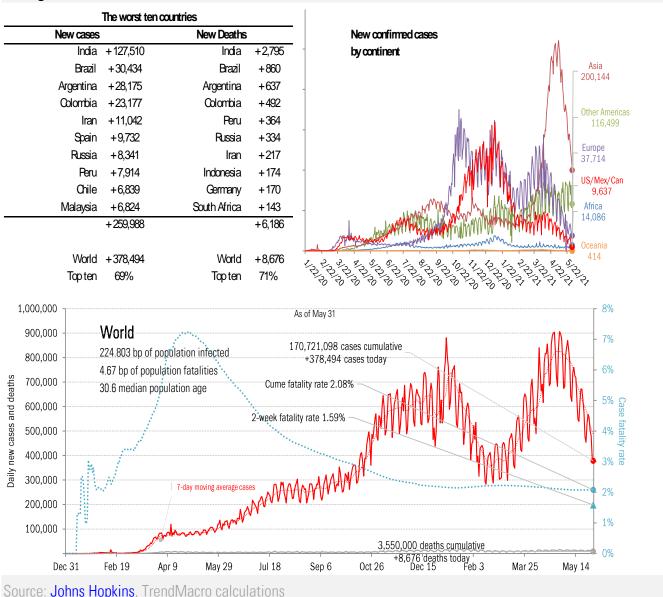


Data Insights: Covid-2019 Monitor

Tuesday, June 1, 2021

The global scorecard



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The US scorecard

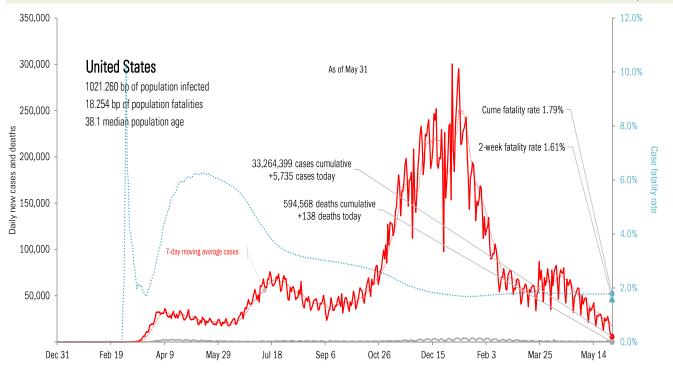
The ten worst US states

Ne	New cases		New Deaths		New in hospital		Oume cases		Oume deaths		Cume in hospital		Hospital use		ICU use	
	ΑZ	+984	IL	+38	LA	+67	CA	3,789,572	CA	63,249	TX	247,997	R	92%	ME	17%
	NY	+529	WI	+26	Н	+65	TX	2,953,409	NY	53,303	CA	235,981	MA	84%	WA	15%
	IL	+522	NY	+18	GA	+37	FL.	2,320,818	TX	51,508	FL.	179,681	MO	81%	MI	14%
	WI	+417	VA	+13	MO	+22	NY	2,102,404	FL.	36,774	NY	134,248	PA	81%	∞	13%
	CA	+345	MD	+7	FL.	+12	IL	1,382,101	PA	27,201	GA	106,566	MD	80%	WV	13%
	PA	+307	MS	+6	SC	+9	PA	1,203,685	NJ	26,212	PA	89,851	GA	79%	ID	13%
1	MS	+306	NJ	+5	MS	+8	GA	1,123,841	IL	25,223	СH	85,751	MI	79%	MO	12%
	∞	+285	PA	+5	NM	+5	СH	1,101,934	GA	20,837	IL	80,728	SC	79%	WY	11%
	GA	+237	PR	+4	MT	+4	NJ	1,016,332	MI	20,376	KY	75,247	DC	79%	NM	11%
	C R	+215	SC	+4	AR	+3	NC	1,001,154	СH	19,861	MI	71,646	CT	78%	MS	11%
		+4,147		+126		+232		17,995,250		344,544		1,307,696				
All sta	ates	+5,735		+138		-219	All states	33,264,399		594,568		2,328,539	All states	70%		67%
Top	ten	72%		91%		-106%	Top ten	54%		58%		56%	Median	71%		8%

