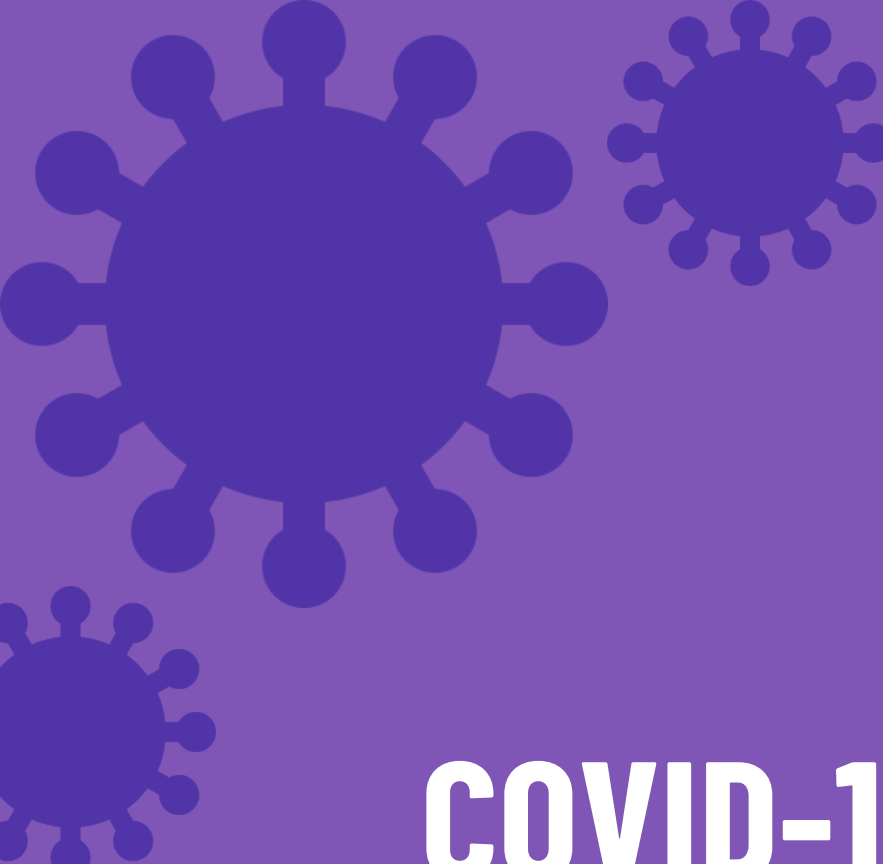




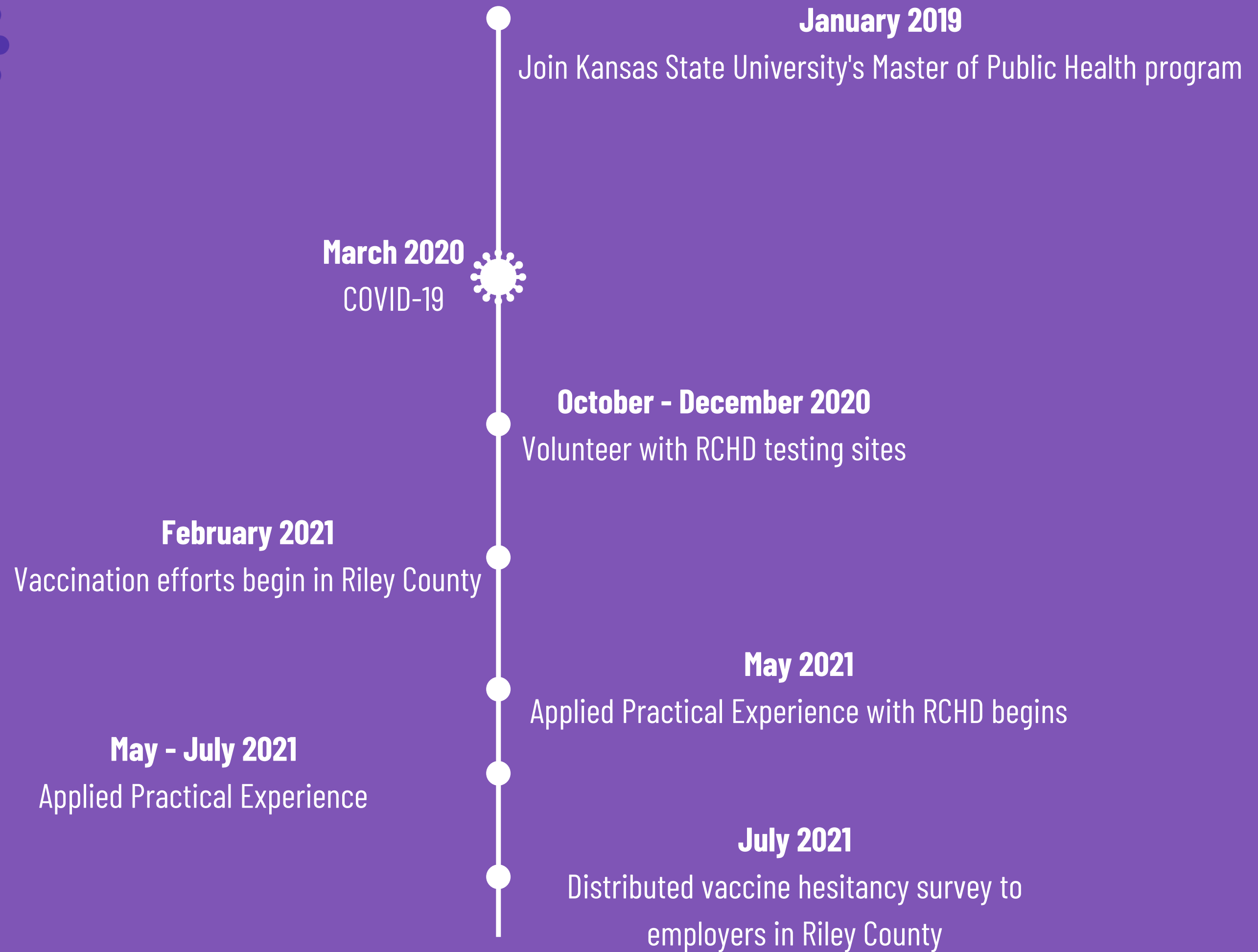
