**ANDREA EDITING**  
North Central Washington Epi Consortium Community Health Indicator Construction: Data Download and Cleaning Methods Document

This documents the construction of Community Health Assessment Metrics for the NCW Epi Consortium. Each indicator is listed under its corresponding data source. ***There is also a Table of Contents organized by (health category? Data source? Not sure the best way to organize this) at the top indicating where each indicator can be found in this document.* Each data source has a corresponding Rmarkdown script that is used to do the data cleaning and a PowerBI dashboard used for data visualization.**

*Selection of Indicators*

Community Health Assessments were queried from LHJs within the NCW Epi Consortium. Similar indicators were aggregated together to come up with a list of over 100 different health indicators. From this list, indicators used in 2 or more previous Community Health Assessments were included within the final list. LHJs then met and decided on other indicators that were important to LHJs. **In September 2023, the NCW Epi consortium decided on 26 indicators to prioritize for the initial construction of the dashboards. Those 26 are included in this document, but we anticipate that more indicators will be added over time.**

**TABLE OF CONTENTS TO BE ADDED HERE ONCE DOCUMENT IS DONE. WANT TO MAKE SURE IT ALSO HAS DEFINITIONS**

Template to be used for each data source:

* Description of the data source
* Where to access the data (general URL or method, like *tidycensus*)
* How often the data are updated
* Step by step instructions on how to access/download the data
  + Variables needed for the given indicator
  + Naming convention for the data once downloaded
  + Split up by county/state level if needed
* Where the data should go after downloaded
* How the data are to be cleaned/formatted for PowerBI use

# Community Health Assessment Tool (CHAT)

Note: In order to gain access to CHAT, you need to be granted access by the Epidemiologist who oversees this data tool. For information about gaining access, email: Kaylee.Kim@doh.wa.gov

# Cause of Death

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report. If possible, try to select a number of years that can be broken into 5-year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Cause\_Mortality\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report. If possible, try to select a number of years that can be broken into 5-year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Cause\_Mortality\_CHAT\_Chelan\_Communities\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report. If possible, try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Causes\_Mortality\_CHAT\_LHJs\_Aggregated\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Five Year Increments

### County

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Cause\_Mortality\_CHAT\_Chelan\_State\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Cause\_Mortality\_CHAT\_Chelan\_Communities\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Leading\_Causes\_Mortality\_CHAT\_LHJs\_Aggregated\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Hospitalization

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Topic Filters: Do not select either option. Leave default setting.
   3. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”.
   4. Year: Select all years that you would like to include within your report.
   5. Geography: Select your County of interest and click the Include State Total button
   6. Age: All Ages (Combined)
   7. Gender: All Genders (Combined)
   8. Race: All Races (Combined)
   9. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_CHAT\_Chelan\_State\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_CHAT\_Chelan\_Communities\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_CHAT\_LHJs\_Aggregated\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Hospitalization in Children

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Topic Filters: Do not select either option. Leave default setting.
   3. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”.
   4. Year: Select all years that you would like to include within your report.
   5. Geography: Select your County of interest and click the Include State Total button
   6. Age: Select 20 Groups (Age) and then select <1, 1-4, 5-9, 10-14, 15-17
   7. Gender: All Genders (Combined)
   8. Race: All Races (Combined)
   9. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Youth\_CHAT\_Chelan\_State\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: Select 20 Groups (Age) and then select <1, 1-4, 5-9, 10-14, 15-17
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Youth\_CHAT\_Chelan\_Communities\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “Leading Causes”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: Select 20 Groups (Age) and then select <1, 1-4, 5-9, 10-14, 15-17
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Youth\_CHAT\_LHJs\_Aggregated\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Hospitalization in Young Adults

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Topic Filters: Do not select either option. Leave default setting.
   3. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   4. Year: Select all years that you would like to include within your report.
   5. Geography: Select your County of interest and click the Include State Total button
   6. Age: Select 20 Groups (Age) and then select 18-19, 10-24
   7. Gender: All Genders (Combined)
   8. Race: All Races (Combined)
   9. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Young\_Adults\_CHAT\_Chelan\_State\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: Select 20 Groups (Age) and then select 18-19, 20-24
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Young\_Adults\_CHAT\_Chelan\_Communities\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: Select 20 Groups (Age) and then select 18-19, 20-24
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Young\_Adults\_CHAT\_LHJs\_Aggregated\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Hospitalization in Adults