Some states not reporting

Five most improved US states

······································										
Fewer daily cases		Fewer new dea	ths	Fewer new hosp	pitalizations	Most pop immunuit	Most pop immunuity growth			
СH	-377	TX	-11	IN	-85	VT +	73 bp			
IN	-358	CA	-9	L	-79	MP +	55 bp			
NY	-291	MN	-8	CA	-66	OR +	19 bp			
MN	-279	IN	-5	TX	-63	MA +	18 bp			
TX	-200	Φ	-4	OK	-50	PR +	16 bp			



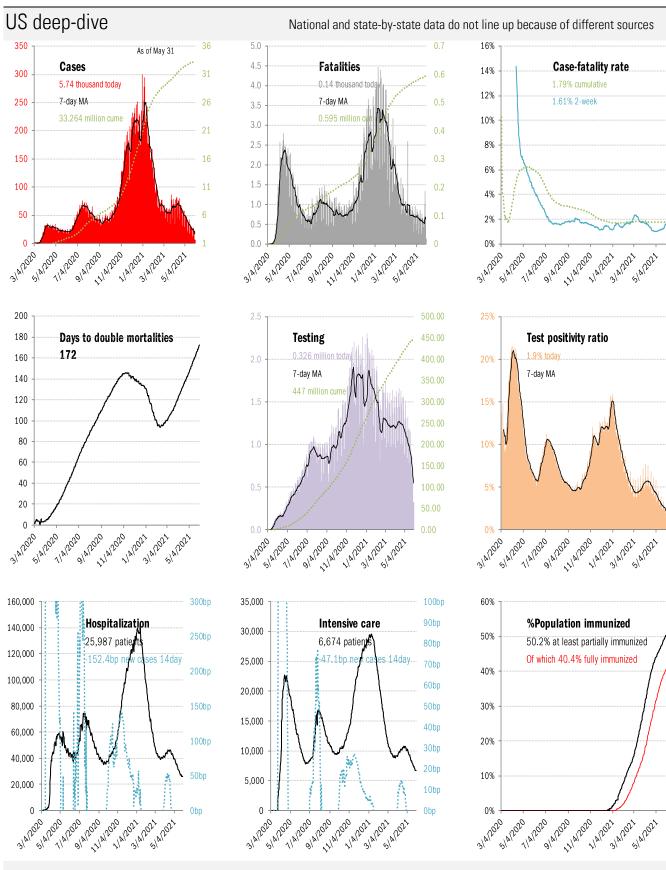
Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

