

## Data Insights: Covid-2019 Monitor

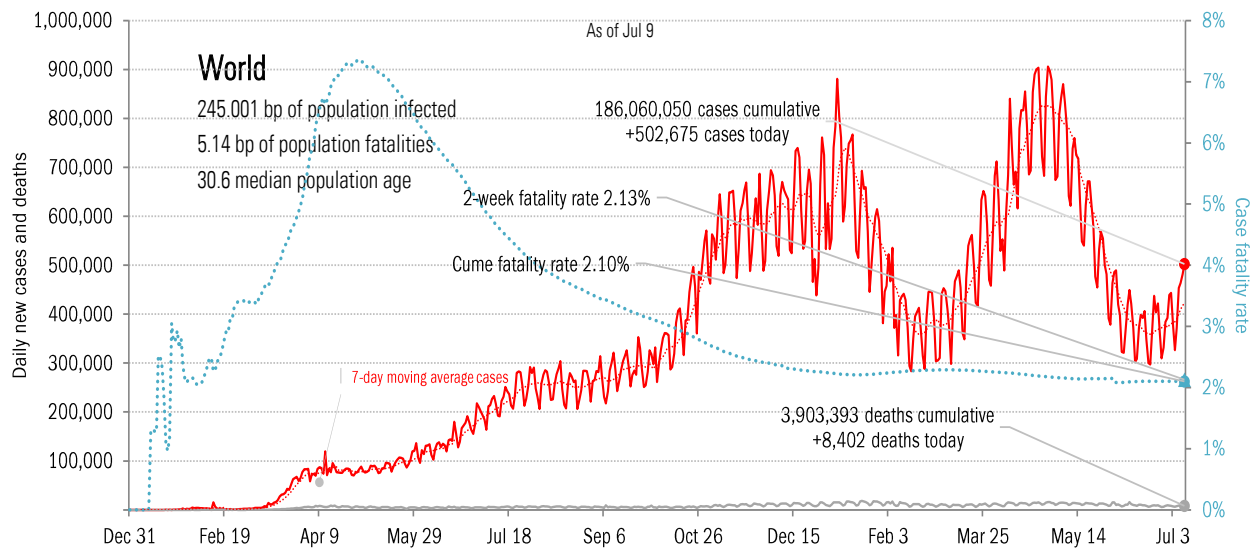
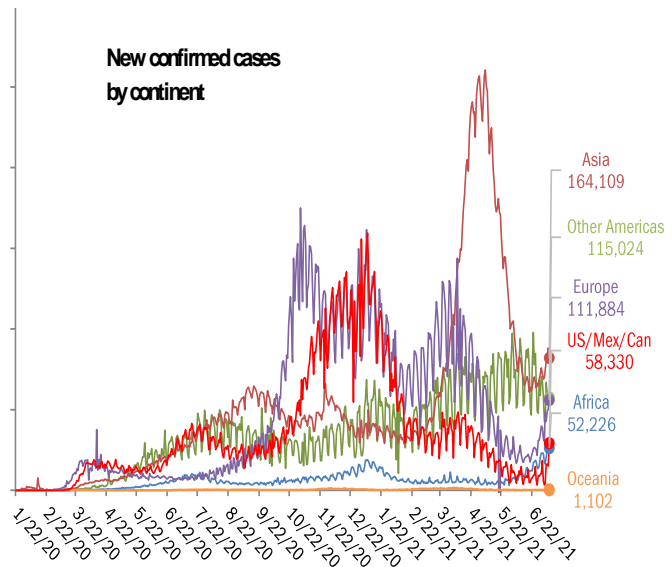
Saturday, July 10, 2021

### The global scorecard

#### The worst ten countries

New cases		New Deaths	
Brazil	+57,737	Brazil	+1,509
United States	+48,241	India	+1,206
India	+42,766	Indonesia	+871
Indonesia	+38,124	Russia	+715
United Kingdom	+35,885	Colombia	+576
Russia	+25,299	United States	+518
South Africa	+22,441	South Africa	+374
Spain	+21,879	Argentina	+244
Colombia	+21,536	Mexico	+217
Iran	+16,596	Bangladesh	+212
<b>+330,504</b>		<b>+6,442</b>	
World	+502,675	World	+8,402
Top ten	66%	Top ten	77%

#### New confirmed cases by continent



Source: [Johns Hopkins](#), TrendMacro calculations

#### For more information contact us:

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# The US scorecard

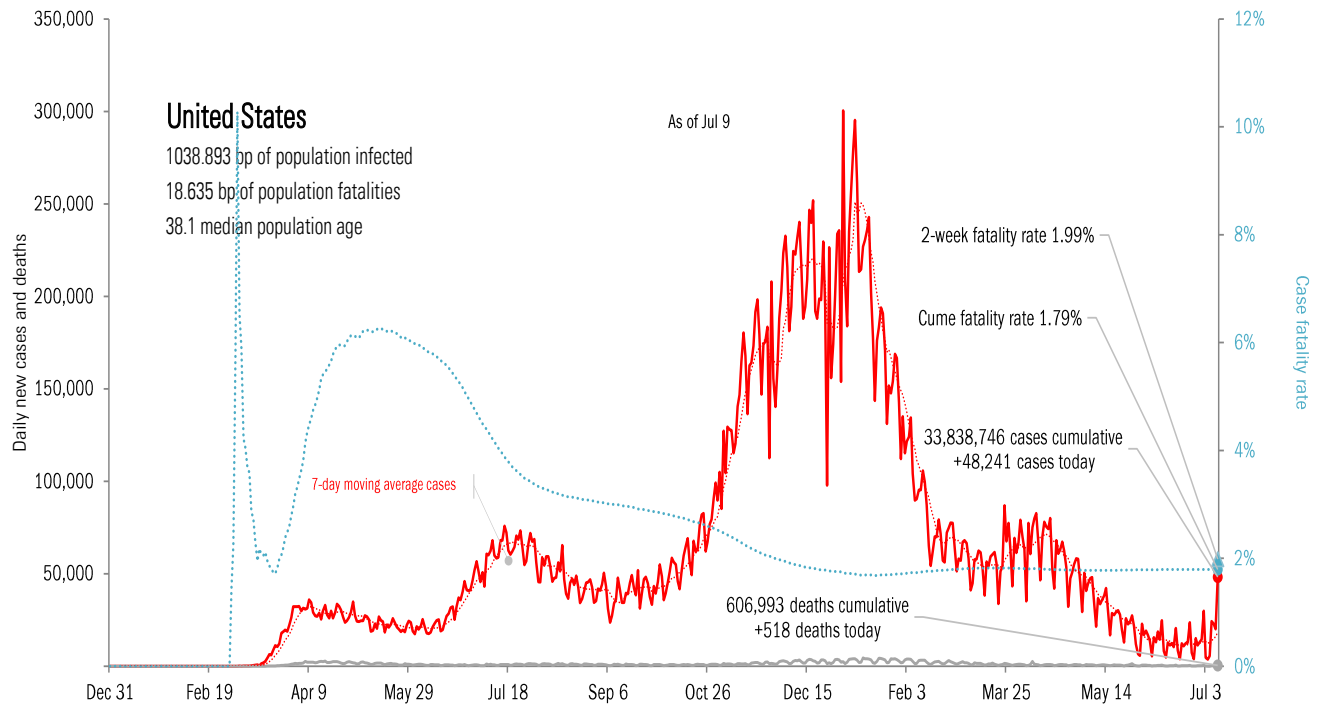
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
FL	+3,392		CA	+60		TX	+57		CA	3,832,060		CA	63,875		TX	255,227		RI	92%	MO	18%
TX	+2,304		TX	+39		FL	+53		TX	3,015,520		NY	53,726		CA	241,196		MA	84%	AR	15%
MO	+2,142		MI	+28		NV	+41		FL	2,390,054		TX	52,606		FL	188,774		AL	84%	UT	14%
CA	+2,118		WI	+24		CA	+28		NY	2,118,960		FL	38,060		NY	136,755		MO	82%	NV	11%
AL	+1,160		GA	+16		NY	+21		IL	1,395,497		PA	27,736		GA	109,737		MD	82%	WA	9%
AR	+1,155		CH	+14		AZ	+16		PA	1,218,291		NJ	26,496		PA	91,888		PA	82%	TX	9%
CO	+1,052		NV	+13		GA	+9		GA	1,139,396		IL	25,730		CH	88,127		WV	79%	CO	8%
LA	+969		AL	+11		WA	+9		CH	1,113,737		GA	21,486		IL	82,815		CT	79%	AK	8%
AZ	+921		WA	+11		MO	+8		NJ	1,025,477		MI	21,059		KY	78,415		MI	78%	FL	7%
GA	+904		CO	+10		NE	+8		NC	1,017,435		CH	20,380		MI	73,305		MN	78%	NM	7%
+16,117			+226			+250			18,266,427			351,154			1,346,239						
All states	+27,886		+355			+145			All states	33,838,746		606,993			2,398,355			All states	70%	67%	
Top ten	58%		64%			172%			Top ten	54%		58%			56%			Median	72%	4%	

Some states not reporting

## Five most improved US states

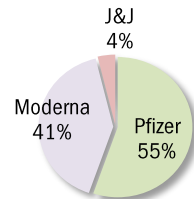
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
FL	-2,121	FL	-58	LA	-53	MP	+30 bp
CA	-1,316	IN	-12	OK	-25	FR	+30 bp
PA	-196	CA	-8	NJ	-20	MI	+20 bp
WA	-129	AR	-7	KY	-19	NM	+20 bp
IN	-118	NC	-7	CA	-17	AL	+10 bp



Source: [Johns Hopkins](#), [Dept. of Health and Human Services](#), [CDC](#), TrendMacro calculations

# Rolling out the vaccines in the US and the world

US overall	Total				Today	Immunity	Full	Partial
Doses distributed	398,665,715				+0.564 million	US	47.4%	54.9%
Doses administered	342,762,545				+0.633 million	UK	50.6%	67.3%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	36.1%	52.3%
Total population	188,264,142	56%	162,843,770	49%	+0.348 million	Spain	44.9%	58.9%
Age 12 to 17	9,285,728	37%	7,181,607	28%	+0.068 million	Germany	41.8%	57.8%
Age 18 to 64	128,673,748	63%	110,865,707	54%	+0.236 million	Italy	36.8%	57.8%
Age 65 and over	50,081,194	92%	44,668,056	82%	+0.045 million	Australia	8.6%	26.2%
						Israel	60.0%	66.1%
						Canada	41.6%	69.3%
						Japan	16.8%	28.5%
						Africa	1.3%	2.9%
						India	5.1%	21.6%
						Brazil	14.1%	40.1%



State
Immunities distributed as % population**
At least partial immunity as % population
Full immunity as % population



At today's dosing pace, every American >18 immune in **216 days** by Feb 11, 2022

60.2% of population >18 immunized  
11.5% previously tested positive  
**71.8%** vs 60% adult herd immunity\*

