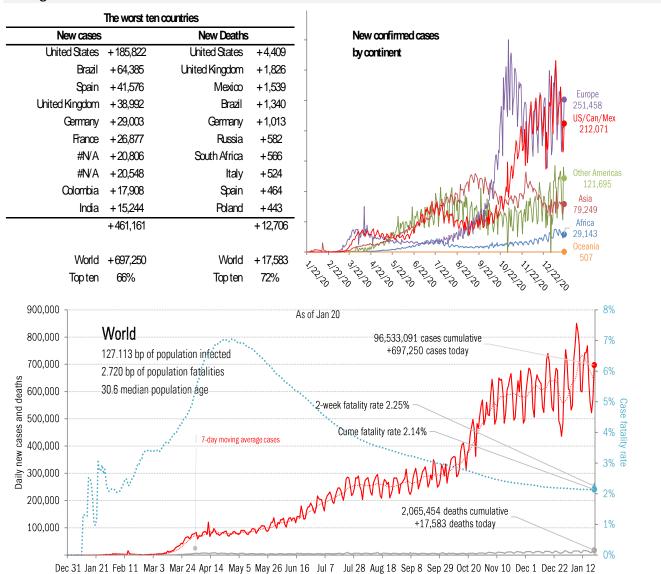


### **Data Insights: Covid-2019 Monitor**

Thursday, January 21, 2021

### The global scorecard



Source: Johns Hopkins, Covid Tracking Project, TrendMacro calculations

#### For more information contact us:

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## The US scorecard

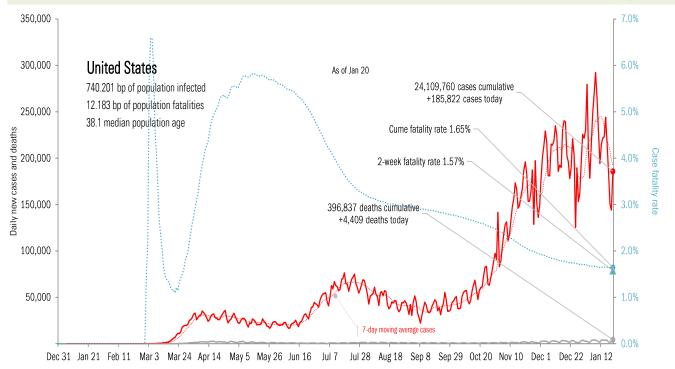
The ten worst US states

	New ca	ses	New Dea	aths	Newinh	ospital	Qume o	ases	Cume d	eaths	Cume in	hospital	Hospita	luse	IC	Uuse
	TX	+31,255	CA	+694	PA	+289	CA	3,019,371	CA	34,433	NY	89,995	R	89%	AL	94%
	CA	+22,403	TX	+450	KS	+109	TX	2,166,283	NY	33,415	FL.	69,954	SC	84%	GA	92%
	NY	+13,364	PA	+401	Н	+47	FL.	1,571,840	TX	32,844	NJ	55,007	GA	83%	СK	91%
	FL.	+11,825	AZ	+262	KY	+45	NY	1,271,451	FL.	24,965	AZ	48,207	MA	82%	CA	90%
	NC	+6,415	MO	+198	$\infty$	+41	IL	1,081,354	NJ	20,664	GA	47,311	MD	82%	TN	88%
	СH	+6,378	GA	+196	NJ	+41	СH	842,433	IL	20,285	СH	44,009	CA	82%	TX	87%
	PA	+5,984	NY	+ 191	TN	+38	PA	783,170	PA	19,868	AL	39,928	MO	81%	DE	87%
	GA	+5,724	AL	+ 157	NY	+37	GA	695,400	MI	14,770	IN	38,857	FL.	81%	NC	86%
	SC	+5,525	NJ	+152	SC	+33	TN	694,291	MA	13,829	#NA	0	CT	80%	MO	86%
	NJ	+5,438	R.	+ 145	MI	+22	NC	690,912	GA	12,778	MD	53,935	PA	80%	DC	86%
		+114,311		+2,846		+702		12,816,505		227,851		487,203				
1	All states	+185,822		+4,409		-1120	All states	24,109,760		396,837		768,006	All states	75%		79%
	Top ten	62%		65%		-63%	Top ten	53%		57%		63%	Median	73%		76%

