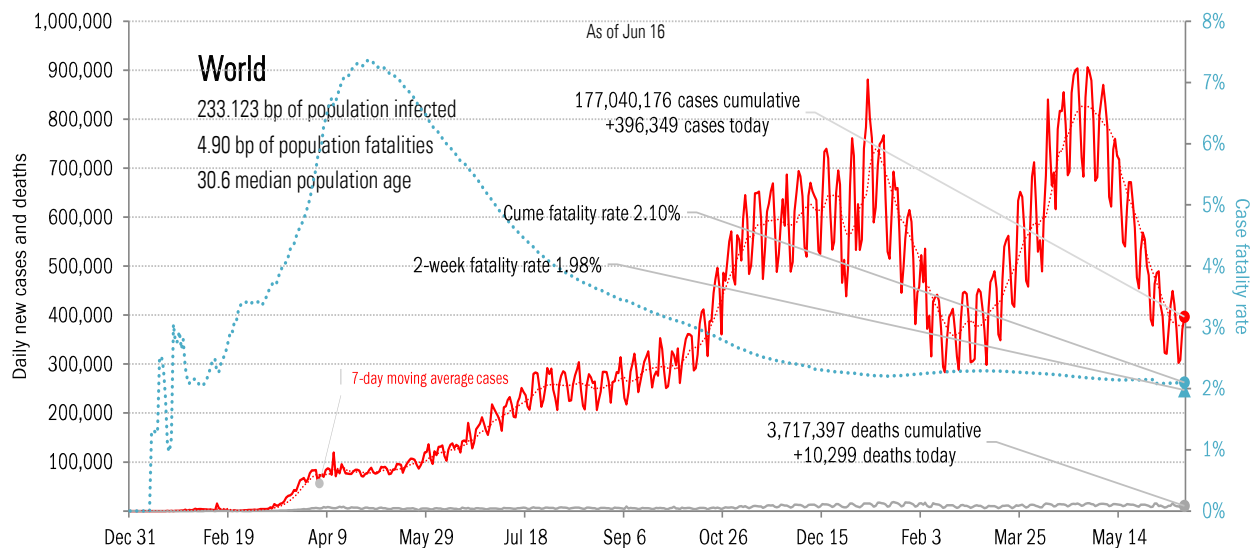
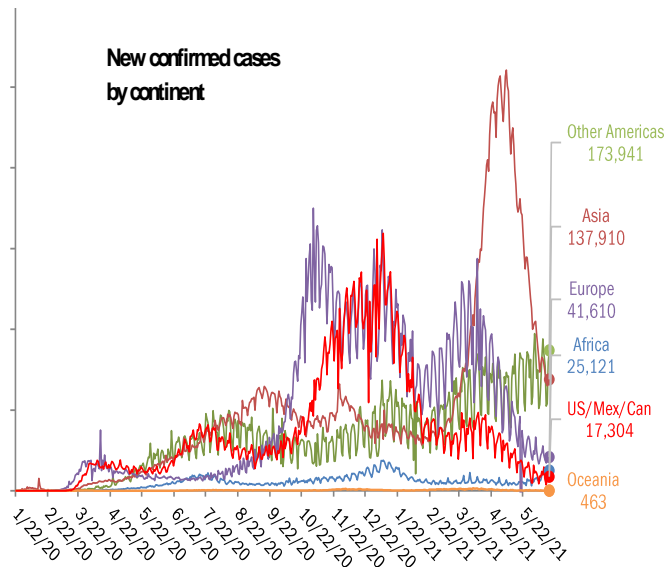


## Data Insights: Covid-2019 Monitor

Thursday, June 17, 2021

### The global scorecard

The worst ten countries			
New cases		New Deaths	
Brazil	+95,367	Brazil	+2,997
India	+67,208	India	+2,330
Colombia	+27,827	Argentina	+646
Argentina	+25,878	Colombia	+595
South Africa	+13,246	Russia	+388
Russia	+13,209	United States	+368
United States	+12,430	Indonesia	+196
Iran	+10,487	Mexico	+196
Indonesia	+9,944	Philippines	+158
United Kingdom	+8,811	South Africa	+136
<b>+284,407</b>		<b>+8,010</b>	
World +396,349		World +10,299	
Top ten 72%		Top ten 78%	



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

#### For more information contact us:

Donald Luskin: 312 273 6766 [don@trendmacro.com](mailto:don@trendmacro.com)  
 Thomas Demas: 704 552 3625 [tdemas@trendmacro.com](mailto:tdemas@trendmacro.com)

# The US scorecard

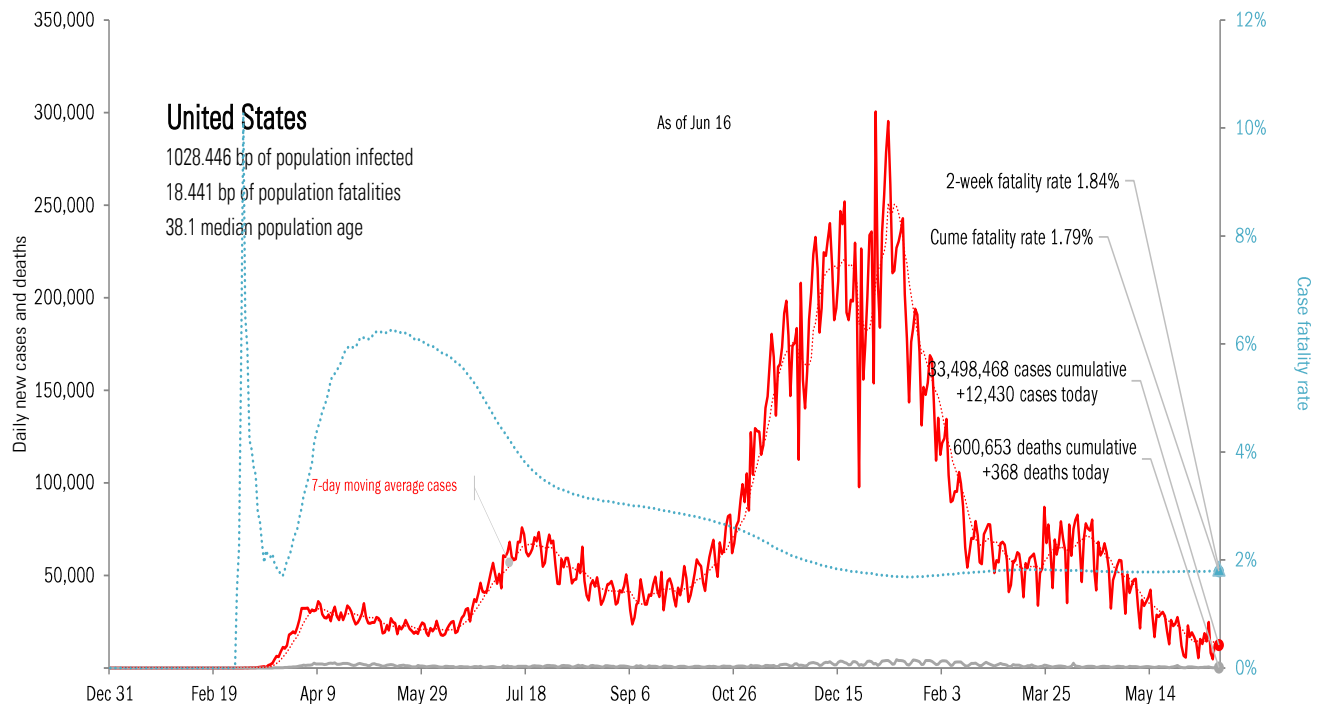
## The ten worst US states

New cases			New Deaths			New in hospital			Curre cases			Curre deaths			Curre in hospital			Hospital use		ICU use	
TX	+2,137		GA	+57		GA	+95		CA	3,805,098		CA	63,227		TX	250,936		R	90%	MO	12%
FL	+1,636		FL	+40		MO	+21		TX	2,981,826		NY	53,576		CA	238,084		MA	85%	CO	12%
MO	+862		TX	+40		MS	+18		FL	2,343,113		TX	52,007		FL	183,316		PA	82%	WA	11%
CA	+743		CK	+29		CK	+16		NY	2,110,310		FL	37,185		NY	135,534		MO	82%	WY	11%
WA	+531		IL	+26		UT	+14		IL	1,388,261		PA	27,531		GA	108,115		MD	81%	ID	11%
GA	+498		CA	+19		IA	+8		PA	1,214,051		NJ	26,357	#N/A	0	MI	80%	UT	9%		
CO	+464		NC	+18		NM	+6		GA	1,129,675		IL	25,531		CH	177,797		GA	80%	MS	9%
AZ	+436		WI	+18		NE	+5		CH	1,107,902		GA	21,228		IL	81,810		MIN	80%	AR	9%
UT	+413		PA	+17		ME	+4		NJ	1,020,326		MI	20,822		KY	76,650		CT	79%	ME	9%
CH	+381		AZ	+12		FR	+4		NC	1,009,531		CH	20,122		MI	72,618		DC	79%	TX	8%
	+8,101			+276			+191			18,110,093			347,586			1,324,860					
All states	+14,066			+408			+17		All states	33,498,468			600,653			2,358,961		All states	70%		67%
Top ten	58%			68%			1124%		Top ten	54%			58%			56%		Median	72%		6%

Some states not reporting

## Five most improved US states

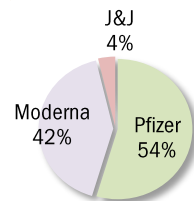
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations		Most pop immunity growth	
CA	-518	CH	-31	WA	-39	MD	+80 bp
LA	-234	MI	-25	CA	-38	CO	+70 bp
TN	-187	MO	-18	MD	-36	VA	+50 bp
PA	-143	WA	-17	AR	-18	NH	+40 bp
AL	-130	NY	-14	ND	-9	NM	+40 bp



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	387,730,855				+0.322 million	US	43.8%	52.3%
Doses administered	322,262,320				+1.034 million	UK	44.8%	61.9%
Administered	One dose	% Pop	Immune	% pop	New immune today	France	22.6%	45.6%
Total population	179,619,525	54%	150,487,970	45%	+0.690 million	Spain	28.5%	47.2%
Age 12 to 17	7,760,093	31%	4,875,299	19%	+0.180 million	Germany	28.6%	49.2%
Age 18 to 64	122,574,296	60%	102,126,945	50%	+0.434 million	Italy	24.2%	49.8%
Age 65 and over	49,149,510	90%	43,411,297	79%	+0.070 million	Australia	3.1%	20.8%



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 **154 days** by Nov 16, 2021  
 69.6% of population >18 immunized  
 14.1% previously tested positive  
**83.7%** vs 60% adult herd immunity\*

Global data differs from sources, timing

China NA

AK
60.3%
47.5%
41.3%

ME
71.5%
65.2%
58.8%

WI
54.5%
52.5%
46.9%

VT	NH
77.0%	70.0%
72.6%	61.4%
62.9%	54.1%

<b>WA</b> 63.7% 59.2% 51.1%	<b>ID</b> 48.8% 38.7% 34.6%	<b>MT</b> 54.5% 46.7% 40.8%	<b>ND</b> 48.8% 43.1% 37.8%	<b>MN</b> 60.2% 55.9% 49.3%	<b>IL</b> 60.3% 57.3% 43.1%	<b>MI</b> 60.5% 50.3% 44.9%	<b>NY</b> 63.4% 58.3% 51.0%	<b>MA</b> 72.7% 68.7% 58.3%		
<b>OR</b> 69.5% 57.2% 50.4%	<b>NV</b> 51.5% 47.7% 39.6%	<b>WY</b> 47.0% 38.3% 33.2%	<b>SD</b> 56.9% 49.5% 44.1%	<b>IA</b> 56.9% 50.4% 46.2%	<b>IN</b> 52.1% 43.3% 38.1%	<b>OH</b> 55.1% 47.3% 42.7%	<b>PA</b> 64.3% 61.1% 47.2%	<b>NJ</b> 67.1% 63.1% 53.3%	<b>CT</b> 68.7% 65.5% 57.9%	<b>RI</b> 73.4% 63.0% 55.7%
<b>CA</b> 64.5% 59.4% 47.2%	<b>UT</b> 52.3% 47.1% 35.4%	<b>CO</b> 62.9% 56.5% 49.2%	<b>NE</b> 55.9% 49.8% 44.6%	<b>MO</b> 51.5% 43.5% 36.7%	<b>KY</b> 52.1% 48.2% 41.0%	<b>WV</b> 55.3% 42.2% 35.8%	<b>VA</b> 62.7% 57.6% 49.3%	<b>MD</b> 72.3% 60.0% 53.0%	<b>DE</b> 68.0% 56.6% 46.6%	
<b>AZ</b> 57.6% 48.0% 38.1%	<b>NM</b> 58.8% 59.8% 51.0%	<b>KS</b> 55.0% 48.1% 40.4%	<b>AR</b> 49.4% 40.8% 32.8%	<b>TN</b> 48.2% 40.5% 33.9%	<b>NC</b> 58.1% 44.3% 38.1%	<b>SC</b> 53.5% 42.4% 36.3%	<b>DC</b> 78.3% 59.2% 49.6%			
<b>OK</b> 52.9% 43.5% 36.1%	<b>LA</b> 45.4% 37.1% 33.3%	<b>MS</b> 46.8% 35.2% 28.5%	<b>AL</b> 50.7% 37.2% 30.8%	<b>GA</b> 54.5% 41.3% 33.9%						
<b>HI</b> 70.5% 68.6% 50.1%	<b>TX</b> 57.1% 46.6% 38.7%	<b>FL</b> 60.6% 51.6% 42.7%	<b>PR</b> 64.1% 54.5% 41.5%							