Global data differs from sources, timing

AK
61.4%
50.2%
44.3%

ME
73.3%
67.0%
62.3%

WI	VT	NH								
55.9%	78.8%	72.4%								
54.2%	74.4%	63.3%								
50.5%	66.2%	57.1%								
WA	ID	MT	ND	MN	IL	MI	NY	MA		
65.7%	50.4%	55.7%	49.9%	61.4%	61.8%	61.8%	65.7%	74.5%		
62.2%	40.0%	48.1%	44.3%	57.5%	60.1%	51.9%	60.8%	71.0%		
55.7%	36.5%	43.4%	39.3%	52.5%	46.9%	47.7%	55.1%	62.4%		
OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI
71.1%	53.9%	47.9%	58.1%	58.5%	53.4%	56.3%	66.0%	69.2%	70.5%	74.9%
59.3%	50.7%	40.2%	51.0%	51.8%	45.7%	48.6%	63.5%	63.7%	67.7%	65.2%
54.5%	42.7%	35.6%	45.9%	48.6%	42.9%	45.4%	50.5%	56.1%	61.5%	59.7%
CA	UT	CO	NE	MO	KY	WV	VA	MD	DE	
66.1%	53.5%	64.5%	57.3%	53.0%	53.5%	56.5%	64.6%	74.5%	69.8%	
62.4%	49.4%	58.5%	52.1%	45.6%	50.0%	45.6%	59.8%	62.7%	58.8%	
50.8%	38.0%	52.6%	48.2%	39.6%	44.2%	38.7%	52.7%	57.0%	50.9%	
AZ	NM	KS	AR	TN	NC	SC	DC			
59.4%	60.4%	56.4%	50.5%	49.6%	59.2%	55.0%	79.8%			
51.1%	63.6%	49.7%	42.7%	42.8%	49.2%	44.8%	62.1%			
43.8%	55.5%	42.5%	34.8%	37.8%	42.4%	39.3%	53.2%			
OK	LA	MS	AL	GA						
54.0%	46.7%	47.9%	52.6%	55.8%						
45.4%	39.0%	37.1%	40.5%	44.0%						
38.9%	35.6%	33.3%	33.2%	37.1%						
HI	TX	FL	PR							
72.0%	58.7%	62.5%	69.3%							
70.3%	48.9%	54.6%	66.0%							
52.4%	42.0%	46.7%	57.1%							

As of Jul 10

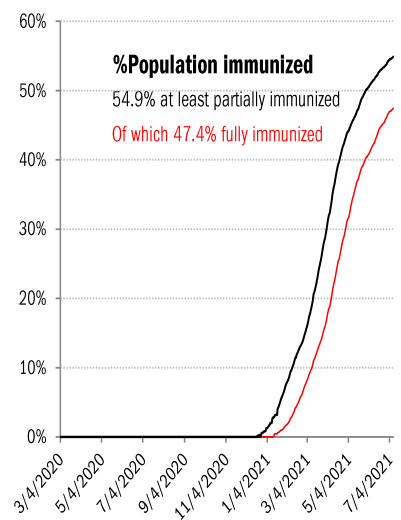
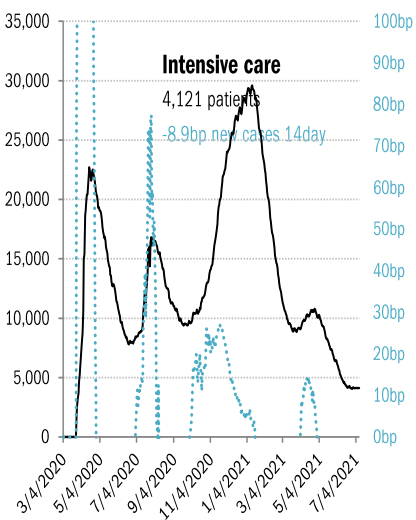
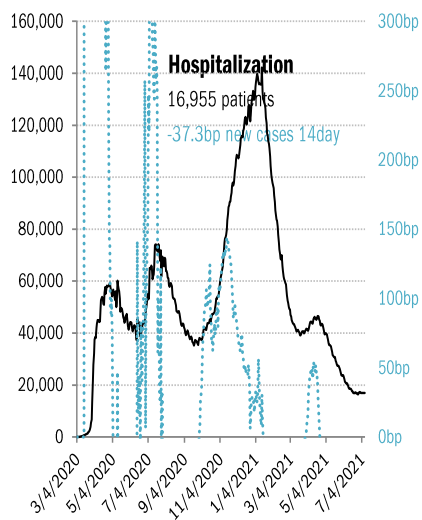
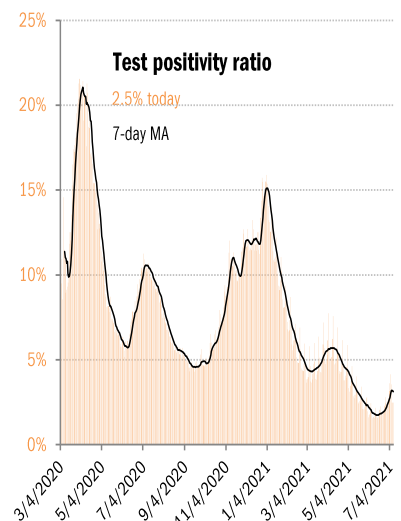
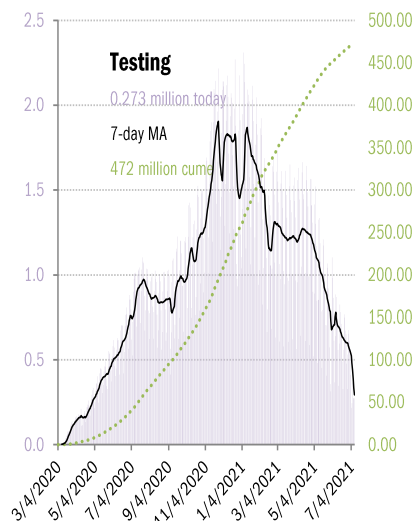
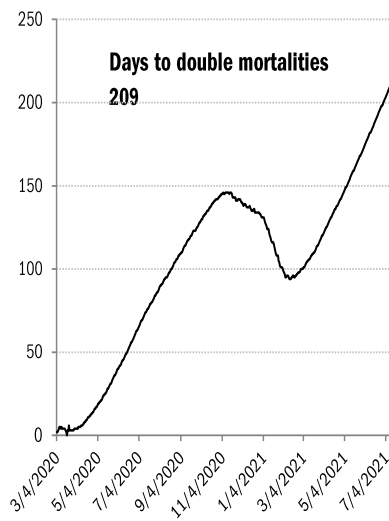
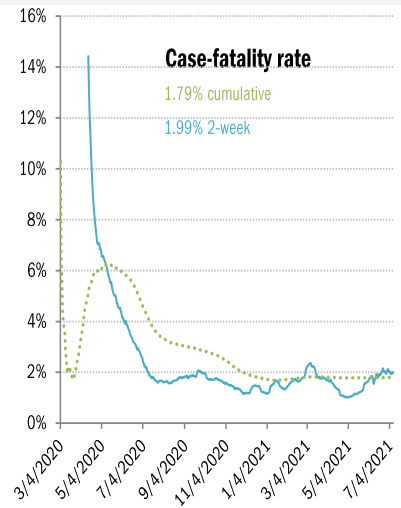
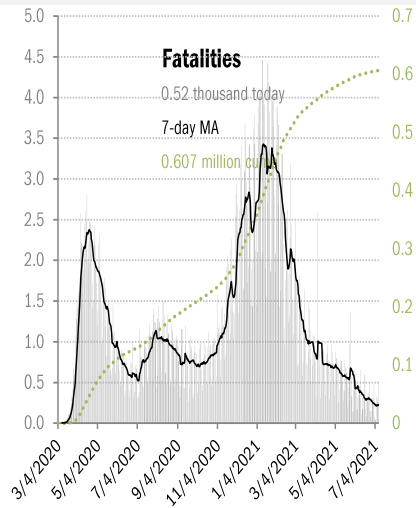
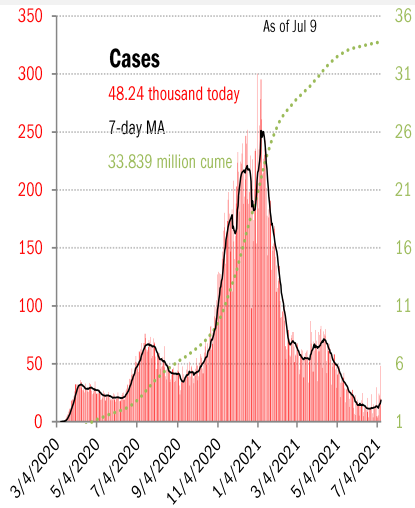
\* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

\*\* One dose of Pfizer/Moderna counts as half an immunity, one dose of J&J as a full immunity

