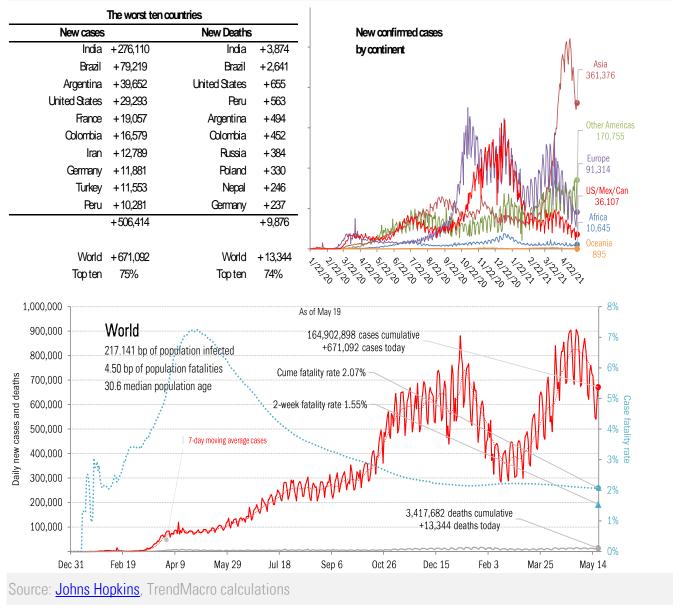


Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

### Data Insights: Covid-2019 Monitor

Thursday, May 20, 2021

### The global scorecard



### For more information contact us: Donald Luskin: 312 273 6766 don@trendmacro.com

Thomas Demas: 704 552 3625 tdemas@trendmacro.com

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# The US scorecard

						The te	en worst US	states							
New cases		New Deaths		New in hospital		Cume cases		Quime deaths		Ourne in hospital		Hospita	Hospital use		lse
R.	+2,811	TX	+69	MN	+28	CA	3,772,702	CA	62,765	TX	244,459	R	92%	MI 23	3%
TX	+2,022	PA	+46	NV	+11	TX	2,936,614	NY	53,044	CA	233,543	MA	83%	00 17	7%
MI	+1,950	R.	+44	W	+11	Æ	2,299,596	TX	51,081	R.	175,123	MD	82%	MD 15	5%
IL	+1,625	OK	+40	AL	+8	NY	2,089,698	R.	36,271	NY	132,106	PA	81%	MN 15	5%
CA	+1,462	CA	+38	UT	+7	IL	1,370,247	PA	26,874	GA	104,915	MO	80%	WA 14	4%
NY	+1,337	GA	+37	NC	+6	PA	1,190,969	NJ	26,030	PA	87,812	CT	79%	ME 14	4%
ω	+1,245	IL	+34	R	+5	GA	1,117,475	IL	24,864	СН	83,908	R.	78%	WV 14	4%
PA	+1,056	MI	+32	AZ	+4	СН	1,093,534	GA	20,569	IL	78,829	DC	78%	MO 13	3%
NC	+969	NJ	+32	ME	+3	NJ	1,012,196	MI	19,931	KY	74,032	GA	78%	ND 12	2%
ан	+918	NC	+27	MS	+3	NC	993,547	СН	19,628	MI	69,526	MN	78%	GA 12	<u>2</u> %
	+ 15,395		+ 399		+86		17,876,578		341,057		1,284,253				_
	-,						,,		- ,		, - ,				
All states	+29,293		+655		-531	All states	33,026,624		587,874		2,302,479	All states	70%	67	7%
Topten	53%		61%		-16%	Topten	54%		58%		56%	Median			9%
TOP TOP	0070		0170		1070	iop ton	01/0			ne states r	ot reporting	Integration	12/0	,	570
						Evo mos	t improved (	IS state		10 510105 11	orroporting				
Four	aily cases			E	ewer new d		imployed		s ew hospita	lizations		Mostin	n imm	nuity gro	wth
	-			R	ewernew o MC			rewern	-			wos p	-		
TX	-1,070									156			NH	+222 bp	
PA	-585				MI					-71			MD	+78 bp	
MS	-351				FL.					-70			NJ	+51 bp	
NJ	-202				IN					-36			VA	+51 bp	
NY	-188				MS	-10			KS	-28			PA	+50 bp	
350,000 ר														г 12.0%	
300,000 -	Unit	ed Stat	es				As of May 19			- L.				- 10.0%	
		960 bp of p		infoctad			710 01 may 10							- 10.0%	
		3 bp of pop													
250,000 -						Cume fatality ra	ate 1.78% —								
	38.1 1	nedian pop	ulation age	3					۸۸					- 8.0%	
200,000 -						2-week fatal	ity rate 1.20%	$\sim$							C
200,000 -										VIII	À				Case
					Sec.	33,026,624 cas		_			Δ.			- 6.0%	fatal
150,000 -			/		a second	+29,293 ca	ises today				NA –				tality rate
150,000 -			1		$\sim 10^{-1}$										ate
			11				ths cumulative	~ 1						- 4.0%	
100,000 -			7-	day moving ave	erage cases	+000 de	aths today				$\langle \rangle$			- 4.0%	
100,000						· · · · · · · · · · · · · · · · · · ·					M				
			1.			AAA .			·		_   <b>X</b> A				
		- N	1		۸.	p M.	المسيم	\ <b>/</b>	Sector Sector	·····	<u> </u>	MAILU	M.	2.0%	
50.000 -					<b>/</b> *	' ''W	∿₩₩₩	V				<u>- un u</u>	THE A		
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Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

