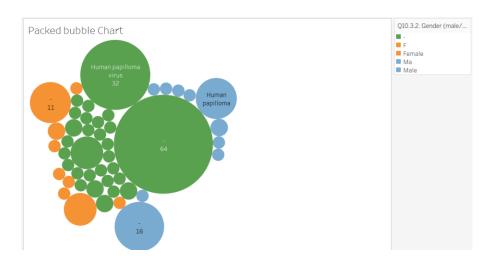
Part 1

Word Cloud





• Explain what the bubble chart tells you that the word cloud can't.

The bubble chart is able to separate answers that were female versus male. Not all answers were able to be separated. I found it interesting that the correct answer "human papilloma virus" did not have any gender data. Also the size of the bubbles and the counts added inside the bubbles makes them much easier to distinguish than the more abstract word cloud.

Link to Tableau: https://public.tableau.com/app/profile/chris.charles.arnold

Part 2

• How might unstructured survey data supplement your student project?

You could use it to create a more human connection to the data in the beginning of a presentation. Just because we love data and analyzation in this course does not mean that all will easily be drawn in to the presentation. Also while slightly related but different in some respects, this type of data can show the vastness of human thought depending on what you are looking at.

 What sort of data might you receive from unstructured survey questions posed to staff and patients?

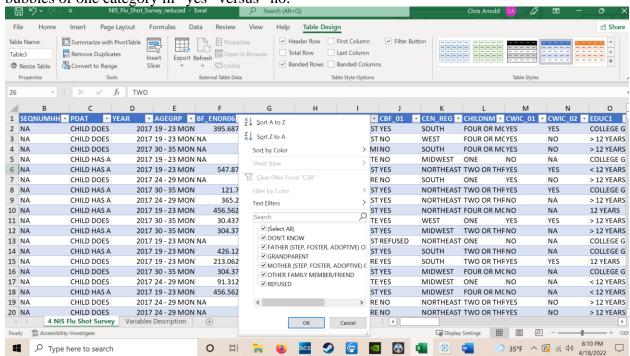
If you ask personal questions on opinions, this is where you will see a great variety in answers. Everyone thinks differently and will thus write differently how they think. Free form answers will also make people feel less limited and more likely to give true opinion versus adapt slightly to give an answer seen.

How could textual analysis be used to produce insights from this data?

Even though the data may be free form, there will be similar answers and also many will write the same things. A word cloud will more easily deliver an easily recognizable trend presentation to those who don't respond well to pure number presentation.

• How might surveys or other forms of unstructured data be useful to analyze as a *next step* in this project?

One specific thing that I thought of while looking over the data sets that have survey data involved. Looking at the below category, it would be interesting to show the relationship between the parental type situation and the flu shot rate. You could show 2 separate bubble charts with one being vaccinated and the other being non vaccinated and see if there were bigger bubbles of one category in "yes" versus "no."



• With influenza staffing needs determined and plans in place for the next influenza season, how might you use textual analysis to measure the success of the project?

You could directly ask the staff members in a survey to write how the execution of the plan made them feel during the year. Answers like "prepared," "ready," or focused"

versus "chaotic," "understaffed," or "anxiety-ridden" along with their frequency could give a good indication that does not rely on the death numbers or infection rates.

• How could textual analysis be used to produce insights from this data?

As implied above, a word cloud or bubble chart could easily bring visual cues to the frequency of the above answers.