Source: [CDC](#), [CDC](#), [Our World in Data](#), TrendMacro calculations

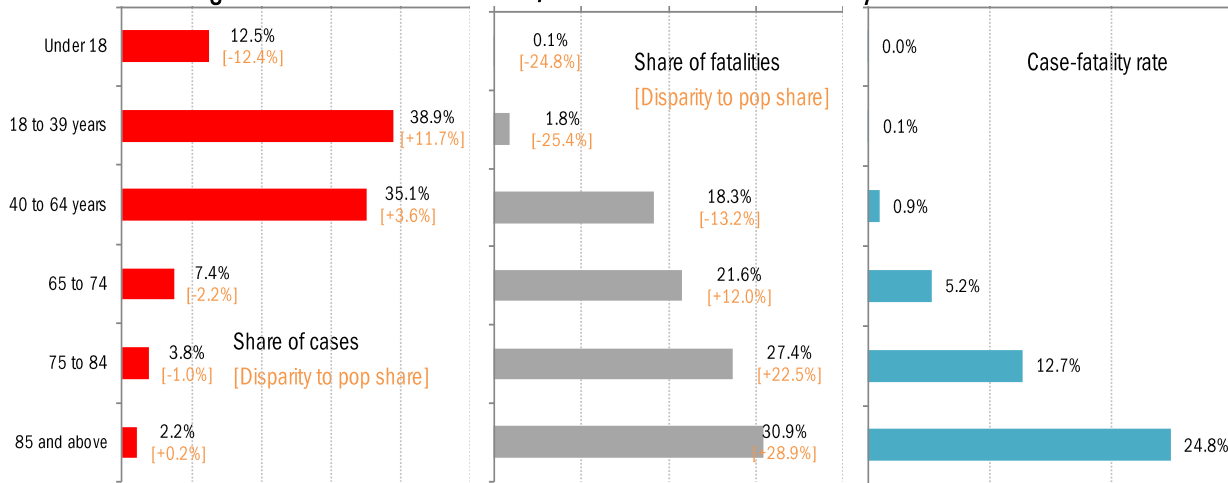
# US deep-dive

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

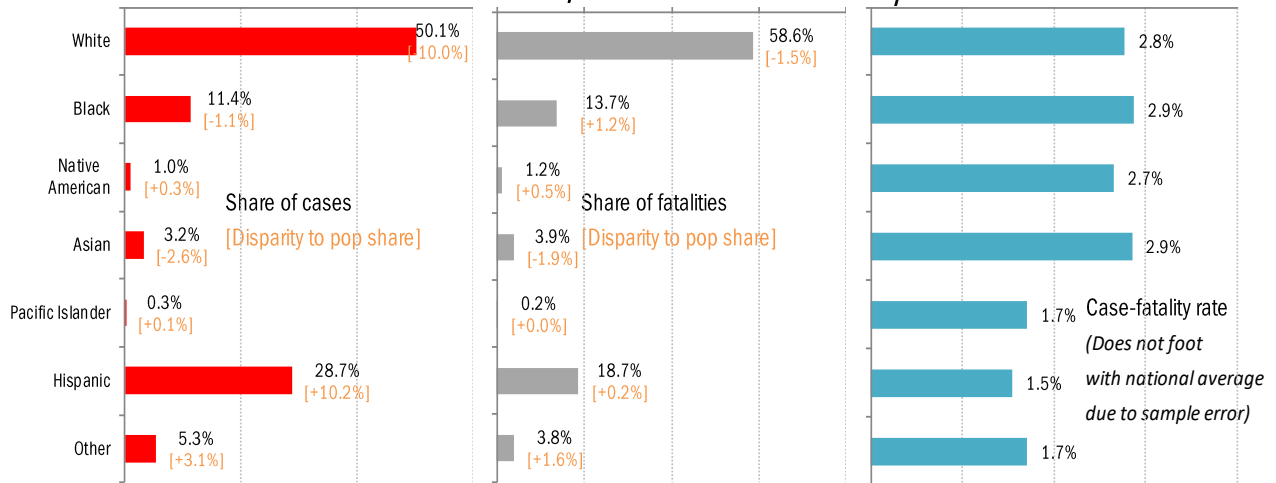


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

Age distribution of US cases, fatalities and case-fatality rates

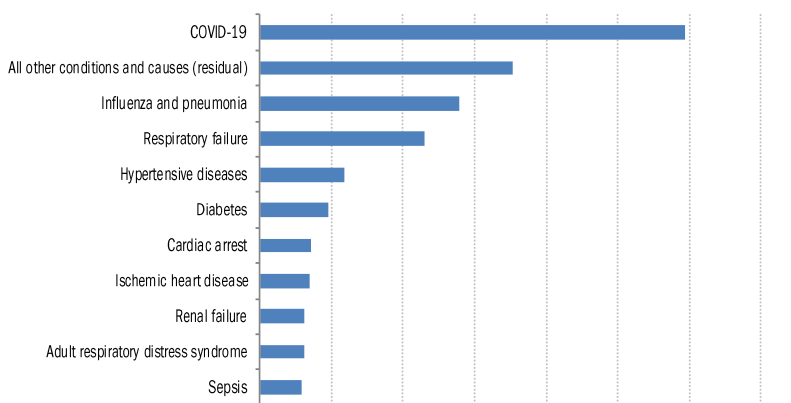


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Jun 27

For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

## Recommended reading

### [Covid's Lambda Variant: Worth Watching, but No Cause for Alarm](#)

Emily Anthes  
*New York Times*  
July 8, 2021

### [Human genetic variants identified that affect COVID susceptibility and severity](#)

Samira Asgari and Lionel A. Pousaz  
*Nature*  
July 8, 2021

### [Mapping the human genetic architecture of COVID-19](#)

*Nature*  
July 8, 2021

### [The quest to find genes that drive severe COVID](#)

Ewen Callaway  
*Nature*  
July 8, 2021

### [Covid-19's Genetic Flashpoints Identified in Giant Global Study](#)

Kristen V Brown  
*Bloomberg*  
July 8, 2021

### [Pfizer Outlines Booster Plans While Regulators Signal Caution](#)

Robert Langreth and Josh Wingrove  
*Bloomberg*  
July 8, 2021

### [California 'Epsilon' strain of COVID-19 could evade vaccines, study says](#)

Natalie O'Neill  
*New York Post*  
July 7, 2021

### [In Children, Risk of Covid-19 Death or Serious Illness Remains Extremely Low, New Studies Find](#)

Denise Roland  
*Wall Street Journal*  
July 8, 2021

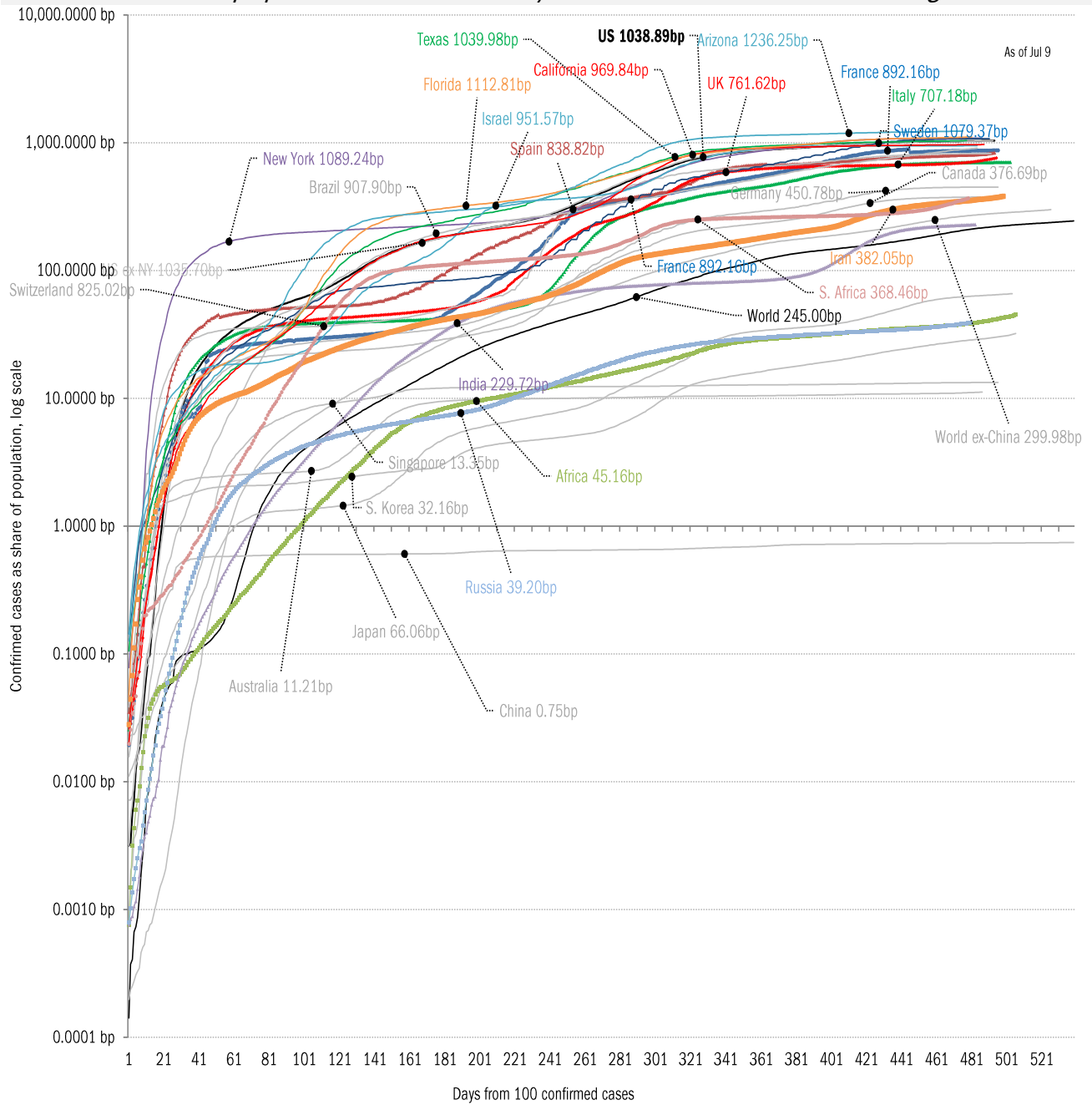
## Meme of the day



**Study: Door-To-Door Vaccine Monitor #1 Career Choice For Kids Who Got Beat Up In High School**

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

The coronavirus case accelerometer... tracking the world's infection curves  
*Share of infected population from first day with 100 confirmed cases, log scale*

