

MEMORANDUM

Date: April 6, 2021

To: State Finance Director

From: Sue Feldman, RN, MEd, PhD, Principal Investigator, GuideSafe program

Re: GuideSafe™ Tools Program Progress Report as of March 31, 2021

The GuideSafe™ Tools Program includes GuideSafe™ Healthcheck, GuideSafe™ Event Passport and GuideSafe™ Exposure Notification.

As of March 31, 2021:

GuideSafe™ Healthcheck has over 250,000 daily users across K-12 and higher education in Alabama. While many K-12 districts and all higher education have implemented GuideSafe™, cases have increased in Alabama.

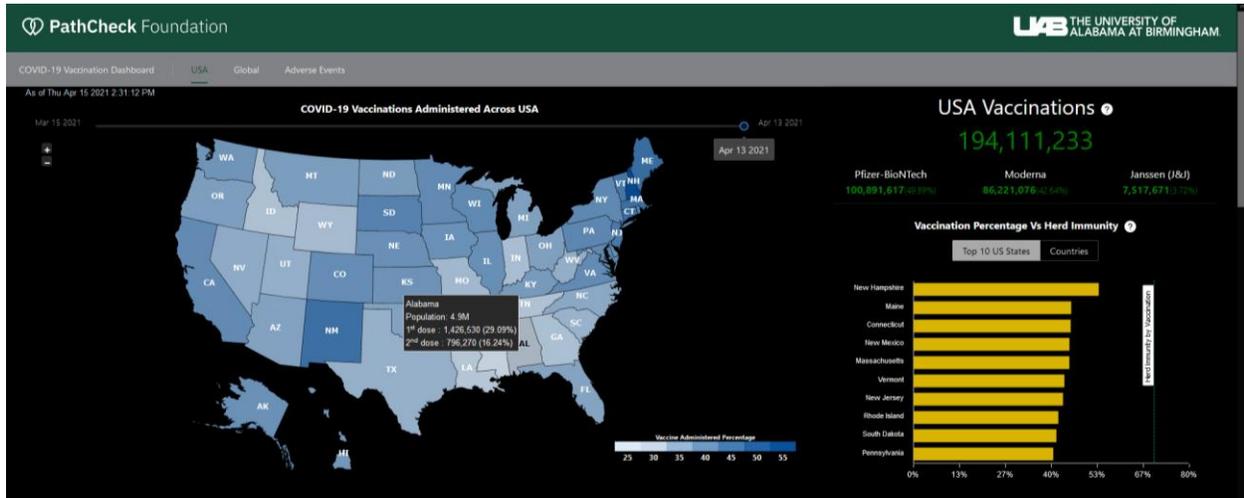
To provide a more comprehensive picture, we added a vaccination question to the Healthcheck survey. This question is not a required question in case the user does not want to answer it.

GuideSafe™ Event Passport is accessed for K-12 school entry and university classroom entry across Alabama. Since the passport is accessed several times daily across a variety of events, it is difficult to ascertain how many times this has been used; however, the passport can be accessed by the same 250,000 plus daily Healthcheck users. We have developed a Visitor Passport that is actively being used by Universities to control visitors, such as vendors, prospective students, visiting faculty, etc., on campus and to mitigate community spread on campuses.