Rolling out the vaccines in the US and the world												
US overall	, out th		tal	110 00	dila ti	10 11011	u	To	day	Immunity	Full	Partial
Doses distr	ributed		78,798,785						million	US	40.4%	50.2%
Doses administered			304,040,191					+1.241 million		UK	37.6%	58.0%
Administered		One dose		% Pop II		nune	% рор	New immune today			16.4%	37.7%
Total population		172,220,626		•		38,996,245			million	Spain	19.7%	38.6%
Age 12 to 17		6,122,542		24%		2,253,690	9%	+0.038	million	Germany	17.4%	43.2%
Age 18 to 64		117,444,597		58%		94,339,460	46%	+0.563 million		ltaly	20.0%	38.9%
Age 65 and over		48,577,471		89%	89% 42,394,12		78%	+0.076	million	Australia	2.0%	14.7%
	l&J									Israel	59.3%	63.0%
4	4%					At today's		ace,		Canada	5.5%	57.7%
				_		every Ame	erican >18 immune in		in	Japan	2.7%	7.7%
Moderna	Pfizer	C+	ate	141 days by Oct 19, 2021						Africa	0.6%	1.8%
42%	54%	Sti	ale							India	3.1%	12.1%
	31,0	Immunities	distributed							Brazil	10.4%	21.4%
		as % pop	oulation**	65.4% of population >18 immunized						Global data differ		timing -
AK		At least part	tial immunity	D						China NA	ME	
59.1%			pulation	79.4% vs 60% adult herd immur					munity*		70.3%	
46.1%		Full im	ımunity	NA:-	141-					_	63.1%	
39.3%	as % po	pulation	Mic	1016	-					54.4%		
				107	WI				VT	НИ		
			Worst 53.7%						76.0%	68.1%		
			51.0%						70.2%	59.7%		
						44.5%		_		55.4%	48.5%	
	WA	ID	MT	ND	MN	IL	MI		NY	MA		
	61.7%	47.8%	54.0%	47.5%	58.8%	59.1%	59.4%		61.4%	70.7%		
	56.5%	37.6%	45.2%	42.2%	54.3%	54.8%	48.7%		55.7%	66.2%		
	46.4%	32.7%	38.3%	36.6%	46.0%	40.0%	42.1%		46.7%	53.4%		
	OR	NV	WY	SD	IA	IN	OH	PA	NJ	СТ	RI	
	66.9%	50.0%	46.6%	56.2%	55.7%	50.9%	53.9%	62.9%	65.1%	67.3%	71.8%	
	54.8%	45.5%	37.0%	48.2%	49.2%	41.8%	45.8%	58.3%	60.2%	63.1%	60.8%	
	45.1%	36.8%	31.8%	42.4%	43.7%	35.4%	40.2%	43.5%	48.7%	53.4%	51.5%	
	CA	UT	CO	NE	M0	KY	WV	VA	MD	DE		
	63.3%	51.0%	61.7%	54.6%	50.7%	51.3%	54.3%	60.5%	69.2%	66.2%		
	56.7%	44.9%	54.1%	48.2%	42.2%	46.4%	40.6%	55.2%	57.2%	54.6%		
	43.0%	32.0%	45.2%	42.1%	34.3%	38.4%	34.0%	45.0%	47.7%	43.2%		
		AZ	NM	KS	AR	TN	NC	SC	DC			
		56.6%	57.5%	54.1%	48.8%	47.2%	57.2%	52.4%	76.8%			
		46.2%	57.8%	46.8%	39.5%	39.1%	43.4%	40.8%	57.0%			
		35.9%	47.8%	38.4%	31.2%	31.7%	36.1%	33.7%	46.2%			
				OK	LA	MS	AL	GA				
				52.5%	44.5%	46.4%	49.5%	53.4%				
				41.5%	35.7%	34.0%	36.0%	39.0%				
HI				33.7%	31.2%	27.1%	29.2%	31.1%	Е	1 [PR	
			TX				FL 50.00/					
67.8% 66.5%				55.6%				59.0%		63.4%		
47.6%									49.0%		50.8%	
47.0%				35.4% As of May 31					38.9%	J L	37.1%	

^{*} Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

Source: CDC, CDC, Our World in Data, TrendMacro calculations

 $[\]begin{tabular}{ll} ** One dose of Pfizer/Moderna counts as half an immunity, one dose of J\&J as a full immunity \\ \end{tabular}$

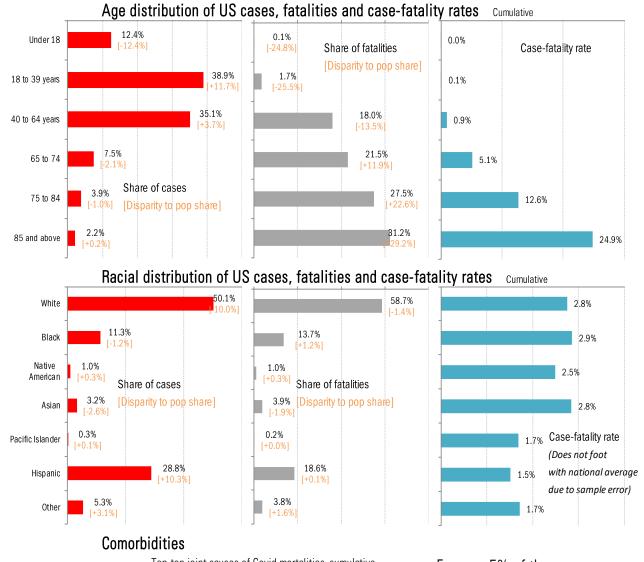


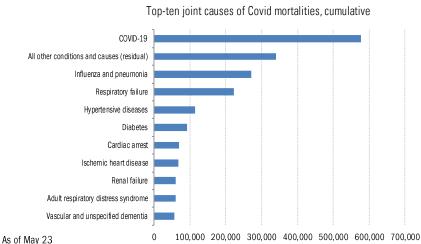
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