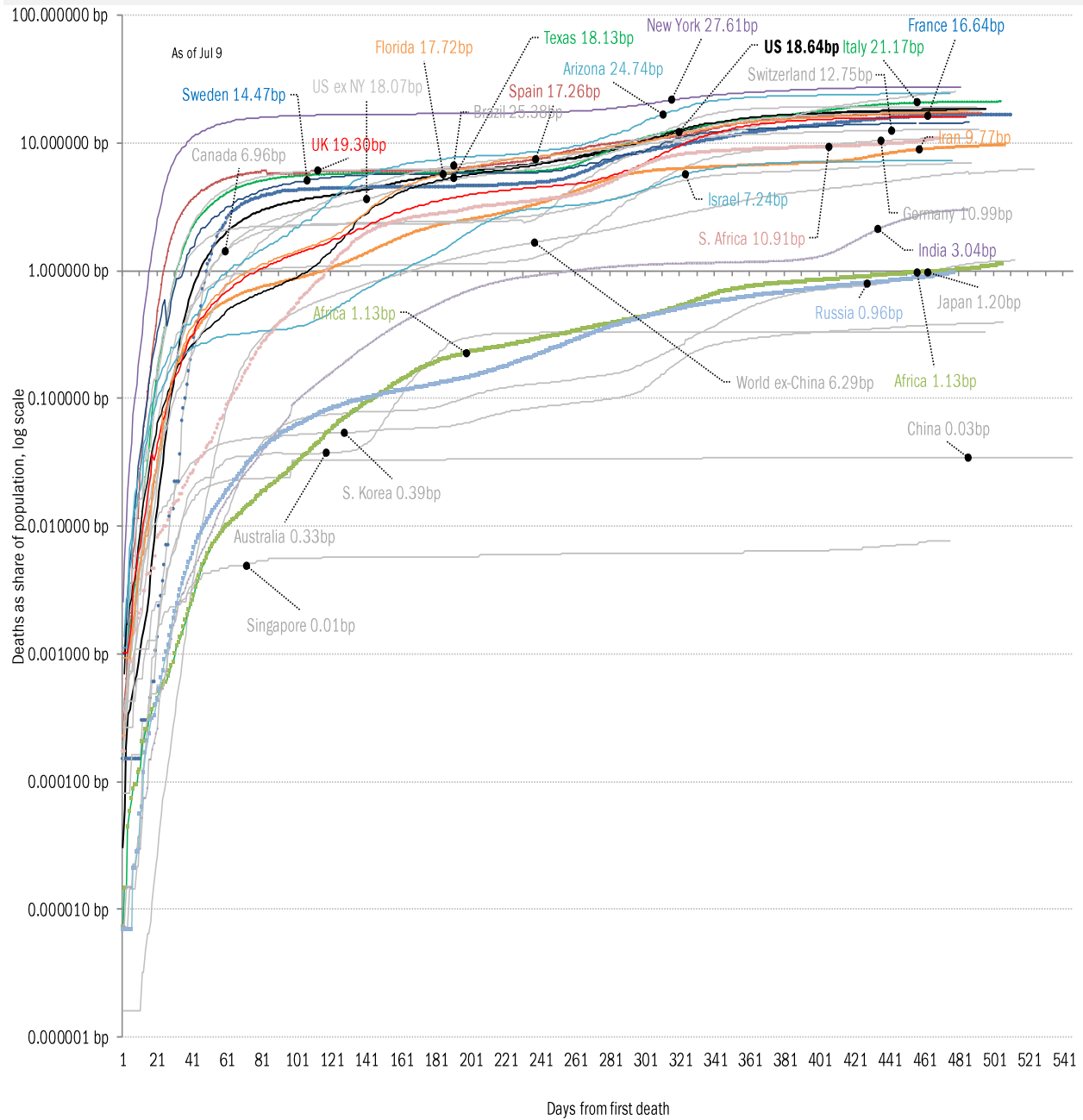


Source: [Johns Hopkins](#), TrendMacro calculations



# The coronavirus mortality accelerometer ... tracking the world's fatality curves

*Share of deceased population from day of first fatality, log scale*



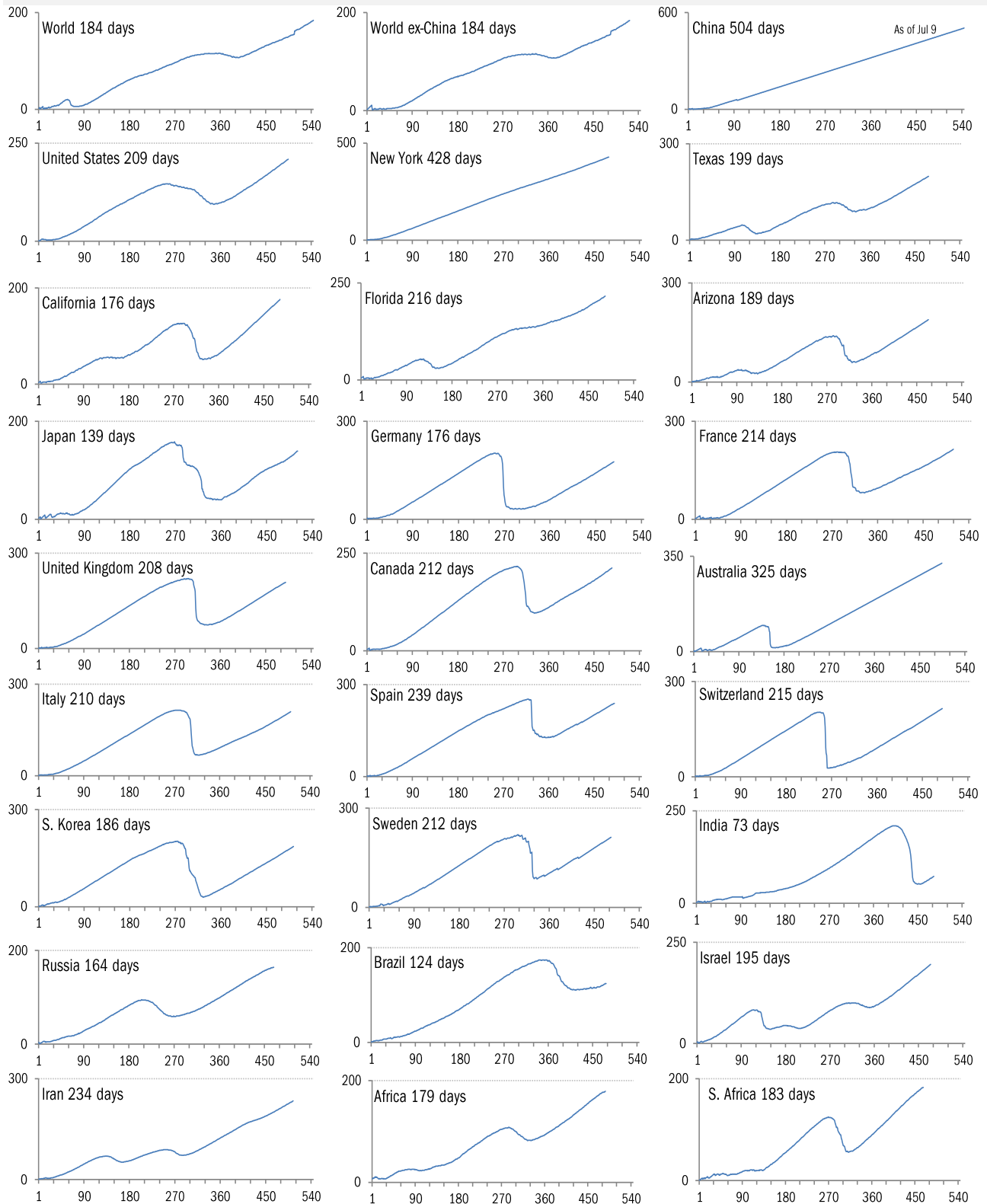
Source: [Johns Hopkins](#), TrendMacro calculations



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

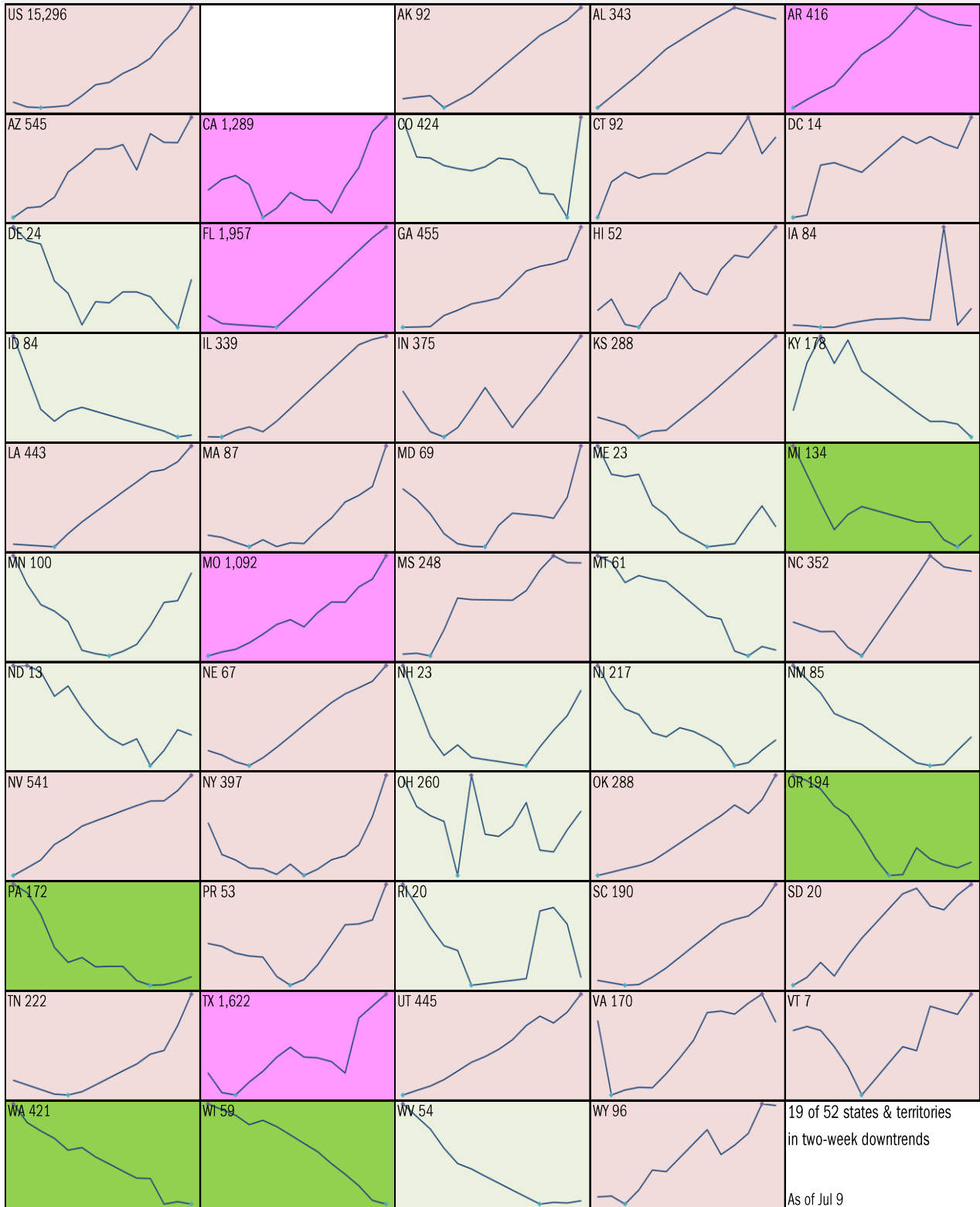
Vertical: days to double deaths Horizontal: days from first death

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



Source: [Johns Hopkins](#), 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

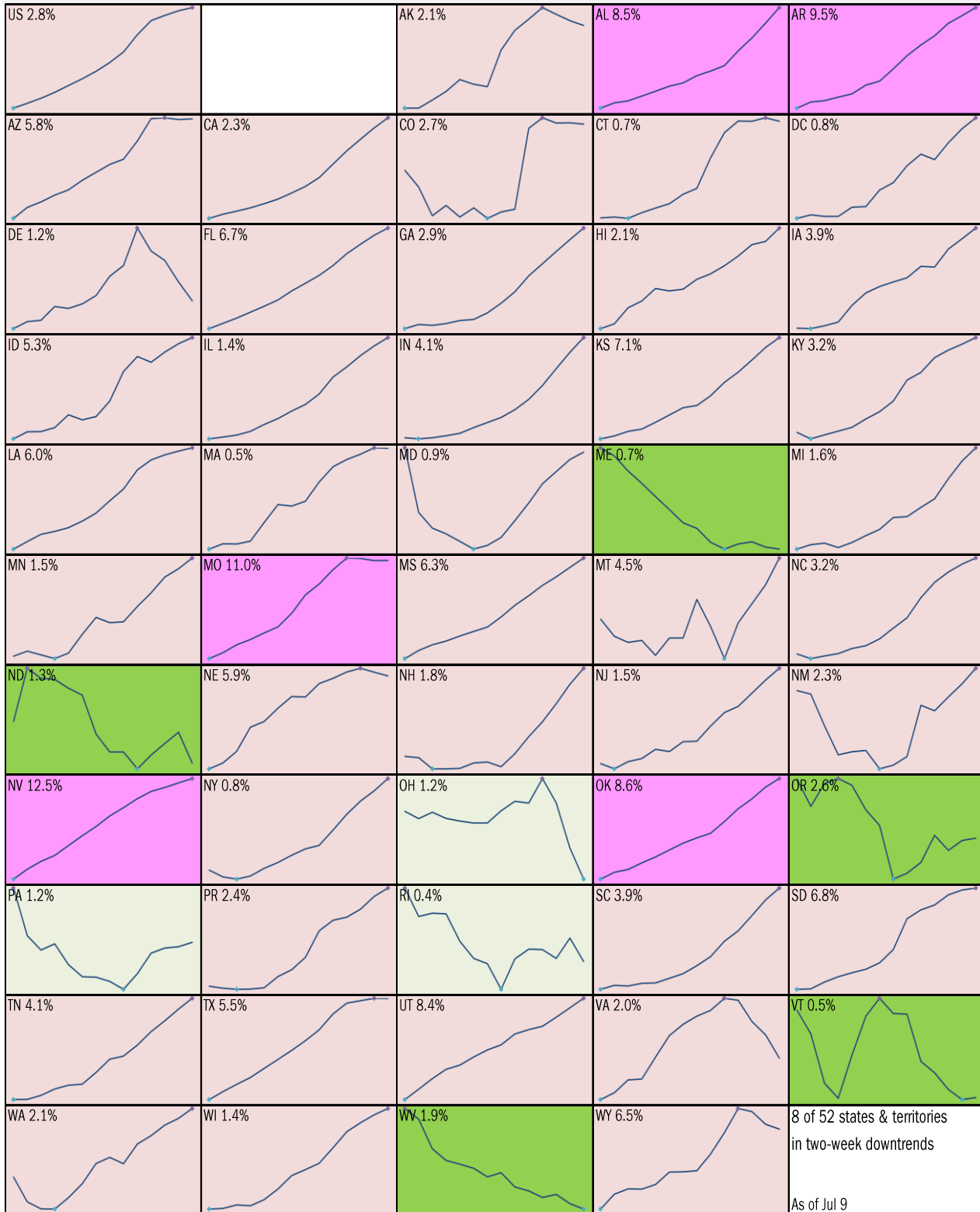


Source: [Johns Hopkins](#), TrendMacro calculations

Alt requirement to [Open Up America Again](#): 14-day “downward trajectory” in pos tests