Some states not reporting

#### Five most improved US states

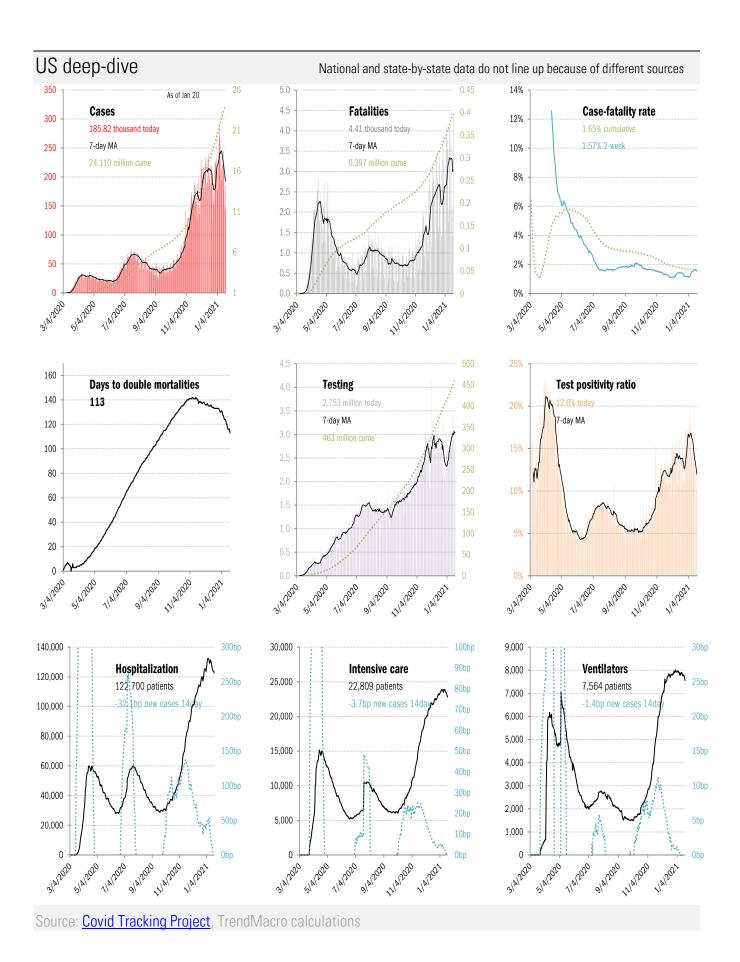
Fewer daily cases	Fewer new deaths	Fewer new hospitalizations	Most recoveries							
NC -3,445	IN -63	NY -331	TX +28,127							
AZ -1,572	WY -28	NC -160	LA +21,411							
CA -1,391	GA -26	AZ -145	PA +12,439							
NE -440	FL -18	FL -145	AL +11,250							
O -314	MD -15	AL -128	OH +9,140							