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Topic Filters: Do not select either option. Leave default setting.
   3. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   4. Year: Select all years that you would like to include within your report.
   5. Geography: Select your County of interest and click the Include State Total button
   6. Age: Select 20 Groups (Age) and then select 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64
   7. Gender: All Genders (Combined)
   8. Race: All Races (Combined)
   9. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_ Adults\_CHAT\_Chelan\_State\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: Select 20 Groups (Age) and then select 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Adults\_CHAT\_Chelan\_Communities\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: Select 20 Groups (Age) and then select 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_ Adults\_CHAT\_LHJs\_Aggregated\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Hospitalization in Older Adults

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Topic Filters: Do not select either option. Leave default setting.
   3. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   4. Year: Select all years that you would like to include within your report.
   5. Geography: Select your County of interest and click the Include State Total button
   6. Age: Select 20 Groups (Age) and then select 65-69, 70-74, 75-79, 80-84, 85+
   7. Gender: All Genders (Combined)
   8. Race: All Races (Combined)
   9. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Older\_Adults\_CHAT\_Chelan\_State\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: Select 20 Groups (Age) and then select 65-69, 70-74, 75-79, 80-84, 85+
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Older\_Adults\_CHAT\_Chelan\_Communities\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Hospitalization Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate: Specified Age Range
   2. Diagnosis: Click the “Code Set” drop down menu and select “ICD10cm Raw Codes”. Select “Add Top Level”
   3. Year: Select all years that you would like to include within your report.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: Select 20 Groups (Age) and then select 65-69, 70-74, 75-79, 80-84, 85+
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Hospitalizations\_Older\_Adults\_CHAT\_LHJs\_Aggregated\_2017\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Death Rate

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select all years that you would like to include within your report. If possible try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select all years that you would like to include within your report. If possible try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_Chelan\_Communities\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select all years that you would like to include within your report. If possible, try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_LHJs\_Aggregated\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Five Year Increments

### County/State

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_Chelan\_State\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_Chelan\_Communities\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: All Combined
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Death\_Rate\_CHAT\_LHJs\_Aggregated\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Teenage Pregnancy Rate

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Pregnancy and Abortion Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Pregnancy Rate
   2. Year: Select all years that you would like to include within your report. If possible try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   3. Geography: Select your County of interest and click the Include State Total button
   4. Age: Select Custom Groups, then Teen Group
   5. Race: All Races (Combined)
   6. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Teen\_Pregnancy\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Five Year Increments

### County/State

1. Log into CHAT
2. Click into the
3. Click into the Pregnancy and Abortion Module
4. Set Preferences for Query
   1. Primary Statistic or Measure: Pregnancy Rate
   2. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   3. Geography: Select your County of interest and click the Include State Total button
   4. Age: Select Custom Groups, then Teen Group
   5. Race: All Races (Combined)
   6. Ethnicity (Combined)
5. Submit Query
6. Export to CSV
7. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Teen\_Pregnancy\_CHAT\_Chelan\_State\_2001\_2021\_5.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Mental Health

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Mental Health-Not Good
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 1 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Poor\_Mental\_Health\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Three Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Mental Health-Not Good
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 3 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Poor\_Mental\_Health\_CHAT\_Chelan\_State\_2001\_2021\_3.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Overdose Deaths