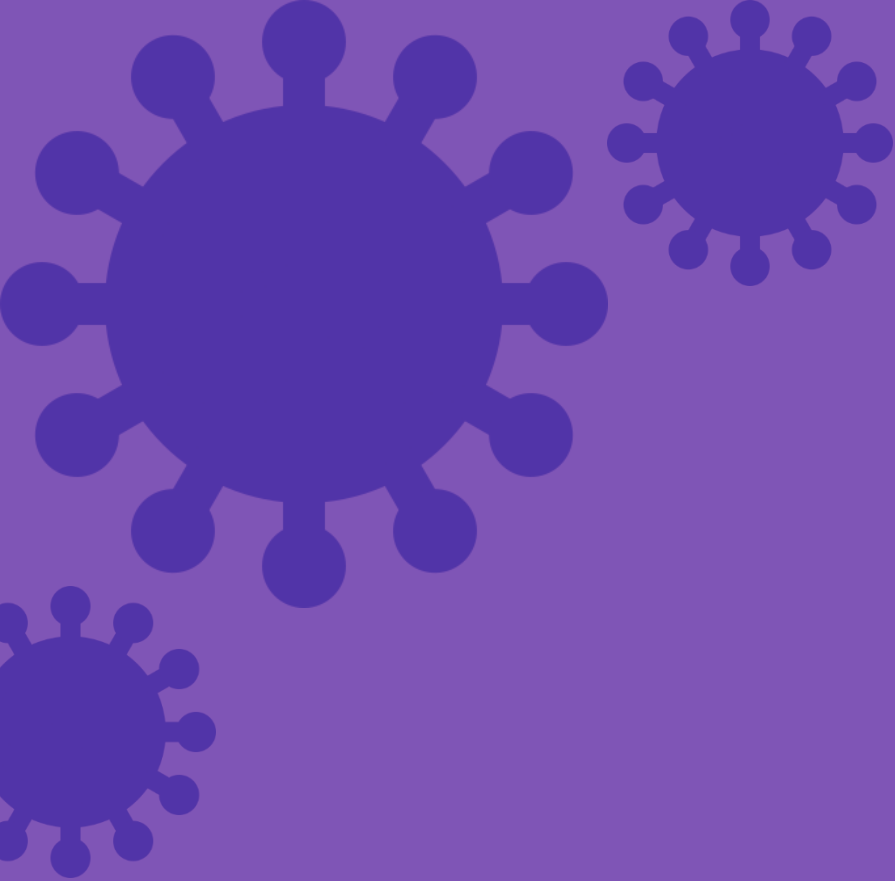
COVID-19 vaccine hesitancy in Riley County, Kansas