As of Jun 16

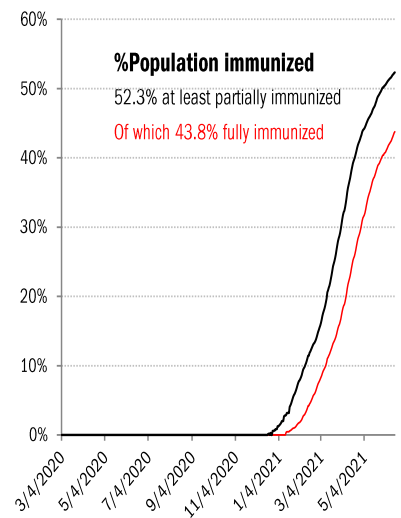
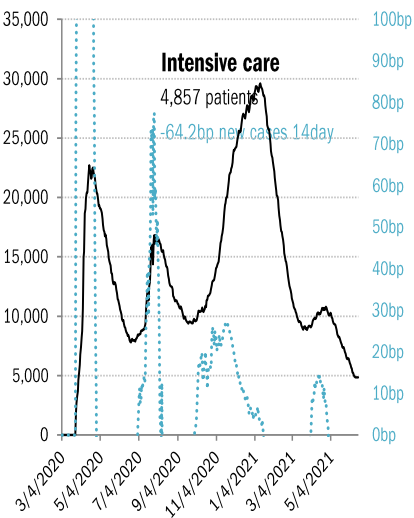
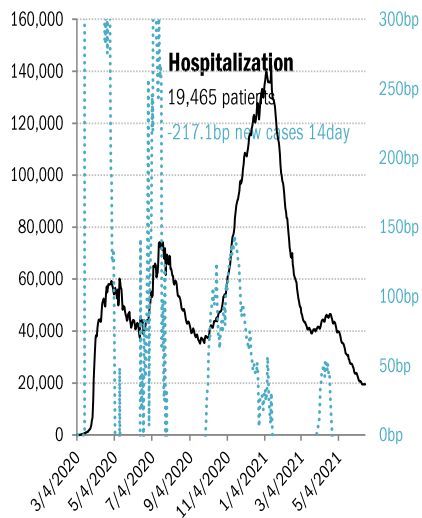
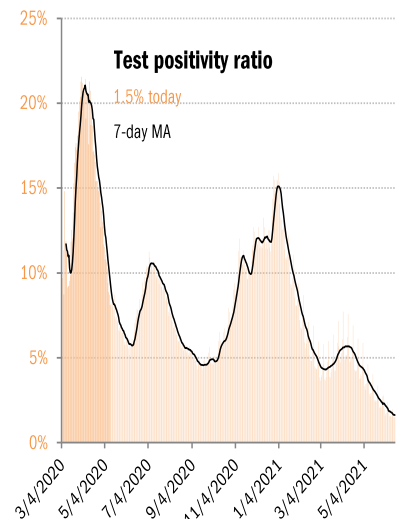
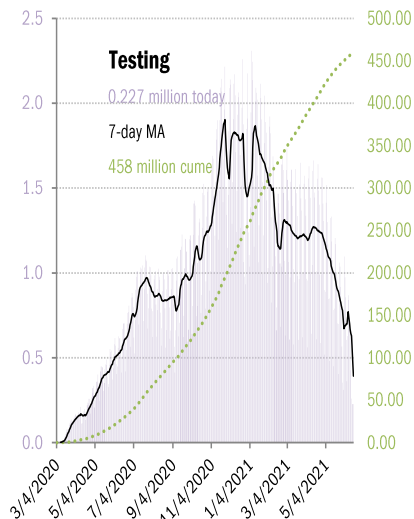
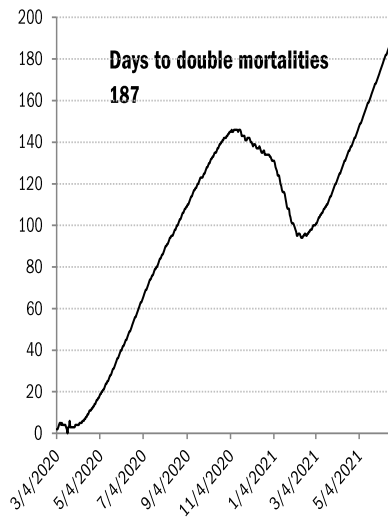
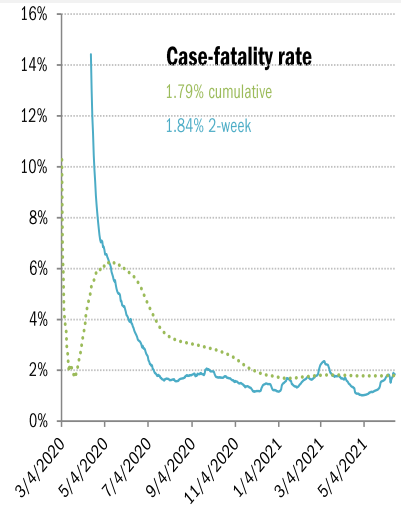
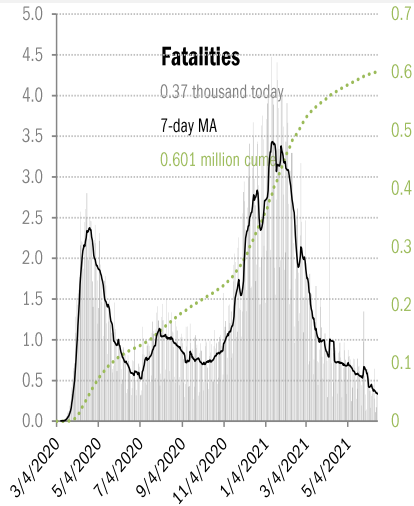
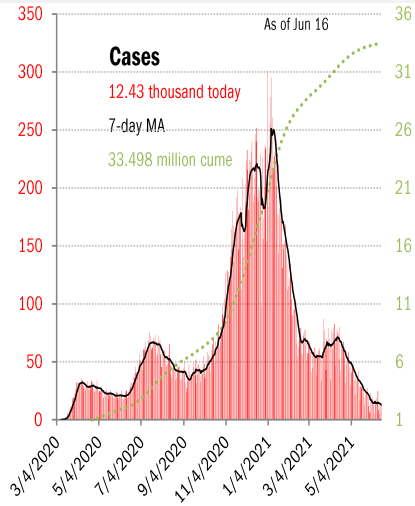
\* Includes persons >18 fully immunized or previously tested positive, no overlap. Disregards untested positives, natural immunities.