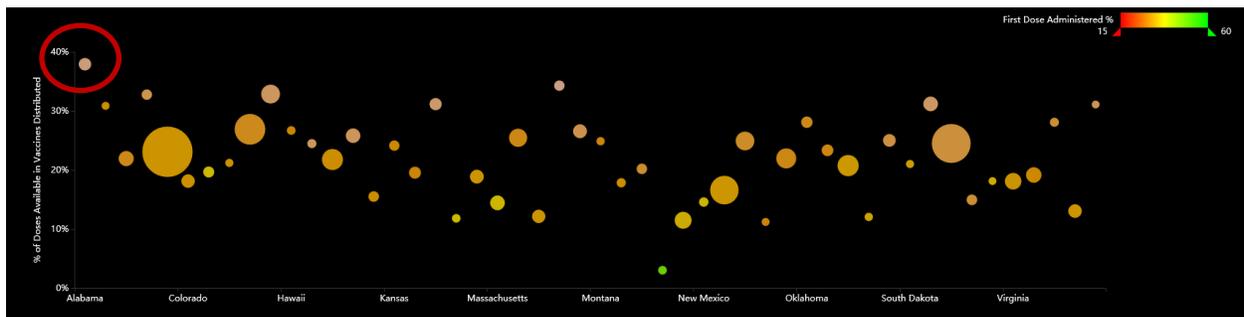
GuideSafe™ Exposure Notification has increased downloads to over 251,000 and approximately 1250 confirmed positive tests. These downloads translate to approximately 20% of the people in the state with a smartphone. We have been on the National Server for over 6 months. We do not get any data specific to our participation on the National Server; however unique to Alabama, all reports of positive test results are reported first to the ADPH server. To that end, our confirmed positive tests of 1250 is representative of Alabama data.

Vaccination Dashboard: Through our continued collaboration with PathCheck Foundation, we have released a vaccination dashboard (<https://vax.uab.edu>). The vaccination dashboard shows

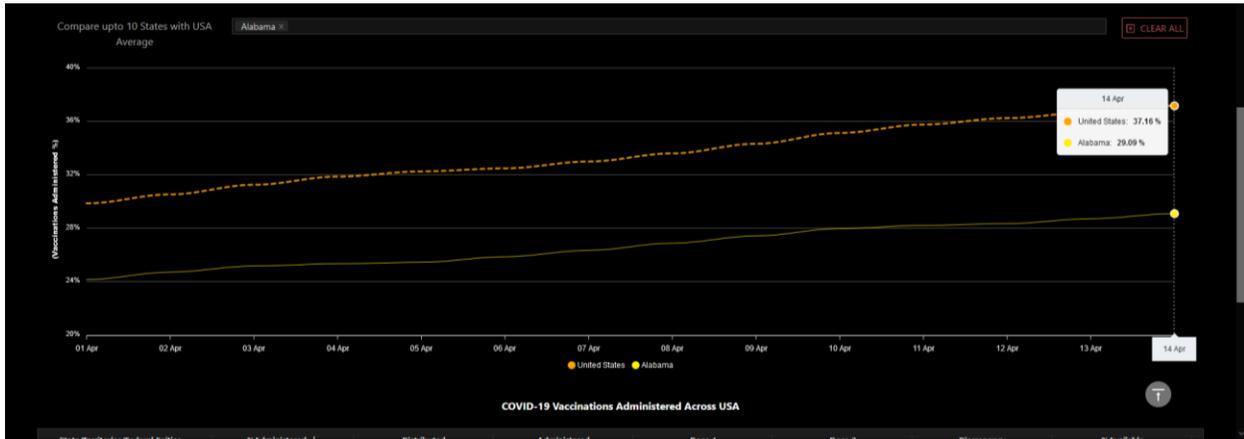
US and International efforts toward vaccination and herd immunity. The blue US map below shows individual state information on hovering. In the image below, we can see that Alabama is over 16% of the way toward 100% of the population immunized. This represents a 97% increase in vaccinations from that which we last reported. If herd immunity is 70%, then Alabama is almost 11.2% of the way toward herd immunity across the state.