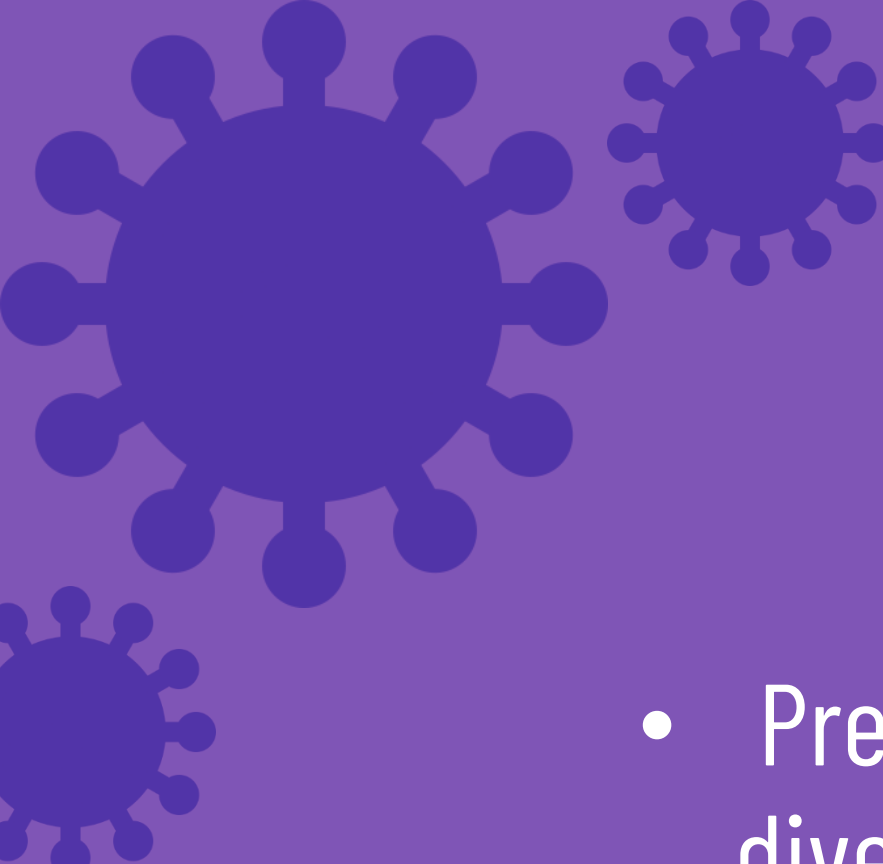
by Lindsay Mason

APE Site:

Riley County Health Department (RCHD) with Renee Lucas







Learning Objectives

- Prepare an appropriate & meaningful survey for a culturally diverse group of respondents
 - Analyze survey responses in a way that creates evidence-based observations and suggestions
 - Learn to coordinate and plan vaccination events in a mobile setting
 - Create outreach materials that increase turn-out to vaccination events
 - Improve skills in communication and cultural competence
- 

Experience with Riley County Health Department



- Attend testing & vaccination events
- Create marketing materials
- Assist with on-site testing
- Organize patient files
- Develop a vaccine hesitancy survey

COVID-19 TESTING



Now being offered at the
Manhattan Regional Airport
Monday, Wednesday, Friday 10AM to 3PM

Testing is FREE

Located in the Main Lobby

No appointment necessary

For more information after testing hours, please call 785-565-6558



Pool Party!

**RECEIVE A COVID-19 TEST AND
SWIM FOR FREE**

Join us at Northview Pool

June 25, 2021

• 3-6 PM

#SafeSummerChallenge



Blogs



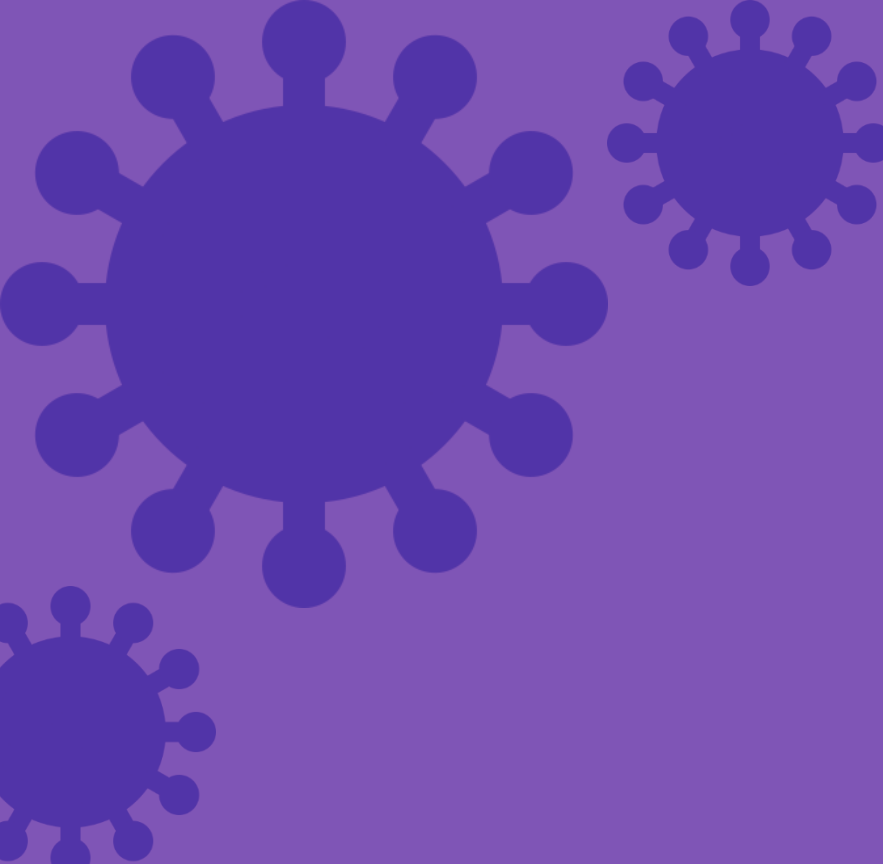
Diving into COVID-19



Vaccine Events: Learning the Do's and Don't's



The Fourth Wave



Testing→Vaccination

7,871 cases

58 deaths

33.4% of eligible population
vaccinated

data as of October 2021



Vaccine Hesitancy

*"delay in acceptance or refusal of vaccines
despite availability of vaccine services"*

-World Health Organization



Misinformation



Demographic Factors

*"threatening the historical
achievements made in
reducing the burden of
infectious diseases, which
have plagued humanity for
centuries"*



