

Executive Summary

I've always been concerned about not receiving the best quality of care due to my race, location, or socioeconomic status, thus I'm interested in diving deeper into the Social Determinants and Health Equity data on Asthma from the CDC's HealthData.gov. I pose the following question: What is being done with asthma control across varying socioeconomic statuses and locations? The final capstone will contain a variety of charts, maps, and graphs to analyze how societal events and equal access to healthcare impact individuals with asthma. The analysis will be presented via a Tableau story. I foresee challenges with merging the datasets, ensuring the headings of columns align, and finding similarities to link the data being analyzed.

Motivation

As a baby, I was hospitalized and diagnosed with severe asthma. It is a hereditary condition for me and others in my family who had a similar diagnosis. I was placed on steroids and was given various medications to combat the symptoms. My mother was told I would grow out of having Asthma as my lungs developed but I never did. I still suffer from the illness but I've adapted my life to not allow it to cause me limitations. I chose this project because as an adult I've wondered about the types of treatments I've been given and if they've actually worked. I've always been concerned about not receiving the best quality of care due to my race, location, or socioeconomic status, thus I'm interested in diving deeper into the Social Determinants and Health Equity data on Asthma.

Data Question

What is being done with asthma control across varying socioeconomic statuses and locations?

https://www.cdc.gov/asthma/pdfs/Moving_the_Needle_Asthma_Control-508.pdf

Minimum Viable Product (MVP)

The final capstone will contain a variety of charts, maps, and graphs to analyze how societal events and equal access to healthcare impact individuals with asthma. The analysis will be presented via a Tableau story. The intended audience for this presentation includes but is not limited to individuals living with asthma, parents of children with asthma, asthma advocates/liaisons, and government officials that could potentially improve legislation around the topic.

Schedule (through <08/19/2022>)

1. Get the Data (08/04/22)
2. Clean & Explore the Data (08/08/22)
3. Create Presentation of your Analysis (08/10/22)
 - Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI
4. Internal demos (08/12/22)
5. Demo Day!! (08/19/22)

Data Sources

*Social Determinants and Health Equity Resource Guide via HealthData.gov
Asthma Call-back Survey (ACBS) and Asthma Surveillance Data*

<https://healthdata.gov/dataset/Social-Determinants-and-Health-Equity-Resource-Guide/vbjv-rh5z/data>

https://www.cdc.gov/brfss/acbs/2019_documentation.html

<https://chronicdata.cdc.gov/500-Cities-Places/PLACES-Local-Data-for-Better-Health-County-Data-20/swc5-untb/data>

<https://www.cdc.gov/places/>

Known Issues and Challenges

- *Merging the datasets*
- *Ensuring the headings of columns align*
- *Finding similarities to link the data being analyzed*