\*\* 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

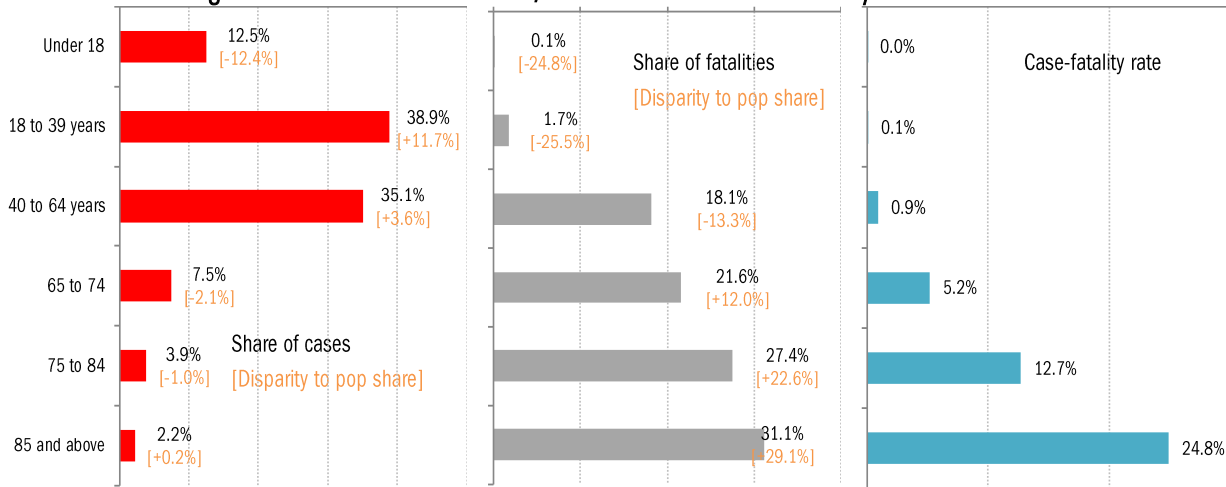
# US deep-dive

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

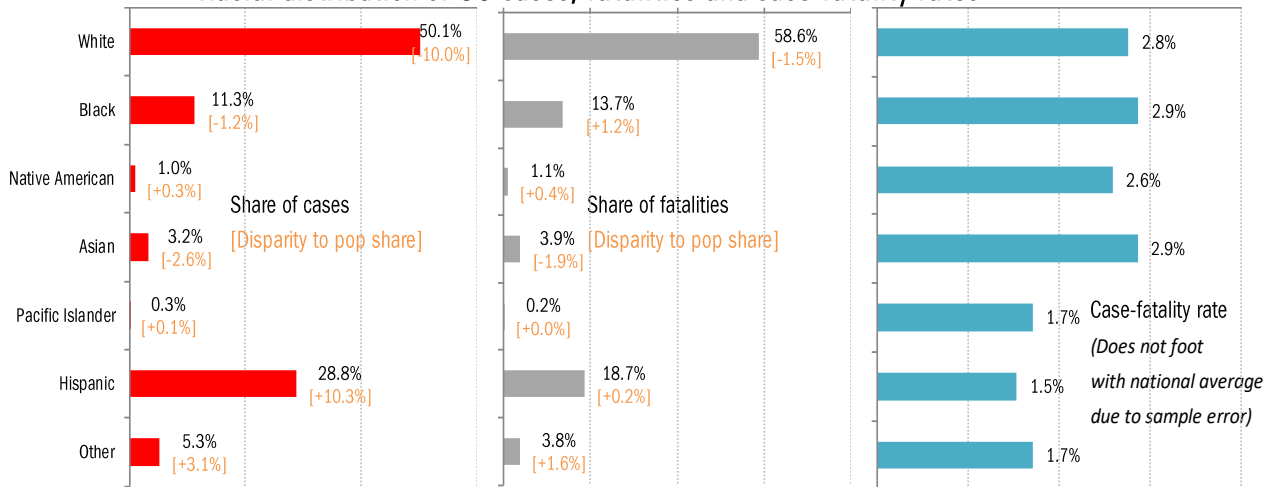


Source: [Johns Hopkins](#), [Covid Act Now](#), TrendMacro calculations

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

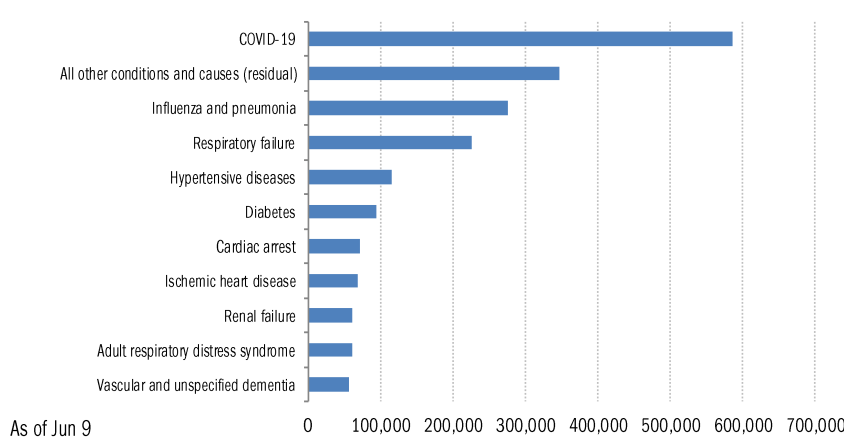


Racial distribution of US cases, fatalities and case-fatality rates



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



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

### [CureVac's mRNA Covid vaccine flunks clinical trial](#)

Nikou Asgari  
*Financial Times*  
June 16, 2021

### [Covid Didn't Start the Mental-Health Crisis](#)

Erica Komisar  
*Wall Street Journal*  
June 16, 2021

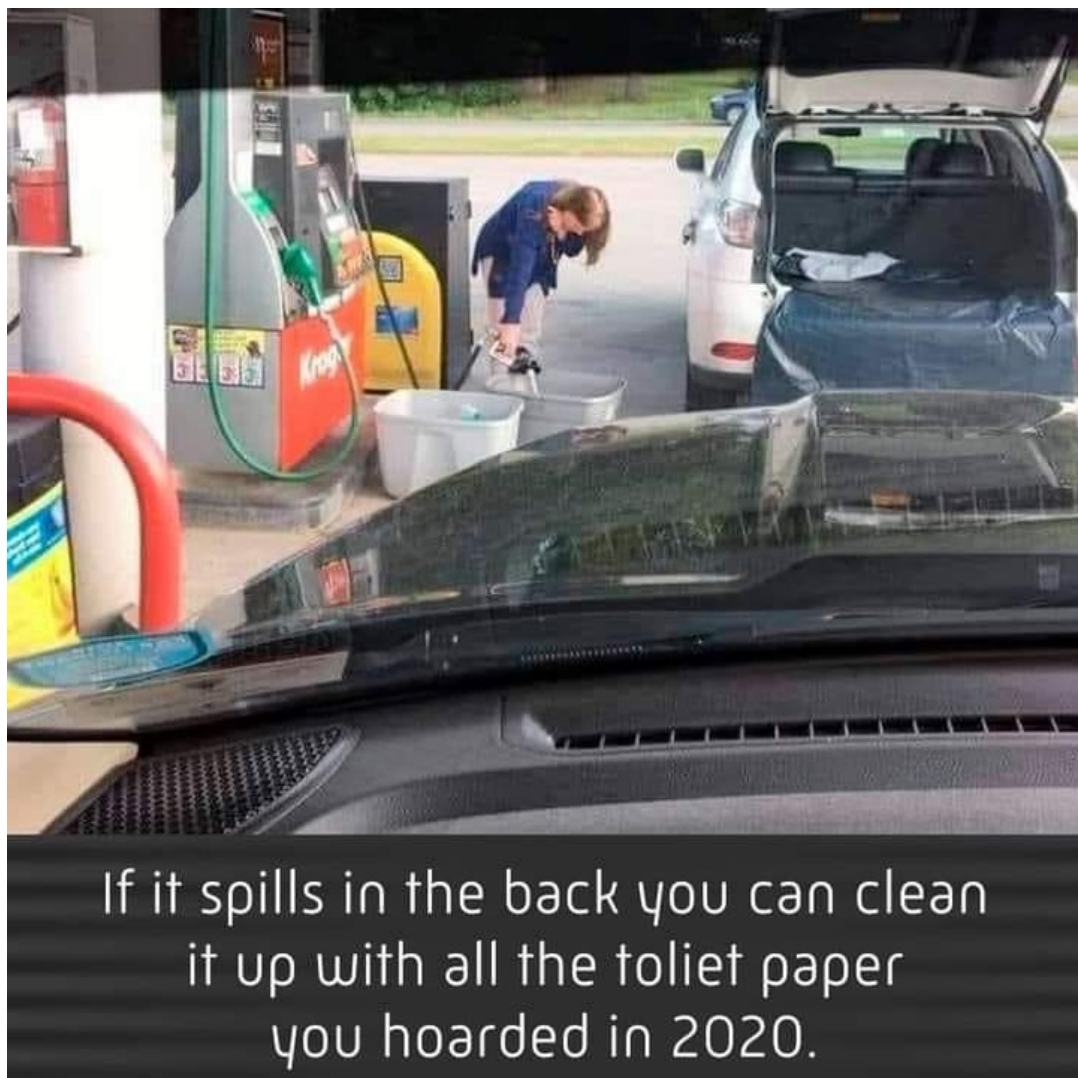
### [A Group Of Parents Sent Their Kids' Face Masks to A Lab for Analysis. Here's What They Found](#)

Scott Morefield  
*TownHall*  
June 15, 2021

### [India reopens Taj Mahal as COVID-19 restrictions eased](#)

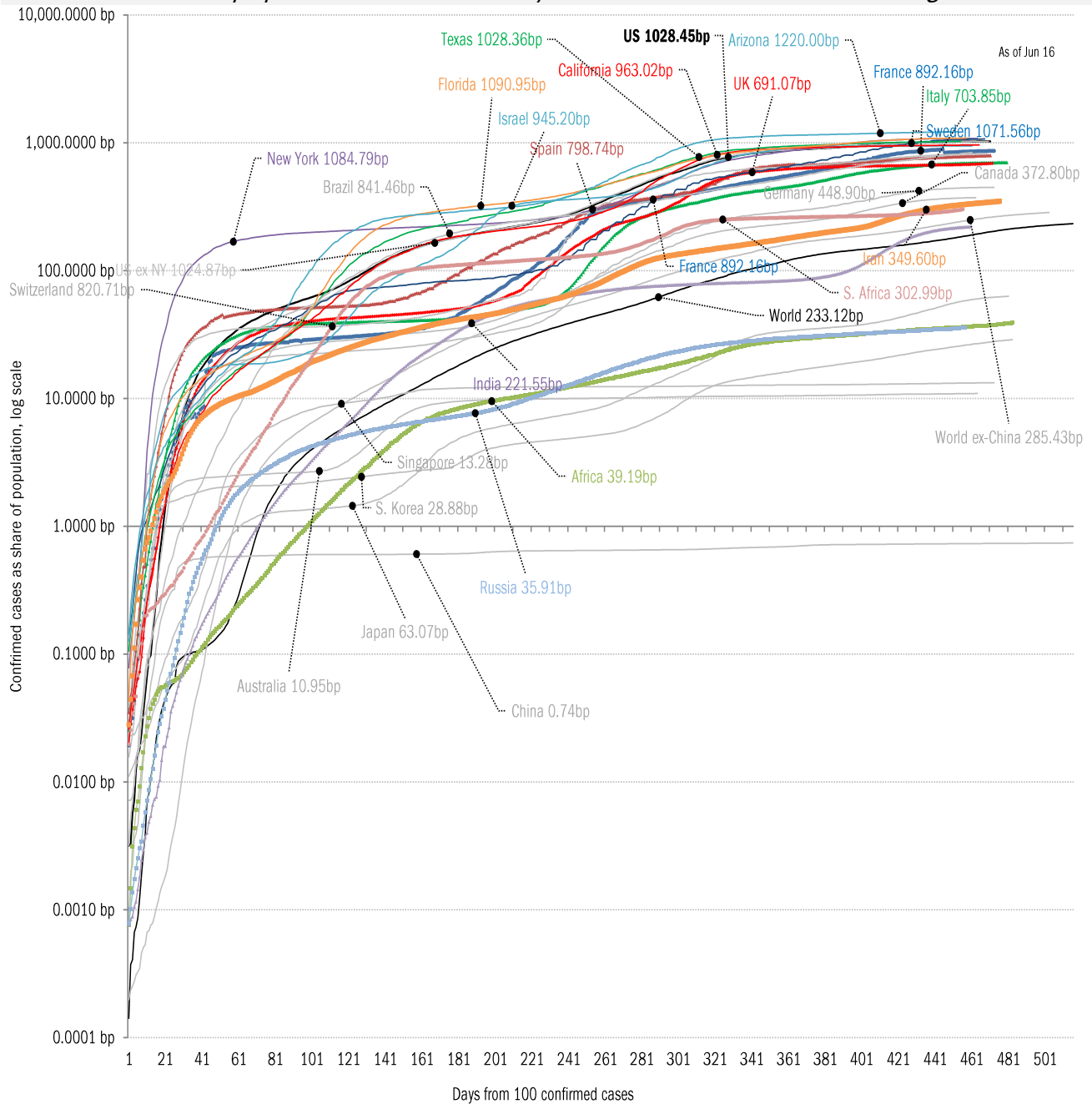
AFP  
June 16, 2021

## Meme of the day



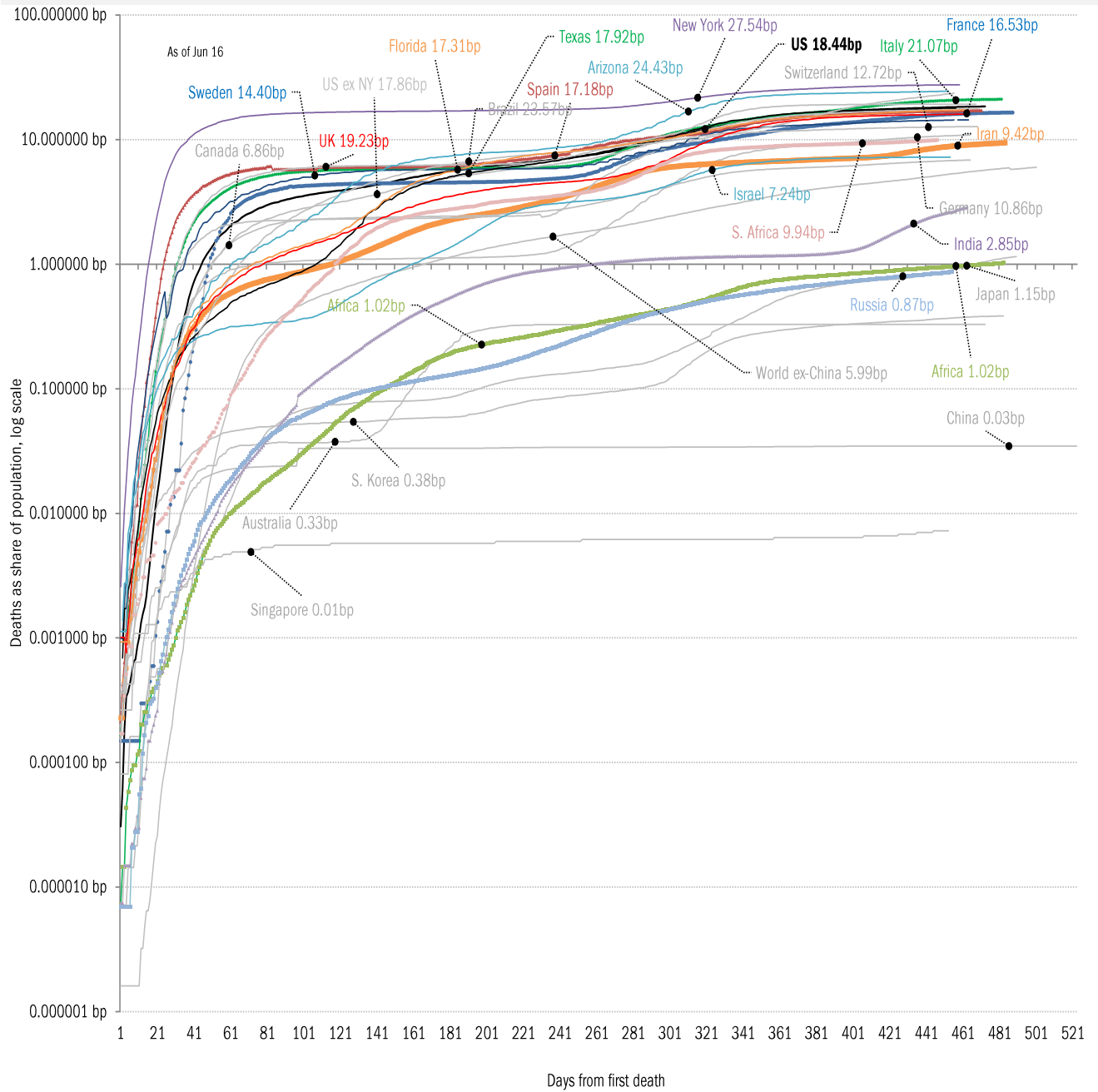
Source: Our beloved clients, [Power Line blog "The Week in Pictures"](#) and [CTUP](#)