VAXXED

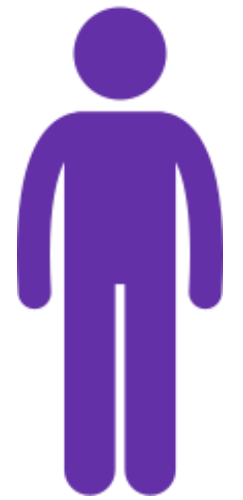
FROM COVER-UP TO CATASTROPHE



**THE NEW
SYMBOL OF
TYRANNY**



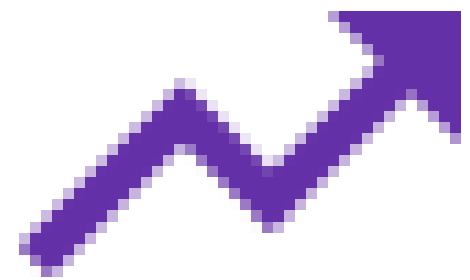




Demographic Factors

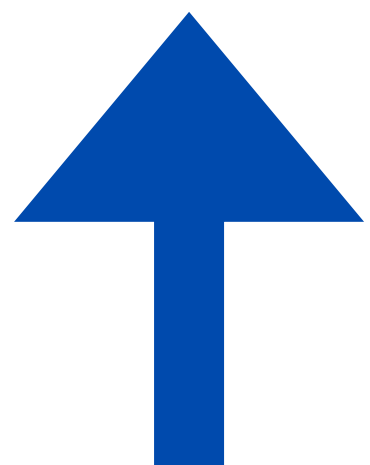
COVID-19 Vaccine Safety & Efficacy

Vaccine	Number of Doses	Trial Type (Number of Participants)	Efficacy Rate	Adverse Reactions - Timeline	Adverse Reactions – Clinical Signs	Life-threatening Adverse Reactions
Pfizer-BioNTech	2-3 weeks apart	Phase II/III (43,000)	95.0%	1 Day	Fatigue Headache Muscle pain Chills Nausea	Vaccine Recipients: 0.6% Placebo Recipients: 0.5%
Moderna	2-4 weeks apart	Phase III (30,000)	94.1%	2-3 Days	Injection site pain Fatigue Muscle pain Nausea Fever	Vaccine Recipients: 1.0% Placebo Recipients: 1.0%
Janssen (Johnson & Johnson)	1	Phase III (40,000)	74.4% (US)	1-2 Days	Injection site pain Headache Fatigue Muscle aches Fever	Vaccine Recipients: 0.4% Placebo Recipients: 0.4%