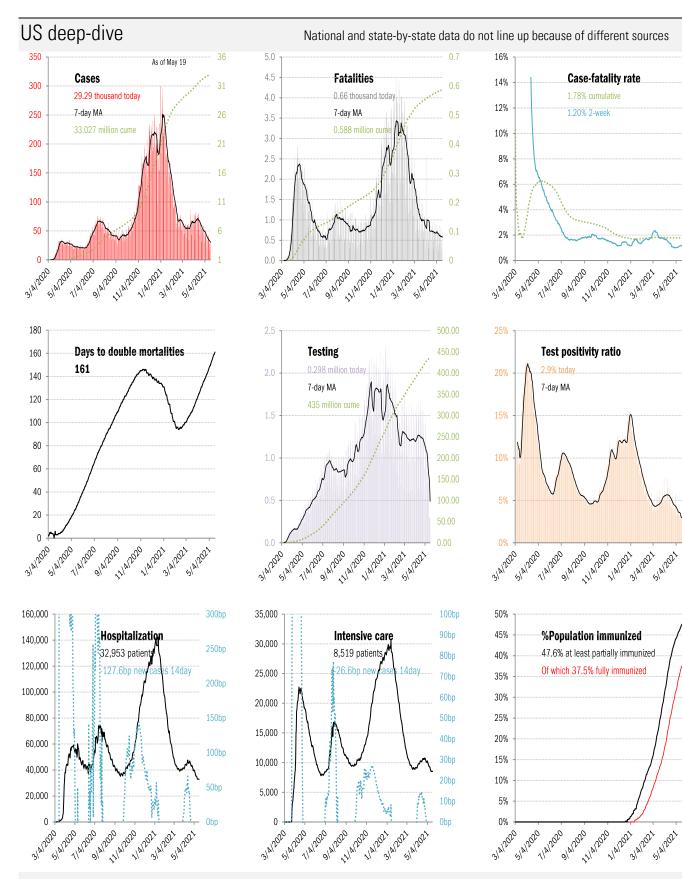
	uut ui	e vacci	ines in	the US	o and tr	ie wori	a					
US overall Total								To	day	Immunity	Full	Partial
Doses distril	buted	361,560,865						+2.555	million	US	37.5%	47.6%
Doses admir	Doses administered 286,104,3							+1.782	million	UK	30.7%	54.5%
Administere	ed	One	dose	% Pop	Imn	nune	% рор	New immune today		France	13.8%	31.3%
Total popula	Total population		63,535,885	49%	1:	29,220,604	39%	+1.011 million		Spain	16.0%	33.7%
Age 12 to 17	Age 12 to 17		3,791,911			1,702,146	7%	+0.061 million		Germany	11.8%	37.9%
Age 18 to 64	Age 18 to 64		11,834,601	55%	1	86,110,221	42%	+0.831 million		Italy	15.3%	32.9%
Age 65 and	ge 65 and over		47,918,078	88%	4	41,399,791	76%	+0.120 million		Australia	2.0%	0.6%
	۲%۱									Israel	59.0%	62.8%
39	%					At today's	dosing pa	ace,		Canada	3.9%	47.6%
						every Ame	erican >18	3 immune	in	Japan	1.9%	4.1%
Moderna	Pfizer	St	ate			100	) da	NC		Africa	0.5%	1.4%
43%	43% 54%						India	3.0%	10.5%			
			distributed	by Sep 4, 2021						Brazil	8.3%	17.6%
			oulation**			61.0% of p	•			Global data diffe		timing
AK		At least partial immunity		Be	et	13.9% pre				China NA	ME	
58.4% as % population		1		io c	74.9%	vs 60% ad	ult herd im	imunity*		65.9%		
44.3% Full immunity			Mid	Idle						59.8%		
38.0% as % population			TVITE	1010						50.1%		
			Wo	rst	WI				VT	NH		
						52.1%				71.3%	61.8%	
					48.6%				65.8%	61.9%		
-	14/4		1.47	ND		42.0%	. 41		NIV/	48.4%	37.9%	
	WA	ID	MT	ND	MN	IL F0.00/	MI		NY	MA		
	58.2%	46.2%	52.6%	46.4%	55.5%	56.0%	56.4%		58.3%	66.1%		
	52.7%	36.2%	43.4%	40.8%	51.5%	51.3%	46.3%		52.5%	63.1%		
	41.3% OR	31.2% NV	36.6% WY	35.3% SD	42.4%	37.1% IN	39.2% OH	PA	43.4% NJ	47.7% CT	RI	1
	60.6%	47.4%	45.8%	55.5%	52.9%	48.0%	51.6%	59.9%	61.2%	64.1%	69.0%	
	51.3%	43.0%	35.6%	46.7%	47.0%	39.7%	43.5%	55.4%	56.9%	59.9%	57.5%	
	40.0%	43.0 % 34.3%	30.6%	40.7 %	41.2%	33.0%	38.1%	40.1%	45.2%	49.3%	48.0%	
	40.070 CA	UT	CO	NE	M0	53.0 //	WV	VA	43.2 /0 MD	49.5 %	40.0 /0	
	60.6%	48.9%	59.3%	53.2%	48.9%	49.6%	51.9%	57.3%	64.1%	61.8%		
	53.8%	43.2%	51.1%	46.2%	40.4%	44.0%	38.4%	52.1%	54.2%	51.2%		
	39.3%	30.2%	41.9%	40.0%	32.8%	36.6%	33.0%	41.3%	43.7%	39.8%		
	00.070	AZ	NM	KS	AR	TN	NC	SC	DC	00.070		
		54.6%	55.7%	52.5%	48.0%	45.3%	54.9%	50.2%	73.0%			
		44.1%	54.8%	44.9%	37.9%	37.5%	41.7%	39.1%	54.4%			
		33.9%	44.9%	36.7%	29.5%	30.2%	34.4%	32.0%	41.5%			
				OK	LA	MS	AL	GA				
				UN								
				51.6%	43.4%	45.4%	47.5%	51.3%				
							47.5% 34.9%	51.3% 37.7%				
				51.6%	43.4%	45.4%				_		_
Н				51.6% 40.3%	43.4% 34.4%	45.4% 32.9%	34.9%	37.7%	FL	] [	PR	
HI 62.8%				51.6% 40.3% 32.6%	43.4% 34.4%	45.4% 32.9%	34.9%	37.7%	<b>FL</b> 56.4%	] [	<b>PR</b> 61.7%	
				51.6% 40.3% 32.6% TX	43.4% 34.4%	45.4% 32.9%	34.9%	37.7%		] [		

