

Measure	Desired Change	Yesterday in the U.S.
No. of Tests	Increase	Up 21.6% (Cumulative)
Positive Test Rate	Decline	Level @15.9%
No. of Cases	Plateau	Up 18.7%, But Rate is Slowing
% of Deaths Per Case	Decline	Up to 1.8% (v. 1.6%)
No. of Deaths / 1M Pop.	Plateau	Up to 6.71
Recoveries : Deaths	Increase (>1:1)	1.46 (from 1.49)

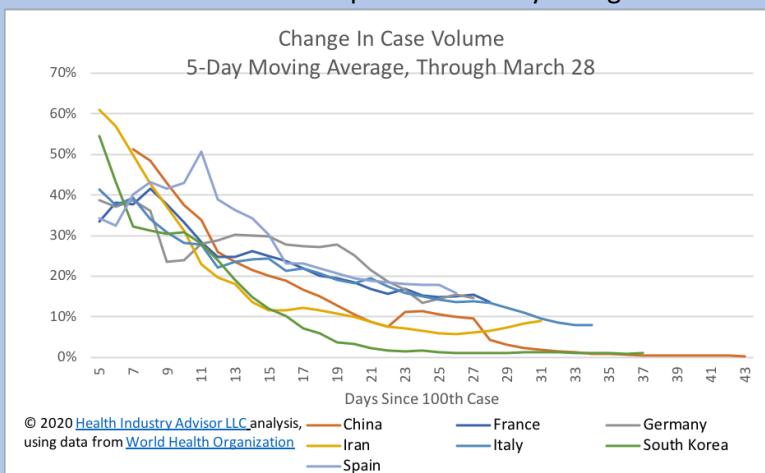
Yesterday's Highlights:

- Saturday was a significant day for testing in the U.S.: cumulative total tests were up 21.6% versus Friday, as more than 135,000 tests were performed – the most of any day. More than % of a million tests have now been completed to date.
- Despite performing 56% more tests on Saturday than on Friday (and 1.4x as many as Thursday), the positive test rate on new tests on Saturday was noticeably lower than on Friday (and significantly lower – barely ½ the rate - as on Thursday). Great to see the testing rate go up and the % positives go down!
- Recoveries in the U.S. – while still too low relative to new daily cases - continue to increase, as people progress through the contagion. On Saturday, 738 new recoveries were recorded, a 28% increase from Friday
- After a nearly 3-week period when daily changes in new cases (5-day moving average basis) didn't follow the downward pattern exhibited in other countries, the U.S. has now followed this downward trend for the past week. This is a good indicator that we are now moving through the virus progression life cycle
- New York is similarly exhibiting this pattern (thankfully!), as its daily change in new cases (5-day moving average) has declined every day since Tuesday. On the flip side, Massachusetts' rate has been increasing each day since Tuesday and is now quite high at 40.5%
- Five states (ID, IN, MA, OK and WV) continue to exhibit rates > 35% - an indication that the virus is still spreading rapidly. Conversely, 5 other states (HI, ME, MN, NE and WA) exhibited rates <15% (10% seems to signal the nearing of a peak in active cases)
- In addition to New York and New Jersey, Connecticut, California, Louisiana and Michigan are gathering a great deal of attention in the media. With large populations and significant coronavirus cases, this attention is certainly warranted. These states also have large metropolitan areas that are reporting high virus concentrations. On a state-wide basis, the rate of change in daily cases in these ranges from a high in New Jersey of 31.4% (Michigan is next at 28.5%) to a low in New York of 20.7% (California is next at 21.1%)
- Globally, Spain surpassed Italy in the highest concentration of cases (cases per 1M population); as of Saturday, Spain is at 1,566, Italy is at 1,529
- Sadly, the death rate in Italy is at 10.8% of all cases; Spain's rate is 8.2%; France, United Kingdom and the Netherlands are each between 6-6.5%. The U.S is at 1.8% and Canada is at 1.1%
- Although the number of active cases in Italy and Iran have yet to decline, their daily change in total cases continues to be <10%