## By One Year Increments

### County/State

* + - * Resident Based Deaths
  1. Log into CHAT
  2. Click into the WA State Opioid Quarterly Report
  3. Set Preferences for Query
     1. Find Table 3.2.1
        1. Year: All
        2. Year\_quarter: All
        3. Geography: Select county of interest and state
        4. Drug\_type: All
        5. Count: All
        6. Cumsum\_quarter: All
        7. Geography\_type: All
        8. Outcome: All
        9. Date\_update: All
        10. Drug\_num: All
        11. Quarter: All
  4. Export to CSV
  5. Go to your Downloads file on your computer, find the downloaded file (will be named Washington State Drug Overdose Monthly Updates.csv or something similar)
  6. Move file to the folder that you will use to pull data into R and rename file.
  7. Rename using this convention (but make sure to change the years): Overdose\_CHAT\_Chelan\_State\_Residence\_2001\_2021\_1.csv
* From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)
  + - * Geography Based Deaths
  1. Log into CHAT
  2. Click into the WA State Opioid Quarterly Report
  3. Set Preferences for Query
     1. Find Table 3.2.2
        1. Year: All
        2. Year\_quarter: All
        3. Geography: Select county of interest and state
        4. Drug\_type: All
        5. Count: All
        6. Cumsum\_quarter: All
        7. Geography\_type: All
        8. Outcome: All
        9. Date\_update: All
        10. Drug\_num: All
        11. Quarter: All
  4. Export to CSV
  5. Go to your Downloads file on your computer, find the downloaded file (will be named Washington State Drug Overdose Monthly Updates.csv or something similar)
  6. Move file to the folder that you will use to pull data into R and rename file.
  7. Rename using this convention (but make sure to change the years): Overdose\_CHAT\_Chelan\_State\_Geography\_2001\_2021\_1.csv
* From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Suicide

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select all years that you would like to include within your report. If possible try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select all years that you would like to include within your report. If possible try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_Chelan\_Communities\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select all years that you would like to include within your report. If possible, try to select a number of years that can be broken into 5 year increments for easy comparison between one-year increments and 5-year increment metrics. Ex: CHA from 2023 selected data from 2001-2021
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_LHJs\_Aggregated\_2001\_2021\_1.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Five Year Increments

### County/State

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select your County of interest and click the Include State Total button
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_Chelan\_State\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### Communities

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Find custom group that applies to your county and select that
         1. Chelan: Chelan Communities
         2. Douglas: Douglas Communities
         3. Grant: Grant County Communities
         4. Kittitas: Kittitas Communities
         5. Okanogan: Okanogan Communities
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_Chelan\_Communities\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

### North Central LHJs

1. Log into CHAT
2. Click into the Mortality Module
3. Set Preferences for Query
   1. Primary Statistic or Measure: Age-Adjusted Rate
   2. Diagnosis: Under NCHS113 Groupings select Intentional self-harm (suicide)
   3. Year: Select the “Number of Years to Combine” drop down and change it from 1 to 5. Then select the year ranges that you would like to include. Include all the years you included when constructing the one-year increment metrics.
   4. Geography: Select Custom Groups
      1. Select: North Central Washington LHJs
   5. Age: All Ages (Combined)
   6. Gender: All Genders (Combined)
   7. Race: All Races (Combined)
   8. Ethnicity (Combined)
4. Submit Query
5. Export to CSV
6. Go to your Downloads file on your computer, find the downloaded file (will be named Temp.csv or something similar)
7. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Suicide\_CHAT\_LHJs\_Aggregated\_2001\_2021\_5.csv
8. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Diabetes

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Diabetes dx-Yes
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 1 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Diabetes\_CHAT\_Chelan\_State\_2001\_2021\_1.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Three Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Diabetes dx-Yes
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 3 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Diabetes\_CHAT\_Chelan\_State\_2001\_2021\_3.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# Flu Vaccination

## By One Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Flu Shot or Vaccine-Yes
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 1 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Flu\_Vaccination\_Chelan\_State\_2001\_2021\_1.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

## By Three Year Increments

### County/State

1. Log into CHAT
2. Click into the BRFSS
3. Set Preferences for Query
   1. Statistic or Measure: Age-Adjusted Proportion
   2. BRFSS Variable: Flu Shot or Vaccine-Yes
   3. Geography: Select your County of interest and State
   4. Year Rollup: Select 3 Year
   5. Year: Select All Years of interest. Note that some BRFSS variables are only available alternate years or random years.
   6. Gender: All (Combined)
   7. Race: All (Combined)
4. Submit Query
5. Table Configuration: Year, Geography, BRFSS Variable, Gender, Race, Proportion, Lower CI, Upper CI, RSE, Count, Population
6. Export: Keep as a CSV and then press Download
7. Go to your Downloads file on your computer, find the downloaded file (will be named BRFSS\_output.csv or something similar)
8. Move file to the folder that you will use to pull data into R and rename file.
   1. Rename using this convention (but make sure to change the years): Flu\_Vaccination\_Chelan\_State\_2001\_2021\_3.csv
9. From here you should be able to just load the file into R and run it (after making edits to the script that are listed within the script)