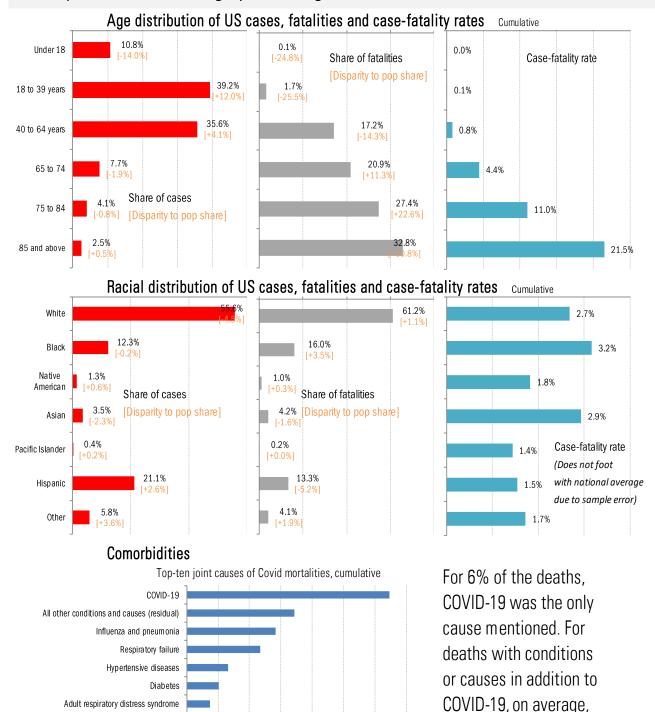
Source: Covid Tracking Project, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling	out th	ie vacci	nes in	the US								
		US overal	I						Over last	day		
		35.99 mill	ion doses	distributed	d				+4.83 million/day			
		16.53 mill	ion doses	administe	red		+0.82 million/day					
		14.27 mill	ion persor	s with one	e or more s	shot			+0.67 mill	ion/day		
		2.16 millio	· ·						+0.14 mill	ion/day		
		1.91 millio	-						+0.16 mill	•		
	45.9% of distributed doses administered											
	5.0% of US population vaccinated											
	4.4% of US population one shot Moderna											
		0.7% of L	JS populat	ion two sl	nots		·	44%				
								Р	fizer/BioNTe	ch		
									56%			
		Sta	ate									
			stributed									
			pulation	Best								
AK			received	Middle							ME	
20.6%			pulation	Middle							11.6%	
7.8%			s received	Worst							4.8%	
1.5%		as % dis	stributed			WI	1			VT	0.8% NH	
						9.2%				12.2%	10.7%	
						3.3%				5.5%	5.0%	
ı	WA	I In	MT	ND	MN	0.5%	MI	1	NY	1.0% MA	0.6%	
	10.6%	ID 9.3%	10.4%	10.3%	10.6%	IL 8.6%	10.3%		10.6%	10.7%		
	3.8%	3.3%	4.5%	6.3%	3.7%	3.4%	4.4%		4.8%	4.2%		
	0.7%	0.6%	0.9%	1.2%	0.8%	0.9%	0.7%		0.5%	0.6%		
	OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
	10.2%	9.0%	10.8%	10.8%	9.2%	11.0%	9.6%	9.6%	10.1%	12.1%	11.6%	
	4.6%	2.9%	4.5%	5.9%	4.2%	4.4%	3.9%	3.8%	4.3%	6.0%	4.3%	
	0.6% CA	0.6% UT	0.6% CO	1.1% <b>NE</b>	0.4% M0	0.9% <b>KY</b>	0.3% WV	0.7% VA	0.6% MD	0.7% DE	1.0%	
	10.6%	10.0%	11.0%	12.3%	9.3%	9.9%	12.9%	11.3%	10.4%	10.3%		
	3.2%	5.0%	5.0%	4.7%	3.2%	4.7%	7.4%	3.6%	3.9%	4.0%		
	0.7%	0.5%	0.9%	0.7%	0.8%	0.3%	1.4%	0.4%	0.4%	0.7%		
<del>-</del>		AZ	NM	KS	AR	TN	NC	SC	DC		-	
		10.3%	10.8%	9.1%	11.1%	9.9%	10.7%	8.5%	10.7%			
		3.4%	5.5%	3.6%	4.8%	4.5%	3.5%	3.1%	5.8%			
		0.5%	1.2%	0.6% OK	0.9% <b>LA</b>	0.8% MS	0.6% AL	0.6% GA	1.5%			
				11.5%	10.4%	10.3%	9.9%	10.1%				
				5.5%	4.9%	3.8%	2.5%	3.4%				
				0.8%	0.8%	0.3%	0.4%	0.3%				
HI				TX					FL		PR	
10.9%				8.8%					11.9%		9.8%	
4.1%				4.4%		As of Jan 20			5.2%		3.5%	
1.0%				0.6%		5 51 Juli 20			0.5%		0.7%	

Source:  $\underline{\text{CDC}}$ , TrendMacro calculations



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



Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Ischemic heart disease

Vascular and unspecified dementia

As of Jan 10

Cardiac arrest

Sepsis

 $50,000\ 100,000\ 150,000\ 200,000\ 250,000\ 300,000\ 350,000$ 

there were 2.9

causes per death.