### Dolling out th

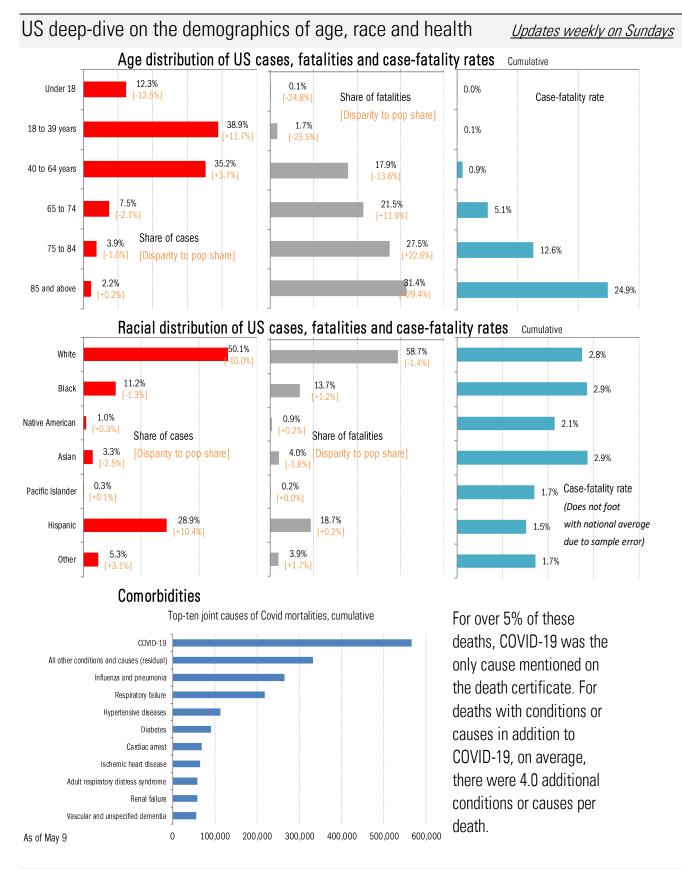
\* Includes persons >18 fully immunized or previosuly tested positive, no overlap. Disregards untested positives, natural immunities.

\*\* 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



Source: Johns Hopkins, Covid Act Now, TrendMacro calculations



Source: Distributions <u>CDC</u>, Comorbidities <u>CDC</u>, TrendMacro calculations

# Recommended reading

### <u>CDC reportedly loses second top official in a week</u> <u>amid mask guidance confusion</u>

Mark Suleymanov New York Post May 18, 2021

### Over 80% of Americans have had at least one symptom of depression over the course of the pandemic - and many are coping with booze, alcohol and overeating, survey finds Natalie Rahhal