# American Community Survey (ACS)

The American Community Survey Data can be access in two ways. First is by downloading Excel files from the American Community Survey Website. The second, and preferred way, is to pull ACS data straight into R using the tidycensus package. To run tidycensus, you will need an API key issued by the census department. Here is a link with information on how to get a key and install it: <https://search.r-project.org/CRAN/refmans/tidycensus/html/census_api_key.html>

If you use tidycensus to pull in data, there isn’t much additional work that is needed to download the data, since it will be pulled directly into R and you won’t have to do much data manipulation. Additionally, ACS data files are extremely large if downloaded locally onto your computer, so pulling data in through R is preferred. When using tidycensus, you will pull in the data you’re interested in through variable codes. Note that codes sometimes change year to year, and therefore you’ll need to verify the codes for subsequent years. Codes can be checked via loading in all the variables. This code is already in the R scripts. The Rmarkdown file should function, for all of the indicators below to pull in, manipulate and visualize all of the indicators.

ACS in small population areas is only put out in 5-year estimates, therefore the data you’ll be pulling in is just the 5-year estimates.

## Health Insurance

## SNAP Program

## Poverty

## Disability

# CDC National Environmental Public Health Tracking Network

**Description of data source**: The National Environmental Public Health Tracking Network (Tracking Network) brings together health data and environmental data from national, state, and city sources and provides supporting information to make the data easier to understand. The Tracking Network has data and information on environments and hazards, health effects, and population health.

The indicator from this data source is…

1. **Air Quality (PM2.5: Percent of Days over Air Quality Standard (Monitor + Modeled Data))**
   * **Air quality can be measured and defined in a number of ways, but we are using “PM2.5: Percent of Days over Air Quality Standard (Monitor + Modeled Data).” This indicator is defined as the annual percent of days over the 24-hr National Ambient Air Quality Standards (NAAQS) for PM2.5, calculated by summing the number of days each year in which the maximum PM2.5 concentration within each county exceeded the** [**24-hr PM2.5 NAAQS of 35 µg/m3**](https://www.epa.gov/criteria-air-pollutants/naaqs-table)**. Because many US counties do not have sufficient air quality data to derive PM2.5 data from monitor data alone (i.e., measured data), CDC National Environmental Public Health Tracking Network fills in these gaps by supplementing with modeled estimates of PM2.5 concentrations. These modeled estimates are derived from the Downscaler (DS) model. This indicator includes solely monitor (measured) data in counties and years where there is sufficient monitor data and DS modeled estimates for counties that lack monitor data.**
   * **Additional information on this specific indicator can be found here:** [**https://ephtracking.cdc.gov/indicatorPages**](https://ephtracking.cdc.gov/indicatorPages)

**Where to access data**: To access this data, visit this site: <https://ephtracking.cdc.gov/>

**How often data are updated**: It appears that the data are updated yearly (unclear when these data are updated each year, though).

**Referencing data**:

* Centers for Disease Control and Prevention. National Environmental Public Health Tracking Network. Web. Accessed: ***INSERT DATE DATA WAS ACCESSED***. [www.cdc.gov/ephtracking](http://www.cdc.gov/ephtracking)

**Levels of data availability for download:**

* Air Quality (PM2.5: Percent of Days over Air Quality Standard): county level available. Chelan and Douglas are separated out. There is *no regional OR state data readily downloadable* for Air quality.