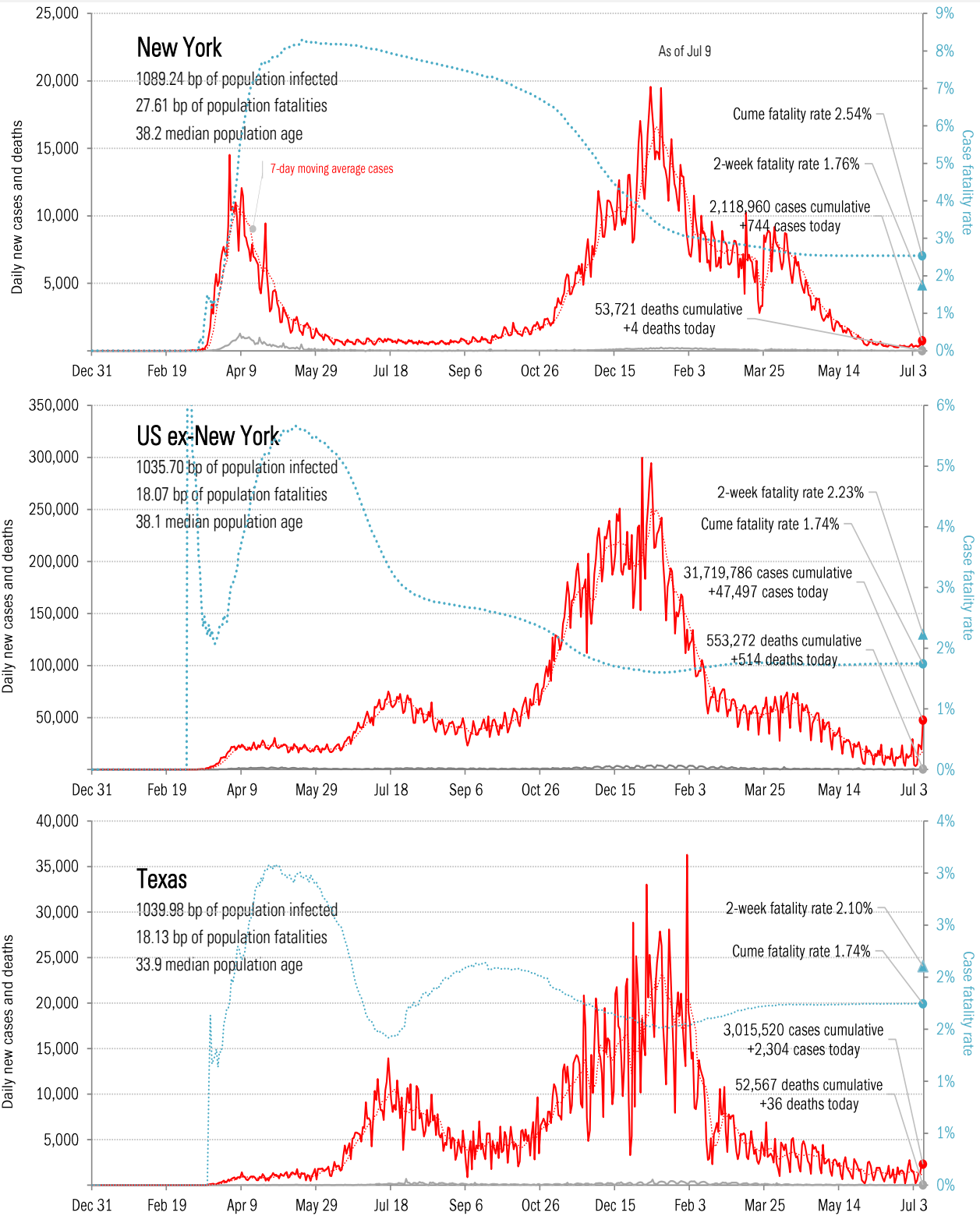
14-day moving average, last 14 days Most recent value displayed ● High ● Low

■ Downward trajectory ■ Five best ■ Upward trajectory ■ Five worst



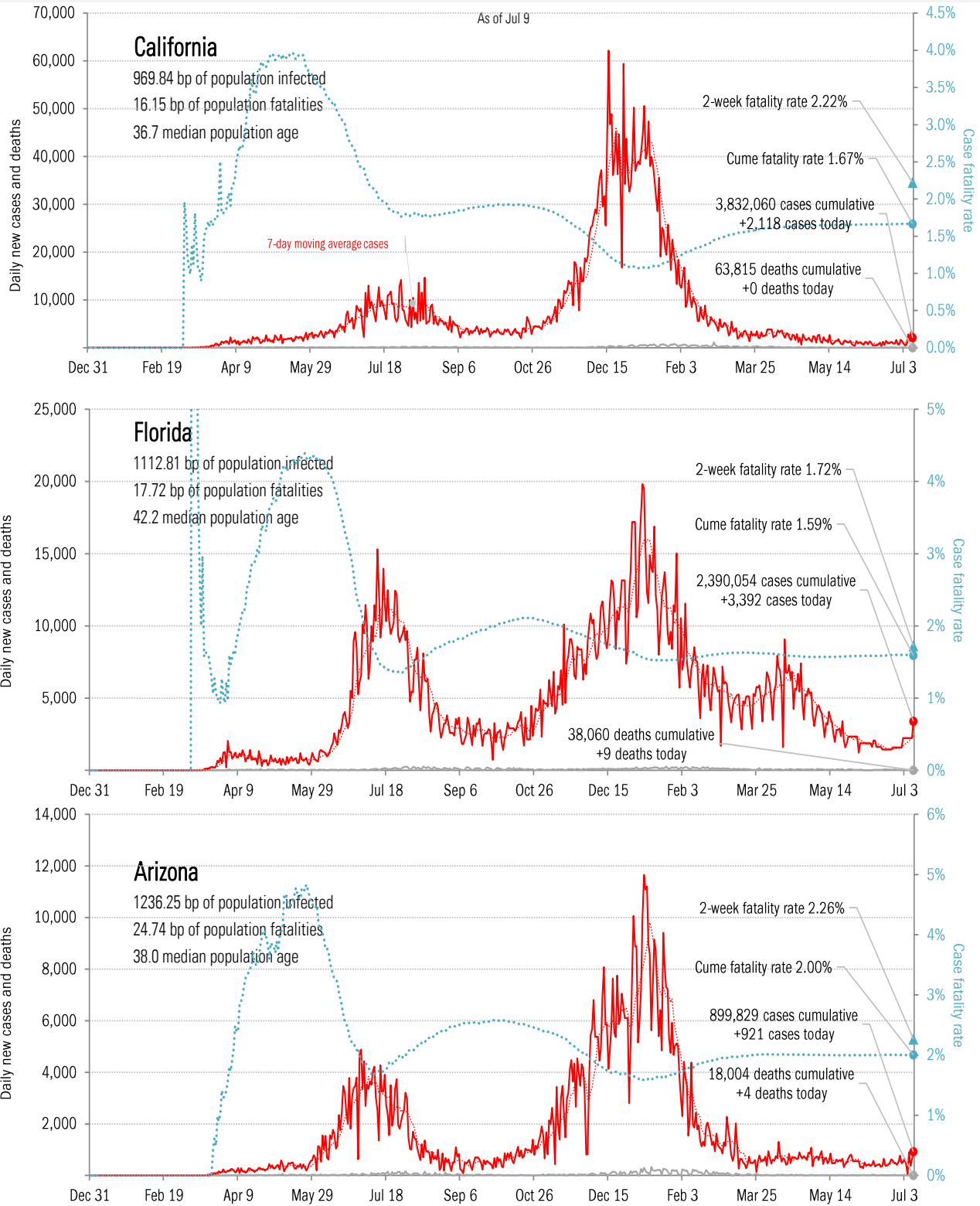
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



