

Thanks for the many positive responses and please pass this along to whomever you feel this may be helpful or comforting. There is a lot of stress out there and not much clear information on where we are and what this might mean. We hope this daily update of the facts may be helpful. We will try to avoid opinion and stick to fact. Notes on data and sources below. Also attached today are some very helpful Self-Quarantine Guidelines provided by one of this group.

Summary

Testing continues to ramp and ~65,000 tests performed yesterday across the US. FDA has approved a simpler and quicker tests as well that will materially impact surveillance/monitoring in a few weeks. What is clear, ***this is a tale of ONE City and about 14 states at this point***. 50% of all new cases and total volume of cases is NYC, beyond New York, ~90% of all other cases are in 14 States. As we all have seen there is now significant lockdown across the US and significant awareness of the need to distance and self quarantine. This is already having an impact and will shape the curve over the next 10 to 15 days.

- **Washington State** is 40+ days in as the Index State for the US outbreak. New case volumes are flat to declining in WA over the last few days, while testing has grown New Positives are at just 7% of tests given.
- Total # of cases across the US is **NOT** the right metric to watch the development of the outbreak and look for a “*flattening of the curve*”. The best measure is the growth in New Positive Cases. (see chart below/data sheet).
- **Mortality is 1.3% across the US**. This is hard data, as unfortunate as this is, but suggests given what we know about Mortality Rates at the current ~550 deaths, total case counts in the US are likely between 50,000 and 100,000 today, depending on the levels of spread the past few days.
- **New Positive Case** counts have been roughly flat over the last two days at ~10,000. This is double the levels we saw last week. We should watch this number closely over the next 5 to 10 days as testing has ramped and lockdowns are in place
- **Total Hospitalizations** are 3,378 as of yesterday, or 7.7% of total positive cases. The total US hospital bed capacity in the US is ~925,000, with ~53,000 in NYC. The US has a total of ~100,000 ICU beds with ~3,000 in NYC. This suggests we have capacity to treat patients at current levels, NYC is most pressed depending on the further spread there. This does not mean we have all the protective gear in all the right places. We do have a significant capacity of respirators across the US.
- **Positive Tests** are stable at roughly 17% of total tests. ***We have not seen a significant ramp in new cases to match the ramp in new testing.*** New testing is expanding at faster rate than new positive cases.

Testing:

- Current daily testing is ~65,000 after crossing the 10,000 daily test levels on March 16 (7 days ago). Testing volume has been expanding by 10,000 per day and finally expanding in CA yesterday. We should look to see volumes over 100K in coming days.
- There has been an increase in identified cases with new testing, but no significant spike (i.e. 50% positive) and levels of positive cases remain in the mid to high teens.
- Testing needs to expand in the 14 Hot Spot States that have more than 500 cases today.

New/Active Cases

- Active cases have expanded to ~10,000 per day for two days in a row, growing the active total count, but without a ballooning of new cases

- New York has 50% of total cases and new daily cases. 14 state represent ~90 of all active and new cases. Lockdown and testing needs to be focused here, along with supplies of protective gear
- Washington state is seeing a flat to declining new case curve over the last three days with a 7% positive rate on ~3,000 tests conducted per day. Testing in WA needs to expand to ensure the curve is flattening as data indicate

Recovery/Mortality

- The Mortality rate has remained stable at ~1.5%, this suggests if spread is controlled in the next two weeks we will not find more than 100,000 total cases in the US.
- Recovery data is not being tracked well but we do know that 87% of tests are negative at this stage and **hospitalizations are stable at 7.7% of total cases.**