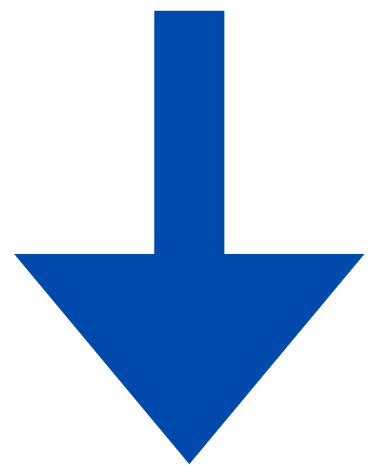


U.S. Vaccination Rates & Trends

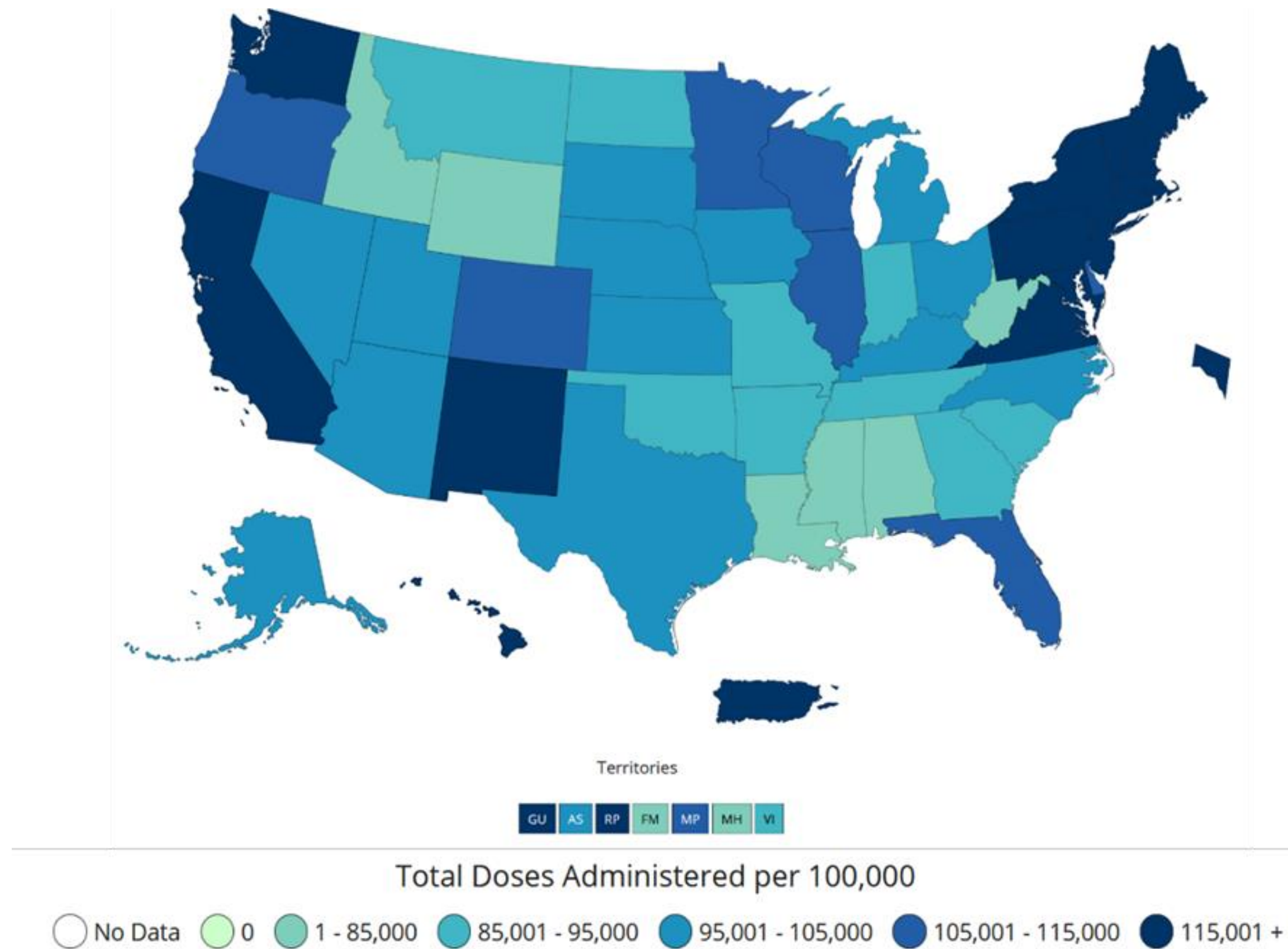
55.9% fully vaccinated



Massachusetts
Connecticut
Vermont



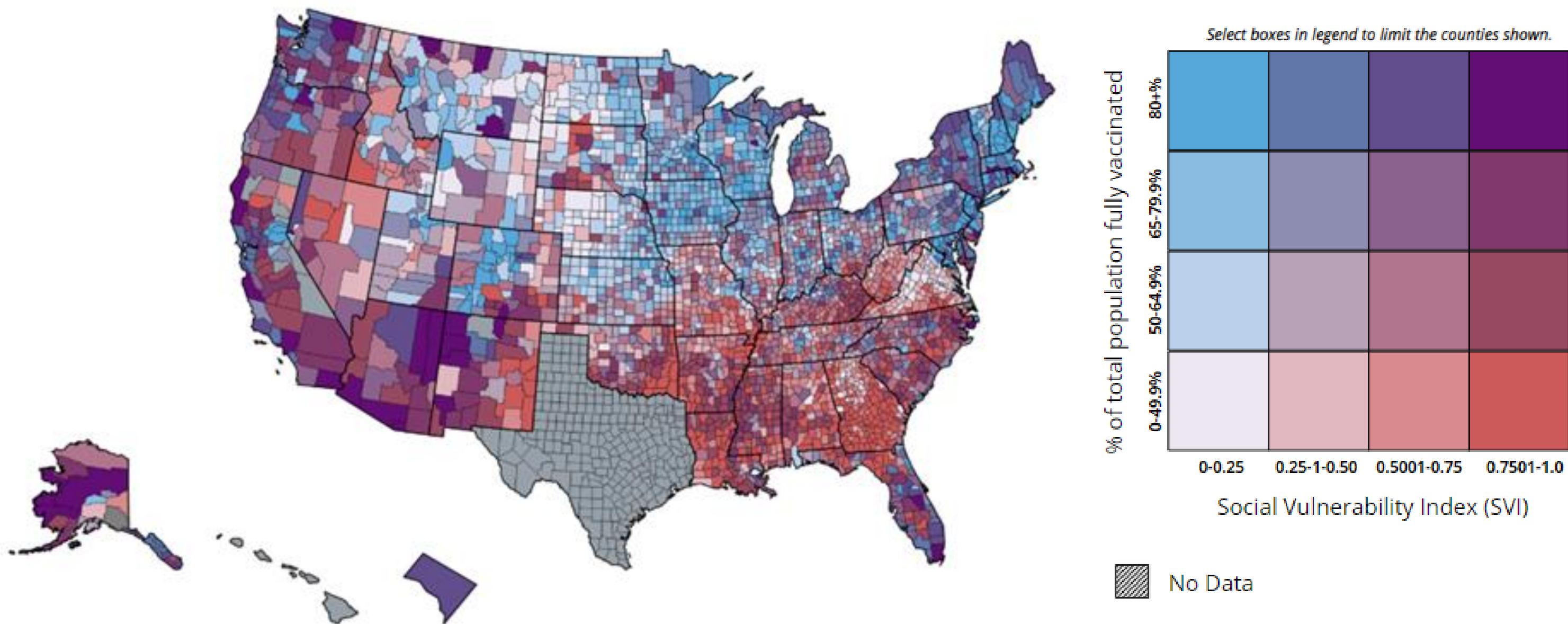
Alabama
Mississippi
