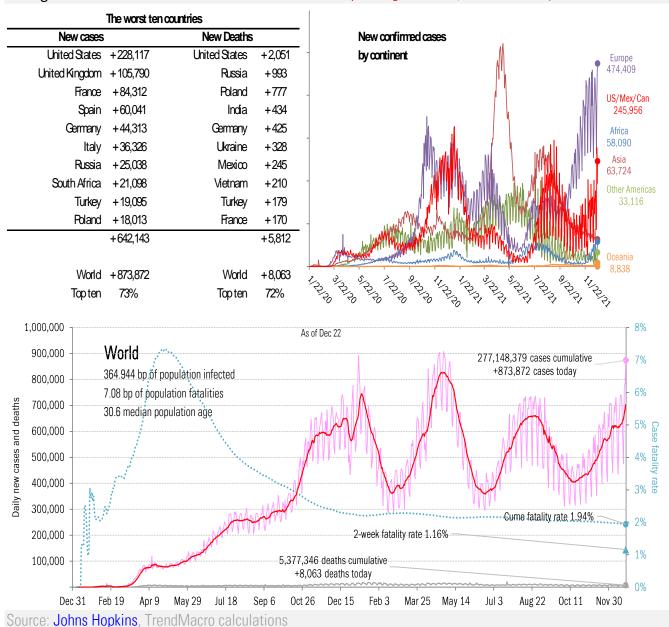


Data Insights: Covid-2019 Monitor

Thursday, December 23, 2021

The global scorecard

Cases: 7-day average and daily Deaths: Daily



For more information contact us:

Donald Luskin: 214 550 2121 don@trendmacro.com
Thomas Demas: 704 552 3625 tdemas@trendmacro.com

Copyright 2021 Trend Macrolytics LLC. All rights reserved. This document is not to be forwarded to individuals or organizations not authorized by Trend Macrolytics LLC to receive it. For information purposes only; not to be deemed to be recommendations for buying or selling specific securities or to constitute personalized investment advice. Derived from sources deemed to be reliable, but no warranty is made as to accuracy.

The US scorecard	Cases: 7-day average and daily	Deaths: Daily
------------------	--------------------------------	---------------

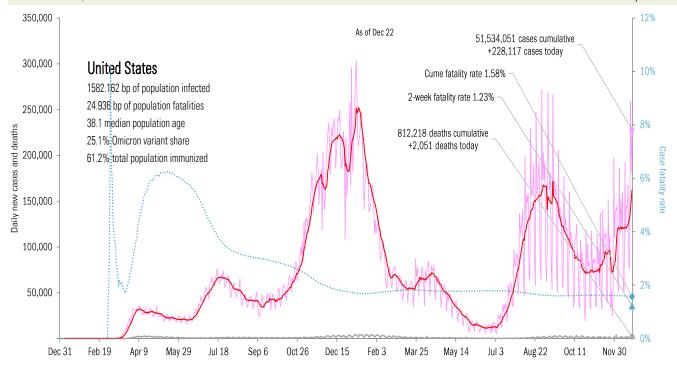
The ten worst US states

New cases		New Deaths		New in hospital		Qume o	Oume cases		Cume deaths		hospital	Hospital use		ICU use	
NY	+28,243	MI	+444	FL.	+174	CA	5,249,273	CA	75,958	TX	393,433	RI	88%	KY	92%
IL	+16,581	PA	+168	NY	+86	TX	4,464,706	TX	75,238	CA	328,861	PA	86%	NM	90%
MI	+16,216	IA	+119	GA	+68	FL.	3,787,721	FL.	62,413	FL.	328,545	MA	85%	R	90%
CH	+12,864	IN	+88	IL	+58	NY	3,035,474	NY	58,796	NY	183,435	GA	84%	IN	87%
CA	+12,195	TX	+82	LA	+53	IL	2,002,360	PA	35,783	GA	166,502	WA	83%	MO	87%
NJ	+11,906	CA	+80	NJ	+41	PA	1,913,959	GA	31,124	СH	148,450	AZ	83%	NE	87%
TX	+11,190	ΑZ	+74	MD	+38	СH	1,880,588	IL	29,790	PA	138,213	MI	83%	AL	87%
PA	+9,838	NY	+71	MA	+34	GA	1,714,093	NJ	28,790	IL	120,229	MO	82%	MI	87%
MA	+8,602	TN	+69	NC	+33	MI	1,645,578	MI	28,345	KY	118,476	MD	82%	AR	86%
GA	+7,610	IL	+66	VA	+30	NC	1,607,378	СH	28,277	MI	113,755	CT	81%	DE	86%
	+135,245		+1,261		+615		27,301,130		454,514		2,039,899				
All states	+228,117		+2,051		+582	All states	51,534,051		812,218		3,685,734	All states	70%		67%
Topten	59%		61%		106%	Top ten	53%		56%		55%	Median	78%		80%