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

Updates weekly on Sundays

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.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

Recommended reading

Stopping Racial Bias in Covid Relief

Wall Street Journal May 30, 2021

<u>Brazil's Experiment to Vaccinate Town With Chinese</u> CoronaVac Reduced Covid-19 Deaths by 95%

Samantha Pearson Wall Street Journal May 31, 2021 The Pandemic in the U.S. Has Vastly Improved. For These Families, the Worst Has Just Begun.

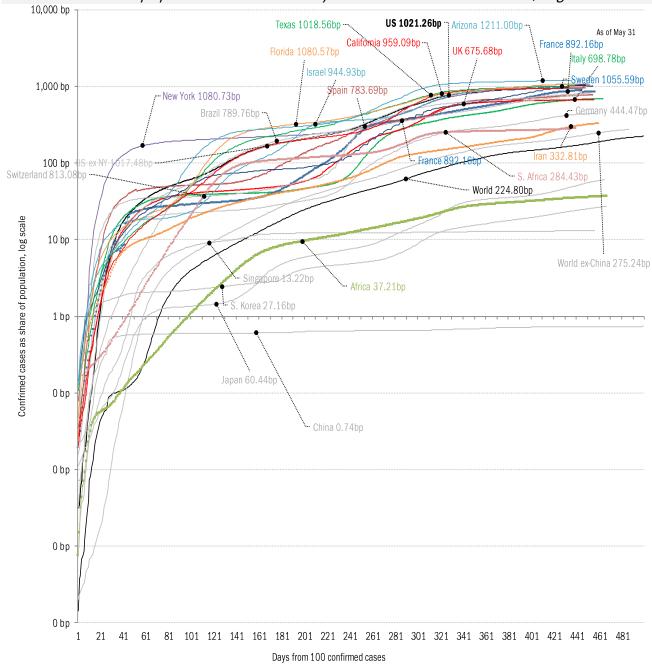
Sarah Mervosh New York Times May 31, 2021