Idaho

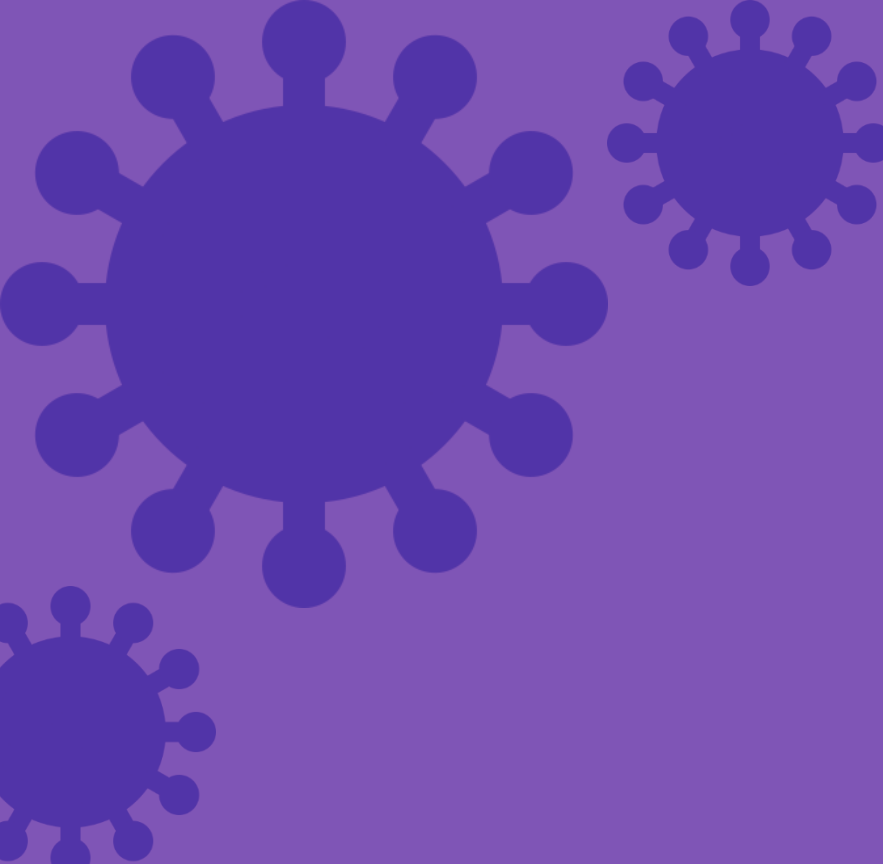


Social Vulnerability Index

Highest vaccination rates among White and Hispanic/Latino individuals

Lowest vaccination rates among American Indian/Alaskan Native, Asian, and Black individuals