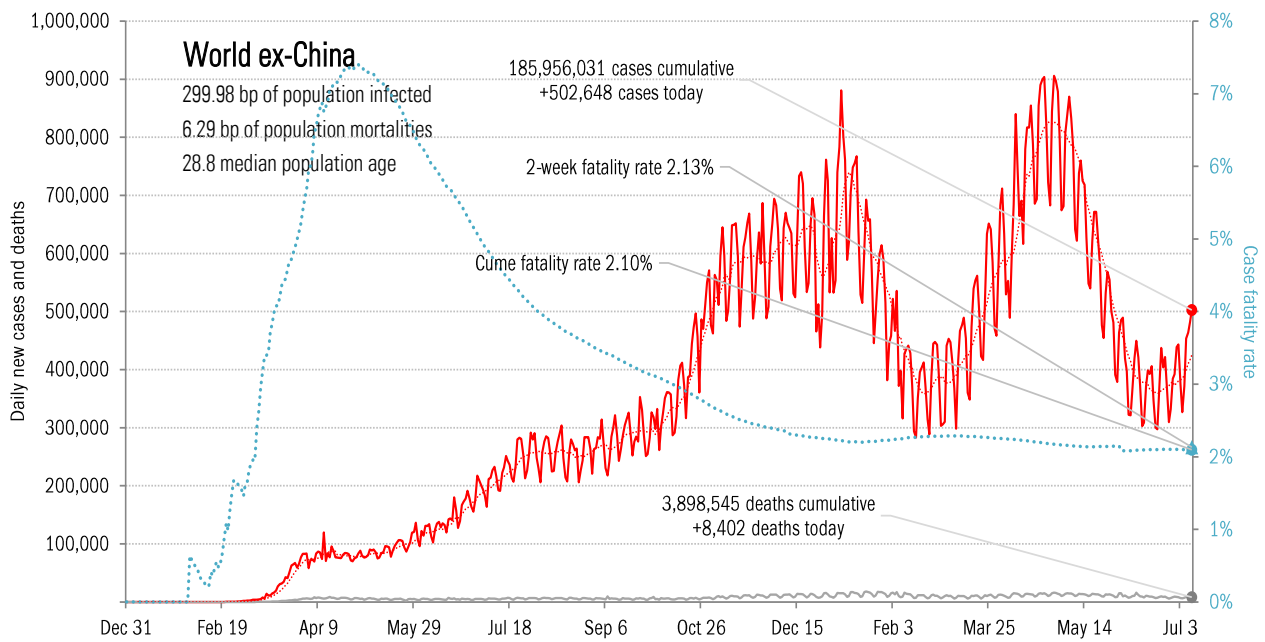
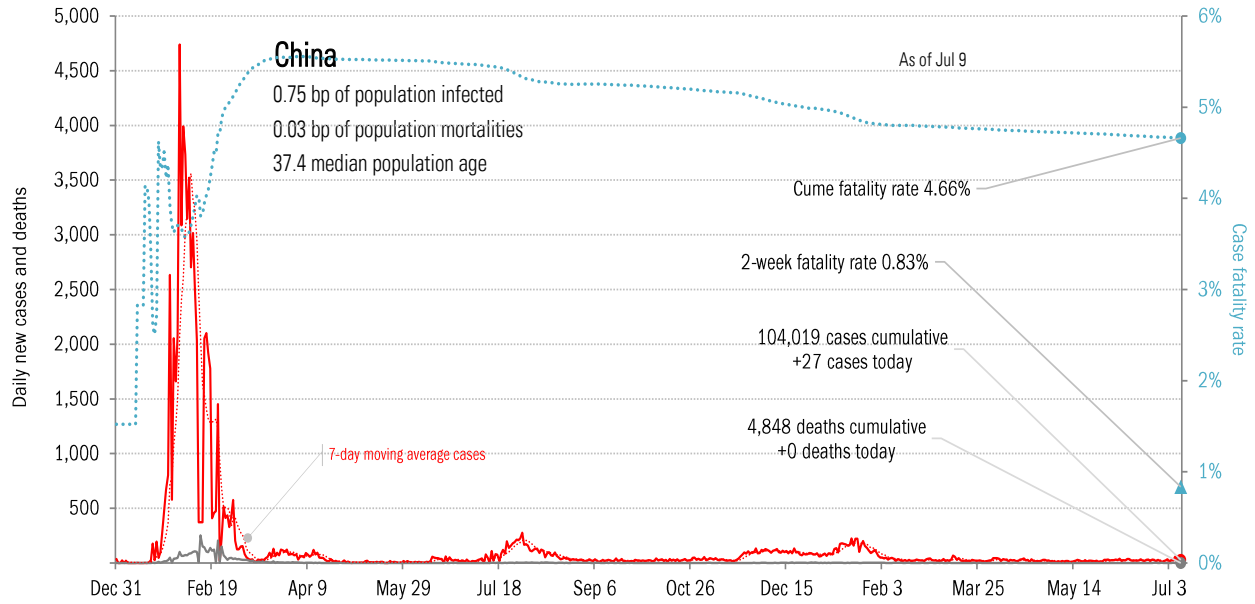
Source: [Johns Hopkins](#), TrendMacro calculations

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



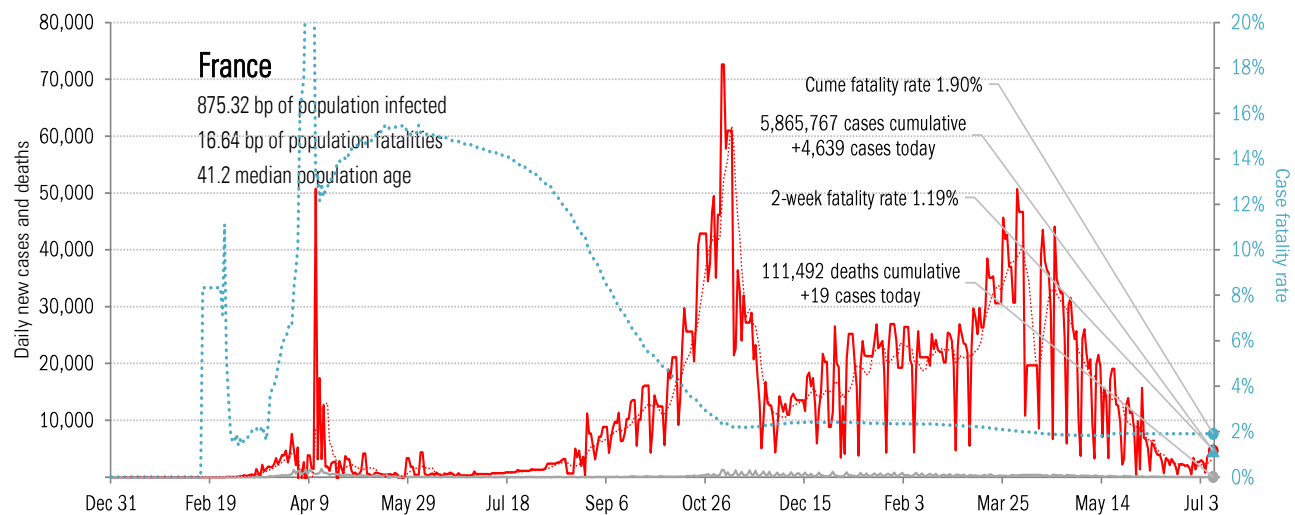
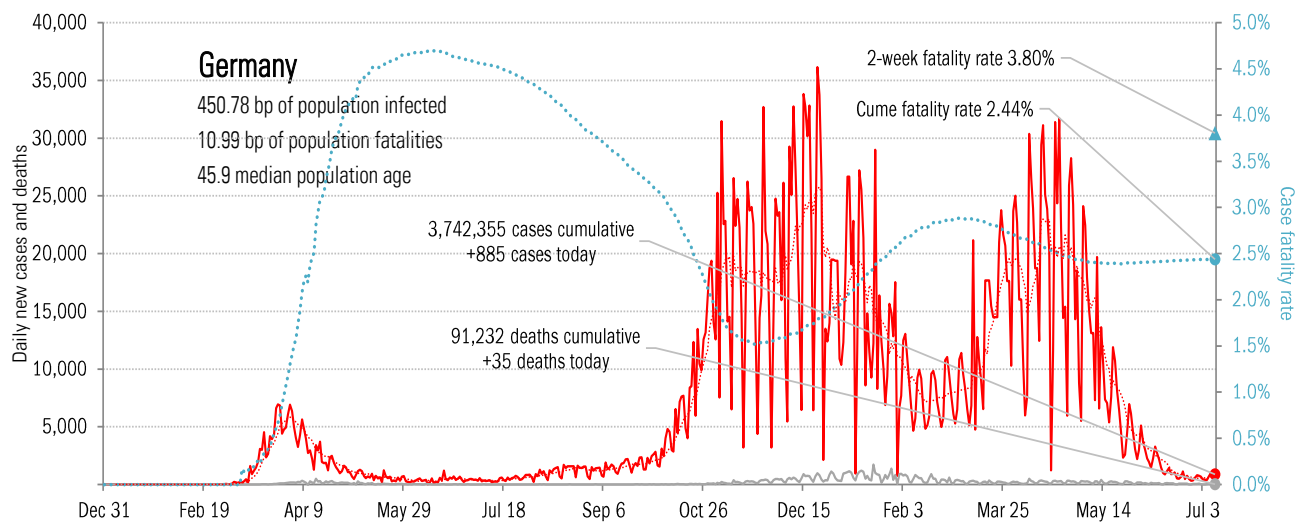
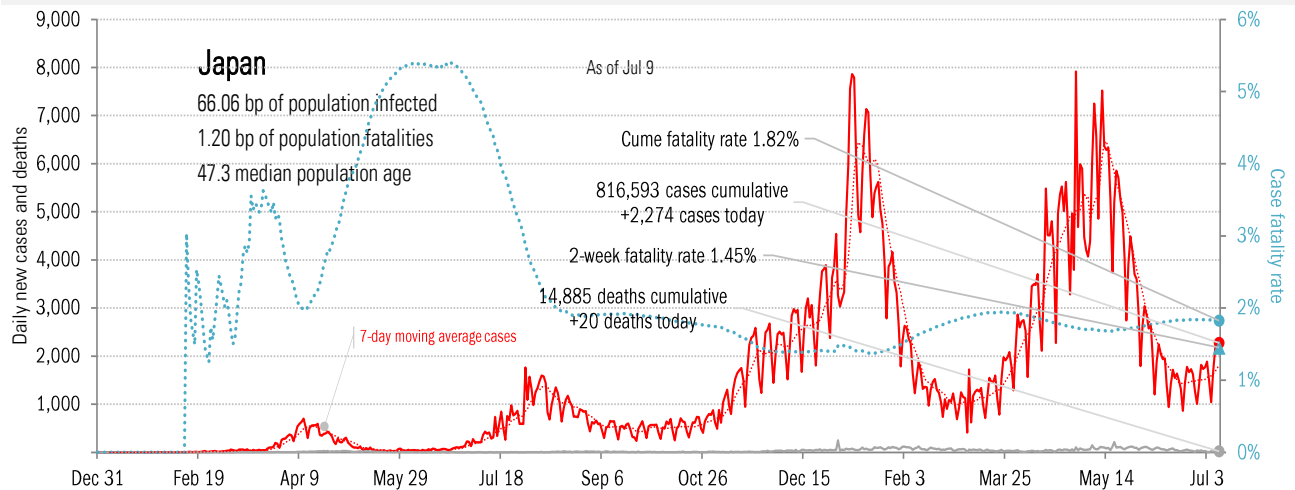
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