*Daily Mail* May 17, 2021

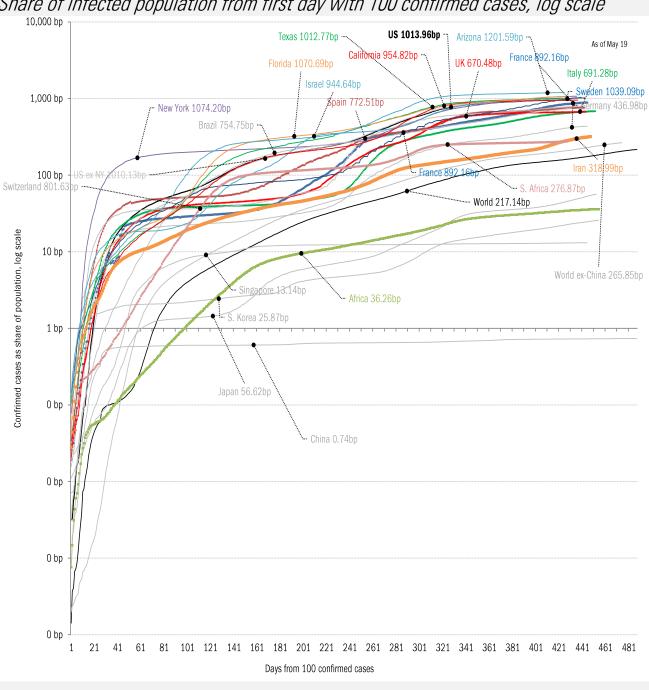
# Meme of the day

# NOST NUZZLES

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

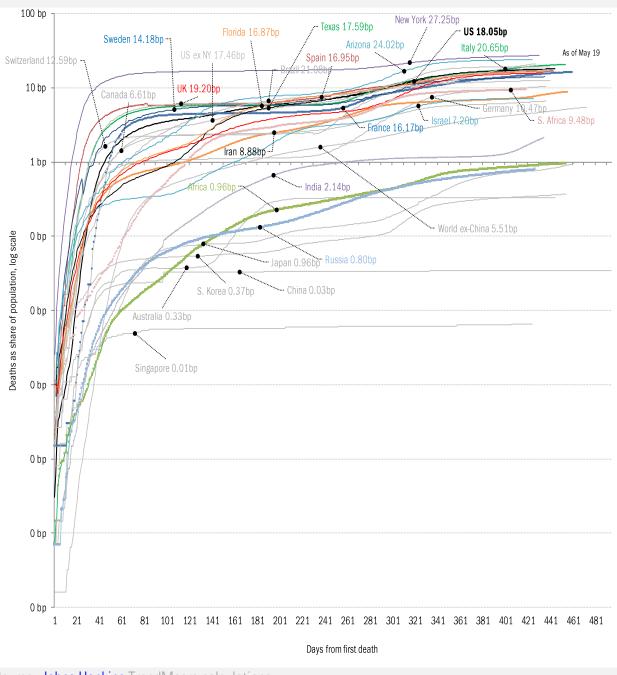
### <u>Use of fear to control behaviour in Covid crisis was</u> <u>'totalitarian', admit scientists</u>

Gordon Rayner *The Telegraph* May 14, 2021



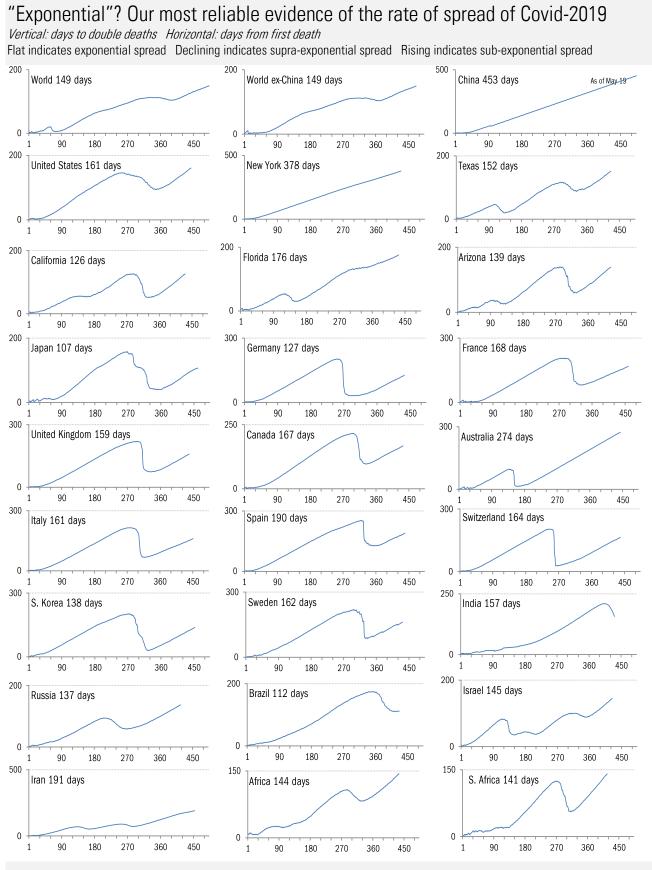
The coronavirus <u>case</u> accelerometer... tracking the world's infection curves *Share of infected population from first day with 100 confirmed cases, log scale* 