Riley County, Kansas

7,871 cases

58 deaths

33.4% of eligible population
vaccinated

data as of October 2021



Survey Design



vaccination status



beliefs surrounding vaccine



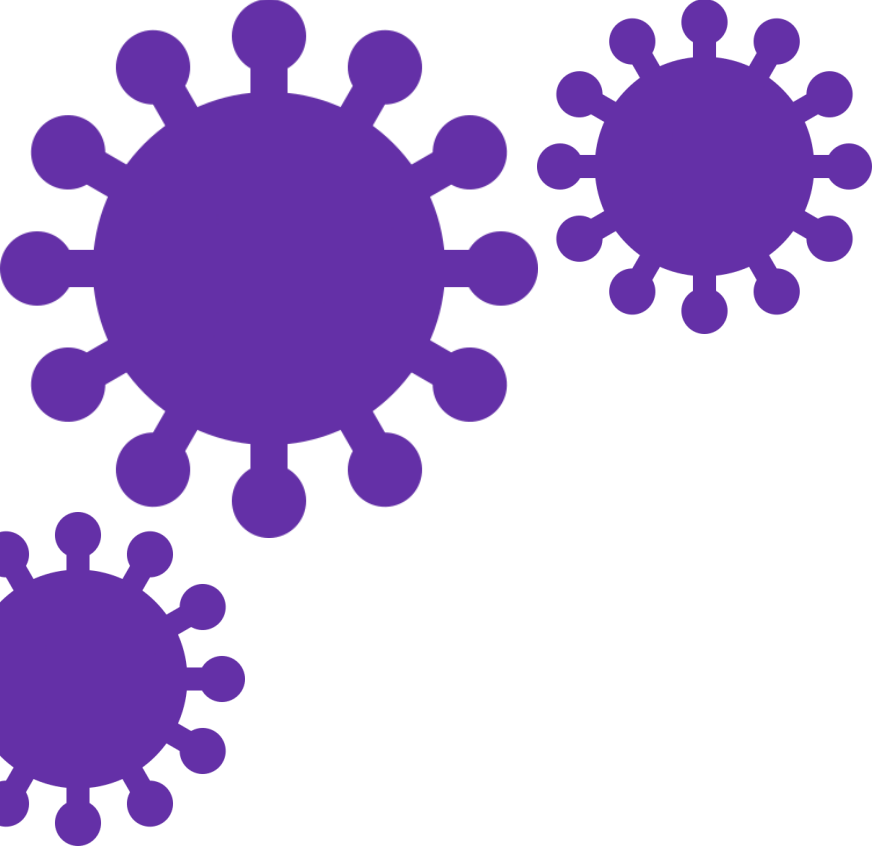
barriers



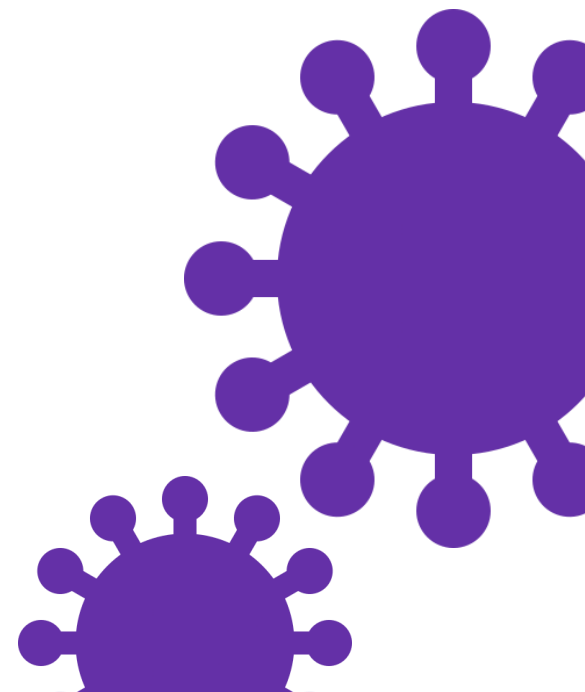
incentives

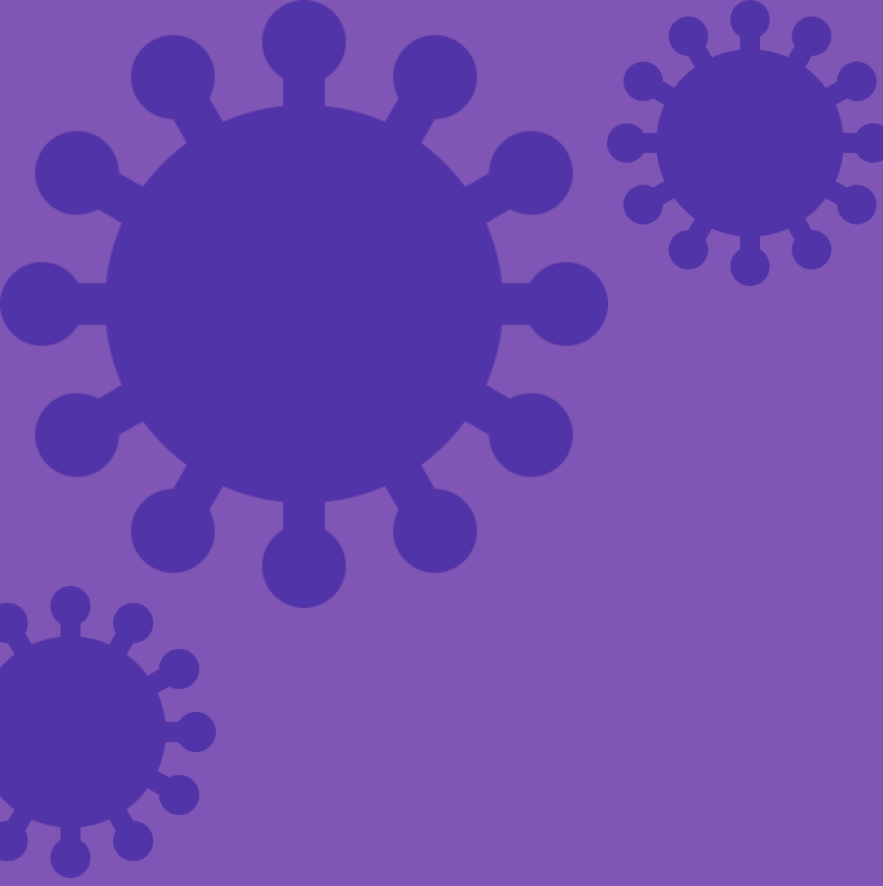


optional demographics



Results





77.8% of respondents were vaccinated

22.2% of respondents were not vaccinated



Why did you choose to vaccinate?

Theme	Frequency
To protect others (e.g., family members, community)	25
To protect themselves (general)	16
To prevent serious illness, death	13
Due to immunocompromising/health conditions	8
To mitigate the spread of COVID-19/increase herd immunity	8
Personal/moral responsibility	5
Due to occupational risk (e.g., healthcare worker, teacher)	3

Theme	Frequency
Trust in vaccinations, science, experts	12
Desire to return to 'normalcy' (e.g., stop wearing masks, travel, attend events)	10
Availability (e.g., access, free to receive)	3
Due to outside pressure (e.g., coworkers, family, work regulations)	3

"I have an elderly mother, a disabled husband, and a pregnant (at that time) daughter. There was no way I could live with myself if I passed COVID on to them so it was an easy choice!"

"It seemed like a no-brainer to help protect my family, students, coworkers, and community."

"I am a single mom with asthma and a young child at home. I need to keep myself and my daughter as safe as possible during this pandemic."

"It was the right thing to do for the pandemic!"

"I trust the science and healthcare officials that recommended I got it."

"It's the smart thing to do. I'm ready to carry on with a more normal life and the only way to get there is for everyone to get vaccinated."

"Because it was available and free."

"The rest of my coworkers were getting it and I did not want to be "that" person."