Source: [Johns Hopkins](#), TrendMacro calculations

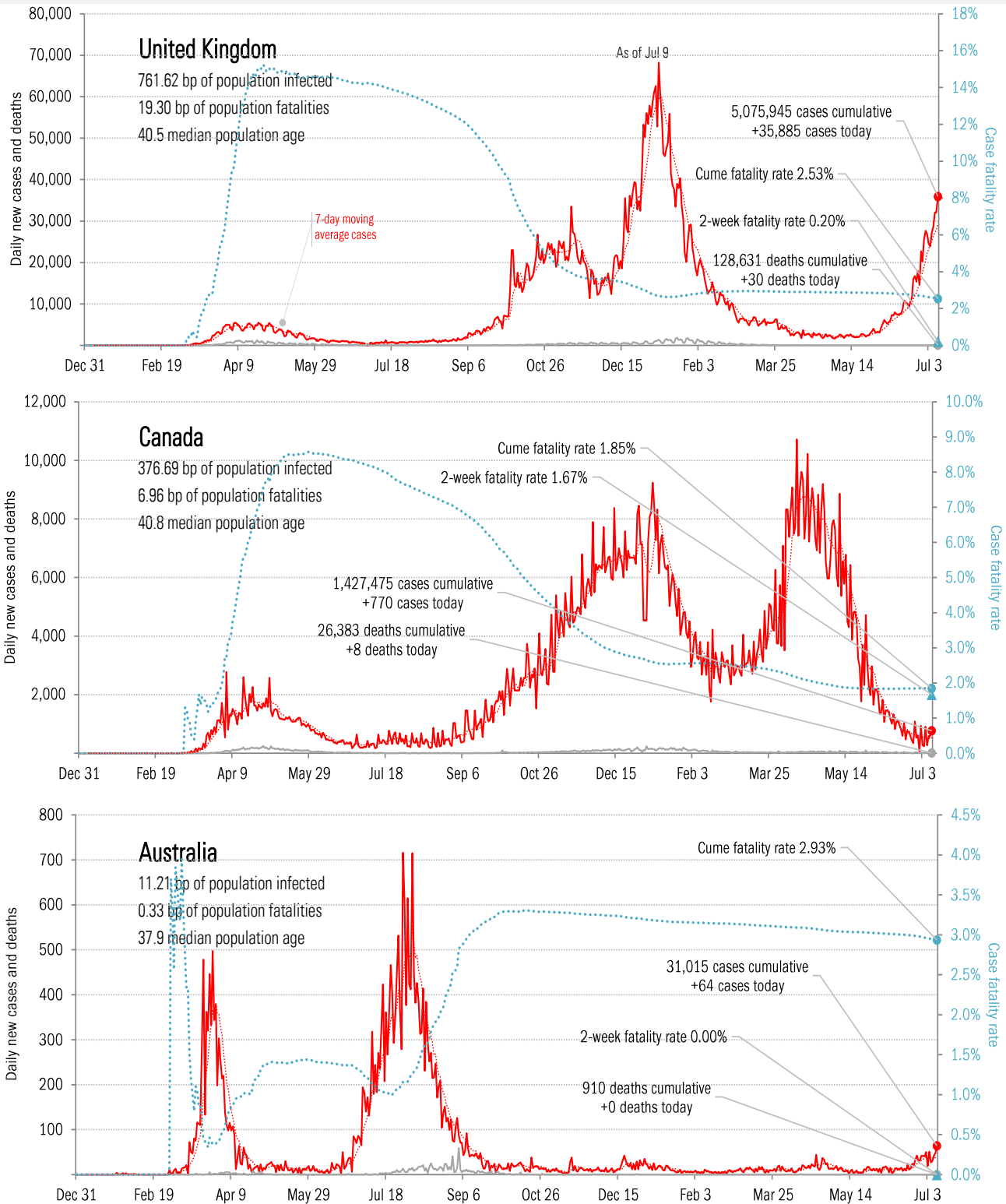
# Impact in the largest economies



Source: [Johns Hopkins](#), TrendMacro calculations

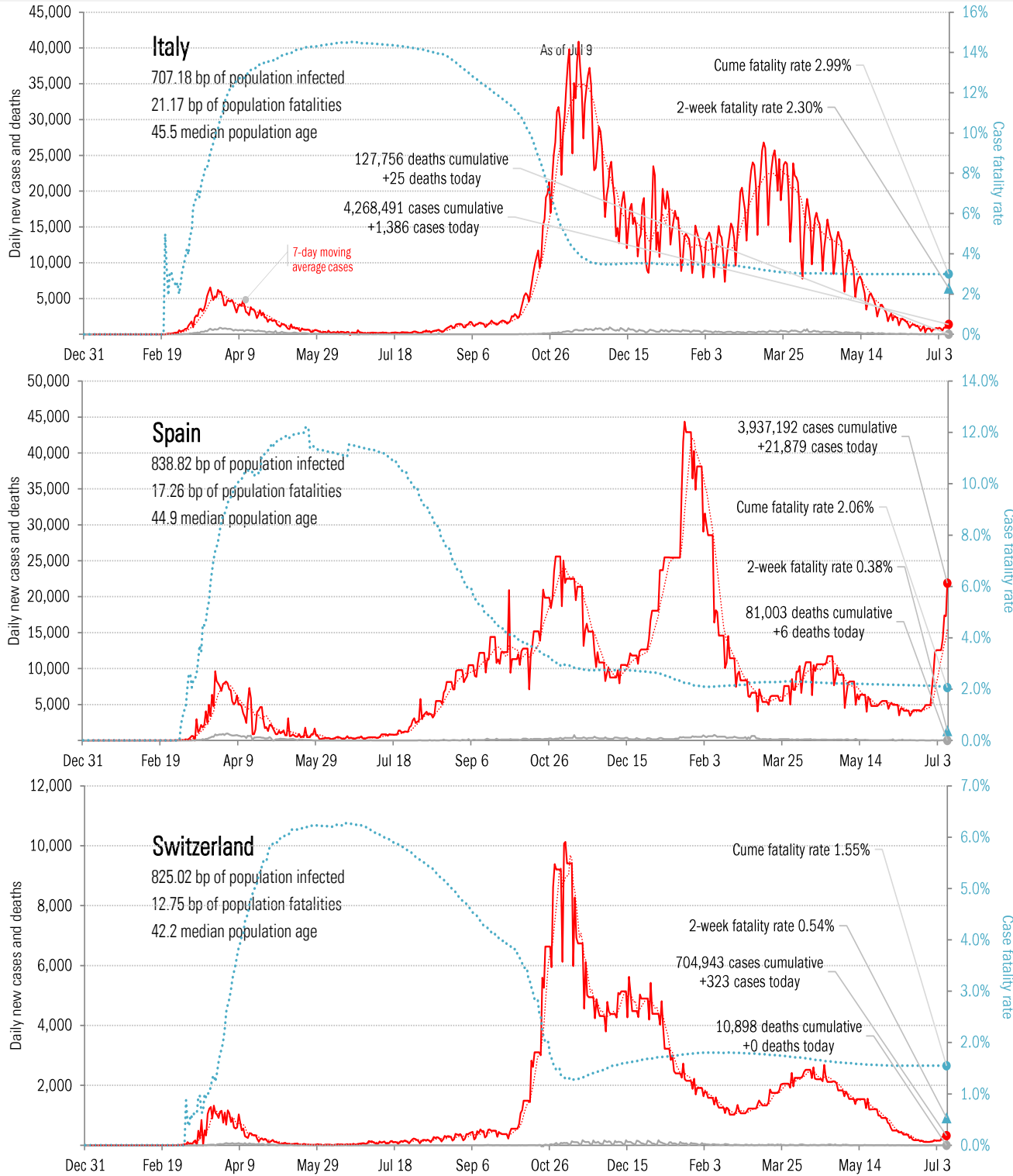


# Impact in The Anglosphere



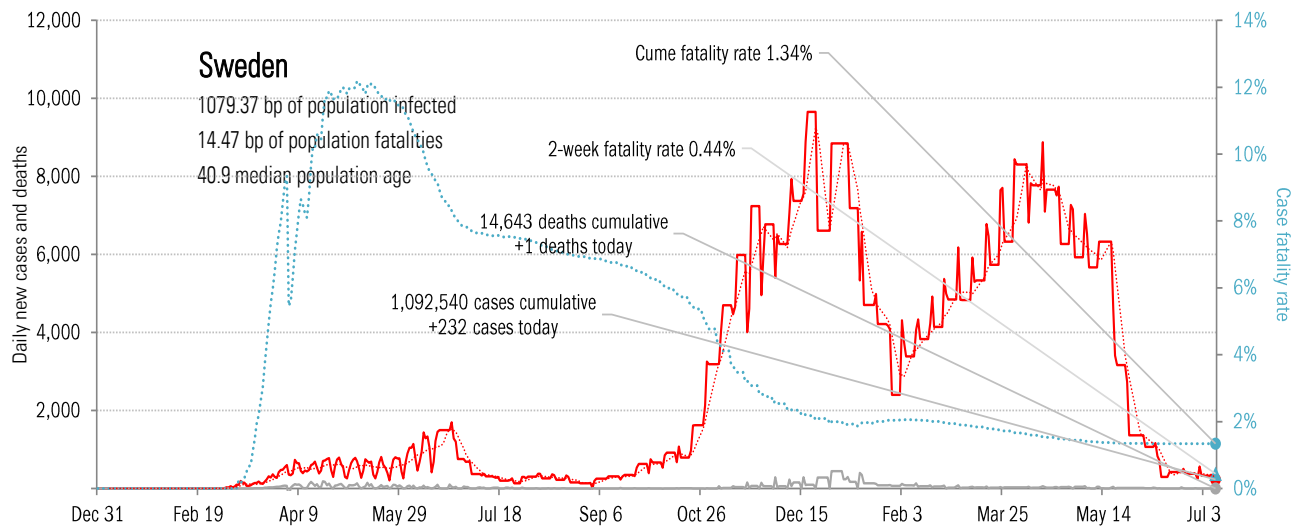
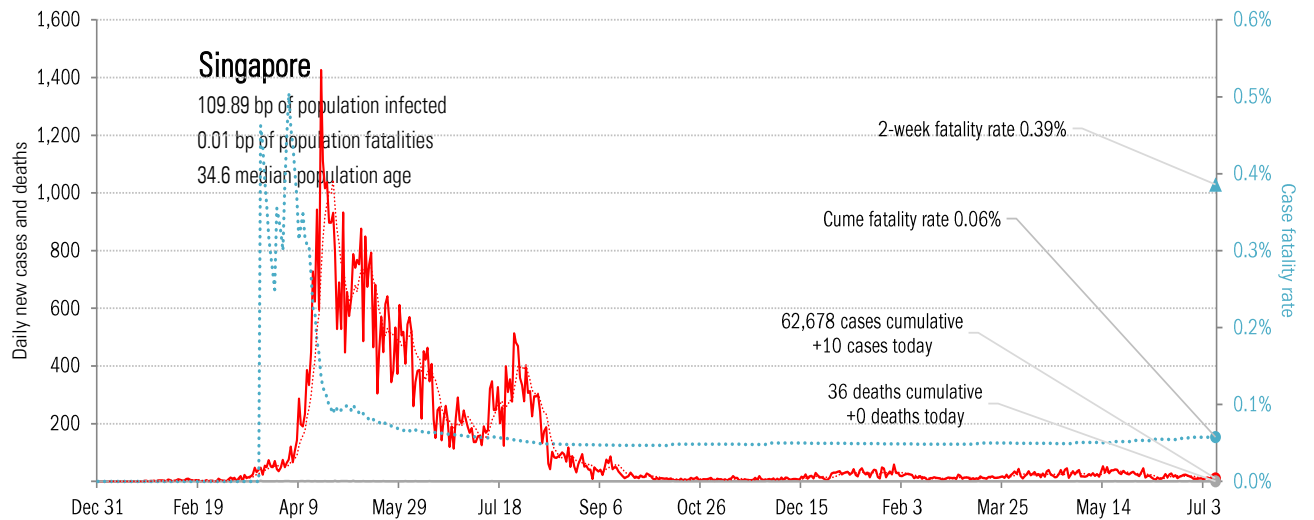
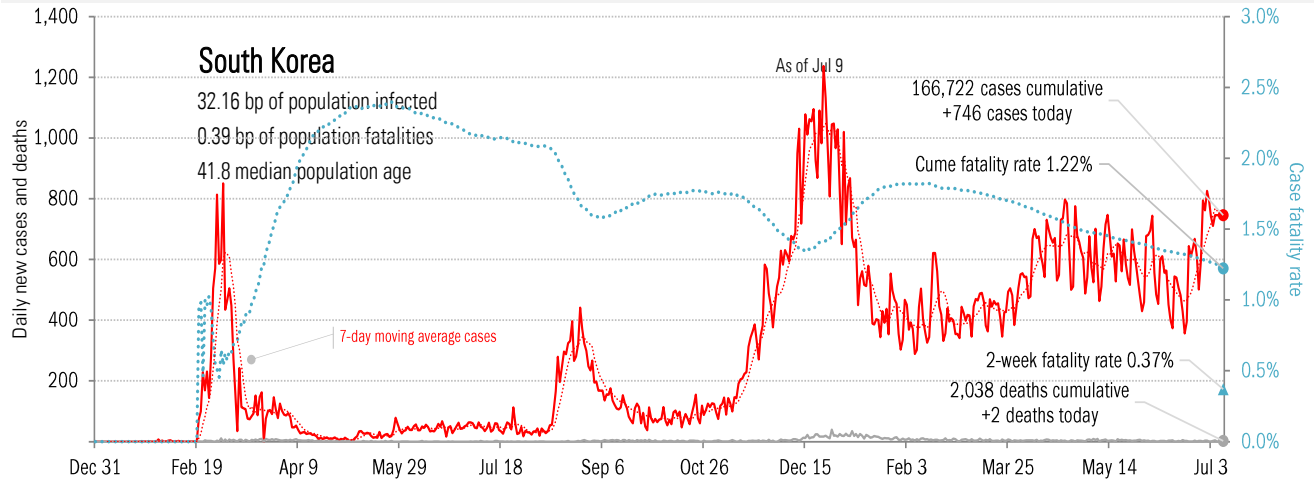
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in continental Europe



