## Number Tells ... Facts About Covid-19 Pandemic in USA

October 18, 2020 By Charles Gu

Source Data: <a href="https://www.worldometers.info/coronavirus/">https://www.worldometers.info/coronavirus/</a>

#### Author's Foreword

I've been closely watching development of the global coronavirus pandemic since it began in Wuhan, China in January. Over this period of time, like most people, I went through curiousness, confusion, anxiety and panic due to lack of knowledge about this deadly virus.

To help myself understand this unprecedented pandemic and learn to how to deal with it, I, as a data mining and analytics expert, started collecting and analyzing daily data of published cases in a systematic way. From my daily tracking, I gradually observed some clear patterns of development of this virus. Most importantly, I reached to my own assessment of the current situation and trend of the pandemic in USA. As a result, I'm now less concerned much about this virus, more confident in winning this national battle against such an "invisible enemy" from Communist China.

This short slide summarizes some of my independent assessments on the current situation of this pandemic in USA. Up to now, few doctors and medical experts can provide clear and consistent advice on how to deal with this virus while enjoying our normal life with family and friends. I hope the next eight pages could help readers get some important insights on this pandemic so that they can live a normal life without fear. At the end, it's not wise to give up our happiness and freedom we have in this God-blessed land, and to let the government take over our lives, simply because of this unknown virus.

### A Quick Glance: situation in USA looks no so bad....

Numbers				
Numbers	USA	Worldwide		
Key Measures	<b>18-Oct</b>	Ranking		
Total Tests 1,000	125,684	2		
% of POP	37.90%	20		
Total Cases 1,000	8,388	1		
% of POP	2.53%	12		
% of Tests	6.7%	84		
Total Death 1,000	224.7	1		
% Total Cases	2.7%	60		
ICU Cases 1,000	15.4	1		
% of Total Cases	0.2%	64		
Recovered Cases 1,000	5,457.7	2		
% of Total Cases	65.1%	163		
Active Cases 1,000	2,705	1		
% of Total Cases	32.3%	45		

Science: % measures provide more accurate pictures than those simple "Big" numbers

#### Facts...worst

☑ total cases No.1

- 🗷 total number of death No.1
- ☑ total ICU/serious cases No.1
- ✗ total active cases No.1

#### Facts...best

☑ total tests No.2

☑ total recovered cases No.2

#### Facts...not so bad

- total cases in % of population No.12
- total cases / test positive in % of tests No.84
- death in % of total cases No.60
- ICU cases in % of total cases: No. 64
- active cases in % of total cases No,45

#### Much better now than 7 months ago... in all key measures

Numbers								
	Statistics of USA Covid-19 Case							
Key Measures	30-Mar	1-May	29-May	11-Jul	8-Aug	12-Sep	18-Oc	
Total Tests 1,000	NA	6,700	16,811	41,770	64,611	91,704	125,684	
% of POP	NA	2.02%	5.07%	12.62%	19.51%	27.67%	37.90%	
Total Cases 1,000	164	1,138	1,803	3,356	5,150	6,677	8,388	
% of POP	0.05%	0.34%	0.54%	1.01%	1.55%	<b>2.01%</b>	2.53%	
% of Tests	NA	17.0%	<b>10.7%</b>	8.0%	8.0%	7.3%	6.7%	
Total Death 1,000	3.1	65.8	104.5	135.4	165.1	198.1	224.7	
% Total Cases	1.9%	5.8%	5.8%	4.0%	3.2%	3.0%	2.7%	
ICU Cases 1,000	NA	16.5	17.2	15.8	18.0	14.4	15.4	
% of Total Cases	NA	1.4%	<b>1.0%</b>	0.5%	0.3%	0.2%	0.2%	
Recovered Cases 1,000	5.5	168.6	528.8	1,490.4	2,638.5	3,950.4	5,457.7	
% of Total Cases	3.4%	14.8%	<b>29.3%</b>	44.4%	<b>51.2%</b>	59.2%	65.1%	
Active Cases 1,000	155	904	1,169	1,730	2,346	2,528	2,705	
% of Total Cases	94.7%	79.4%	64.9%	51.5%	45.6%	37.9%	32.3%	