Beliefs held by non-vaccinated respondents

Statement	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A	Mean (SD)
I have not received the COVID-19 vaccine due to medical reasons.	3 (16.7%)	3 (16.7%)	4 (22.2%)	2 (11.1%)	3 (16.7%)	3 (16.7%)	2.93 (1.44)
I do not believe the COVID-19 vaccine is safe.	1 (5.6%)	1 (5.6%)	6 (33.3%)	2 (11.1%)	7 (38.9%)	1 (5.6%)	3.76 (1.25)
I believe the COVID-19 vaccine was released too fast.	-	1 (5.6%)	4 (22.2%)	2 (11.1%)	10 (55.6%)	1 (5.6%)	4.24 (1.03)
I am concerned about infertility.	2 (11.1%)	2 (11.1%)	5 (27.8%)	1 (5.6%)	4 (22.2%)	4 (22.2%)	3.21 (1.42)
I do not need the vaccine.	1 (5.6%)	-	5 (27.8%)	4 (38.9%)	7 (38.9%)	1 (5.6%)	3.94 (1.14)
I believe the COVID-19 vaccine is not effective.	1 (5.6%)	1 (5.6%)	7 (38.9%)	4 (22.2%)	4 (22.2%)	1 (5.6%)	3.53 (1.12)
I cannot get time off to receive the COVID-19 vaccine.	8 (44.4%)	4 (22.2%)	4 (22.2%)	-	-	2 (11.1%)	1.75 (0.86)
Note. Individuals who reported "Not applicable" were excluded from analysis of mean and standard deviation. Means based on a 5-point scale (1=Strongly Disagree to 5=Strongly Agree).							

"Fear of needles"

"Feel like I'm healthy enough if I get the virus"

"To me it's just another case of the flu, and I haven't gotten a flu vaccine in over 7 years so why start now."

Potential barriers to vaccination

Barrier	Frequency	Percent
Personal belief system	10	55.6%
Other	8	44.4%
Transportation	1	5.6%
Time	-	-
Money	-	-

"Concerns over adverse medical reaction."

"I don't want it."

"Side effects of the vaccine. Don't want to get something that they aren't even sure when you'll need a booster"

Potential incentives to vaccinate

Incentive	Frequency	Percent
Nothing	10	55.6%
Other	3	16.7%
Cash incentive	2	11.1%
One dose vs. two	2	11.1%
Time off	1	5.6%
Access	1	5.6%

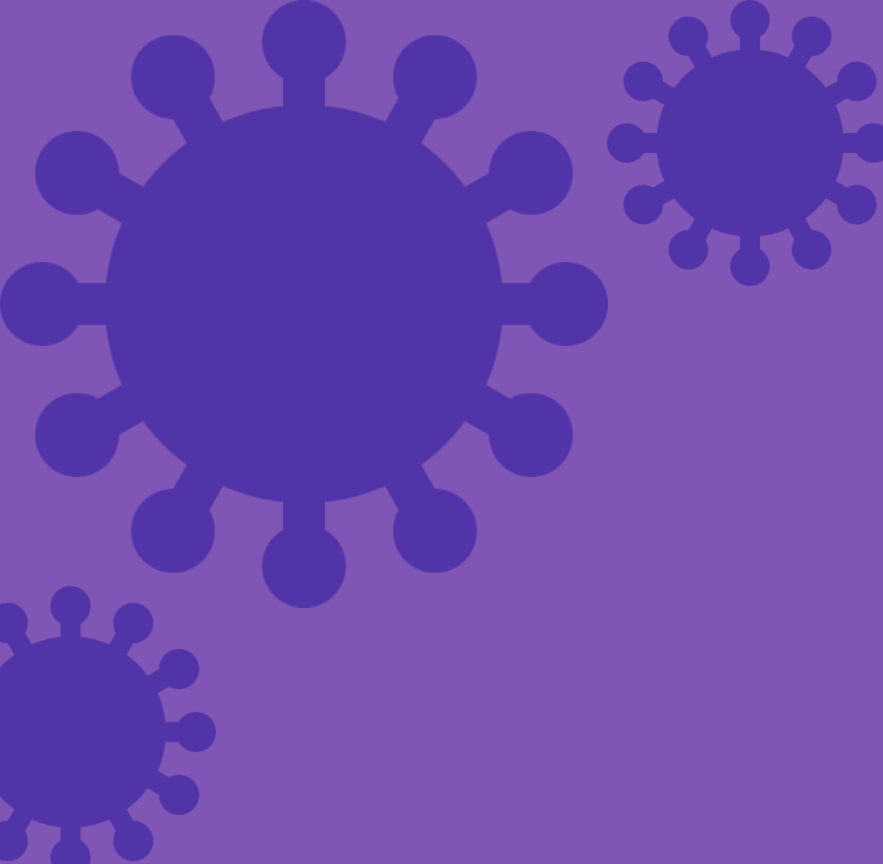
"Further research and studies."

"If I could be guaranteed that it will not affect my heart."

"40,000 dollars."

Demographic trends

Age Group	# Vaccinated (%)	# Non-Vaccinated (%)
18-24	3 (50.0%)	3 (50.0%)
25-34	15 (71.4%)	6 (28.6%)
35-44	14 (87.5%)	2 (12.5%)
45-54	12 (70.6%)	5 (29.4%)
55-64	12 (92.3%)	1 (7.7%)
65-74	6 (100%)	-



Discussion & Reflection

- Access may not be as limiting as we thought
- Need for more education initiatives
- Survey studies have limitations

My studies during the MPH program directly impacted my ability to conduct and analyze this study



Acknowledgements

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