Source: Johns Hopkins, TrendMacro calculations



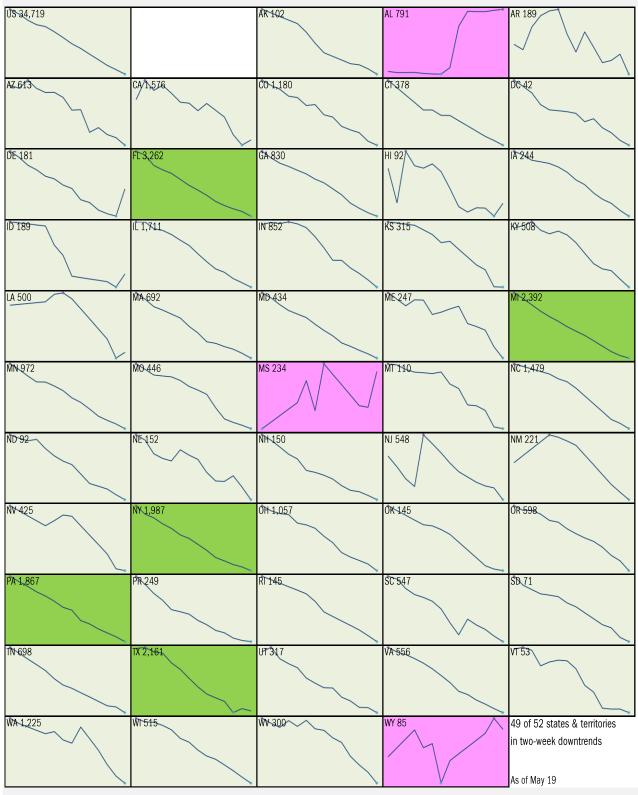
The coronavirus <u>mortality</u> accelerometer ... tracking the world's fatality curves *Share of deceased population from day of first fatality* 





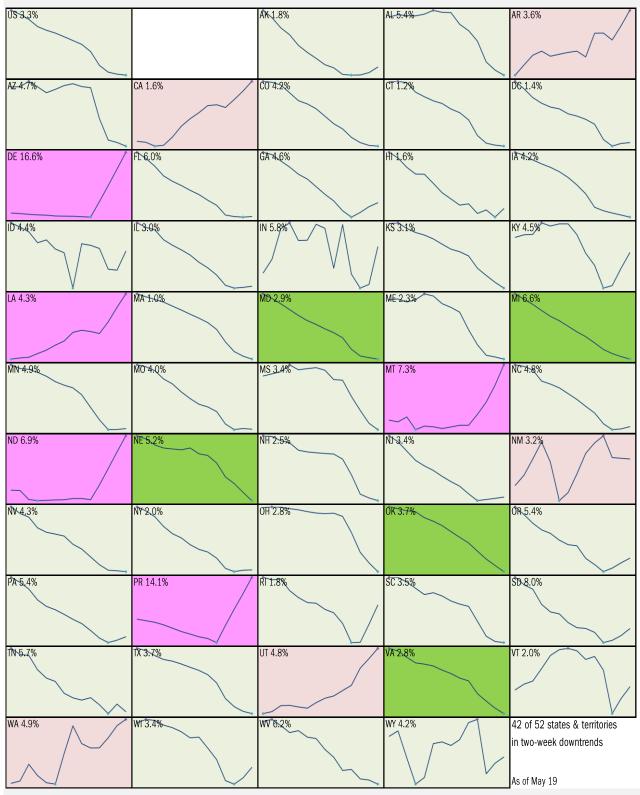
Source: Johns Hopkins, TrendMacro calculations

Requirement to <u>Open Up America Again</u>: 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



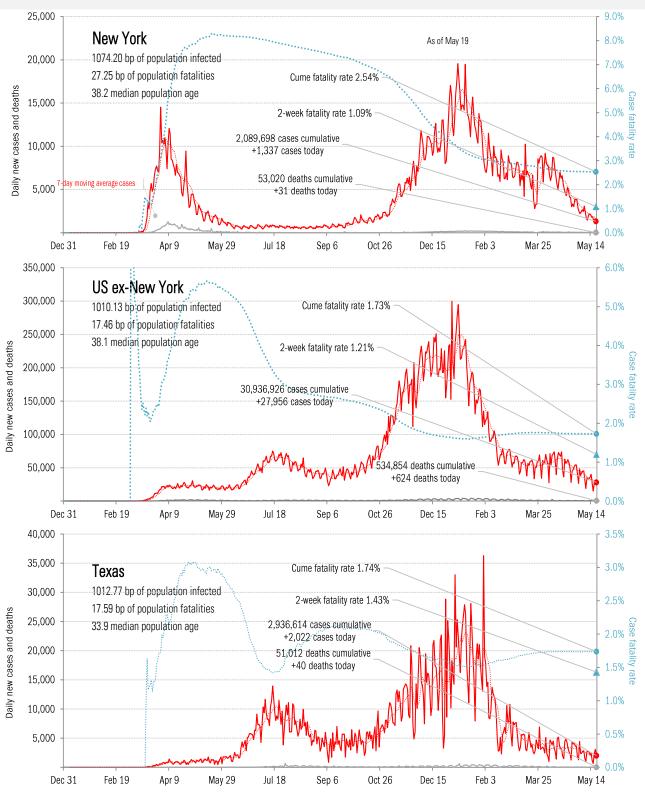
Source: Johns Hopkins, TrendMacro calculations

Alt requirement to <u>Open Up America Again</u>: 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