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*



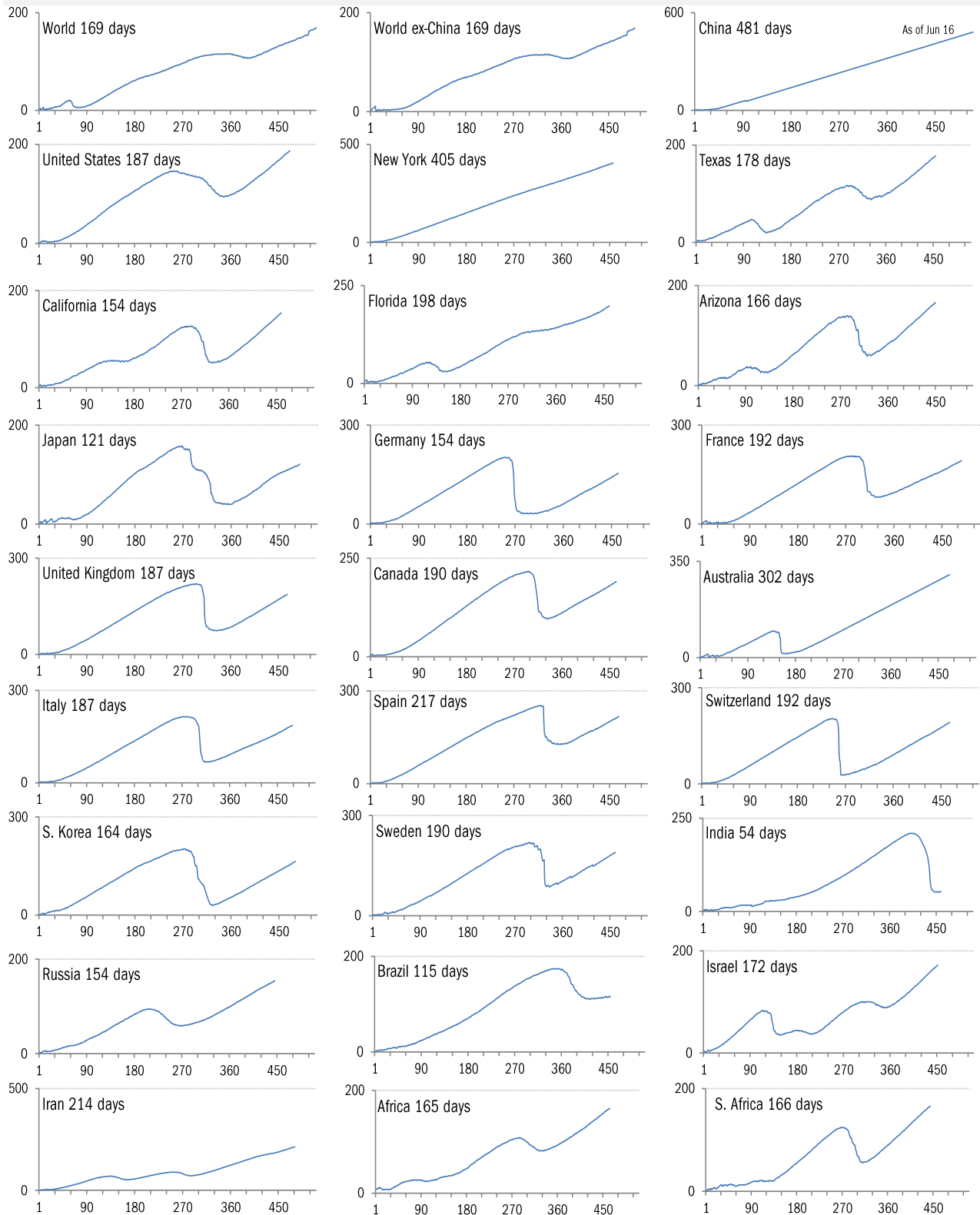
Source: [Johns Hopkins](#), TrendMacro calculations



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

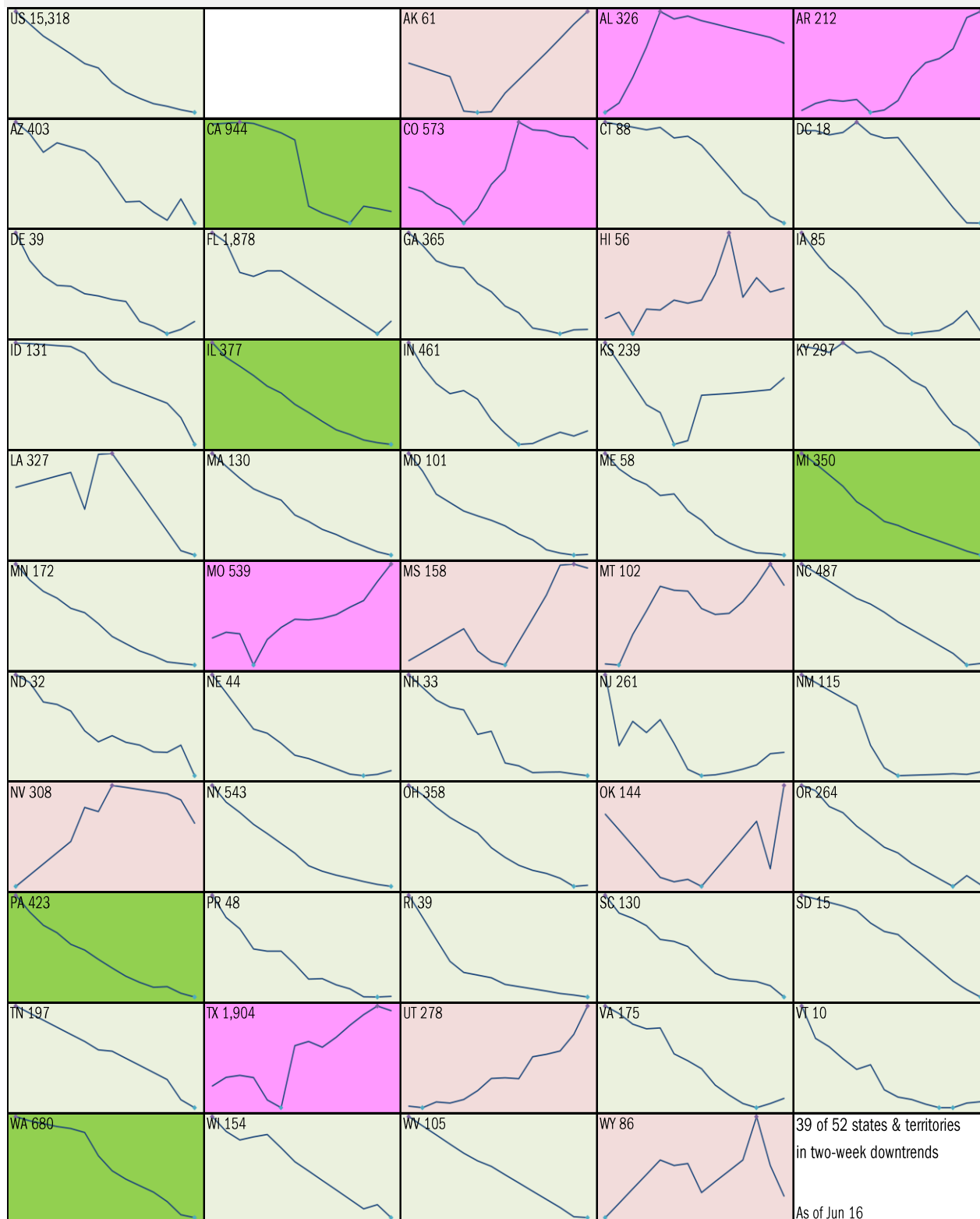
Vertical: days to double deaths Horizontal: days from first death