Meme of the day

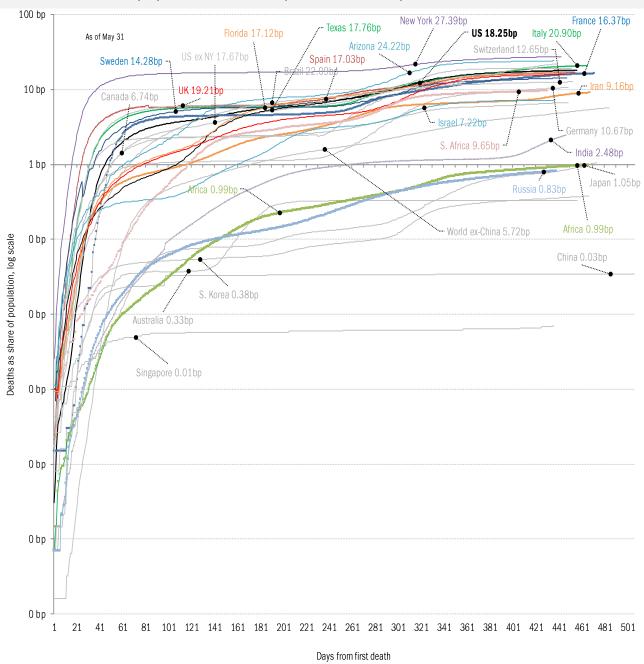


Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

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



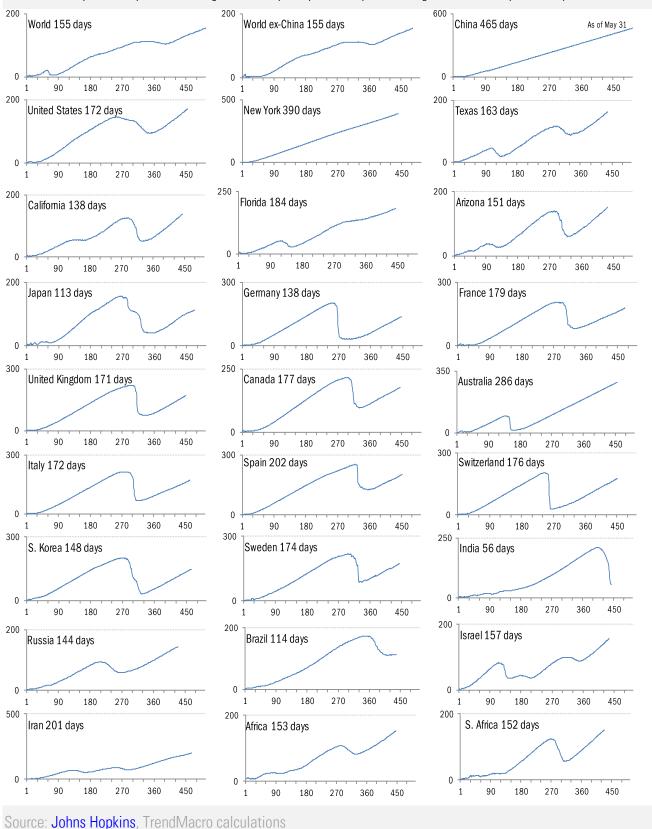
The coronavirus <u>mortality</u> accelerometer ... tracking the world's fatality curves *Share of deceased population from day of first fatality*



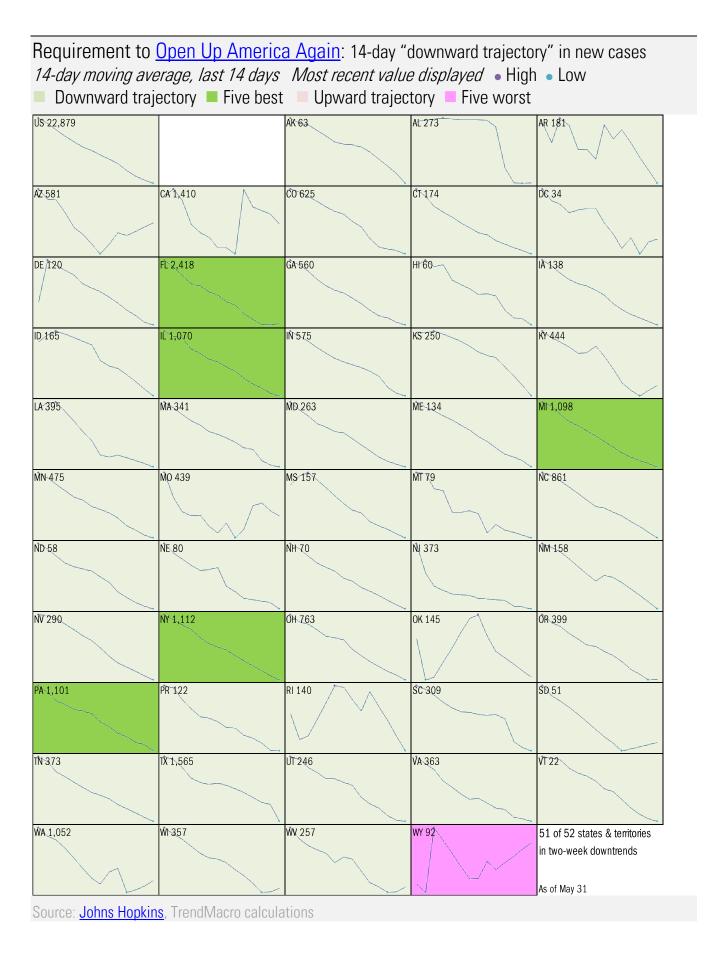
"Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