**Demographics availability**: No further stratification available for Air Quality indicator we are using

**Instructions for downloading, storing, and cleaning data**:

## Air Quality (Percent of Days over PM2.5 Air Quality Standard)

* County and State level estimates (one data download for both)
  + **Download Data**
    1. Go to <https://ephtracking.cdc.gov/> and then click on the button that says “Data Explorer Tool”. This should take you to the CDC Query Panel
    2. Under “STEP 1: CONTENT”, specify the following:
       - Select Content Area: Air Quality
       - Select Indicator: National Ambient Air Quality Standards (NAAQS)
       - Select Measure: PM2.5: Percent of Days over Air Quality Standard (Monitor + Modeled Data)
    3. Under “STEP 2: GEOGRAPHY TYPE”, specify State By County
    4. Under “STEP 3: GEOGRAPHY”, select Washington
    5. Under “STEP 4: TIME”, select the year you would like to download
       - Even if you can download multiple years of data, download one year at a time for ease of data cleaning
    6. As of October 2023, there should be no “Advanced Options” for you to select under “STEP 5: ADVANCED OPTIONS”
    7. Click GO 🡪 which should result in a map of Washington counties appearing
    8. In the top right corner above the map, click on the downward arrow that will allow you the “Export Data”
    9. Repeat this process for as many years as needed
       - There should be an orange “SELECT DATA” button in the top left corner that will allow you to keep all the same settings but change just the year
  + **Store Data** 
    1. A zip file should be downloaded to your computer with a CSV file, an HTML file, and a PDF file. Transfer just the CSV file to your CDC National Environmental Public Health Tracking Network data folder. If needed, transfer the HTML and PDF file (i.e., if documentation has changed)
    2. The CSV will download with the general name “data\_XXXXXX”
       - Rename CSV in the following format:
         * DataSource\_Indicator\_Level\_Year
         * Example: CDCNEPHTN\_AirQual24hr\_All\_2015
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

# Department of Children, Youth and Family (DCYF)

**Description of data source**: Data on child abuse and neglect comes from the Washington State Department of Children, Youth & Families (DCYF), but the actual data extracted for this indicator comes from the [Child Well-Being Data Portal](https://portal.cssat.org/about), joint project of the Center for Social Sector Analytics & Technology (CSSAT) and Partners for Our Children (POC). The Child Well-Being Data Portal has access to quarterly deidentified data extracts from FamLink, the case management information system used by DCYF. They also use data from the US Census Bureau, WA OFM, the National Data Archive of Child Abuse and Neglect (NDACAN), as needed.

The indicators from this data source is…

1. **Child Abuse or Neglect Referrals** 
   * **This indicator shows “investigations and assessments of reported child abuse and/or neglect. It shows how many households, per 1,000, had at least one screened-in report.” More information on this indicator can be found** [**here**](https://portal.cssat.org/visualizations/ia-rates)**. This information can also be found in the “INFO” tab of Child Well-Being Data Portal dashboard (explained below).**

**Where to access data**: To access this data, visit this site: <https://portal.cssat.org/>

**How often data are updated**: It appears that the data are updated roughly once a year (unclear when these data are updated each year, though).

**Referencing data**:

* Center for Social Sector Analytics & Technology (2023). [Graph representation of Washington state child welfare data **DATE DATA ACCESSED**]. Investigations & Assessments (Rate). Retrieved from <https://viz.portal.cssat.org/graphs/ia-rates>.

**Levels of data availability for download**:

* Child Abuse or Neglect Referrals: has state and county level available. Chelan and Douglas are separated out. There is *no regional data readily downloadable* for Child Abuse Or Neglect Referrals.

**Demographics availability**:There is some demographic information available for Child Abuse or Neglect Referrals, specifically “age of children in household”, and “race/ethnicity”.

**Instructions for downloading, storing, and cleaning data**:

## Child Abuse or Neglect Referrals

* County and State level estimates (one data download for both)
  + **Download Data**
    1. Go do <https://portal.cssat.org/>
    2. Scroll down to the Explore visualizations section, find the box that says Investigations & Assessments (Rate) and click “VIEW”. This should send you to a graph of Investigations & Assessments (Rate)
    3. On the left side of the screen, you will see a list of filters. For Display, select “All Investigations & Assessments” (this will likely be the default/already selected)
    4. For Date & Time, make sure “Year” is selected
       - Unfortunately, these data cannot be downloaded year by year at this time. Even if you select just a range of time you are interested at this step, when you go to download a CSV, all years of data will pull into the data file
    5. For Demographics
       - Ensure that only “All Households” is selected under “Age of Children in Household”
       - Ensure that only “All” is selected under “Race/Ethnicity”
    6. Under Location, select the **Chelan, Douglas, Grant, Kittitas, and Okanogan counties, as well as “All” (very end of list)**. In total, you should have 6 boxes checked (5 counties and 1 “All” which reports statewide data)
    7. Scroll back up and click “Update”. You should now see 6 lines of data (one for each county and one for the entire state)
    8. From the ribbon across the top, select “DOWNLOAD”, and download as “DATA (.CSV OR .TXT)
  + **Store Data** 
    1. The file will download with the general name “Investigations\_&\_Assessments\_(Rate)” regardless of the years selected. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: DCYF\_AbuseNeglect\_All\_2006\_2019
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

# Healthy Youth Survey (HYS)

To access this data, you will need to reach out to the Epi that runs the HYS. At the time of this report that was Maayan Simckes ([maayan.simckes@doh.wa.gov](mailto:maayan.simckes@doh.wa.gov)).

