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Data Insights: Covid-2019 Monitor

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The global scorecard



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The US scorecard



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

	Jourtin						Over least a			Immunity	EII	Dortio
289.32 million doses distributed						+6 14 million/day					26.2%	Partial
203.32 million doses administered							+2 62 milli	on/day		U3 NK	15.0%	40.2%
138 49 million persons partially immunized							+1 20 milli	on/day	J&J	France	7 1%	40.0%
90 73 milli	on persons	fully immu	nized				+1 40 milli	on/day	4%	Spain	7 7%	21.1%
7.78 millio	n shots lon	/staff			+0.001 mil	lion/dr		Germany	6.8%	21.4%		
77.3% of distributed doses administered								Moderna	Pfizer	Italy	7.9%	19.0%
41.5% of US pop partial				27.2% full	immunity	44% 52%			Australia	1.0%	0.6%	
100% of LTC partial			64.0% full	immunity					Israel	57.8%	62.0%	
	·				·	At today's	s dosing p	ace,		Canada	2.5%	26.1%
			_		every American >18 immune in				Japan	0.7%	1.2%	
State					aveh 08				Africa	0.4%	0.8%	
				03 0435					India	1.3%	8.1%	
Immunities distributed				by Jul 19, 2021					Brazil	4.3%	11.7%	
as % population**				US achieves adult herd immunity*					inity* in	Global data differ	s from sources,	uming
AK Partial immunity			Best 1() davs					Unina NA	ME			
54.8% as % population									47.8%			
40.2%			munity	Mid	dle	by Apr 30), 2021			J	50.0%	
32.8%		as 70 pu	μιατιστι			14/1				VT	33.9%	
				Wo	rst				51 50/	15 6%		
						43.4 /0				01.0%	40.0%	
						30.0%				32.8%	29.0%	
	WA	ID	MT	ND	MN		MI		NY	MA	20.070	
	44.7%	40.0%	46.0%	41.5%	42.3%	45.1%	45.1%		45.5%	48.9%		
	41.7%	32.5%	38.8%	38.1%	43.1%	42.7%	39.4%		44.0%	50.0%		
	28.0%	23.8%	28.4%	30.1%	29.7%	26.2%	27.1%		29.8%	30.7%		
	OR	NV	WY	SD	IA	IN	OH	PA	NJ	CT	RI	
	43.8%	40.1%	43.5%	49.8%	43.4%	40.3%	43.4%	46.9%	44.4%	52.5%	49.0%	
	40.0%	37.1%	32.8%	43.3%	41.5%	33.8%	38.3%	44.7%	47.4%	50.3%	46.8%	
	25.9%	24.8%	25.0%	31.8%	29.2%	23.4%	27.5%	27.4%	31.1%	33.0%	32.6%	
	CA	UI	CO	NE	MÜ	KY	WV	VA	MD	DE		
	46.4%	37.8%	44.1%	44.5%	42.3%	42.8%	46.9%	44.7%	45.8%	46.2%		
	44.5%	36.6%	43.3%	41.4%	34.9%	39.2%	34.8%	43.2%	44.1%	42.9%		
	20.1%	<u>20.3%</u> Δ7	Z7.1%	28.6%	23.8%	28.3% TNI	27.2% NC	<u>% / . / ک</u> ۹۲	29.2%	20.9%		
		11.0%	10.0%	15 1%	13.6%	10.8%	/3.0%	/2 1%	54.2%			
		38.2%	43.070	40.1%	43.0 %	40.0 % 32 5%	43.3 /0 37 N%	42.1 /0 3/1 Q%	/2.8%			
		25.4%	33.1%	27.3%	22.2%	21.1%	25.5%	24.1%	24.7%			
		20.170	00.170	OK	LA	MS	AL	GA	21.7 /0			
				47.5%	40.7%	41.2%	41.2%	41.6%				
				37.4%	31.2%	29.7%	30.7%	33.1%				
	-			26.9%	24.1%	21.7%	20.1%	20.2%		_		-
HI				TX					FL		PR	
49.3%				42.4%					46.4%		46.8%	
47.1%				35.8%					38.8%		32.3%	
31.5%				23.2%		As of Apr 21			24.9%		20.5%	