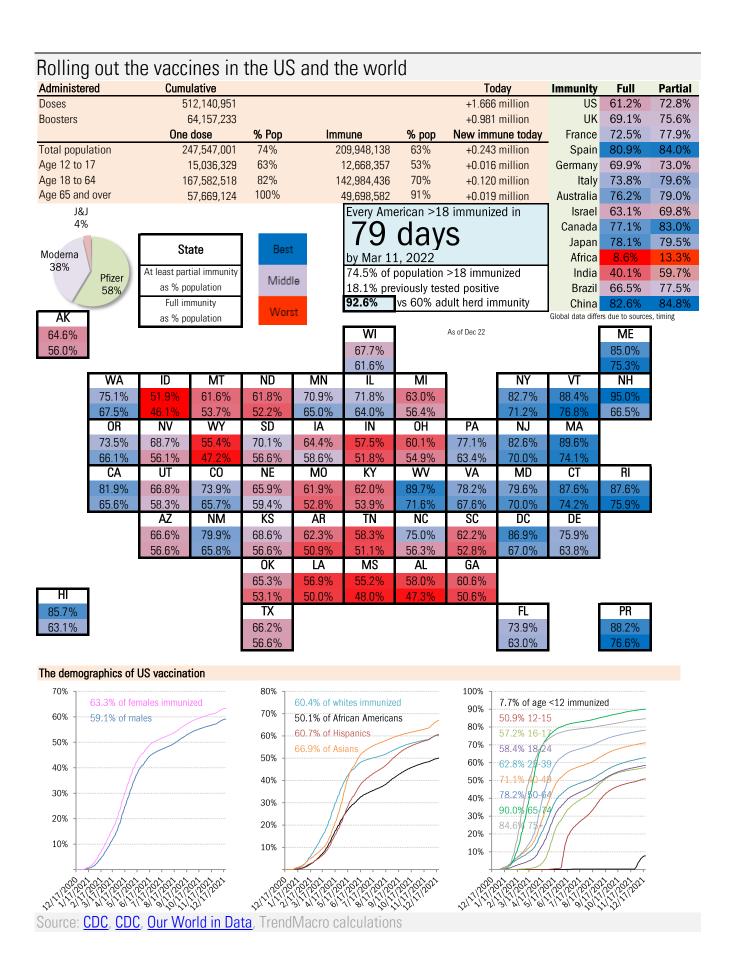
Some states not reporting

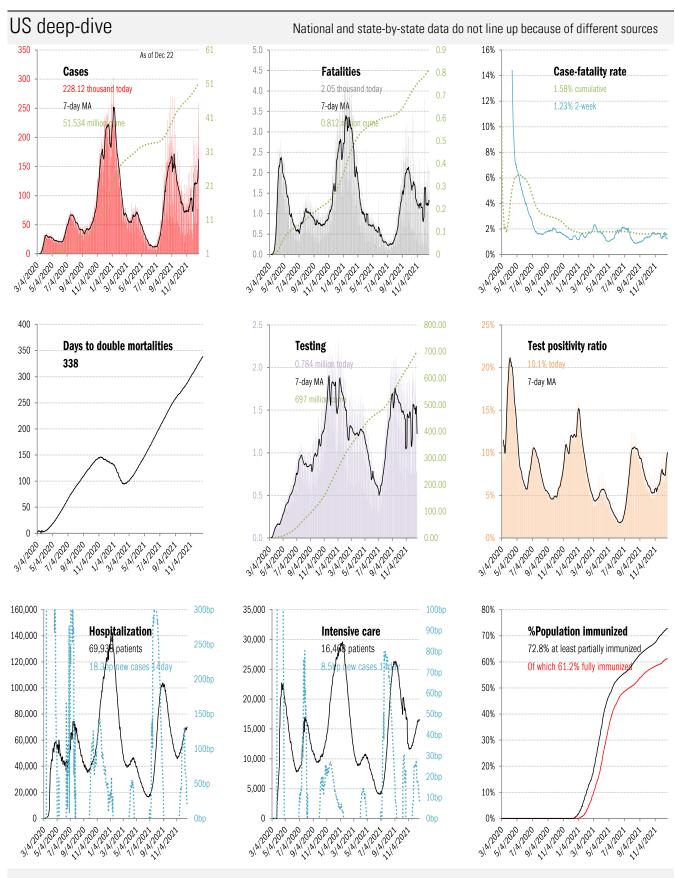
Five most improved US states

					•		
Fewer daily cases		Fewer new dea	ths	Fewer new hos	pitalizations	Most pop immunuity growth	
	MN	-4,579	ОН	-249	AR	-54	MP +40 bp
	DC	-3,394	AZ	-149	KS	-30	DE +30 bp
	CT	-2,634	FL.	-94	DE	-23	UT +30 bp
	MD	-2,146	MO	-81	∞	-17	H +20 bp
	IA	-1,210	Φ	-52	SC	-17	AL +10 bp



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

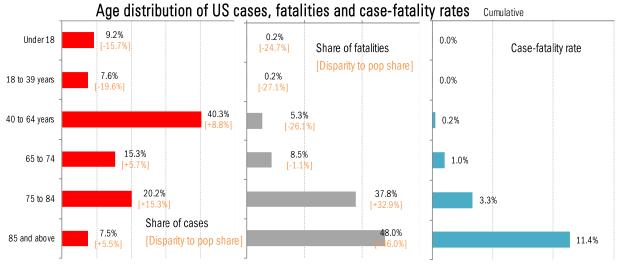


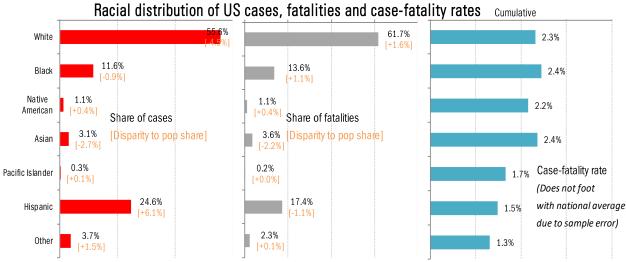


Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

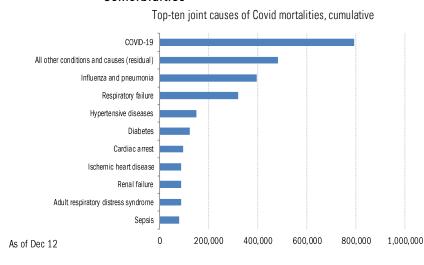
US deep-dive on the demographics of age, race and health

Updates weekly on Sundays





Comorbidities



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

Omicron Has 80% Lower Risk of Hospitalization in South Africa

Janice Kew Bloomberg
December 22, 2021

Omicron Hospitalization Risk Is Far Below Delta's in Two Studies

Naomi Kresge *Bloomberg* December 22, 2021

Series of preclinical studies supports the Army's pancoronavirus vaccine development strategy

US Army December 16, 2021

<u>US Army Creates Single Vaccine Against All COVID &</u> SARS Variants, Researchers Say