When files are sent, there will be one file for state level data and one for county level for each year. Within these excel documents, each grade of student will have its own tab within the excel document. You will need to reformat these files so that each grade of student at both the county and state is in its own CSV file in order to run the files into the Rmarkdown file. Once this is done you should have an individual CSV file for each grade, for each year, at both the state and LHJ or county level. Once you have these, you should be able to then run the Rmarkdown file to get your data visualizations.

## Substance Use

## Suicidal Ideation

## Youth Dental Care

# CDC PLACES

**Description of data source**: CDC PLACES is a collaboration between CDC, the Robert Wood Johnson Foundation, and the CDC Foundation. It is an expansion of the [500 Cities Project](https://www.cdc.gov/places/about/500-cities-2016-2019/index.html), which was the original CDC initiative collecting the same health variables but for the 500 largest cities in the US (ended in 2019). PLACES reports county, place, census tract, and ZCTA data and uses small area estimation methods to obtain measures for the entirety of the US. [More information on this data source can be found here](https://www.cdc.gov/places/about/index.html). The main data source for the majority of health variables of interest in CDC PLACES come from the [Behavioral Risk Factor Surveillance System (BRFSS)](https://www.cdc.gov/brfss/index.html).

The indicator from this data source is…

1. **Stroke among adults aged ≥18 years**
   * **This indicator falls under the CDC PLACES umbrella of “Health Outcomes.” The variable is defined as the *age-adjusted prevalence of stroke* in the county, or the age-adjusted lifetime self-reported prevalence of stroke in the county, for a given year.**
   * **More information can be found** [**at this site**](https://www.cdc.gov/places/measure-definitions/health-outcomes/index.html#stroke)

As of end of 2023, only county-level estimates are available for this stroke prevalence indicator, i.e., state-level estimates of stroke prevalence will not be included on dashboards as they are not made available by this data source.

**Where to access data**: To access this data, visit this site: <https://www.cdc.gov/places/index.html>

**How often data are updated**: These data are updated yearly.

**Referencing data**:

* PLACES. Centers for Disease Control and Prevention. Accessed [**DATE DATA ACCESSED**]. <https://www.cdc.gov/places>

**Levels of data availability for download**:

* Stroke: has ONLY county level data available. Chelan and Douglas are separated out. There is *no regional OR state level data readily downloadable* for stroke prevalence.

**Demographics availability**:There does not appear to be demographic specific information available.

**Instructions for downloading, storing, and cleaning data**:

## Stroke

* County-level estimates (no state-level available in CDC PLACES)
  + **Download Data**
    1. Go to <https://www.cdc.gov/places/index.html> and click on “Data Portal”
    2. In the bar above the header that says “ Welcome to the 500 Cities & PLACES Data Portal”, search for the following: “PLACES: Local Data for Better Health, County Data”. Many results will come up, but we want the following datasets:
       - PLACES: Local Data for Better Health, County Data **YEAR** release
    3. Click on the dataset you are interested in downloading
    4. **A screenshot of a computer

       Description automatically generated**In the top right corner, click “Export” and download as a “CSV”
       - CDC PLACES does not have a user interface that allows users to download subsets of data, meaning you’ll have to download the entire dataset for the United States, and then we will restrict the data we use in the data cleaning process (described below)
  + **Store Data**
    1. The file will download with the name “PLACES\_\_Local\_Data\_for\_Better\_Health\_\_County\_Data\_**YEAR**\_release\_**DATE OF DOWNLOAD**” regardless of the year. Rename in the following format for consistency:
       - DataSource\_Indicator\_Level\_Years
       - Example: PLACES\_Stroke\_Counties\_2023
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

# Washington State Department of Commerce Point in Time Count

**Description of data source**: The Annual Point in Time Count is conducted yearly in Washington. It is a statewide count of all the persons staying in temporary housing programs (sheltered count) and places not meant for human habitation (unsheltered count). You can learn more about the Annual Point in Time Count in Washington state [here](https://www.commerce.wa.gov/serving-communities/homelessness/annual-point-time-count/).

