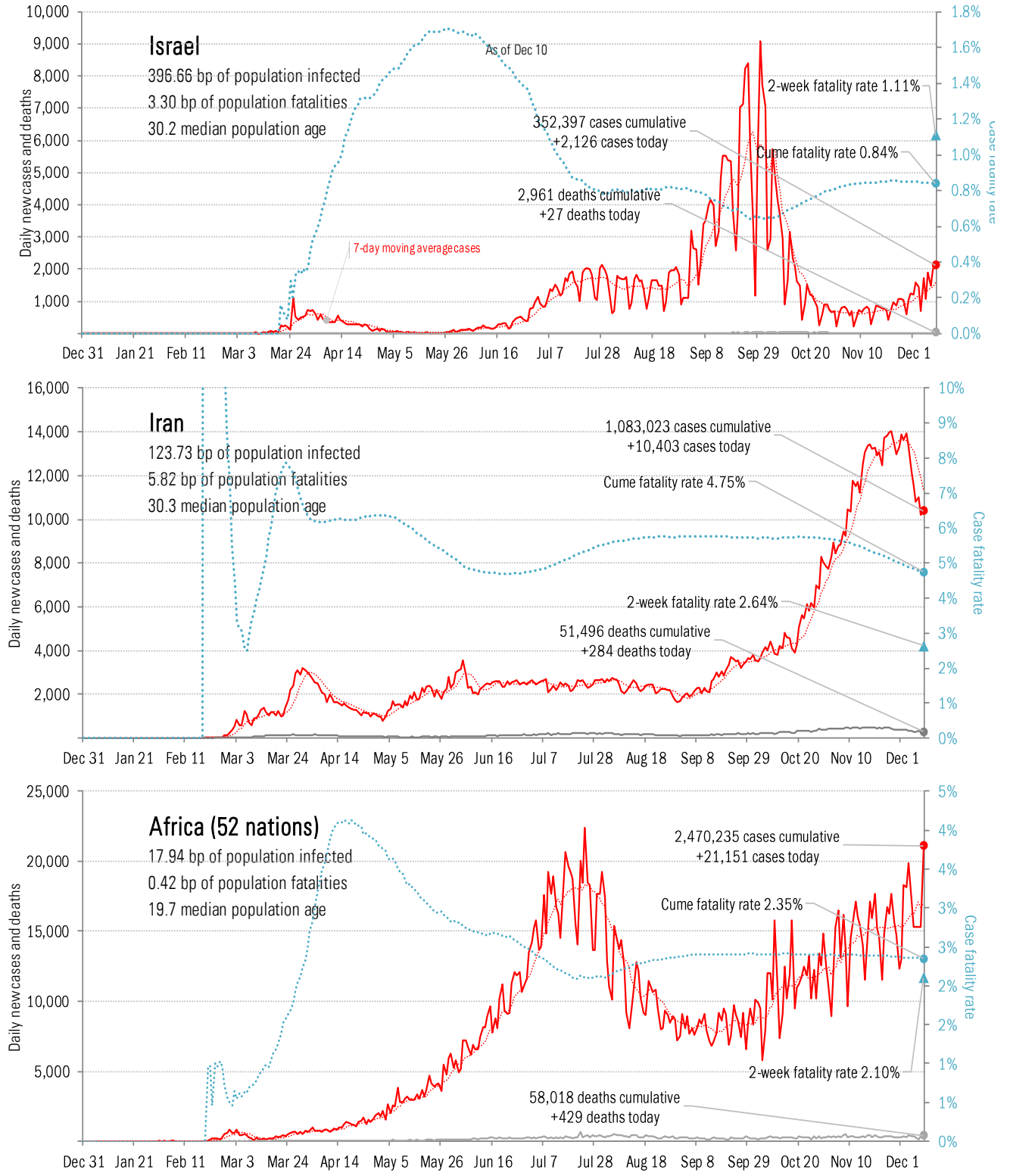
Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa



Source: Johns Hopkins, TrendMacro calculations