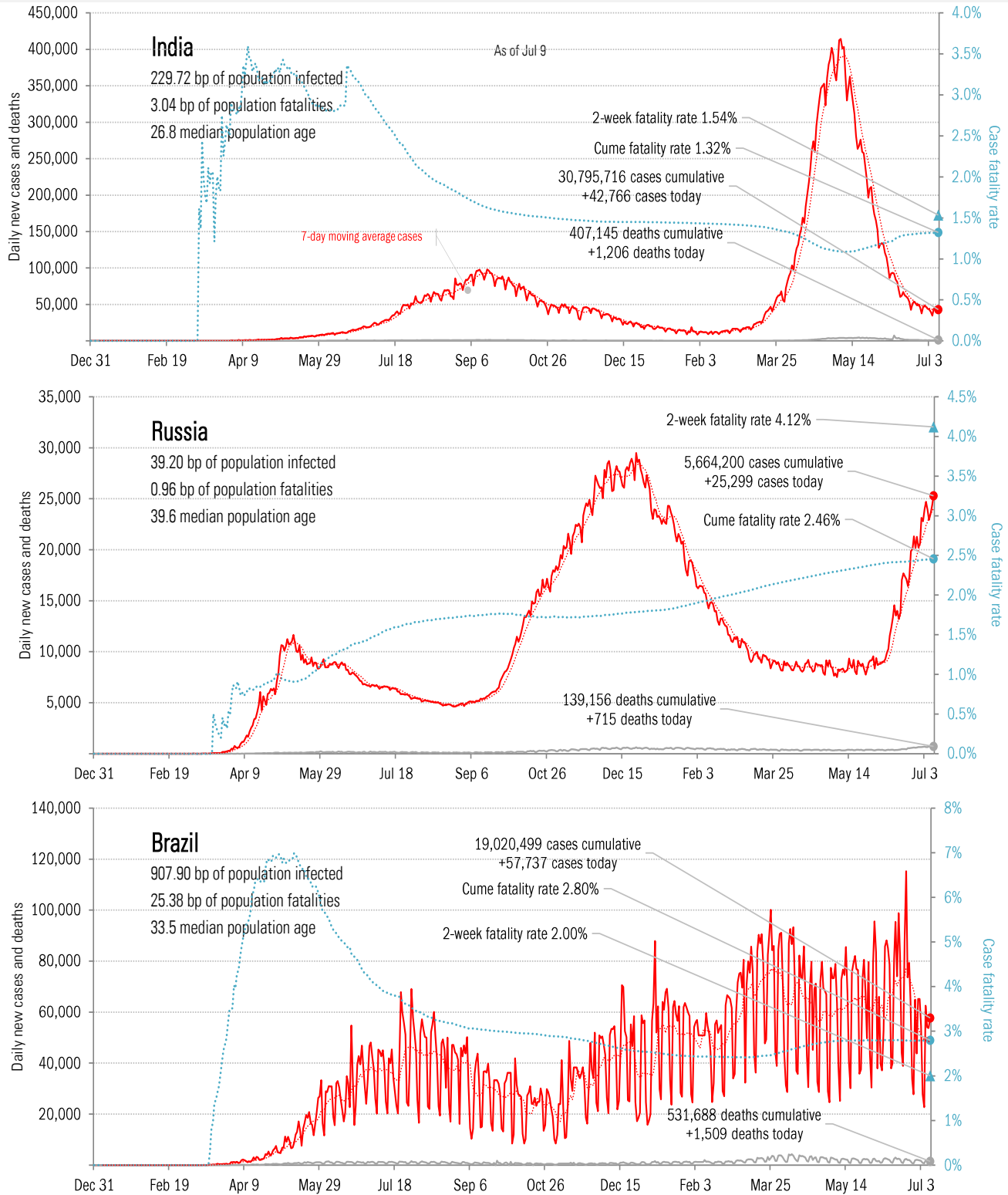
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



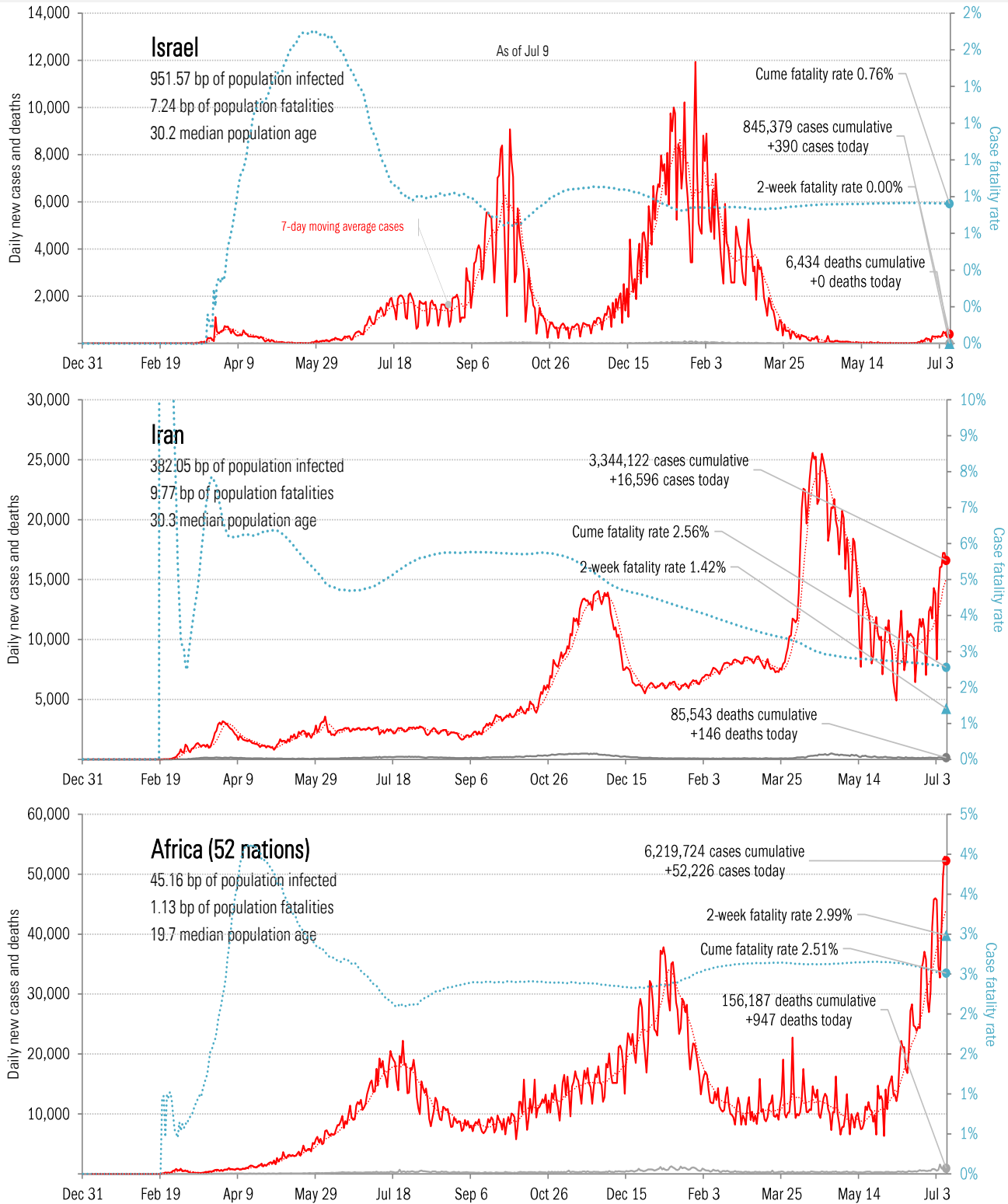
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



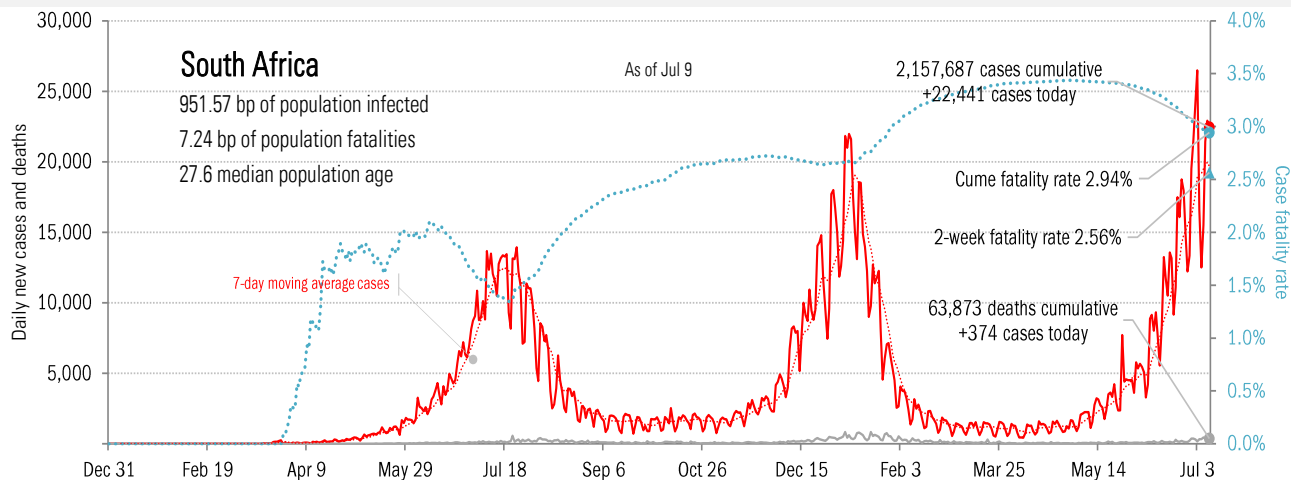
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in Africa, continued



Source: [Johns Hopkins](#), TrendMacro calculations