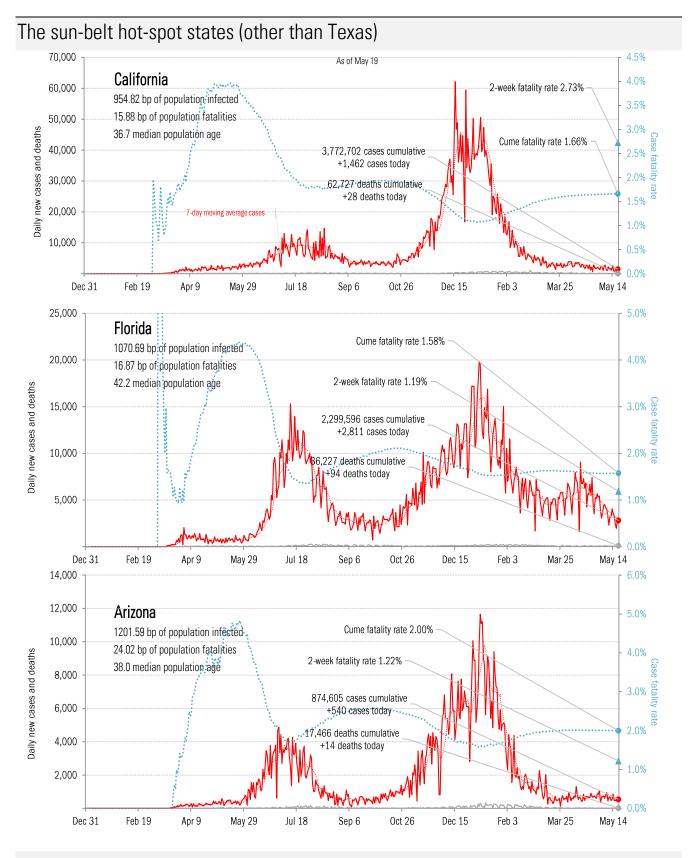


Source: Covid Act Now, TrendMacro calculations

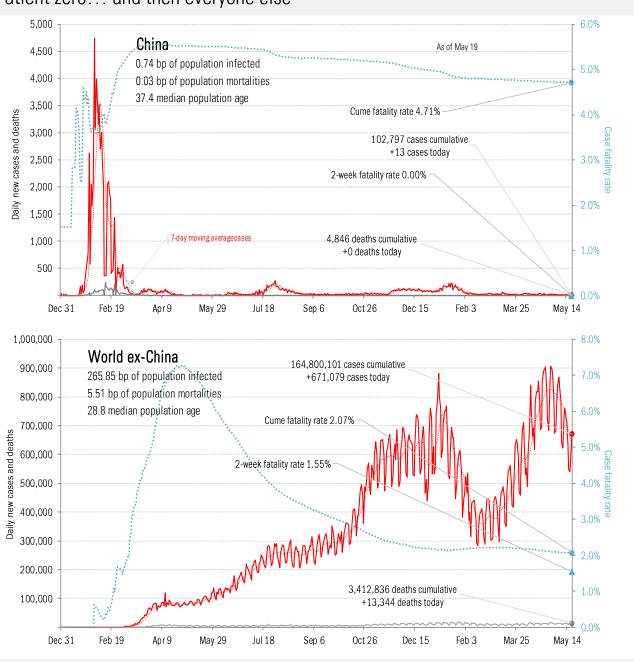
# From Ground Zero to the Rio Grande



Source: Johns Hopkins, TrendMacro calculations



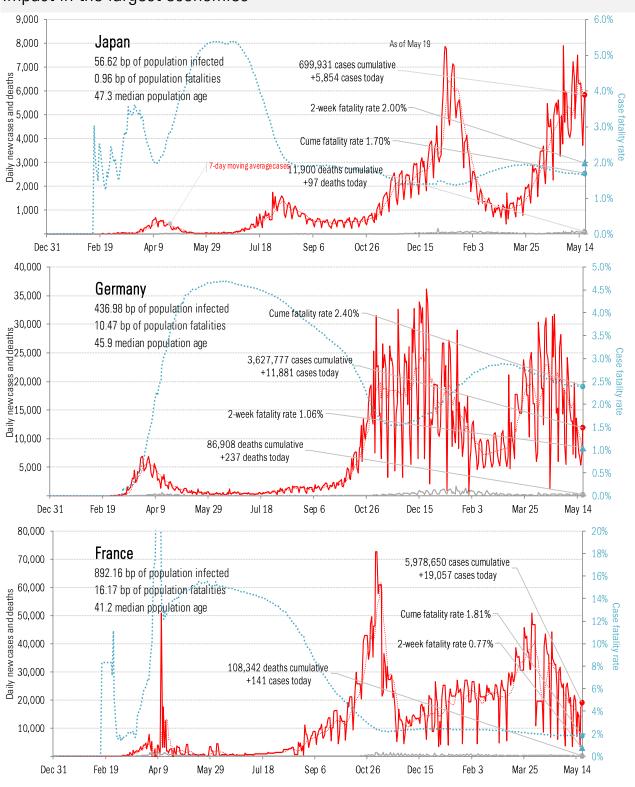
Source: Johns Hopkins, TrendMacro calculations