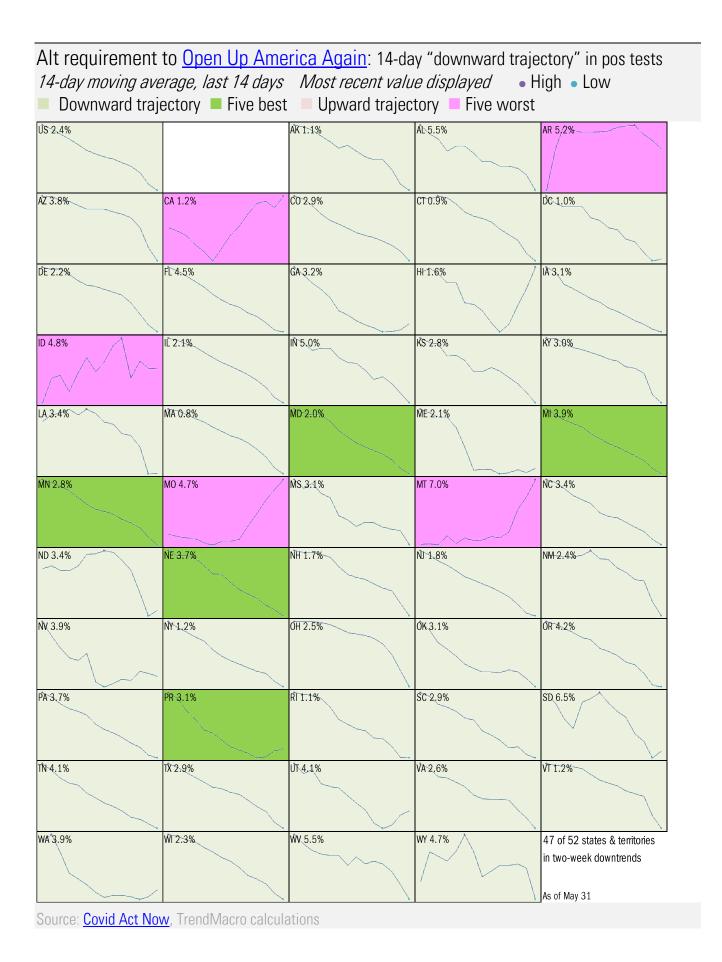
Vertical: days to double deaths Horizontal: days from first death

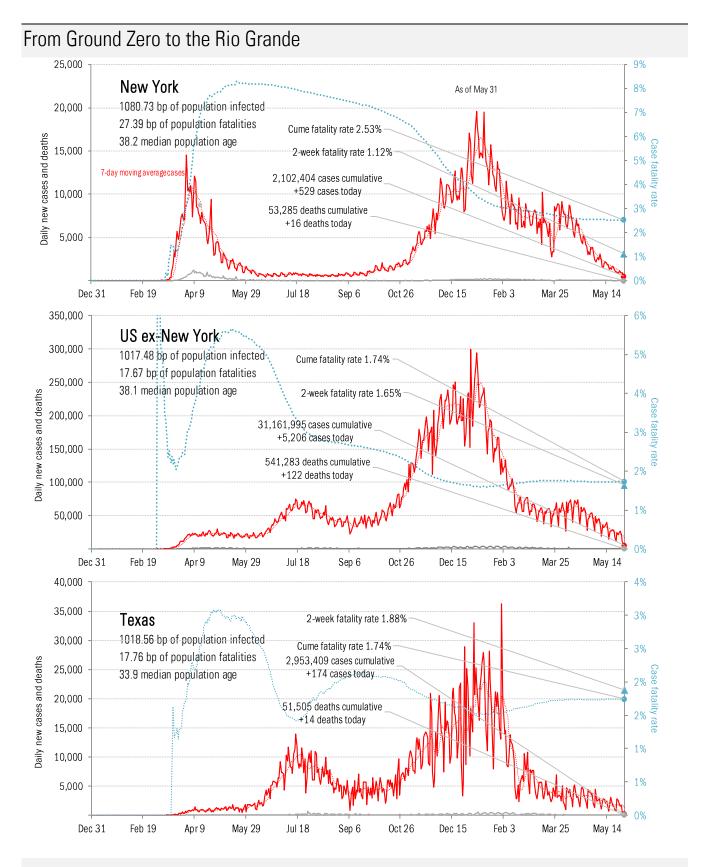
Flat indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