Rolling out the vaccines in the US and the world

* Adult herd immunity is 60% of population over 18 years either fully vaccinated or prior tested positive, no overlap

** 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>COVID 'Experts' Shut Out the Light at the End of the</u> Tunnel

J. T. Young *American Spectator* April 21, 2021

<u>Federal Inspectors Fear More Vaccines Were Exposed</u> <u>to Contamination</u>

Sharon LaFraniere, Sheryl Gay Stolberg and Chris Hamby *New York Times* April 21, 2021

<u>Vaccine Breakthrough Infections with SARS-CoV-2</u> <u>Variants</u>

Ezgi Hacisuleyman et al. *New England Journal of Medicine* April 21, 2021

Vaccines are working: the charts that show the Covid endgame

John Burn-Murdoch *Financial Times* April 21, 2021

<u>Quarter of Covid deaths not caused by virus, new</u> <u>figures show</u>

Sarah Knapton and Ben Riley-Smith *The Telegraph* April 13, 2021

Seven Peer-Reviewed Studies That Agree:

Lockdowns Do Not Suppress the Coronavirus Will Jones Lockdown Sceptics April 15, 2021

<u>Rapid Covid testing in England may be scaled back</u> over false positives

Josh Halliday The Guardian

April 15, 2021

Meme of the 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*

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: <u>Covid Act Now</u>, TrendMacro calculations



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





Impact in other hot-spots



Impact in the BRICs ex-China 350,000 4.0% 15,930,774 cases cumulative India As of Apr 21 3.5% +314,644 cases today 300,000 118.83 bp of population infected 3.0% State 250,000 1.38 bp of population fatalities 2-week fatality rate 1.56% 26.8 median population age 2.5% E200,000 Cume fatality rate 1.16% New Case of the ca 14 2.0% 184,657 deaths cumulative +2,104 deaths today 1.5% 7-day moving average cases 1.0% 50,000 0.5% 0.0% Dec 31 Jan 28 Feb 25 Mar 24 Apr 21 May 19 Jun 16 Jul 14 Aug 11 Sep 8 Oct 6 Dec 29 Jan 26 Feb 23 Mar 23 Apr 20 Nov 3 Dec 1 35,000 4.5% Russia 4.0% 30,000 2-week fatality rate 4.24% 32.34 bp of population infected AA 3.5% 25,000 20,000 15,000 10,000 0.73 bp of population fatalities Cume fatality rate 2.25% 39.6 median population age 4,673,699 cases cumulative 2.5% +8,146 cases today 2.0% 1.5% 104,937 deaths cumulative 1.0% +392 deaths today 5,000 0.5% 0.0% Dec 31 Jan 28 Feb 25 Mar 24 Apr 21 May 19 Jun 16 Jul 14 Aug 11 Sep 8 Oct 6 Nov 3 Dec 1 Dec 29 Jan 26 Feb 23 Mar 23 Apr 20 120,000 8% Brazil 14,122,795 cases cumulative 7% +79,719 cases today 100,000 674.12 bp of population infected 18.21 bp of population fatalities 6% 2-week fatality rate 4.18% Daily new cases and deaths 80,000 33.5 median population age Cume fatality rate 2.70% 381,475 deaths cumulative 60,000 +3,472 deaths today rate 3% 40,000 2% 20,000 1% 0% Dec 31 Jan 28 Feb 25 Mar 24 Apr 21 May 19 Jun 16 Jul 14 Aug 11 Sep 8 Oct 6 Nov 3 Dec 1 Dec 29 Jan 26 Feb 23 Mar 23 Apr 20

Source: Johns Hopkins, TrendMacro calculations



Impact in Africa, continued



Source: Johns Hopkins, TrendMacro calculations