additional conditions or

### Recommended reading

#### No, You Can't Try an Impeached Former President

Alan M. Dershowitz Wall Street Journal January 20, 2021

#### Jab and move: Europe's vaccine rollout

*The Economist* January 21, 2021

# Switzerland will hold a referendum on whether to strip the government of its power to impose lockdown measures

Ross Ibbetson *Daily Mail* January 15, 2021

## Wuhan mayor to step down, a year after he came under fire over coronavirus response

William Zheng South China Morning Post January 20, 2021

#### Biden Destroys Restaurants to Save Them

Michael Saltsman Wall Street Journal January 19, 2021

## <u>Vaccine Shortage Puts Americans on the Road in Search of Shots</u>

Amanda L Gordon, Shelly Banjo, and Henry Goldman *Bloomberg*January 20, 2021

## <u>Pfizer, BioNTech say vaccine likely as effective</u> against COVID-19 variant first found in UK

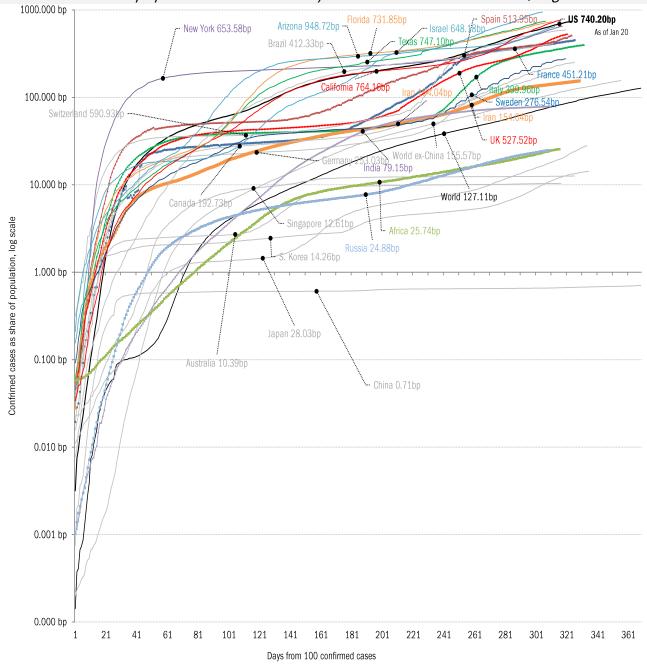
Justine Coleman The Hill January 20, 2021

## Meme of day

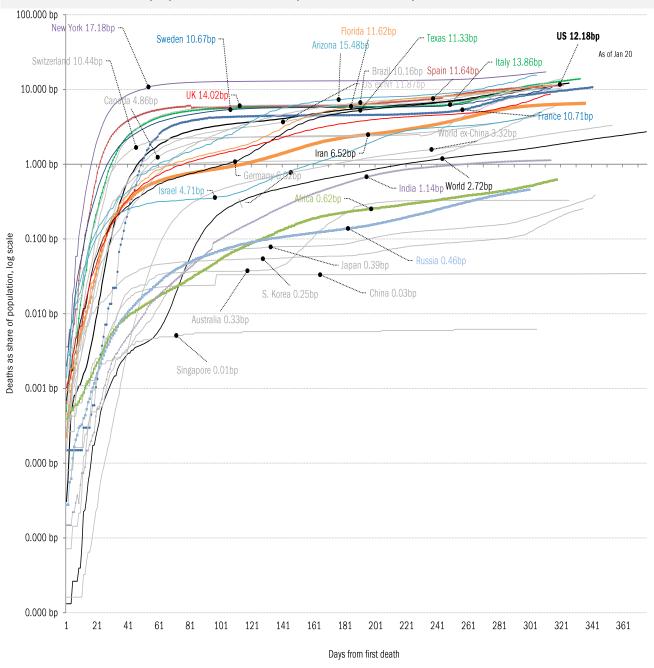


Source: Our beloved clients, and Power Line blog "The Week in Pictures"

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



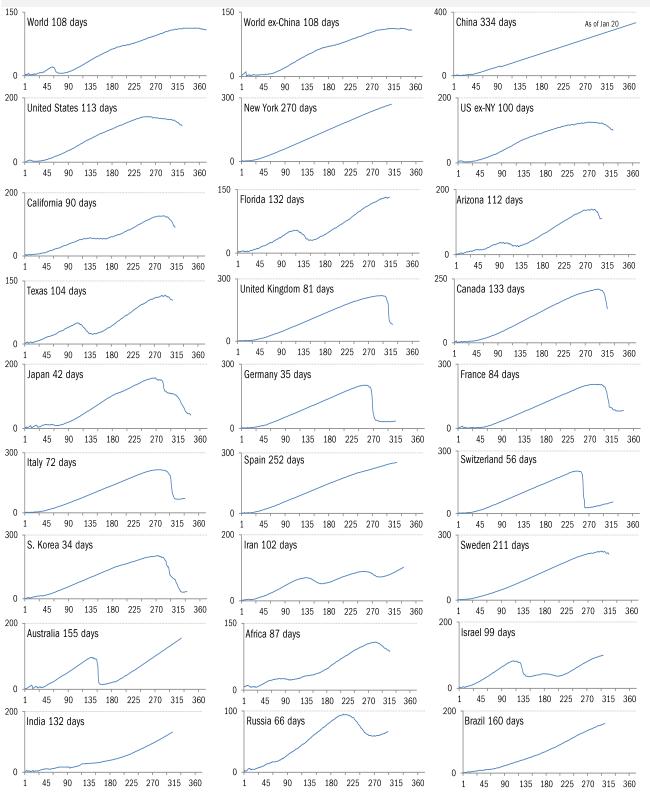
## The coronavirus <u>mortality</u> accelerometer ... tracking the world's fatality curves *Share of deceased population from day of first fatality*