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

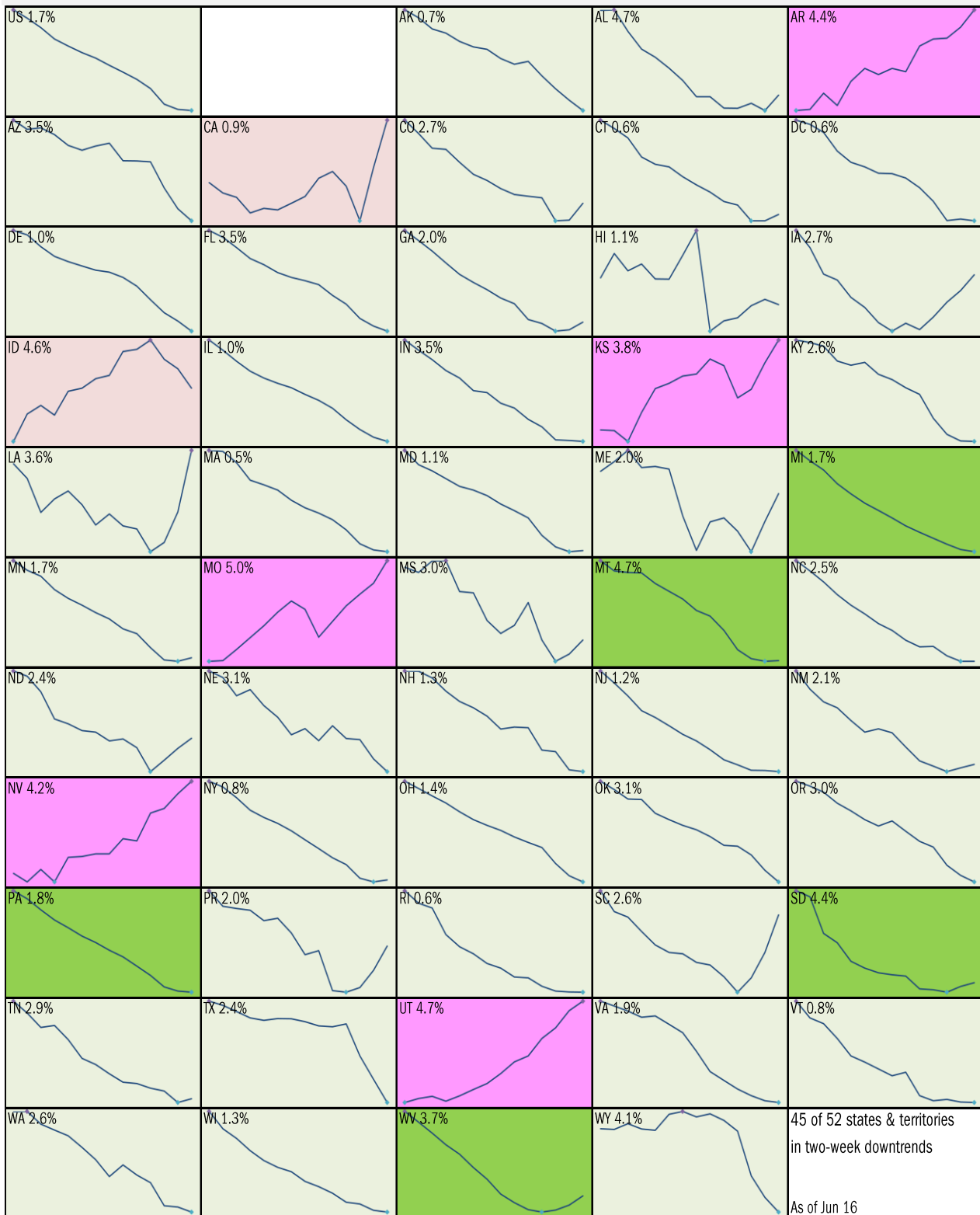


Source: [Johns Hopkins](#), TrendMacro calculations

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

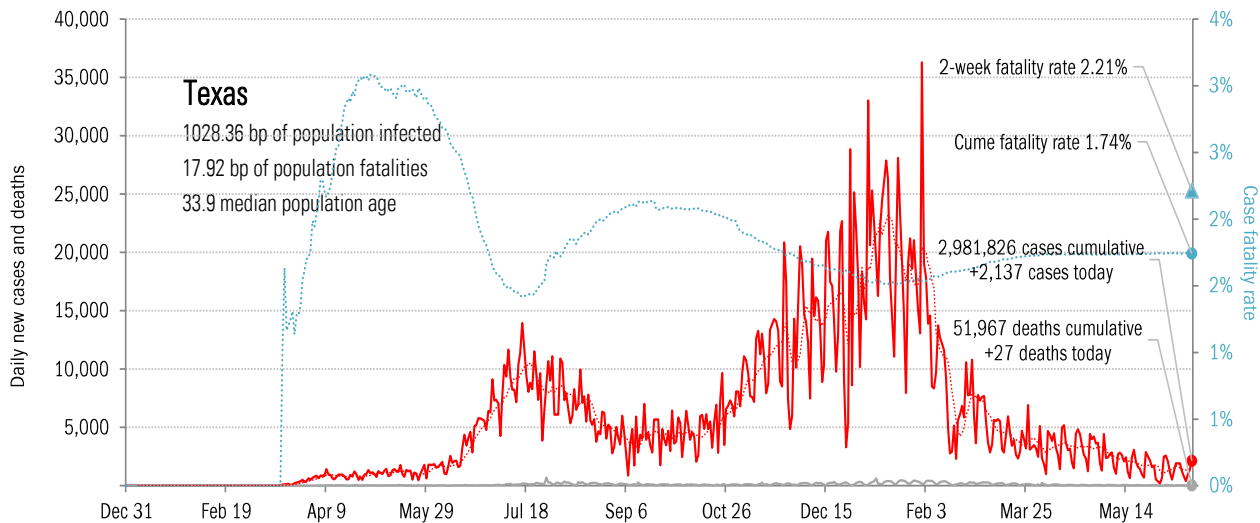
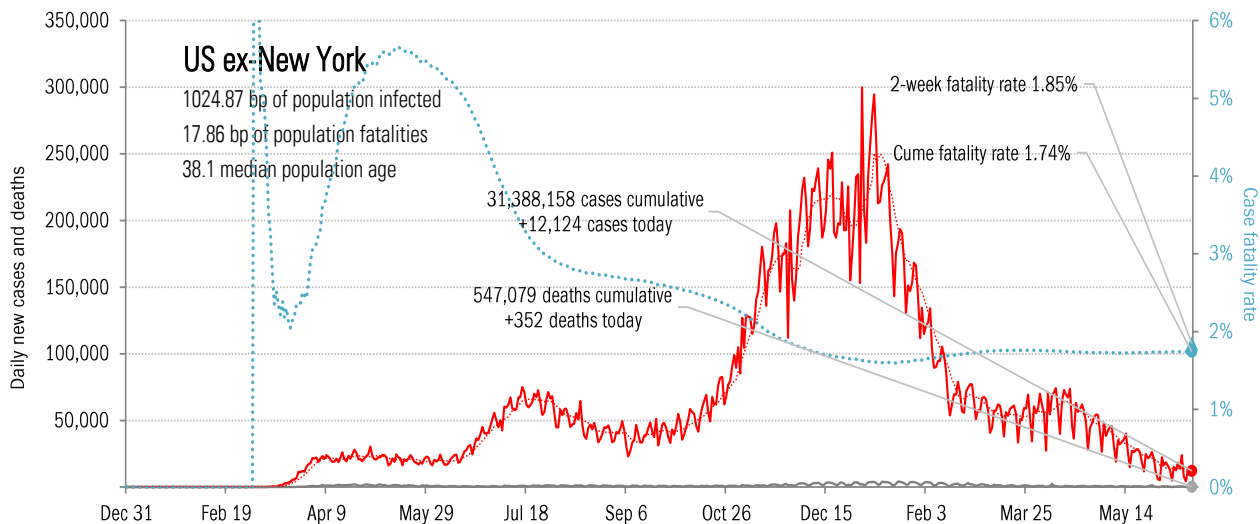
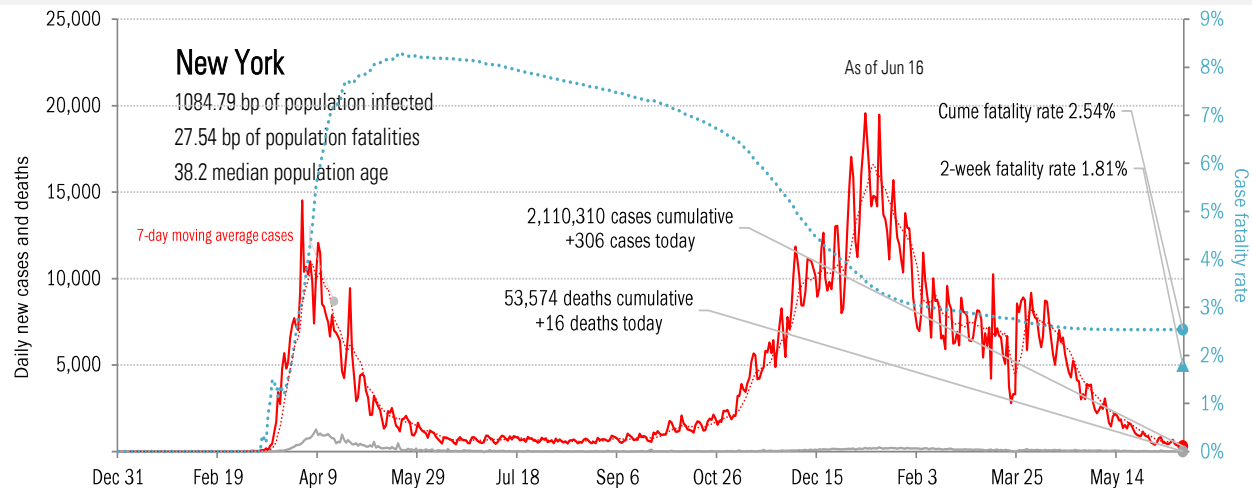
14-day moving average, last 14 days Most recent value displayed ● High ● Low

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



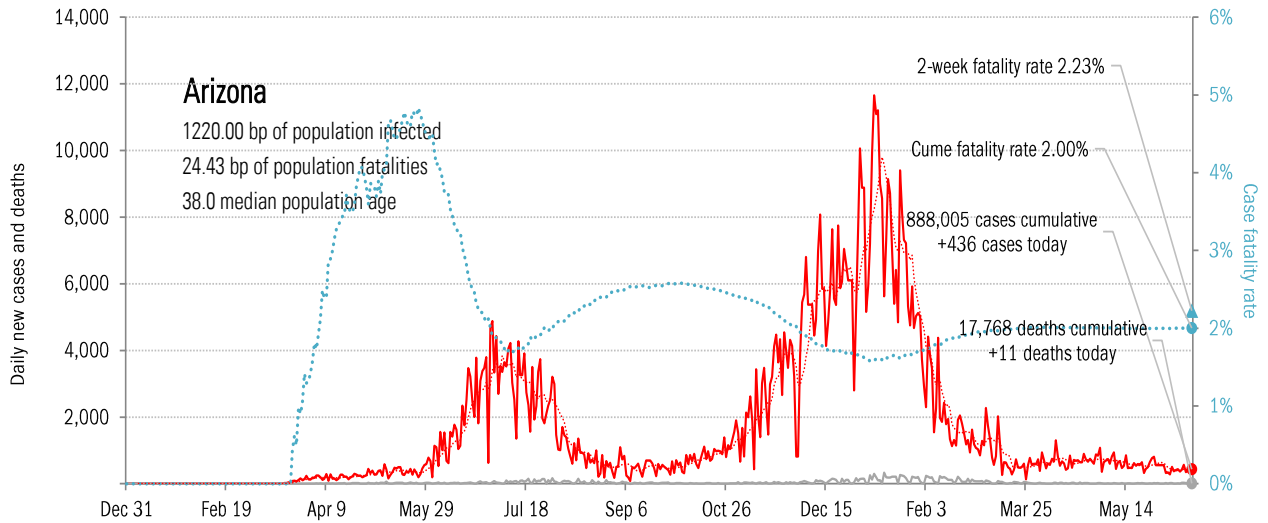
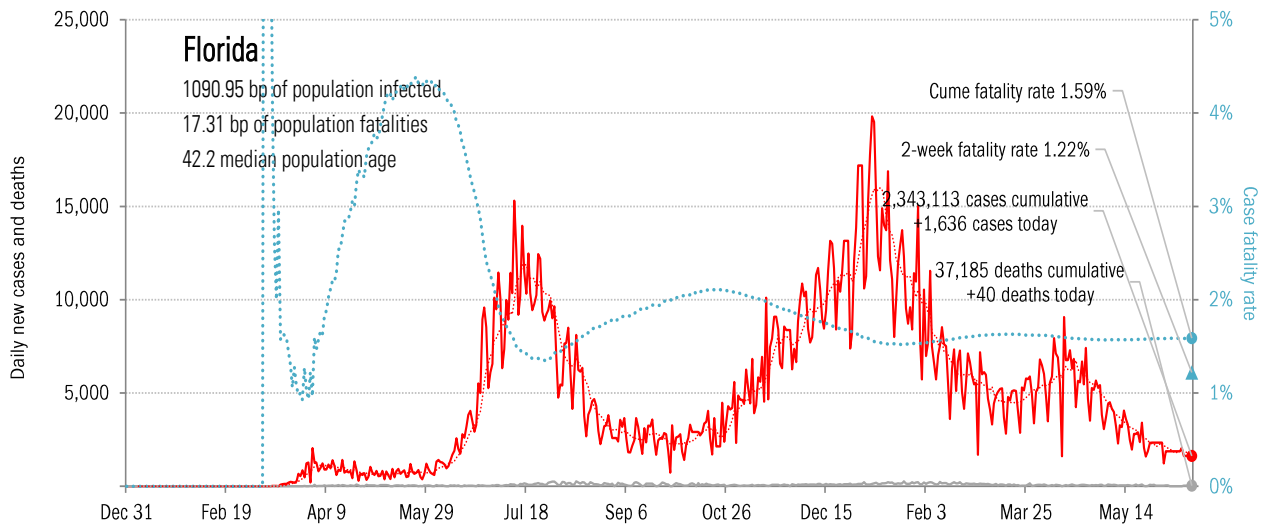
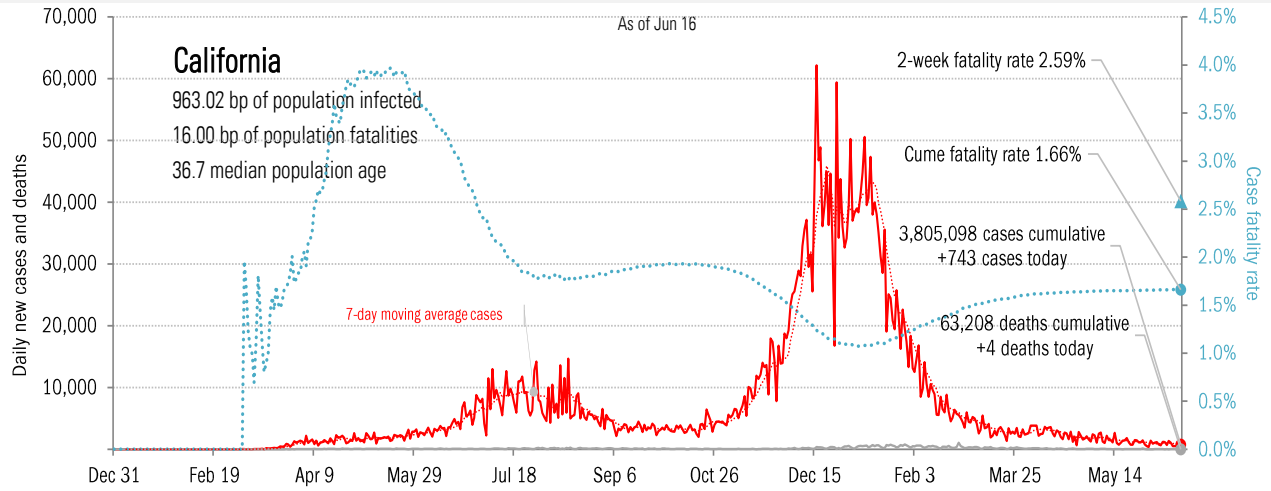
Source: [Covid Act Now](#), TrendMacro calculations

