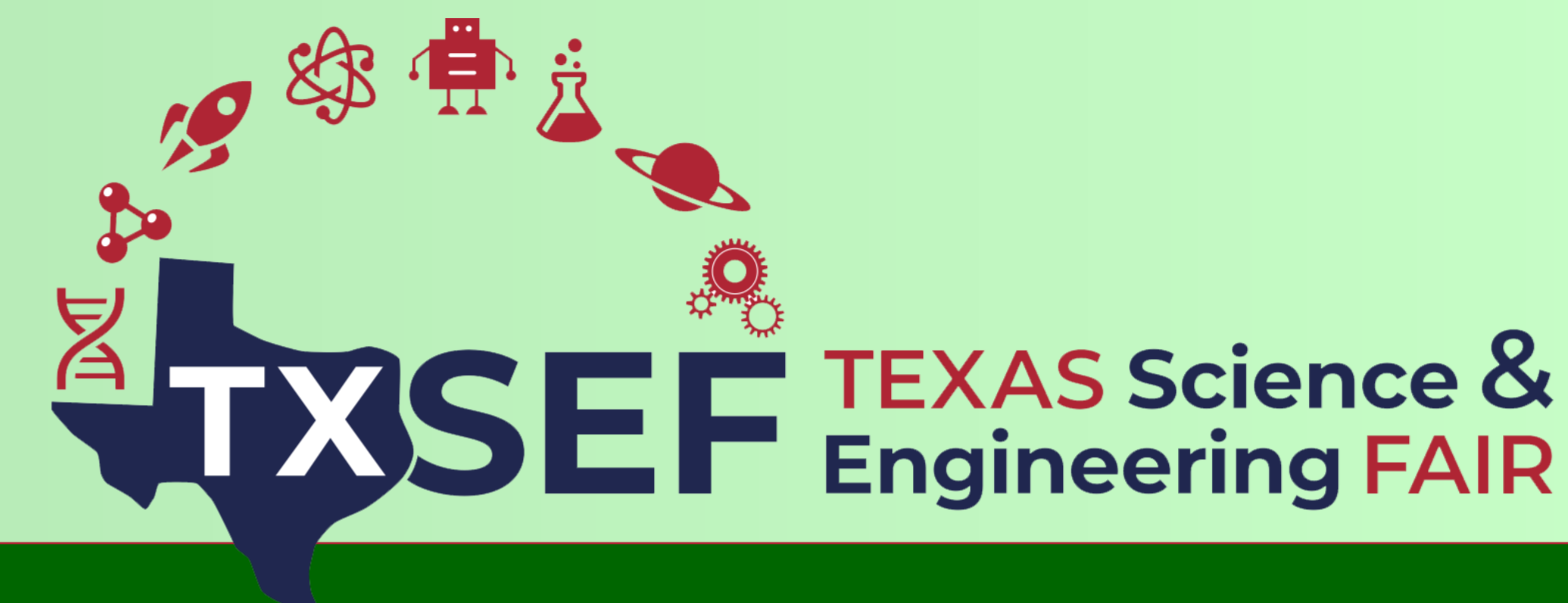


# PROGRAM COMPARING COVID DATA



## Sciencert Project #197530

### Problem / Question

Will the effect of the COVID vaccine and booster reported in the national media represent the reality of high school students?

### Hypothesis

It is very likely that the effectiveness of the COVID vaccine and booster reported in the national media is not truly representing the reality of high school students.

### Variables

Controlled variable(s)

- Media

Independent variable

COVID vaccine and booster status

Dependent variable

- Number of individuals

### Background Research

It has been seen before that the media does not give an accurate representation of the reality we are living in. When COVID-19 came out people became sick in numerous amounts. However, when the vaccine came out, the media started portraying that the number of people who became sick decreased drastically.

### Materials

- Python 3 editor
- Python 3 coding
- Media date – local, county, and national
- Anonymous people – 200

### Procedure

- Human consent forms filled and issued before survey completion. In addition, it was addressed that everything would be confidential.
- A python 3 program was created from scratch using modules to create graphs.
- Before the participant fills out the survey, they will receive a consent form for their parents to fill out.
- In addition, before they take the survey, they will be told that it will remain anonymous. As well, they will be told that they will be answering COVID-related questions and the only personal question that will be asked is their age.
- The participants will be asked the following questions:

Run 1=>  
 What is your age:  
 You put { } as your age. Is this correct? 1. Yes 2. No  
 Have you been vaccinated? (Yes or No):  
 { }, you received the vaccine. Is this correct?  
 1. Yes 2. No  
 Did you get the booster? (Yes or No):  
 { }, you received the booster. Is this correct?  
 1. Yes 2. No  
 How many times have you gotten COVID? (In total):  
 You put { } as the number of times you have gotten COVID. Is this correct? 1. Yes 2. No  
 Choose from the following choices:  
 1: "Never got sick with no vaccine"  
 2: "Never got sick with vaccine"  
 3: "Never got sick with the booster"  
 4: "Got sick with no vaccine"  
 5: "Got sick with vaccine"  
 6: "Got sick with the booster"  
 { }, was your choice. Is this correct? 1. Yes 2. No  
 5. The program will compile the data.  
 6. The media data and the program will compare both data and will output the result.