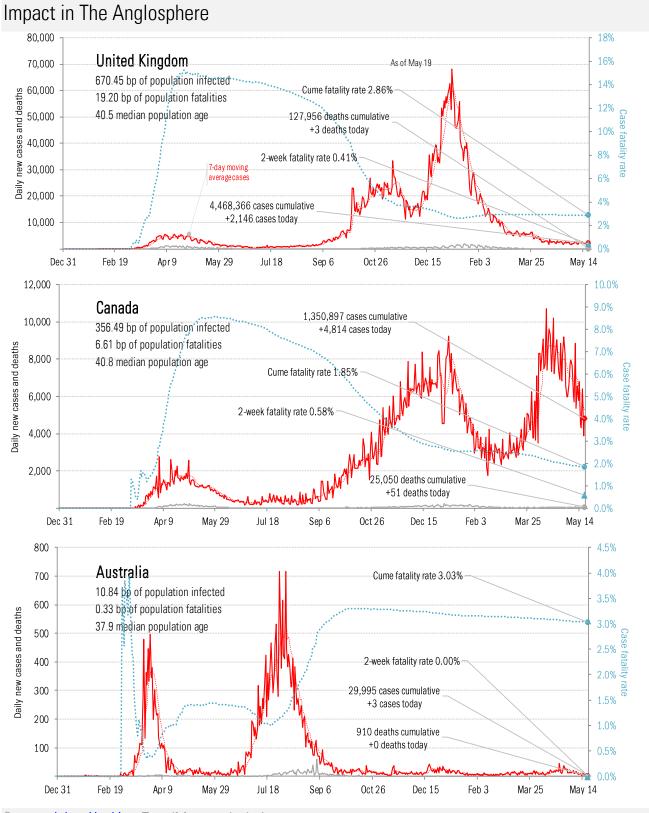
# Patient zero... and then everyone else