# From Ground Zero to the Rio Grande



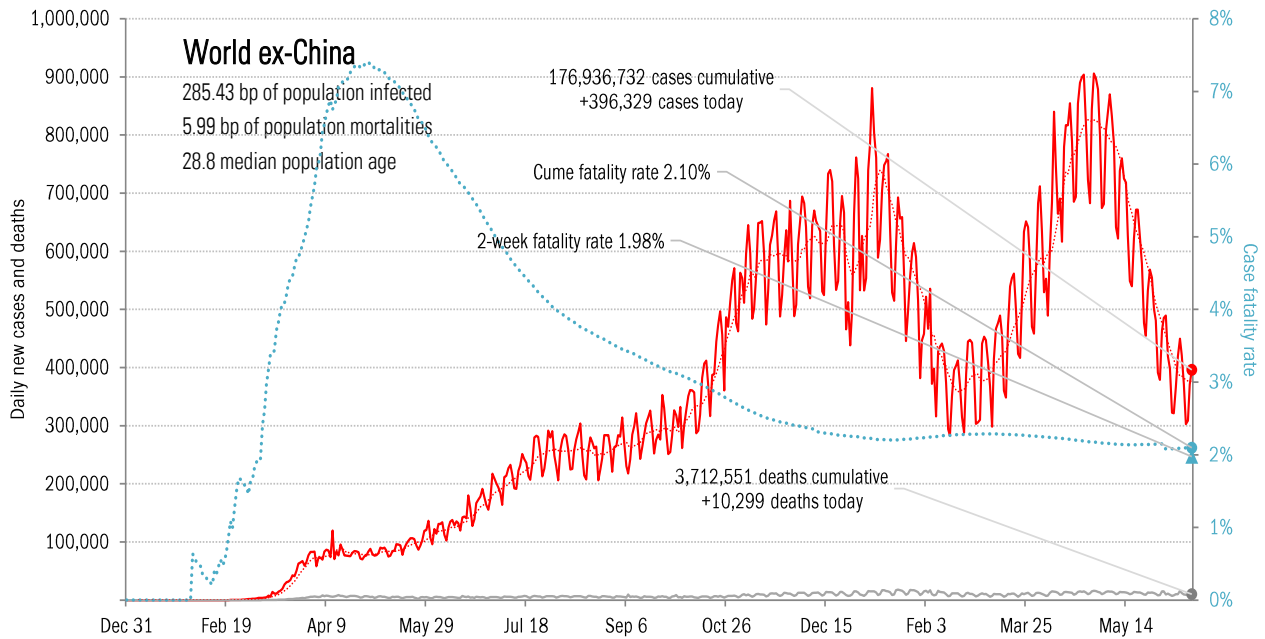
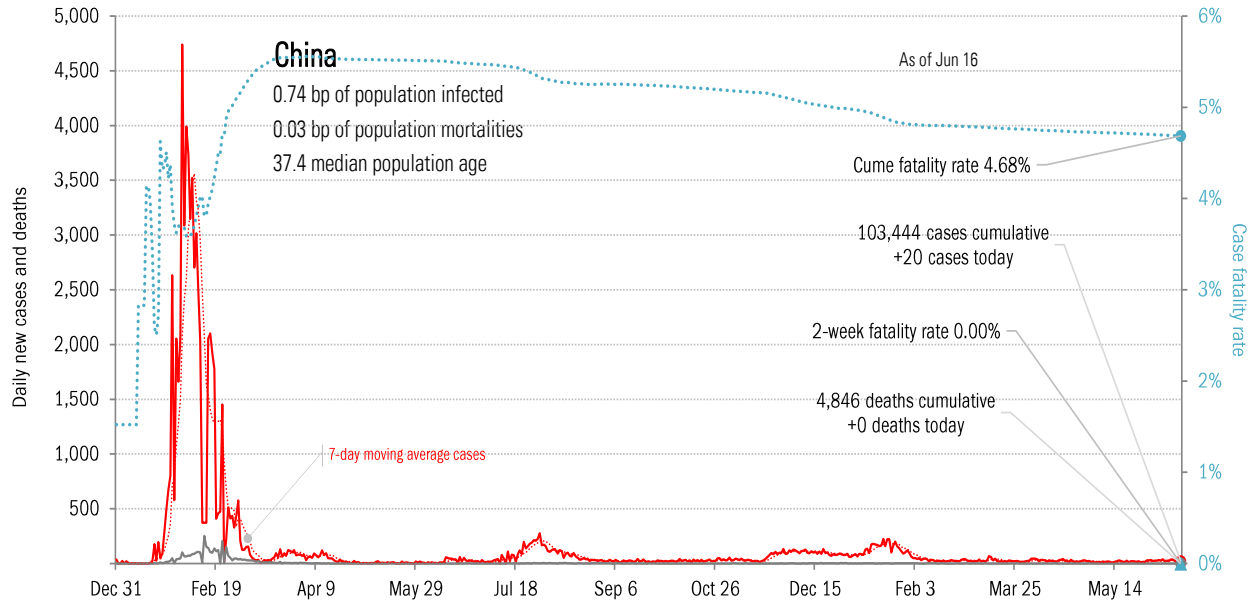
Source: [Johns Hopkins](#), TrendMacro calculations

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



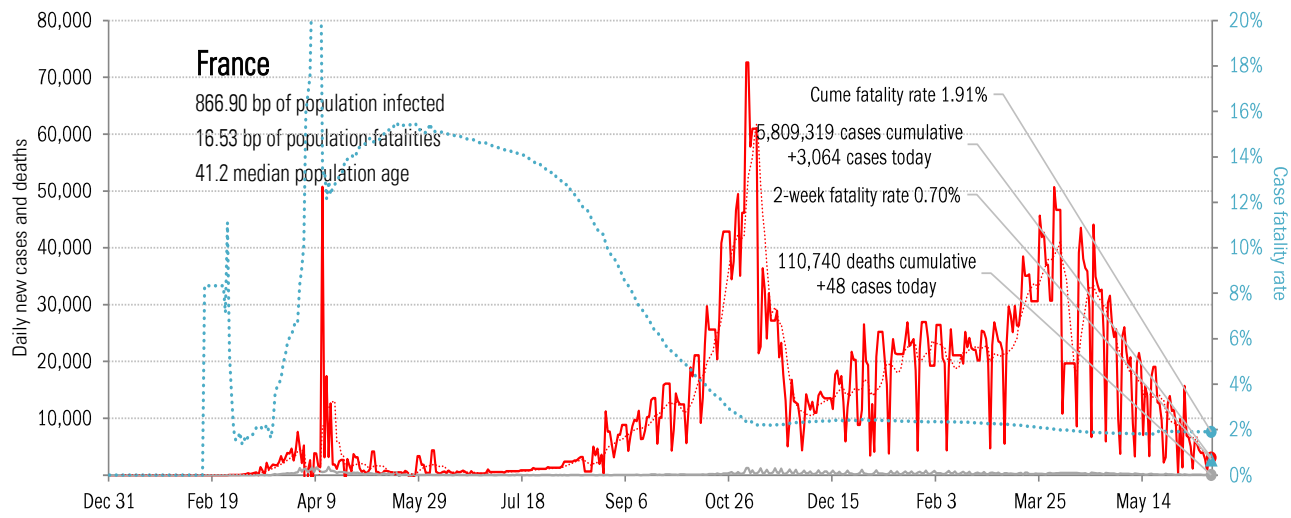
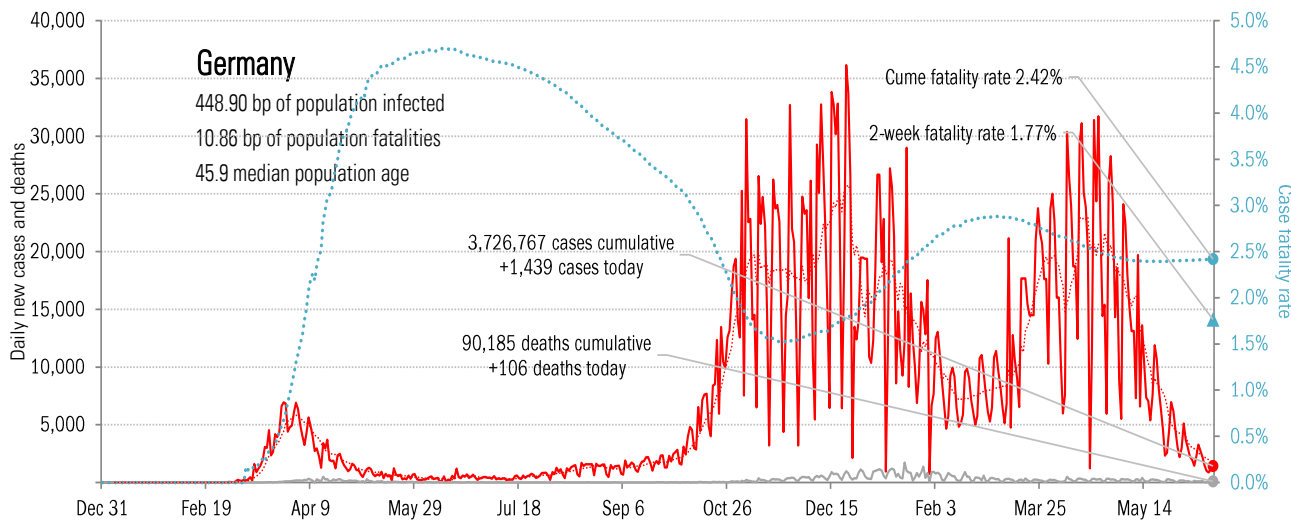
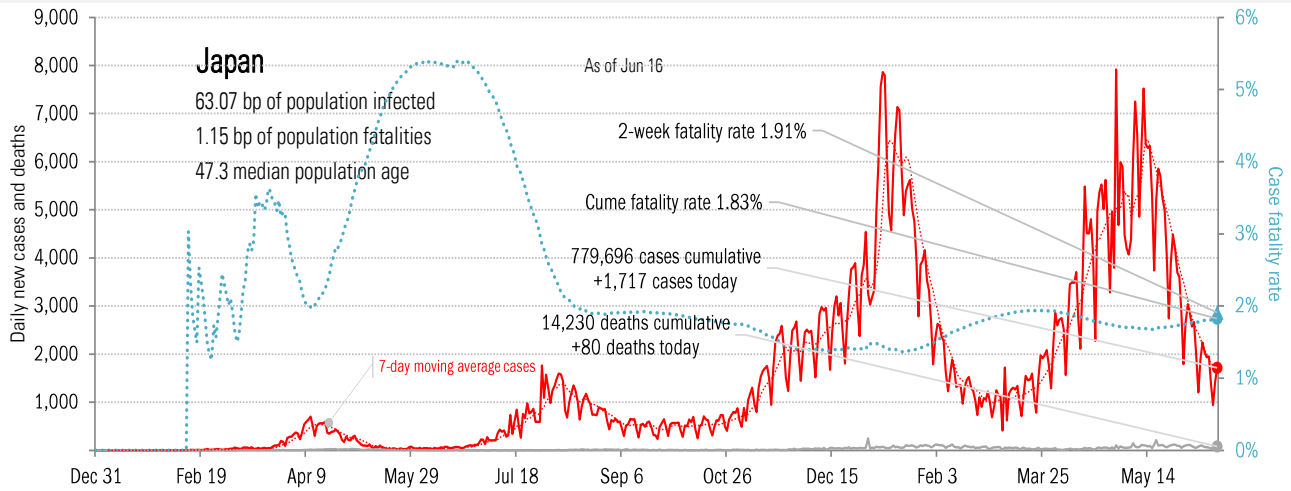
Source: [Johns Hopkins](#), TrendMacro calculations

# Patient zero... and then everyone else



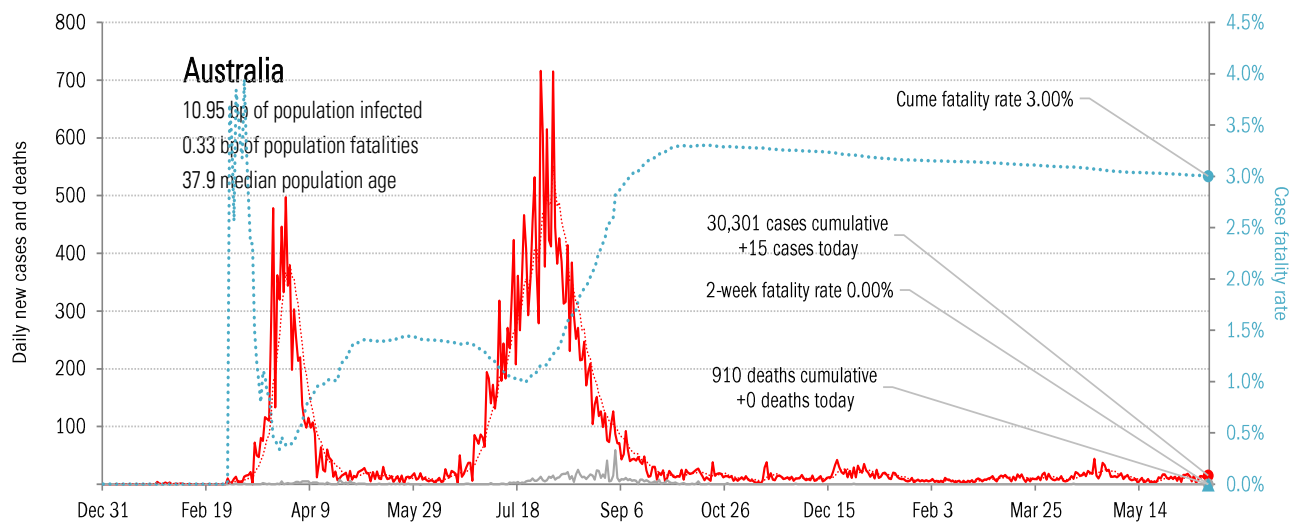
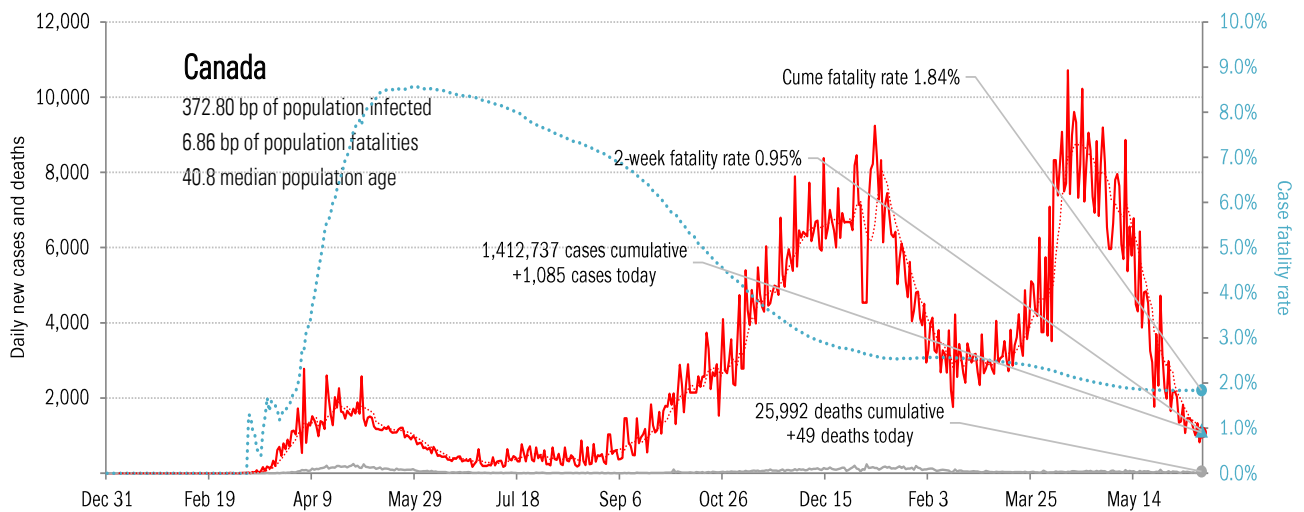
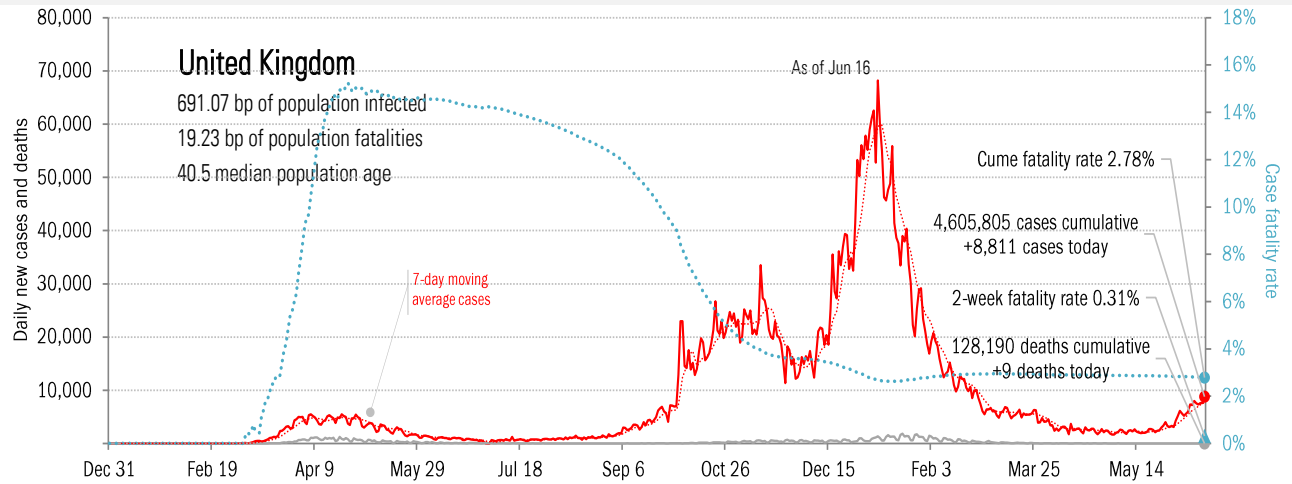
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the largest economies



