

COVID-19 Vaccine Update

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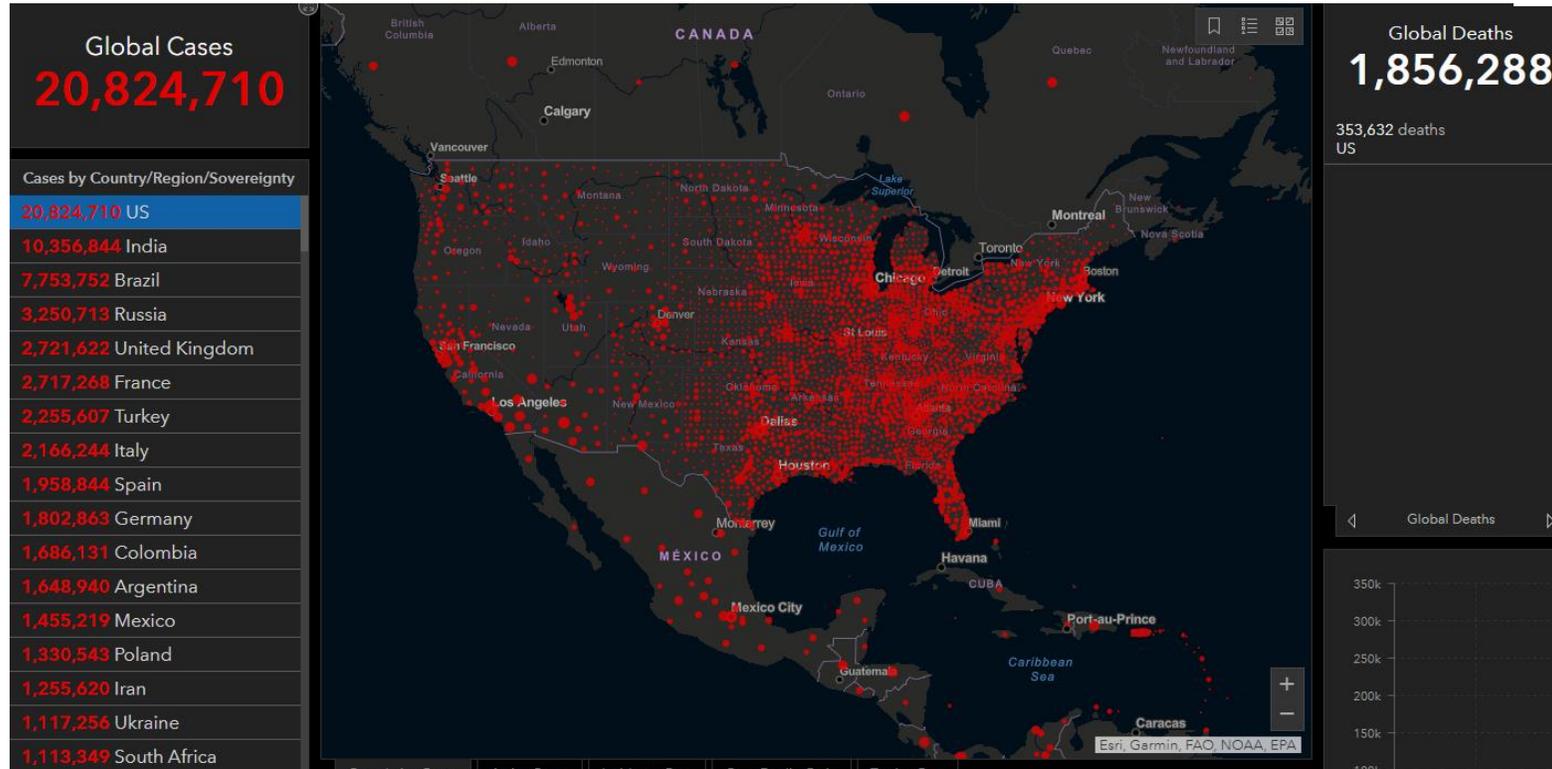
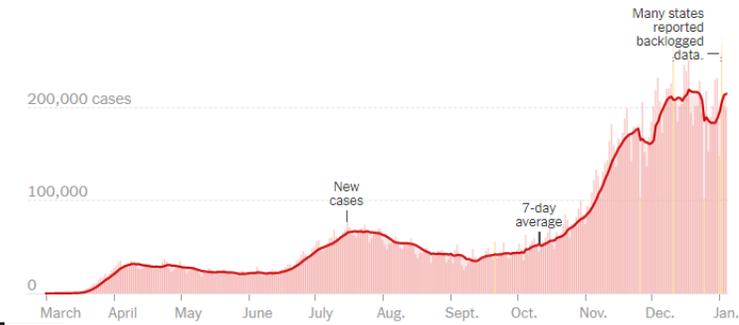
Benjamin Kruskal, MD PhD



What we'll cover tonight

- Welcome and Introductions
- Diversity and Vaccines
- About the Vaccines
- Your Questions

United States January 5th



➤ 7-day average = 214,270 infections/day

➤ 2,048 deaths/24 hours

➤ 353,632 deaths

Covid-19 is sending Black, Latino and Native American people to the hospital at about 4 times the rate of others



(CNN) - According to data provided by the **Center for Disease Control and Prevention (CDC)**.