Tara Kopp Defense One December 21, 2021

Mixed Messaging from U.S. Government on China's Biological Weapons Program

Clare M. Lopez

American Greatness

December 21, 2021

Tuskegee Tony

Lloyd Billingsley

American Greatness

December 21, 2021

Remarks by President Biden on the Fight Against COVID-19

The White House December 21, 2021

<u>Early assessment of the clinical severity of the SARS-CoV-2 Omicron variant in South Africa</u>

Nicole Wolter medRvx December 21, 2021

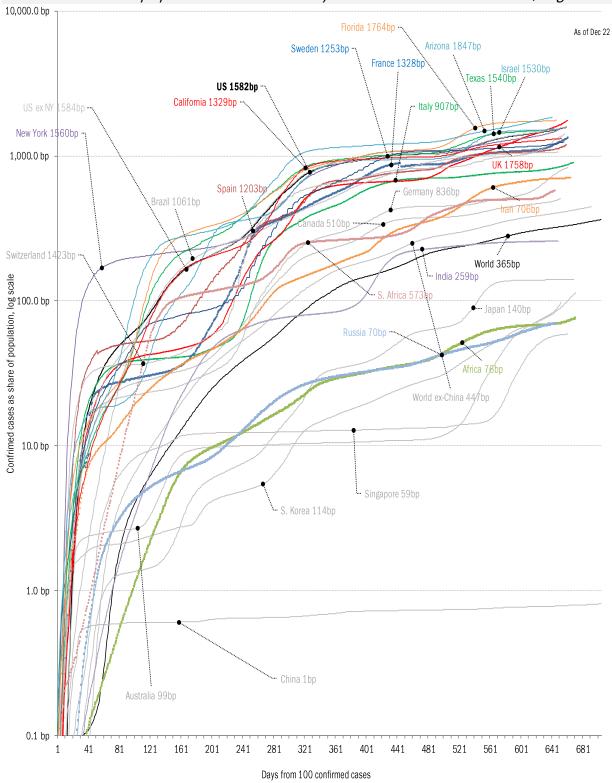
Meme of the day



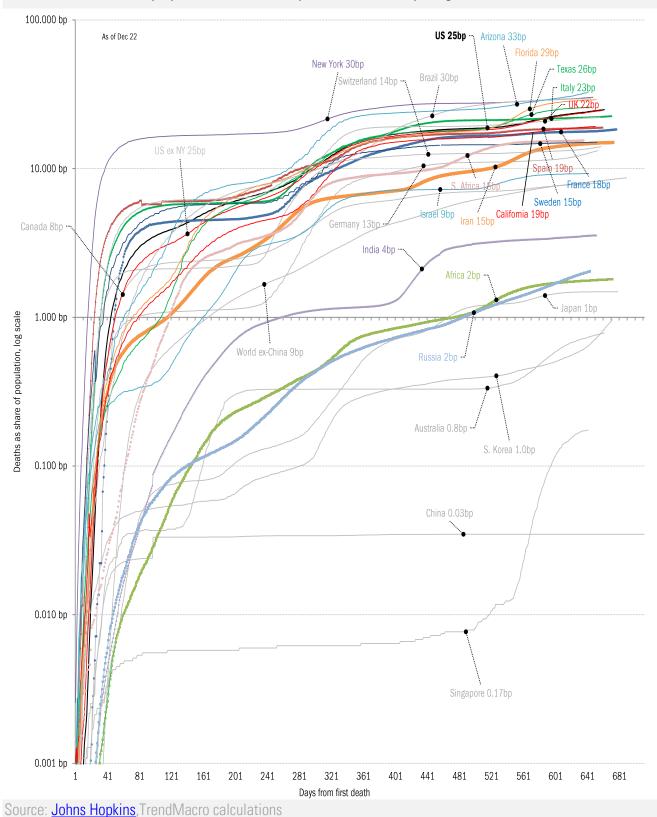
Santa To Replace 'Naughty Or Nice' List With 'Vaxxed Or Unvaxxed' List

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, log scale*



"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

