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### Data Insights: Covid-2019 Monitor

Monday, January 4, 2021

## The global scorecard



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# The US scorecard

						The te	n worst US	states						
New cas	New Deaths		New in hospital		Quime cases		Quime deaths		Qume in hospital		Hospital use	ICU use		
CA	+45,352	CA	+ 181	CA	+297	CA	2,391,261	NY	30,476	NY	89,995	RI 87%	NM 93%	
AZ	+17,234	NY	+ 139	R.	+268	TX	1,793,341	TX	27,917	R.	64,216	GA 85%	AL 92%	
TX	+16,095	MA	+ 108	TX	+244	Æ	1,341,287	CA	26,538	NJ	48,743	MD 83%	GA 91%	
NY	+11,368	IL	+ 105	GA	+203	NY	1,017,153	R.	22,310	GA	42,483	SC 82%	CA 88%	
R.	+10,228	FL.	+ 100	NY	+ 149	L	979,821	NJ	19,208	AZ	39,728	DC 80%	OK 88%	
SC	+8,951	SC	+84	CH	+ 135	CH	721,481	IL T	18,322	CH	38,798	NV 80%	TX 87%	
OK	+8,017	IN	+65	LA	+102	PA	661,871	PA	16,295	IN	35,646	NC 79%	RI 87%	
0H	+6,808	OH	+59	NC	+97	IN	608,297	MI	13,306	AL	34,373	CI 78%	NV 86%	
NC	+6,487	PA	+56	SC 47	+ 78	GA	587,076	MA	12,610	MD	27,196	CA 78%	MS 85%	
LA	+5,783	IN	+55	AZ	+ /3	NC	564,924	GA	10,964	MN	22,095	AZ 77%	NC 85%	
	+136,323		+962		+1,646		10,666,512		197,946		443,273			
All states	1 20/1 905		1/21		1020		20 276 721		2/12 177		605 015	All states 72%	770/	
Tonton	+204,000		+ 1,401 67%		+1930	All States	20,370,721		58%		64%	Median 60%	75%	
lupitan	0778		0770		0078	iopten	JZ/0		3070 Sc	nme states n	ot reporting		13/0	
Fue most imma coll & states not reporting														
Fewer d	ailv cases			Fe	ewer new de	aths	Inportour	Fewer n	ew hospita	alizations		Most recoverie	S	
FL	-20.303				MI	-288			MO	-128		TX	+8.785	
TN	-13,165				CA	-205			AR	-31		сн	+5,942	
NC	-12,405				NC	-126			NH	-28		CK	+5,452	
M	-9.500				FL.	-120			ID	-23		MN	+5,220	
CA	-7,989				CT	-104			ME	-14		TN	+3,877	
	,													
300,000													[ <sup>7.0%</sup>	
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	625 592 bn of nonulation infocted						)					- 6.0%		
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	JU.1 II	ieulaii hok	Julation aye	/	¢		N.		0 ( ) !!				- 5.0%	
읉 200,000 -							$\mathcal{N}$		Cume fatalit	ty rate 1.68	%		1	
d de							A.	r	waak fatalit	v rata 1.1/0	×_ \	\\	- 4.0% ရှိ	
s au							N.	2-	week latalit	y late 1.14.	•		se fa	
먫 150,000 - 평	110		+				- N	343	177 deaths	cumulative			Italit	
New	021	accina	uuns	1				+	1,431 death	is today		$\mathcal{M} \neq 1$	- 3.0% rat	
ailyı	13.07	million do	ses distibut	ed		+0.22 million/day	/				·····		CD CD	
□ 100,000 -	4.23 m	nillion 1st	doses recei	ved		+0.48 million/day	/				N N	annen an	0.00/	
	2.22 m	nillion dist	ributed to lo	ong-term ca	ire	+0.02 million/day		A			^//		- 2.0%	
	0.28 m	nillion 1st	doses long-	term care		+0.04 million/day	NY	M			all			
50,000 -			1.00				$\mathcal{N}$	· VV	MAA	NAAA	(A)		1.0%	
				M	$\mathcal{A}$	Ann	$\vee$		· • • •					
			1	5/	· • •		7-	-day moving a	verage cases			$\sim$		
+	24 1- 04	F-6 44		.04	4 M: 5	May 00 1 1 10	- Iul 7 - 1		×10 0	0 0 0	0.4.00		≫ 0.0%	
Dec 3	31 Jan 21	reD 11	war 3 Ma	r24 Apr1	4 May 5	may 26 Jun 16	Jui / J	ui 28 Au	g 18 Sep	8 Sep 29	9 UCT 20 N	IOV 10 DEC 1 DEC 22		

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



Source: Covid Tracking Project, TrendMacro calculations



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

## Recommended reading

### Pharmacies Can Get Shots in Arms

Scott Gottlieb *Wall Street Journal* January 3, 2021

#### The Year in Covid 'Messaging'

Holman Jenkins *Wall Street Journal* January 1, 2021

### The missing flu riddle: 'Influenza has been renamed COVID,' maverick epidemiologist says

Daniel Payne *Just the News* January 1, 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







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: Covid Tracking Project, 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 Tracking Project, TrendMacro calculations

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

#### New daily fatalities

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



#### **Cumulative fatalities**





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



Source: IHME, Covid Tracking Project, TrendMacro calculations

As of Jan 3



Source: Covid Tracking Project,, TrendMacro calculations



Source: Covid Tracking Project,, TrendMacro calculations

## Patient zero... and then everyone else







Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 Dec 1 Dec 22



Source: Johns Hopkins, TrendMacro calculations

#### Impact in The Anglosphere 70,000 United Kingdom As of Jan 3 60,000 399.52 bp of population infected s 10,000 40,000 40,000 30,000 30,000 11.21 bp of population fatalities 2,662,699 cases cumulative +55,157 cases today 40.5 median population age Cume fatality rate 2.82% 2-week fatality rate 2.40% Dail 20,000 7-day moving averagecases 75,137 deaths cumulative 10,000 +455 deaths today Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 Dec 1 Dec 22 9,000 Canada 8,000 159.94 bp of population infected 7,000 Daily new cases and deaths 2,000 2,000 2,000 3,000 2,0 4.14 bp of population fatalities 606,076 cases cumulative 40.8 median population age +4,535 cases today Cume fatality rate 2.62% 2-week fatality rate 1.76% Alaba 2,000 15,880 deaths cumulative +173 deaths today 1,000 Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 Dec 1 Dec 22 800 Australia 700 10.30 bp of population infected Cume fatality rate 3.19% 600 0.33 bp of population fatalities Daily new cases and deaths 37.9 median population age 500 2-week fatality rate 0.44% 400 28,504 cases cumulative +20 cases today 300

18%

16%

14%

109

6%

4%

2% 0%

9.0%

8.0%

6.0%

4.0%

3.0%

2.0%

1.0% 0.0%

4.5%

4.0%

3.5%

3.0%

2.5%

2.0%

1.5%

1.0%

0.5% 0.0%

909 deaths cumulative

+0 deaths today

Dec 31 Jan 21 Feb 11 Mar 3 Mar 24 Apr 14 May 5 May 26 Jun 16 Jul 7 Jul 28 Aug 18 Sep 8 Sep 29 Oct 20 Nov 10 Dec 1 Dec 22 Source: Johns Hopkins, TrendMacro calculations

200

100





## Impact in other hot-spots



Source: Johns Hopkins, TrendMacro calculations