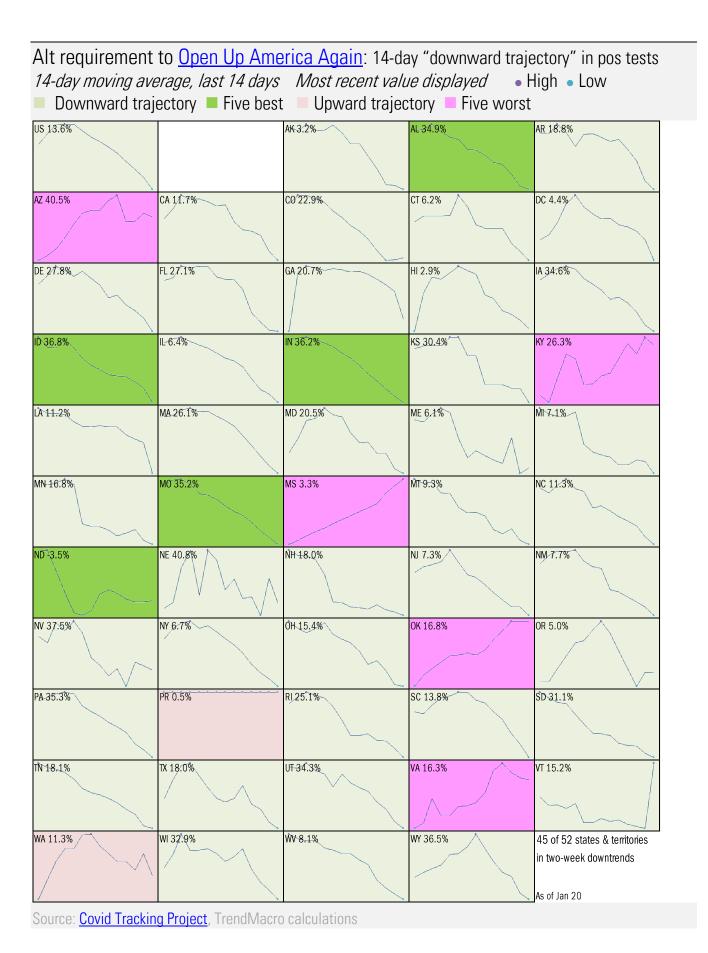
## "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