#### Facts...then

We experienced panic in March-April...
☑ test positive: >15% of total tests
☑ death rate: >5% of total cases
☑ ICU cases: 1.4% of total cases

#### Facts...now

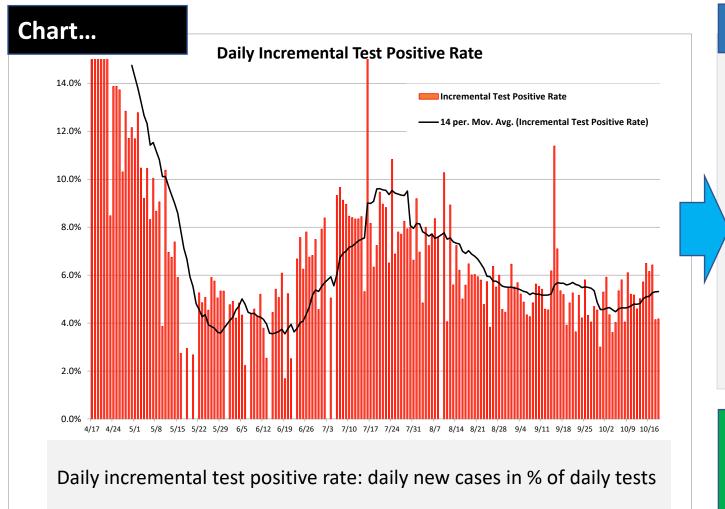
...after 7 months, we now have much less cases of

 $\blacksquare$  test positive: <7% of total tests

☑ death: <3% of total cases

 $\blacksquare$  ICU: 0.2% of total cases

### The worst has passed... daily test positive rate lowest now



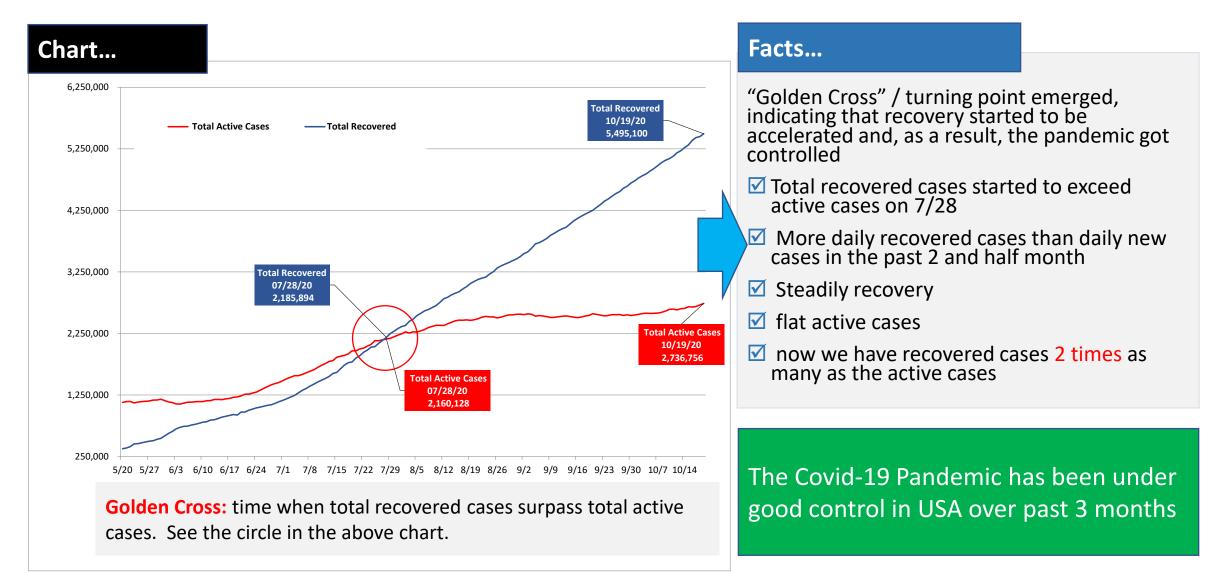
#### Facts...