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

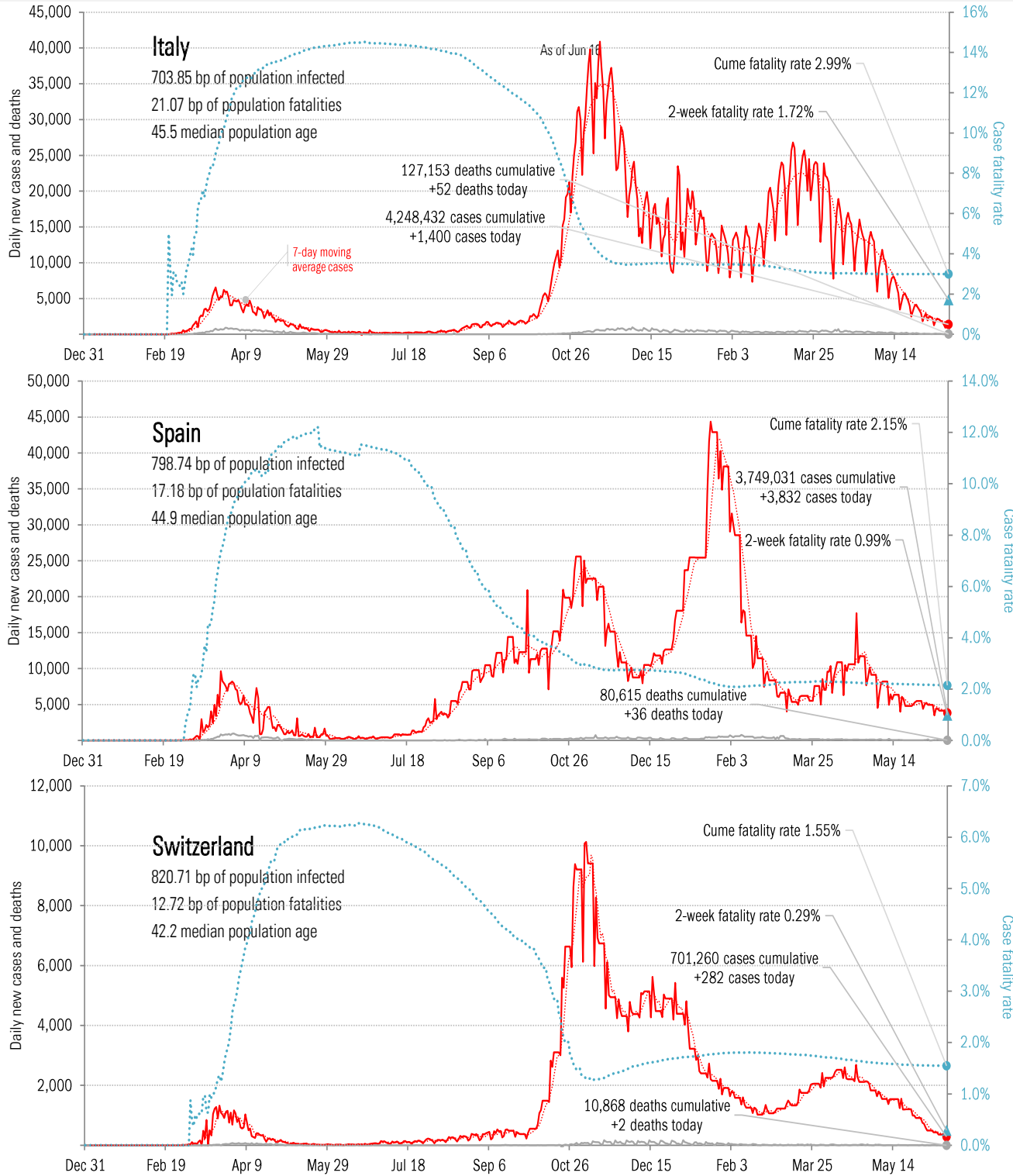
# Impact in The Anglosphere



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

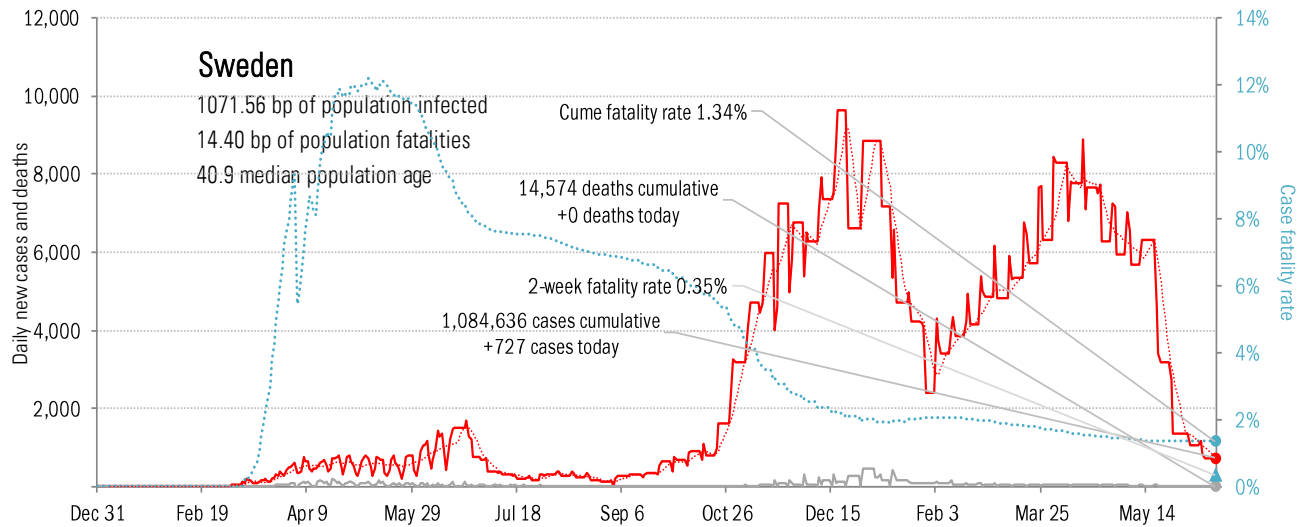
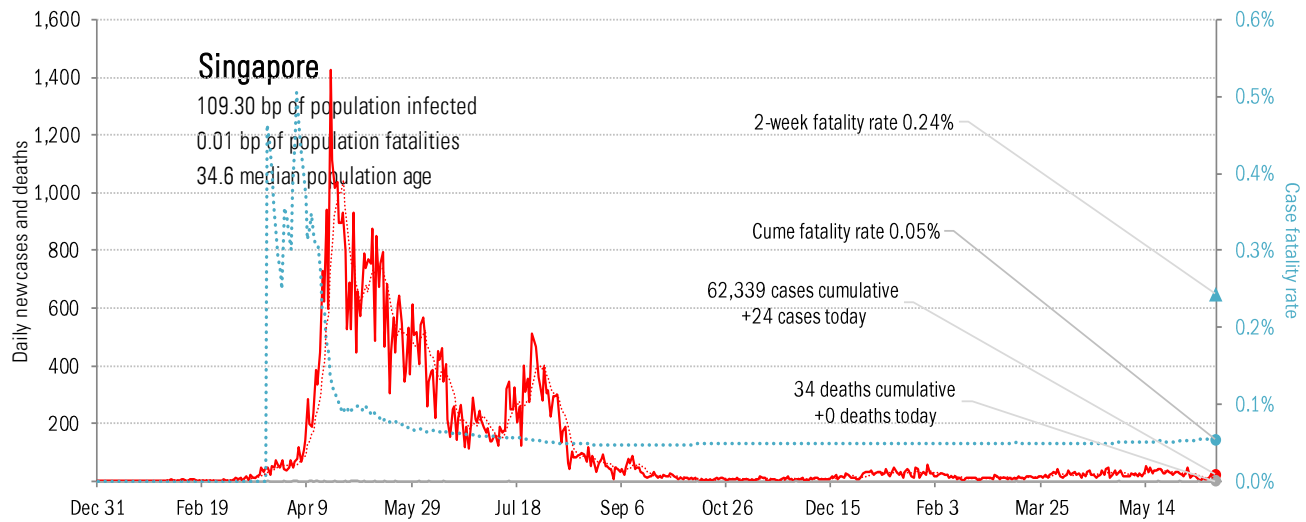
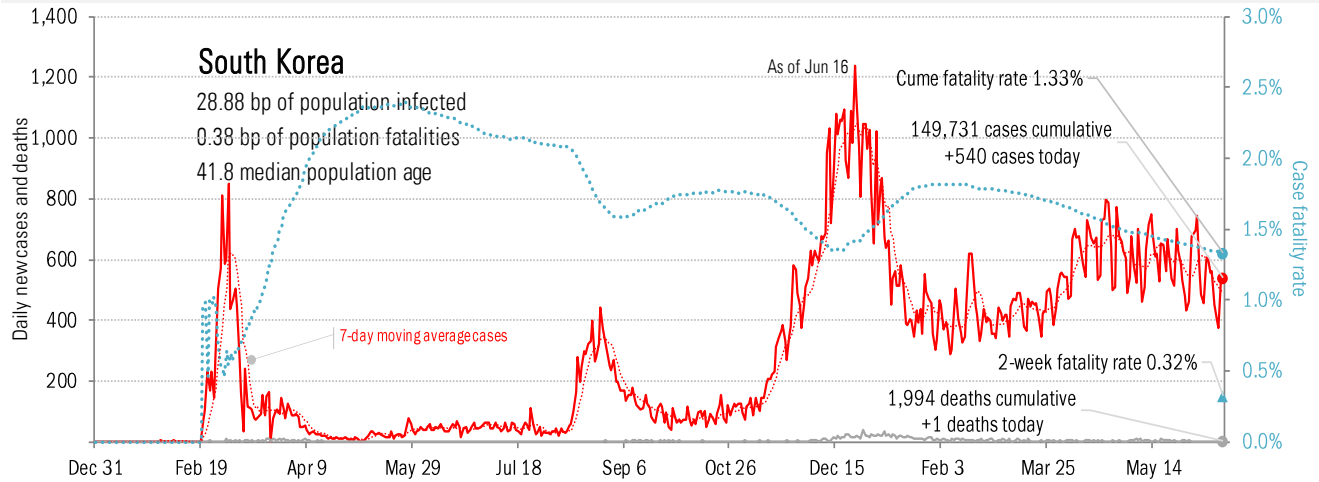