Nonwhite Americans have been hit hard by the coronavirus pandemic. The number of Covid-19 cases among Black and Hispanic children and across all ages is higher than other groups. Black and Hispanic people infected with the virus also died at disproportionately higher rates.

Some communities of color, including Latinos and African Americans, are often uninsured or distrust the health care system. They have higher rates of conditions like hypertension, heart disease, diabetes, obesity, which can lead to more severe reactions to Covid-19, Dr. Lisa Cooper, Director of the Center for Health Equity.

Our commitment to **Diversity, Equity and Inclusion**

Equity is to have the ability to achieve the highest level of success, and health possible, regardless of who you are, economic status, and where you live.



What vaccines are we using?

- We are using either the Pfizer or Moderna COVID-19 mRNA vaccine.
 - Usually not practical for individuals to be offered a choice; also these two vaccines are very similar
- Each person gets 2 doses of the same vaccine either 21 days (Pfizer) or 28 days (Moderna) apart.
- Little data on different intervals between doses; CDC advises not more than 4 days SOONER; there is probably more flexibility on longer intervals.
 - (For most other vaccines, the intervals between doses can be longer and the series does not need to be restarted.)

The mRNA vaccines (Pfizer and Moderna)

- Do not contain live virus (or killed virus)
- Therefore, the vaccine cannot be transmitted to someone else.
- We expect them to be effective against the new variant strains from the UK and South Africa; we are awaiting the data.
- Some protection may begin as soon as 7 days after the first dose, though full protection is likely not reached until 2 weeks after the second dose.
- We don't know yet how long the protection lasts as the vaccines are so new.

How good are the vaccines?

- Both the Pfizer and Moderna mRNA vaccines are around 95% effective in preventing SYMPTOMATIC disease
- In a large group of unvaccinated people, **100** became ill from COVID-19. In a group the same size who were vaccinated, **only 5** got sick from COVID-19.



Safety

- Some people have mild-moderate side effects which are gone within 48-72 hours.
 - Soreness at the injection site
 - Non-localized symptoms: muscle aches, headache, fatigue, low grade fevers
 - More common after the 2nd dose and in younger people
 - The vaccine does NOT cause any respiratory symptoms: if you have cough, sore throat, shortness of breath, or loss of taste or smell, you may have been infected with the Covid virus and should seek medical care.
- No serious side effects noted in both trials where more than 35,000 people received one or the other mRNA vaccine. **Severe reactions are very rare.**

Allergic Reactions

- The mRNA COVID vaccines are safe for people who have allergies to
 - Penicillin, eggs, latex, gelatin, foods, bee or wasp stings
- After vaccination, you will be asked to wait for 15 or 30 minutes for observation. The length of time depends upon your history of prior allergic reactions.
- So far, serious allergic reactions (anaphylaxis) has been observed in less than 1 in 100,000 people who received these vaccines.
 - All who have had allergic reactions have done well
- For comparison:
 - 1 in 10,000 times that penicillin is appropriately prescribed, an anaphylactic reaction occurs.
 - Approximately one out of every 200 people has had an anaphylactic reaction to some medication at some point in their life.

Vaccine if you had or have COVID-19

- The mRNA vaccines are safe in people if you had COVID-19 before or when you receive the vaccine. You can go ahead and get the 2nd dose if you happen to get COVID-19 between the first and second doses.
 - Current guidelines: You can get the vaccine (either dose) after you are cleared to come out of isolation.

Mask Up

- It is not known for sure if vaccinated people can get COVID-19 infection without symptoms and therefore unknowingly pass it on to others
 - Preliminary evidence suggests vaccine reduces transmission at least somewhat.
- So, **even after vaccination** you should continue to:
 - Wear a mask
 - Observe PPE recommendations at work
 - Socially distance
 - Wash hands frequently
 - Do not come to work or go out if you are ill

Frequently Asked Questions

- **Children**

- FDA authorized down to age 16; trials included smaller number of kids down to age 12. Awaits more trial data specifically in younger children
- Kids aren't as likely to get seriously ill from Covid as adults
- Discuss with your child's health care provider

- **Pregnancy**

- Limited data but no evidence of adverse effects on pregnancy
- High risk of severe disease from Covid-19 during pregnancy
- Discuss with your health care provider

- **Breast feeding**

- Likely safe during breast feeding.

- **Fertility**

- No concerns

Q&A

Thank You