Chance we got the coronavirus is 3-5 time lower now than 7 months ago

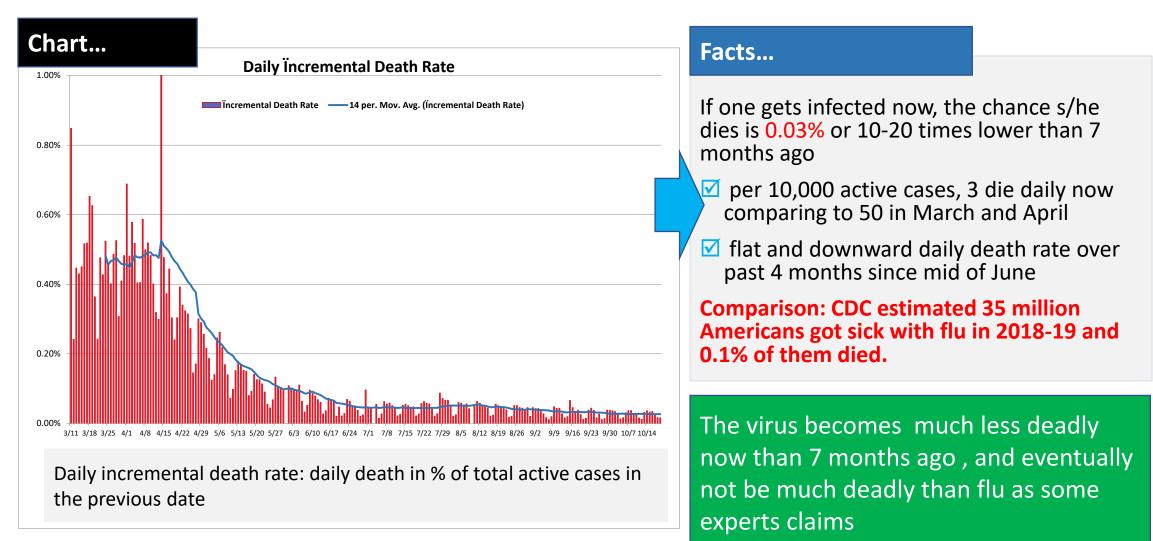
- Worst: 1<sup>st</sup> wave of the pandemic finished by end of May, with a peak daily test positive rate > 15% in Mid of April
- Worse: 2<sup>nd</sup> wave just finished by beginning of October, with a peak daily test positive rate by 10% in mid of July
- ☑ Best: 3<sup>rd</sup> wave is underway with daily test positive rate between 3-6%

The virus is much less contagious now and recent increase in daily cases was a result of dramatic increase in test

