

As we end the week we had a flat # of new cases again yesterday, ~33,000 new cases, as we have seen every day this week. New tests were up markedly yesterday to ~170,000, or ~30,000 new tests with no change in pending tests from yesterday. **New Active Cases grew at the lowest level to date at 5% yesterday.** New Hospitalizations was the lowest level in 7 days at ~2,100 new cases across the US (*see chart below*). We had ~17,000 recovered/resolved cases yesterday, or ~50% of new cases. The highest level to date. Mortality rose slightly yesterday to ~2,000. To put some perspective on Mortality, 80% of all Mortality has been in 10 states, 40% in New York. The remaining 40 States have had about 400 cases end in Mortality in total (*more on this below*).

We have flattened the growth curve (active spread) with 6 days of flat new case growth. We also have a material # of recovered cases each day that is reducing the growth rate in Active Cases to the lowest levels yet, ~5%. We have yet to see a large surge in Hospitalizations as new cases have declined daily this week. Excluding a large day over day rise in Hospitalizations in Virginia (~500) we had a large decline in New Hospitalizations across the US to ~1,500 new cases yesterday.

### **Mortality**

As we outlined a few notes ago, we have used a daily metric for **Mortality Rate = Total Mortality/Total (known) Cases**. We have had comments from many of you on this, and as it has grown with Mortality and it is now a much higher # than the true Mortality Rate. This is likely concerning/confusing, so we will stop using this every day, as it is incorrect. We do know at this stage from other countries that the true Mortality Rate of COVID-19 is between 1.0% and 1.5%. It is very difficult to measure this number during an outbreak as **Mortality Rate = Total Mortality/Total Cases**, and what we don't know (yet) is the denominator, or Total # of Cases. We can measure Total Mortality pretty accurately and we do know the range in the Rate, so we can use this to estimate Total Potential size of the outbreak (*as we did with Hospitalization a few days ago*). The challenge in this is the Rate measured now relates to Total Cases some days ago (10 or more) and this makes it harder to use as an estimate of the Total Case Universe in the US at this stage. Simple math suggests (like Hospitalization), the **Total US Case Universe is between 2X and 8X cases measured to date.**

**Lets get to yesterday's #'s:**

### **Headlines:**

- New Daily Cases remained flat at ~33,000
- New Hospitalizations declined yesterday to ~1,600 new cases (*excluding the large growth in Virginia cases ~500*)
- New Mortality rose slightly this yesterday to ~2,000.
- **New US Cases rose to ~33,000 cases yesterday on an increase in testing volume, as % positive tests rose to prior levels of 24% yesterday**
  - **New York new cases rose yesterday to 10,854 up ~500 prior day,**
  - **Next 12 States new cases declined yesterday to 16,377, down ~500 from prior day,**

- **Remaining States new cases rose ~200, from prior day to 6,521.**
- **The Total Active Case Growth Rate in the US declined to a new low of ~5%, and has been below 10% for ~6 days**
- **Recovered cases grew to 17,218 yesterday. Recovered cases were 51% of all new cases yesterday.**
- **Total Recovered Cases to date rose to ~115,000, or ~23% of Total Cases to date**
- Testing volumes rose yesterday to 172,611 tests, up ~30,000 tests from prior day.
  - *Pending tests remained flat at ~17,000, nearly all in California and Florida.*
- New Hospitalizations declined yesterday to ~2,100 new cases from prior day at 2,417 new cases across the US for those states reporting,
  - *New Hospitalizations in New York was 290 new cases. Total current New York hospitalizations was 18,569 yesterday,*
- *Total current hospitalized cases reported yesterday was 48,206, with a large increase in Virginia from prior day*
- Total Mortality yesterday up slightly to ~2,000 with ~1,000 again in New York and New Jersey (50%)

#### **Testing:**

- Testing yesterday of 172,611 tests, down ~30,000 tests from prior day.
- Positive Test outcomes declined 5% to 19% of total tests yesterday on lower test volumes,
- We have conducted 2,561,679 tests across the US to date.

#### **New/Active Cases**

- **Total US active case grew by a new low of 5% yesterday**
  - **New York total active cases grew by 5%, down 1% from prior day.**
  - **Top 12 States total active cases grew by 5%, down 1% again from prior day,**
  - **all remaining States total active cases grew by 6%, flat to prior day,**
- Total Active Cases was 423,725 yesterday and grew 5% from prior day,
- Daily Resolved/Recovered Cases grew to 17,218 yesterday or 51% of total daily new cases,
- **Total Recovered Cases yesterday was 115,231. Recovered Cases rose to 23% of Total US COVID-19 Cases to date.**

#### **Hospitalization**

- **Total current cases reported in hospital beds across the US yesterday was 48,206, up 2,121 for states reporting.**
- **Virginia was 25% of new hospitalizations yesterday at 569 new cases**
- **Total US Hospital beds are ~925,000, Total US ICU Beds is ~100,000,**
- New York hospitalizations rose by 290 cases yesterday Current hospitalized cases yesterday was 18,569,
- New York total bed capacity is ~53,000, ICU bed capacity is ~3,000.

#### **Recovery/Mortality**

- Daily US Mortality rose to 2,035, from 1,900, prior day. Deaths totaled 18,744 across the US to date. Expect this to continue to grow as hospitalizations reach a peak in the coming week.
  - New York has the highest daily mortality of 777
  - New Jersey had daily mortality of 232,
  - Top 12 States daily mortality was 948, with all remaining states at 310, down from prior day