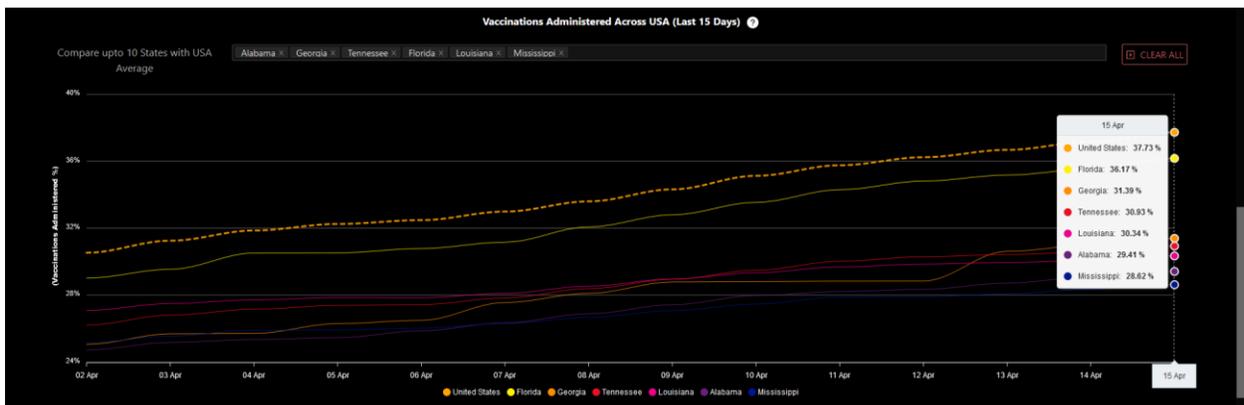
Next, we can look at how our vaccination administration is tracking that of the US or other states. The chart below shows vaccine doses available against those administered. The lower on the chart and the more toward green, the better. The size of the dot has to do with population. Alabama is outlined in red. High on the chart and a redish-orange indicating that there are a lot of doses available (over 37%), but not a lot of vaccinations relative to the amount of availability (just under 30%). This suggests a logistics issue in getting people vaccinated. The counter to this is the small green dot, which is New Hampshire, with almost 57% of their population vaccinated with very few of their doses available (under 2%)



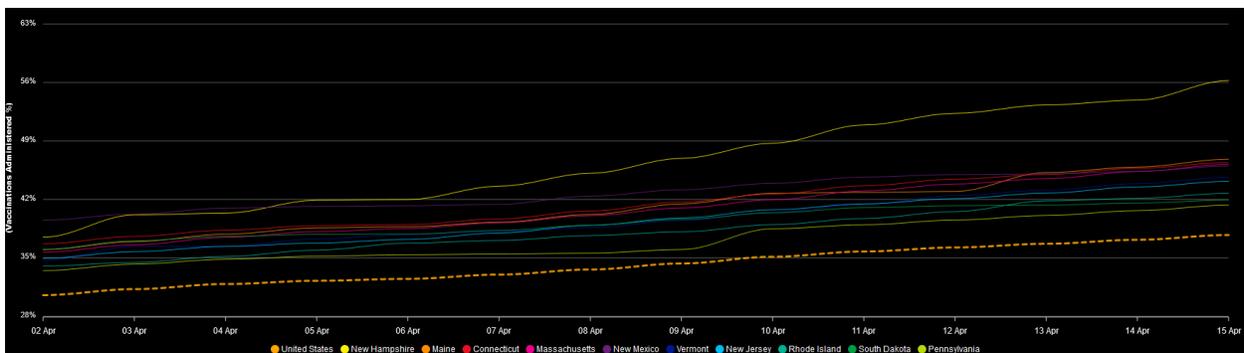
The diagram below shows a widening gap between Alabama (yellow) and the US (dotted). This is primarily because other states have excelled in vaccination administration pushing the US trendline up. This lagging also suggests a logistics issue with getting the vaccinations out to people.



We can also look at comparisons to our neighboring states. Below is highlighted April 15 which shows that Mississippi (blue) has the lowest number of vaccinations among all of our neighboring states with Alabama (purple) .8% behind.



Lastly, we can look at the top performing states, relative to the US. Consistent with other data visualizations, New Hampshire (yellow) is a clear leader, although we can see from the chart below that they really pulled away from the pack on April 4, 2021 when they pulled ahead of New Mexico (purple).



We are readying a manuscript for publication around the vaccination dashboard.

Adverse Events Dashboard: Part of the vaccination dashboard is an adverse events dashboard. Here you can see that more females than males report adverse events by about 3:1. In terms of

deaths, 43% are greater than 80 years old and almost 33% are 65-80 years old. It is important to understand that these adverse events are taken from the CDC Adverse Events database and causation cannot be established. We currently have a manuscript submitted to JAMA for data analysis that contributes to the adverse events dashboard.