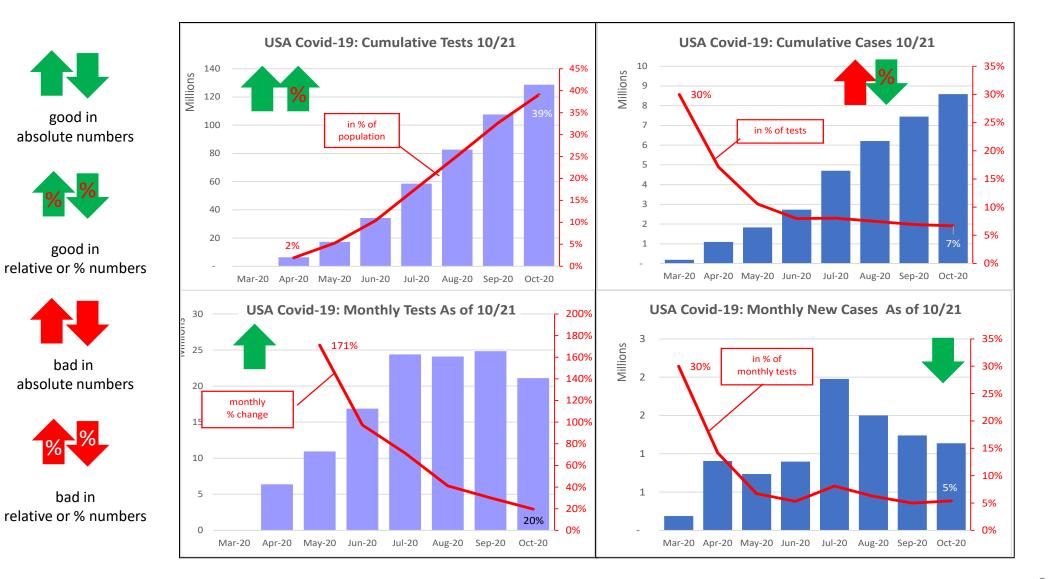
#### The worst has passed... steady recovery & flat active case numbers



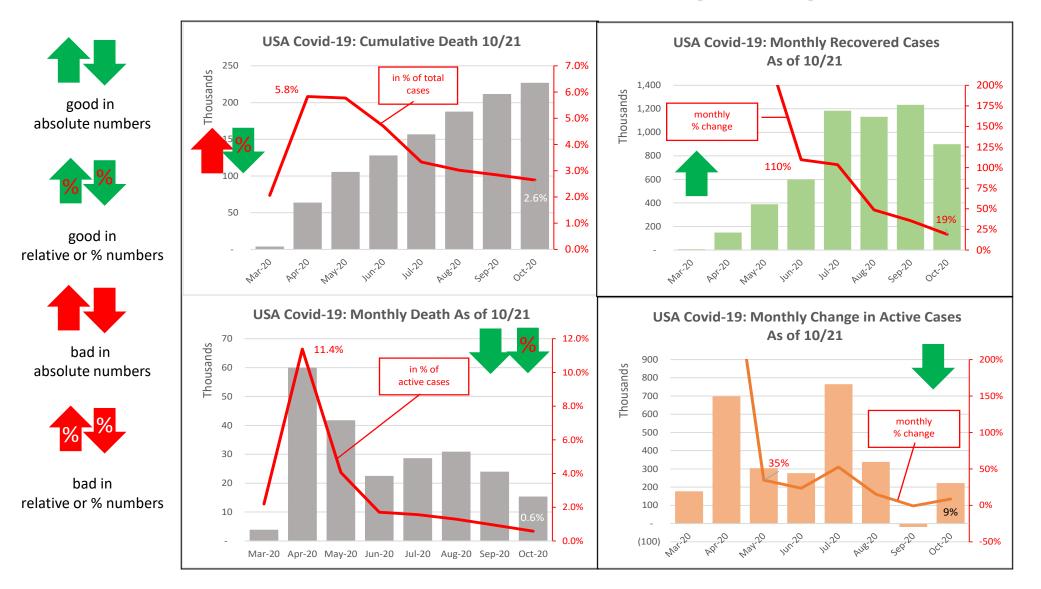
### The worst has passed... daily mortality rate lowest now



### More numbers and evidence...we're getting better



### More numbers and evidence...we're getting better



### Conclusions

# Numbers **SUPPORT** following assessments:

- ✓We're not so bad
- We're much better now than 7 months ago
- ✓The worst has passed

Numbers **DO NOT** support following claims:

we're the worst" (Joe Biden and radical media)
"it would get worse in winter" (Fauci)
"we won't be able to get normal until we have vaccine in mid of 2021" (Bill Gates)



"Don't be afraid of it. You're going to beat it. Don't let it take over your lives." (Quote from President Trump after he was released from hospital on October 5, 2020)