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

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



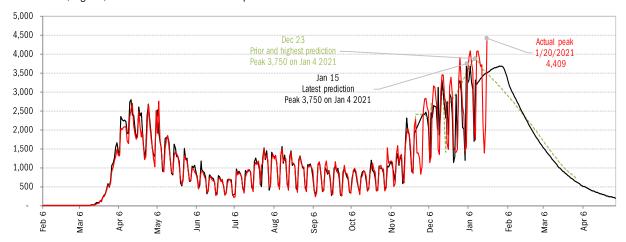




## Reality-checking the models: actuals versus **IHME** predictions

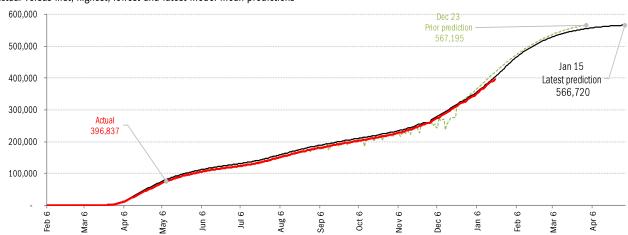
New daily fatalities
As of Jan 20

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

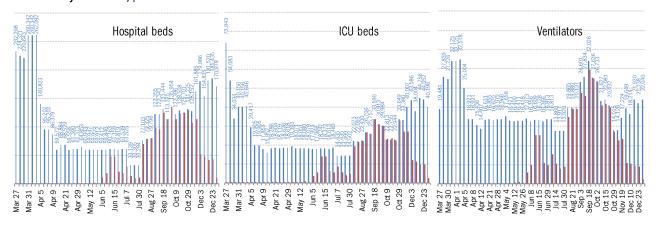


#### **Cumulative fatalities**

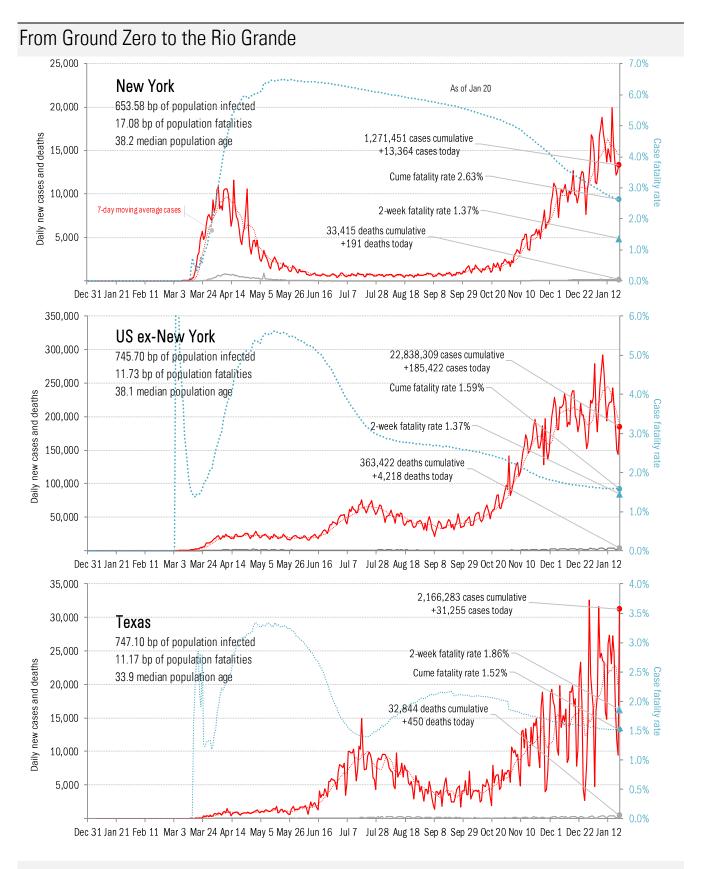
Actual versus first, highest, lowest and latest model mean predictions



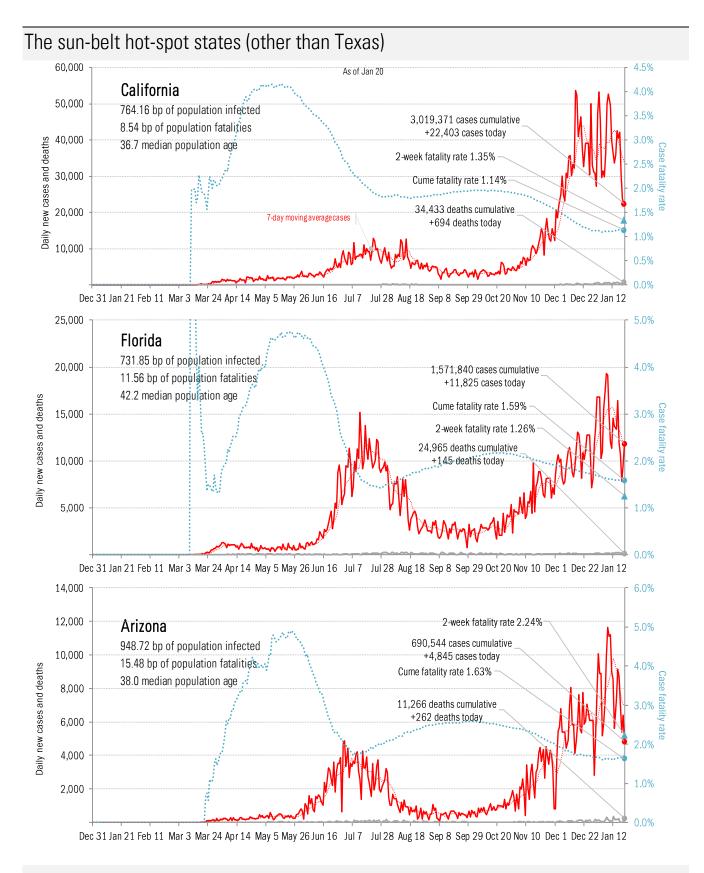
#### Healthcare system stress, peak and ultimate estimated at each model revision



Source: IHME, Covid Tracking Project, TrendMacro calculations



Source: Covid Tracking Project,, TrendMacro calculations



Source: Covid Tracking Project,, TrendMacro calculations