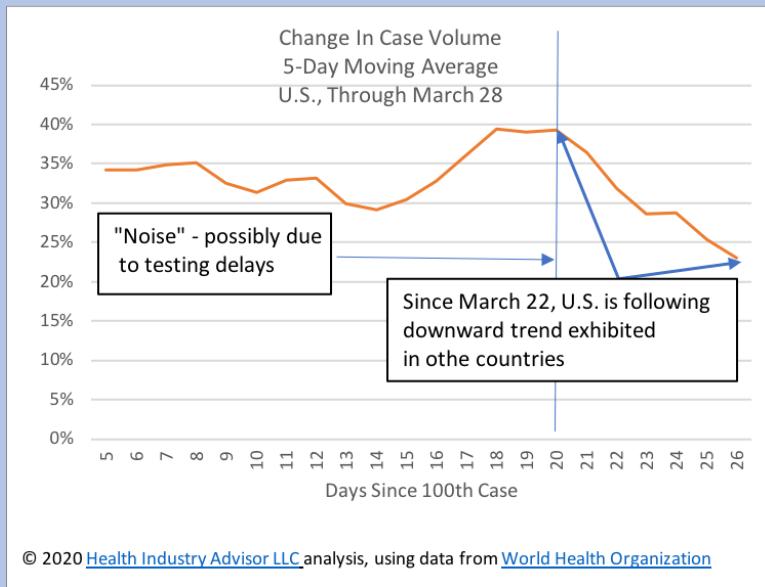
Information provided as a courtesy, based on data from the above-named sources. HIA has no responsibility for the accuracy and updating of any data. Sources: worldometers.info; covidtracking.com, Financial Times

Graphics depict data as of March 28, 2020

Many countries exhibit a consistent time-based pattern for daily changes in cases:

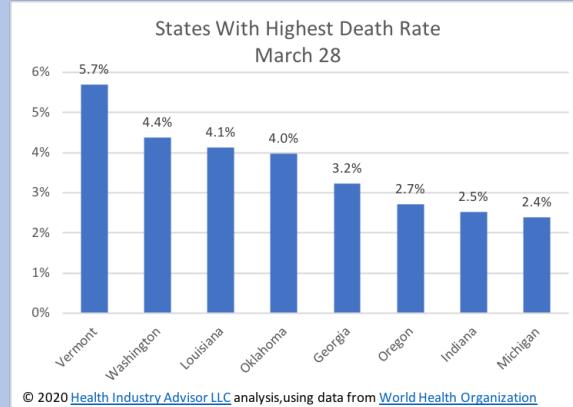
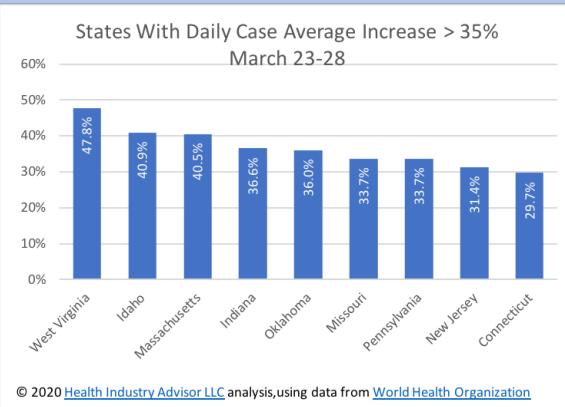
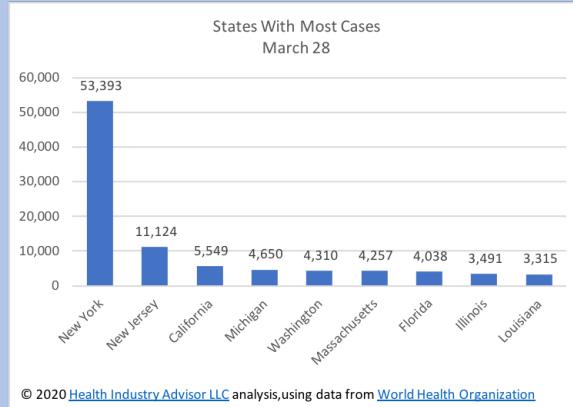
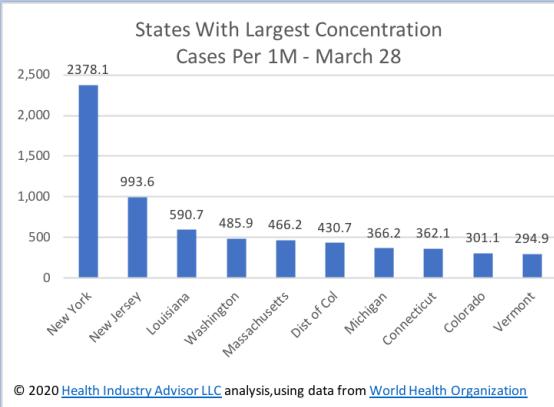


This pattern didn't emerge in the U.S., however, until March 22:



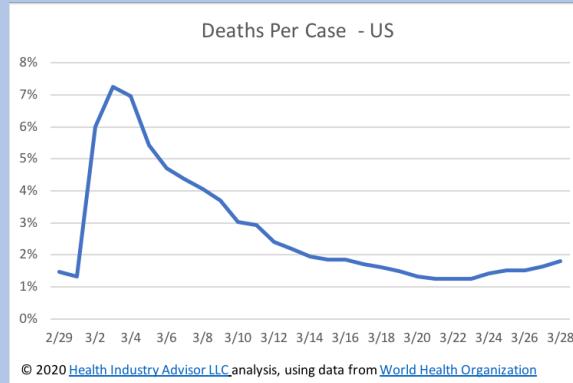
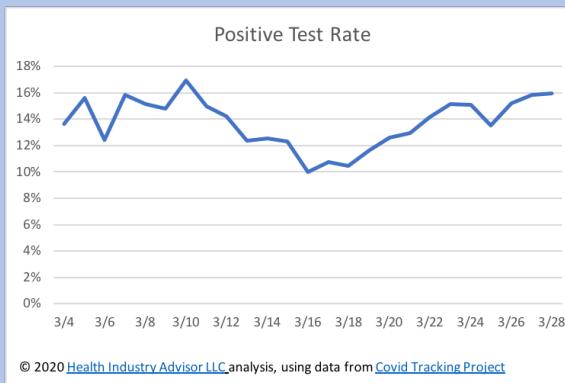
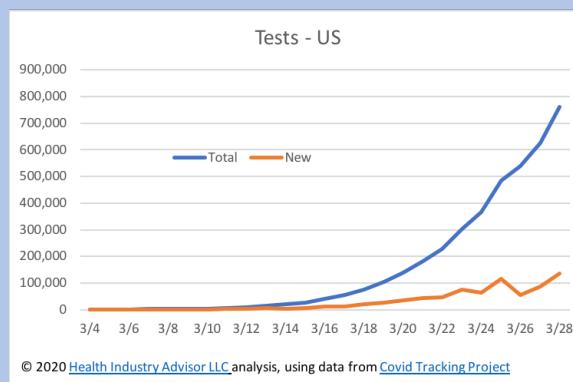
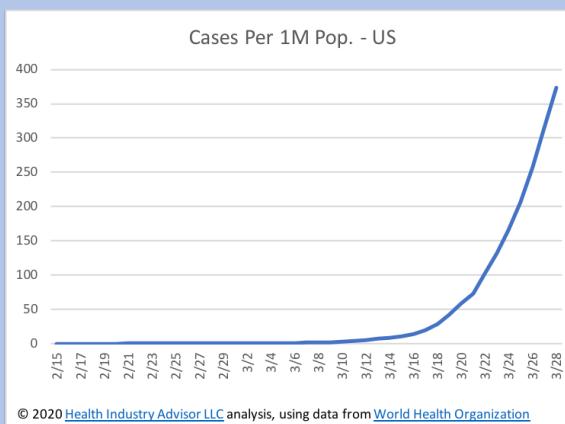
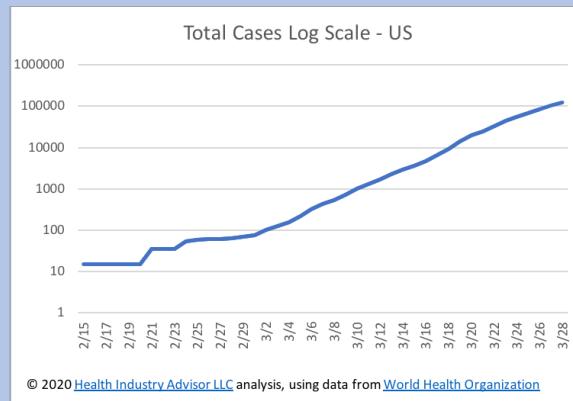
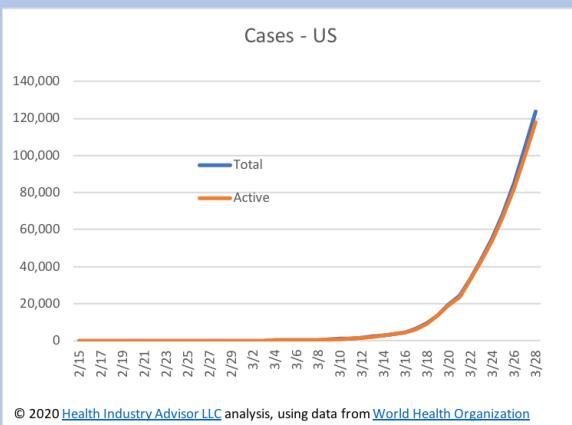
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