Source: Johns Hopkins, TrendMacro calculations

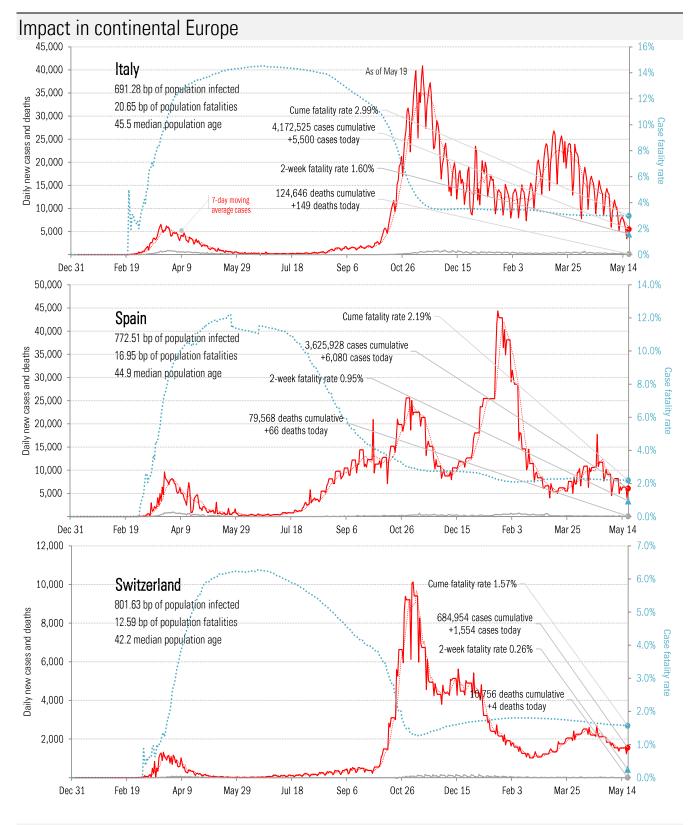




Source: Johns Hopkins, TrendMacro calculations

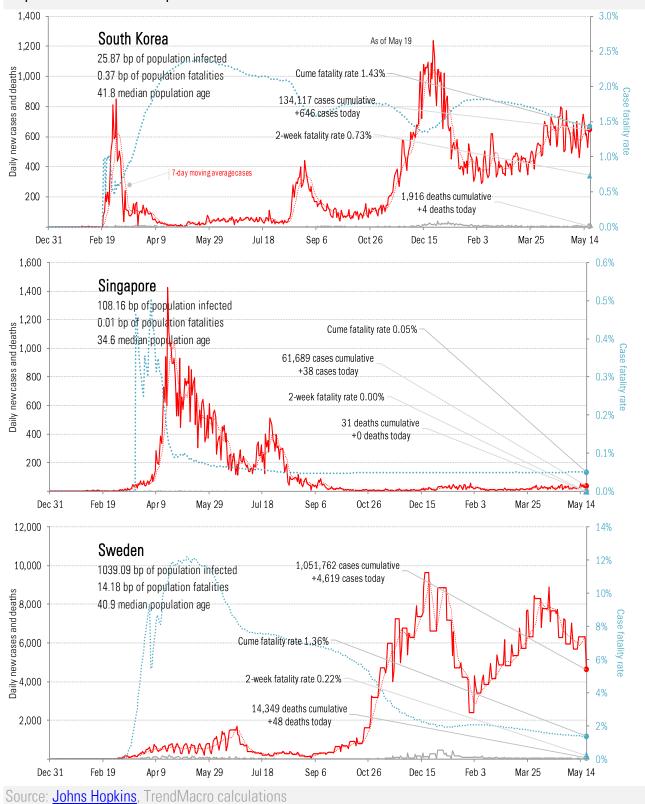


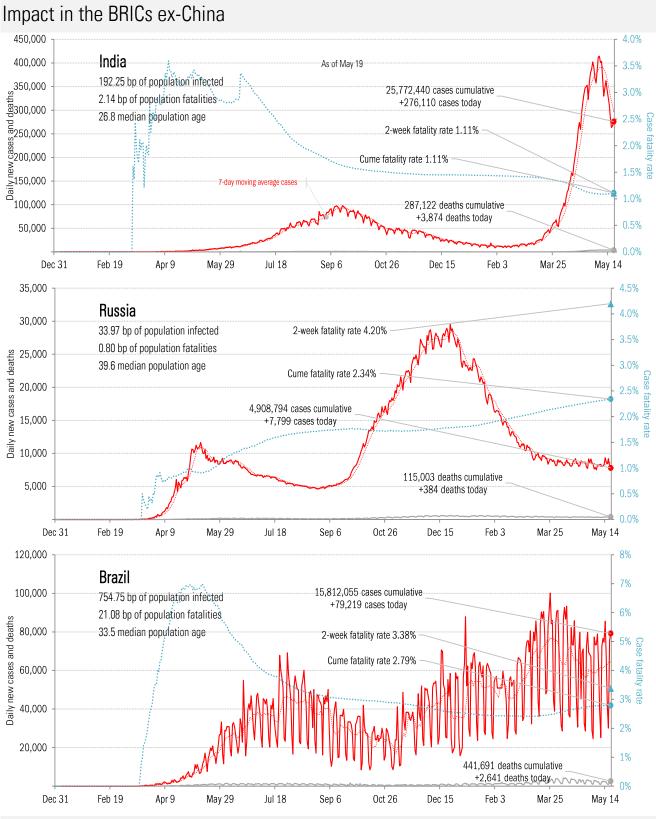
Source: Johns Hopkins, TrendMacro calculations



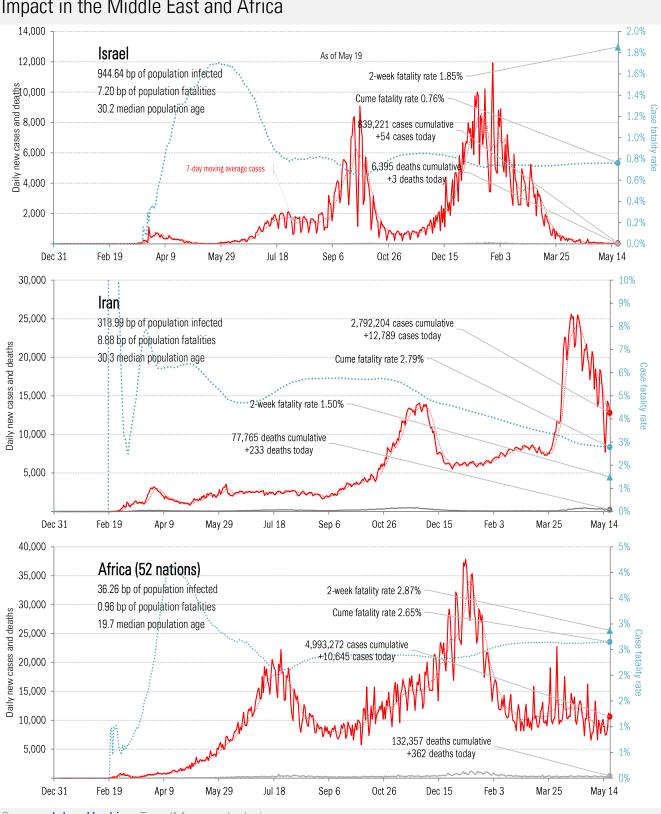
Source: Johns Hopkins, TrendMacro calculations

# Impact in other hot-spots



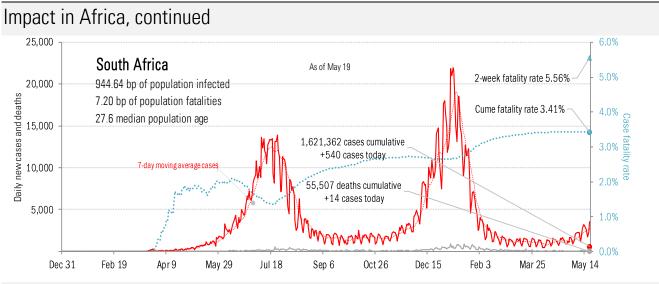


Source: Johns Hopkins, TrendMacro calculations



# Impact in the Middle East and Africa

Source: Johns Hopkins, TrendMacro calculations



Source: Johns Hopkins, TrendMacro calculations