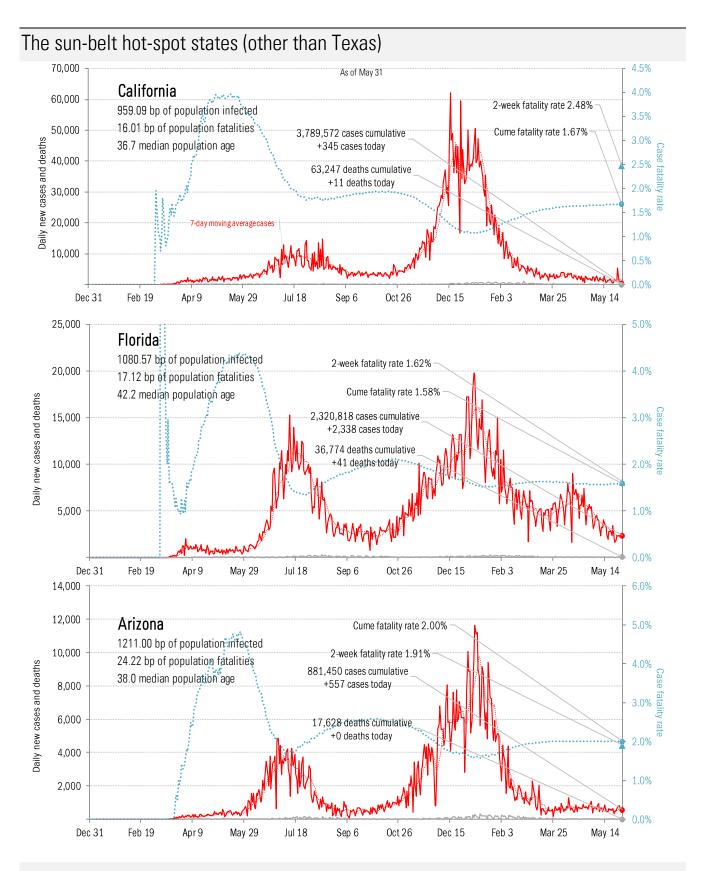


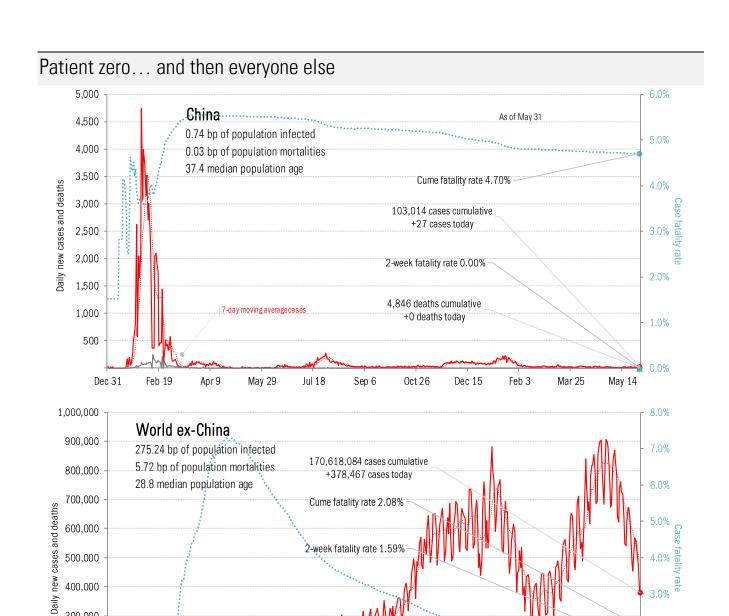
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May 29

Jul 18

Sep 6

Oct 26

Feb 19

400,000

300,000

200,000

100,000

Dec 31

3,545,154 deaths cumulative +8,676 deaths today

Dec 15

Feb 3

Mar 25

2.0%

1.0%

0.0%

May 14