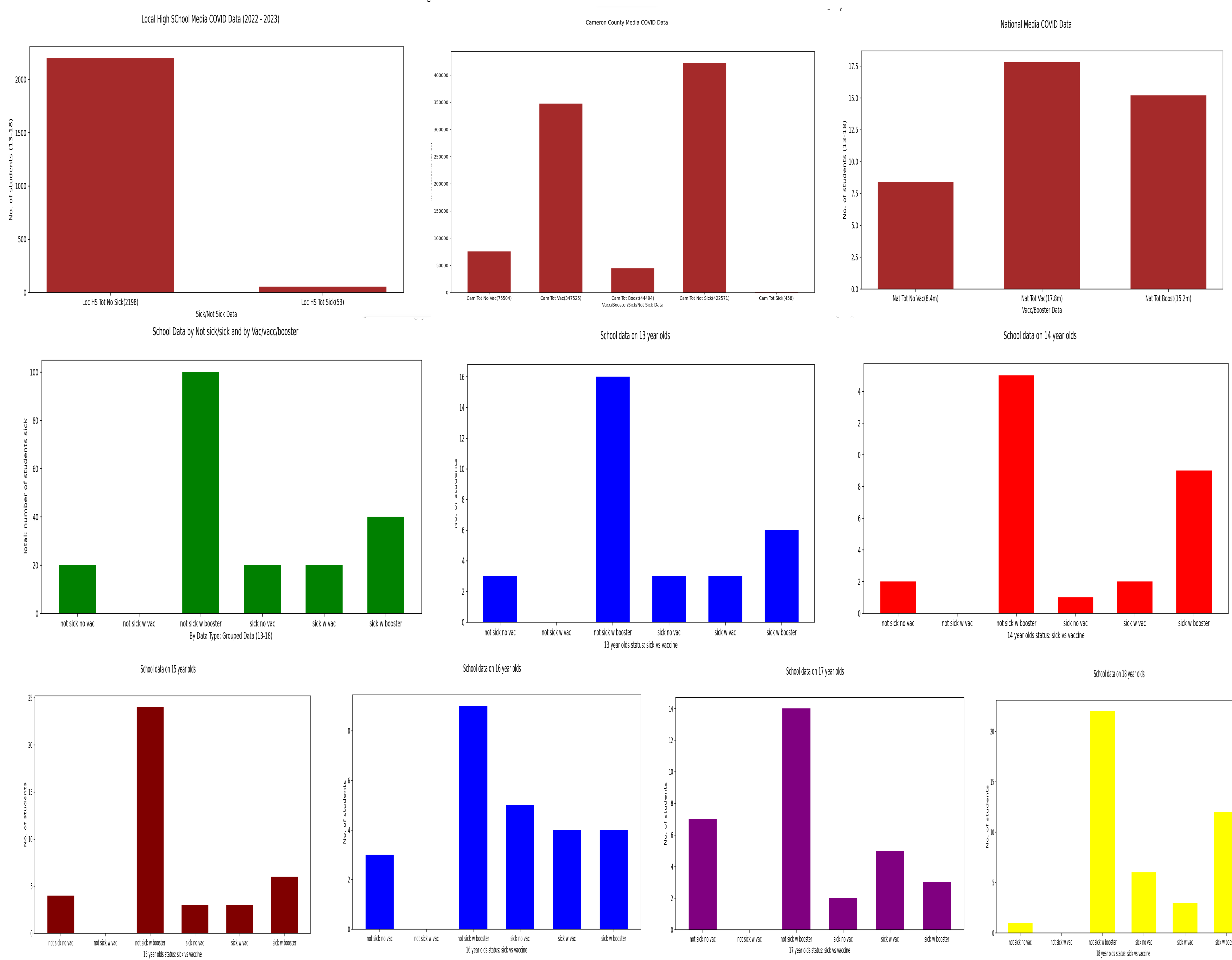
### Data / Observations

- Collected data was used from people vs media data. In addition, graphs will compare the results. The local data, county, and national graphs show how the media's data shows an extreme difference from the reality of high school students.

### Photos



### Graphs



## Results

50% of people indicated in the system that they did not get COVID after the vaccine/booster. The remaining 10% indicated in the system that they did not receive the vaccine/booster and did not get COVID. 10% indicated that they did get COVID and did not receive booster/vaccine. 20% indicated in the system that they got COVID and still had the vaccine/booster. 10% indicated in the system that they got COVID but only had the vaccine.

## Conclusion

At the end of the results, the media was not completely perfidious about the vaccination effects. Even though some people did get COVID after the vaccine/booster, most people commented that they did not. The way the results were based was on the range conducted between the people. 50% of people indicated in the system that they did not get COVID after the vaccine/booster. The remaining 10% indicated in the system that they did not receive the vaccine/booster and did not get COVID. 10% indicated that they did get COVID and did not receive booster/vaccine. 20% indicated in the system that got COVID and still had the vaccine. 10% indicated in the system that they got COVID but only had the vaccine. National, local, and county media data varies; however, it is seen that there is an extreme contrast in the number of people sick and not sick compared to the reality of high school students.

## Works Cited

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