# Impact in continental Europe



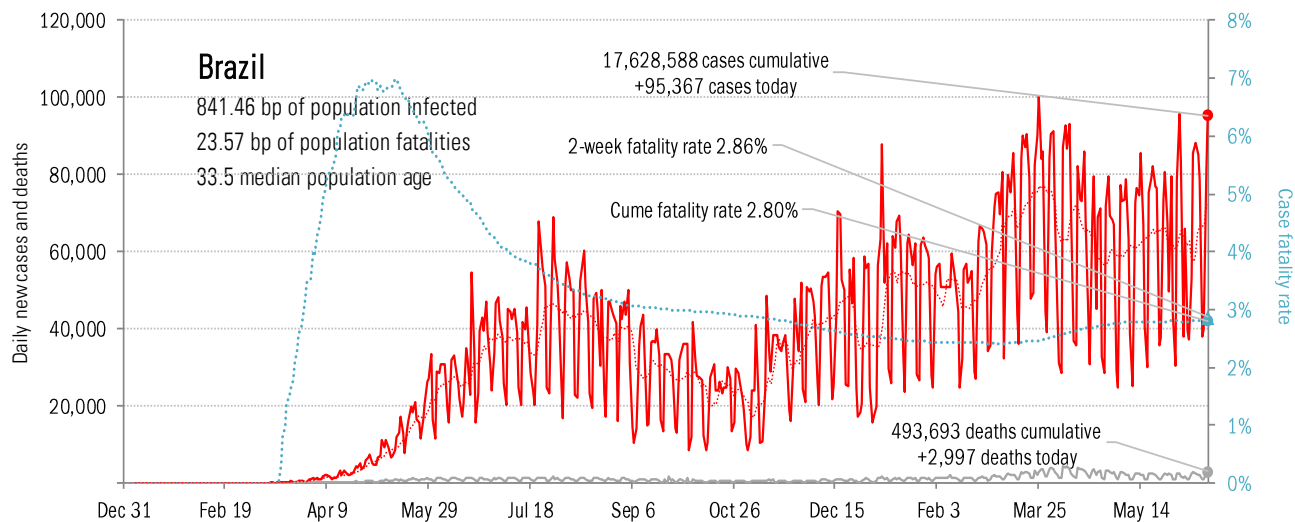
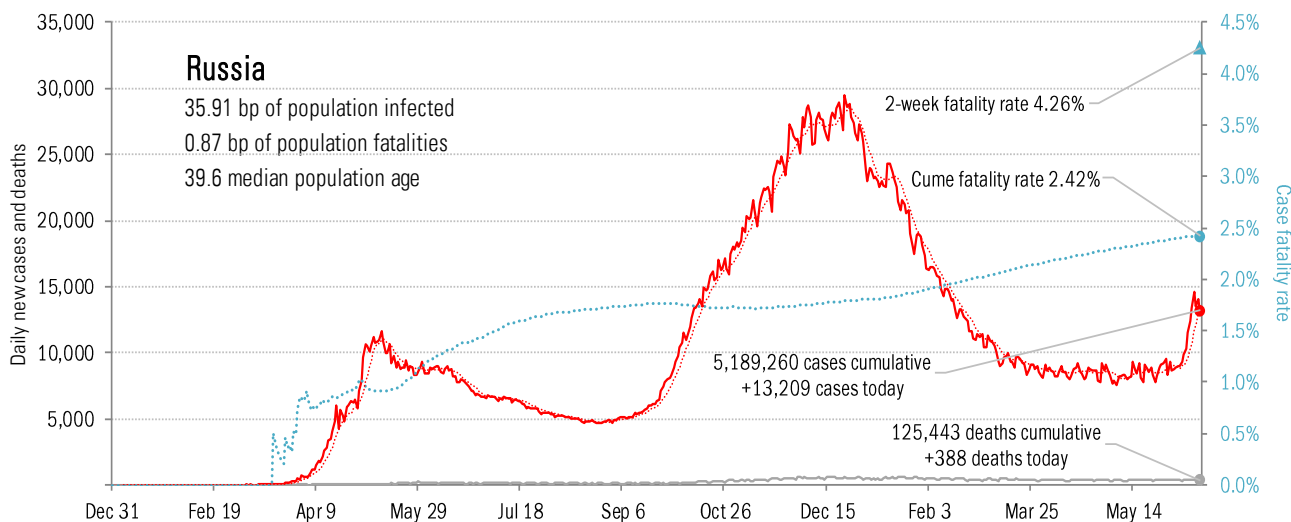
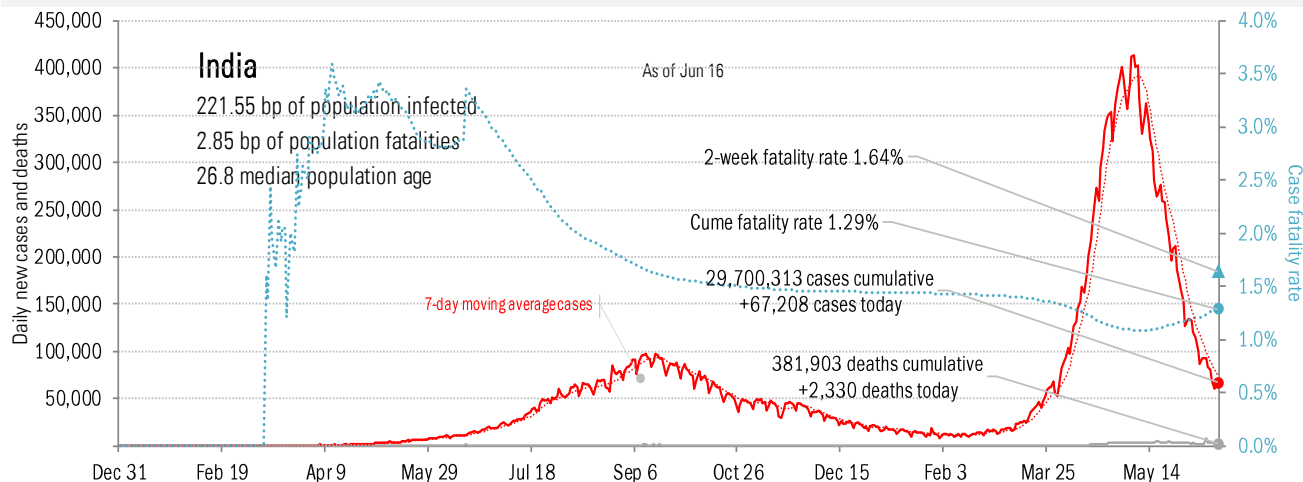
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in other hot-spots



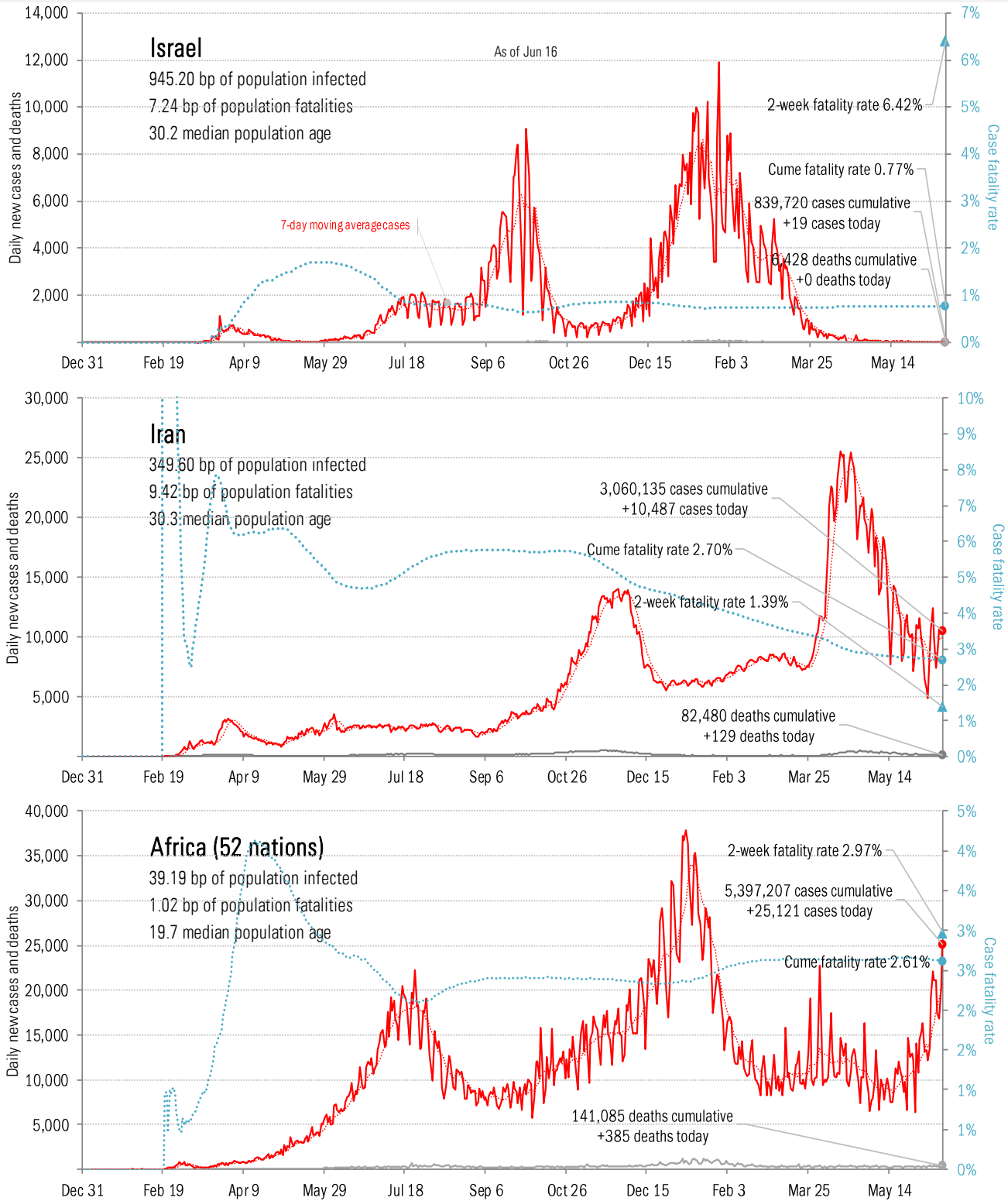
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the BRICs ex-China



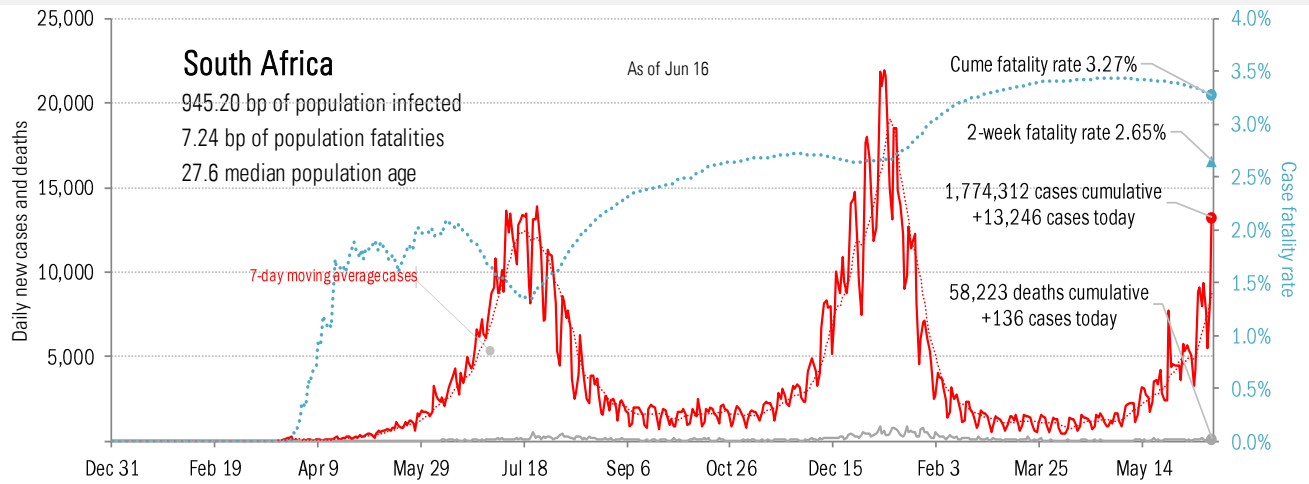
Source: [Johns Hopkins](#), TrendMacro calculations

# Impact in the Middle East and Africa



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

# Impact in Africa, continued



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