Generally speaking, much of these data are suppressed especially in the counties of the NCW Epi consortium. Per Brian Fullerton: **any numbers less than 11 were suppressed for confidentiality of people put into the Homeless Management Information System (HMIS), as well as any total values where you can easily figure out that number through subtraction.**

The indicator from this data source is…

1. **Total Homeless Persons (Sheltered and Unsheltered)** 
   * **We are interested in the total number of persons experiencing homelessness estimated from the PIT Count, both sheltered and sheltered**

**Where to access data**: To access PIT Count Reports, visit this site: <https://deptofcommerce.app.box.com/s/ek9pu2w07oz8d77gq6c1rlpxuwcw0515>. *However,* we were able to obtain spreadsheets of these data so that PDFs wouldn’t be required by reaching out to Brian Fullerton at the WA State Department of Commerce. His email is here: [brian.fullerton@commerce.wa.gov](mailto:brian.fullerton@commerce.wa.gov)

**How often data are updated**: These data are updated yearly.

**Referencing data**:

* Washington State Department of Commerce Annual Point in Time Count. Accessed [**DATE DATA ACCESSED**]. <https://www.commerce.wa.gov/serving-communities/homelessness/annual-point-time-count/>

**Levels of data availability for download**:

* Homelessness: both county-level and state-level (total) estimates of people experiencing homelessness from the Point In Time Count are included in this data source. However, we might opt to only use county-level data based on some of the complications with small numbers and suppressions. As noted above: any numbers less than 11 were suppressed for confidentiality of people put into the Homeless Management Information System (HMIS), as well as any total values where you can easily figure out that number through subtraction.

**Demographics availability**:There does not appear to be demographic specific information available, beyond if the household has minors vs. no minors.

**Instructions for downloading, storing, and cleaning data**:

## Homelessness

* County- and **state-level estimates**
  + **Download Data**
    1. There are a few ways that PIT count data can be accessed
       - First option is to access PDFs here: <https://deptofcommerce.app.box.com/s/ek9pu2w07oz8d77gq6c1rlpxuwcw0515>
       - Second option is to reach out to Brian Fullerton at the WA State Department of Commerce requesting these data in Excel format [brian.fullerton@commerce.wa.gov](mailto:brian.fullerton@commerce.wa.gov)
  + **Store Data**
    1. Rename in the following format for consistency:
       - DataSource\_Indicator\_Level\_Years
       - Example: PIT\_Homelessness\_All\_2018
         * Note: 2021 only include those who were sheltered because of the COVID-19 pandemic, which is why is it named differently
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALL**

# Washington State Immunization Information System (WA IIS)

**Description of data source**: The Washington State Immunization Information System (WA IIS) is a web-based, lifetime registry that keeps track of immunization records for people of all ages in our state. The vast majority of data in the WA IIS is entered electronically through EHRs. More information on the WA IIS can be found [here](https://doh.wa.gov/public-health-healthcare-providers/healthcare-professions-and-facilities/data-exchange/immunization-information-system).

The two indicators from this data source are…

1. **Infant Vaccination** 
   * **More information on the Infant Vaccination indicator, which falls under the umbrella of “Immunization Data” can be found** [**here**](https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/immunization-data)
2. **Kindergarten Vaccination** 
   * **More information on the Kindergarten Vaccination indicator, which falls under the umbrella of “School Immunization Data” can be found** [**here**](https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/school-immunization)

**Where to access data**:

* For Infant Vaccination data, go here:   
  <https://doh.wa.gov/data-statistical-reports/washington-tracking-network-wtn/immunization-data/county-hedis-measures-dashboard>
* For Kindergarten Vaccination, go here: <https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/school-immunization/dashboard>

**How often data are updated**: These data are updated yearly.

**Referencing data**: There does not appear to be an official way they suggest you reference the data on the website. Please use the following:

Infant Vaccination:

* Washington State Department of Health (WADOH). Washington Tracking Network (WTN). Immunization Data, County HEDIS Measures Dashboard. Web. Accessed: ***INSERT DATE DATA WAS ACCESSED***. <https://doh.wa.gov/data-statistical-reports/washington-tracking-network-wtn/immunization-data/county-hedis-measures-dashboard>

Kindergarten Vaccination:

* Washington State Department of Health (WADOH). Washington Tracking Network (WTN). Immunization Data, School Immunization Data Dashboard. Web. Accessed: ***INSERT DATE DATA WAS ACCESSED***. <https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/school-immunization/dashboard>

**Levels of data availability for download**:

* Infant Vaccination: has state and county level available. Chelan and Douglas are separated out. There is *no regional data readily downloadable* for infant vaccination.
* Kindergarten Vaccination: has state and county level available. Chelan and Douglas are separated out. There is *no regional data readily downloadable* for kindergarten vaccination.

**Demographics availability**:There does not appear to be demographic specific information available.

**Instructions for downloading, storing, and cleaning data**:

## Infant Vaccination

* County and State level estimates (one data download for both)
  + **Download Data**
    1. Go to <https://doh.wa.gov/data-statistical-reports/washington-tracking-network-wtn/immunization-data/county-hedis-measures-dashboard> and select the Data Table Download tab from the ribbon
    2. From the Data Year drop down, select the *year* of data you’re interested in
       - Even if you are looking to download multiple years of data, download one year at a time for ease of data cleaning
    3. From the Vaccine Series options, select “HEDIS Combo 10”
    4. For Vaccine Component, make sure “HEDIS Combo 10” is selected
    5. For Sex, make sure “All” is selected
    6. For Geography, de-select “All”, and then select all of the following:
       - Chelan, Douglas, Grant, Kittitas, Okanogan, and Statewide
       - A close-up of a computer screen

         Description automatically generatedOnce you do this, you should see 6 rows of data in total
    7. At the bottom of the screen, click on the download symbol that looks like this 🡪
    8. Select “Crosstab”, and then under Select Format click the “Excel” option
       - We normally use CSV file format, but for this specific indicator, we have found that the CSV file format was downloading with some issues
    9. Repeat this process for all of the years of data you need
  + **Store Data**
    1. The file will download with the general name “HEDIS Export Worksheet” regardless of the year. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: WAIIS\_InfantVax\_All\_2018
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

## Kindergarten Vaccination

* County level estimates
  + **Download data** 
    1. Go to <https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/school-immunization/dashboard> and select the County Data Download tab from the ribbon
    2. For School Year, select the years you are interested in
       - Even if you are looking to download multiple years of data, download one year at a time for ease of data cleaning
    3. For Disease, select “Overall”
    4. For Grade, select “Kindergarten”
    5. Select **Chelan, Douglas, Grant, Kittitas, and Okanogan counties**. You can select all at once by holding down ‘Ctrl’ as you select the counties
    6. A screenshot of a data

       Description automatically generatedHover over one of the counties you selected and click “Keep Only”. This will restrict the data that are shown to our 5 counties of interest
    7. At the bottom of the screen, click on the download symbol
    8. Select “Crosstab”, and then under Select Format click the “Excel” option
       - We normally use CSV file format, but for this specific indicator, we have found that the CSV file format was downloading with some issues
    9. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. The file will download with the general name “County Data Download” regardless of the year. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: WAIIS\_KindergartenVax\_County\_2016\_2017
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**
* State level estimates
  + **Download Data**
    1. Go to <https://doh.wa.gov/data-and-statistical-reports/washington-tracking-network-wtn/school-immunization/dashboard> and select the Yearly Trends tab from the ribbon
    2. In the drop-down menu under Grade, select “Kindergarten”
       - We are interested in the “Kindergarten Immunization Status by School Year” figure. There are a few ways to pull data from this dashboard, but the way described here allows for the easiest formatting for data visualization
    3. Select the year of data for “Immunization Status: Complete” you are interested in. At the time of writing these instructions, that was the darkest blue line in the “Kindergarten Immunization Status by School Year” figure. Once selected, you should see your dot outlined in black
       - Even if you are looking to download multiple years of data, download one year at a time for ease of data cleaning
    4. A screenshot of a computer

       Description automatically generatedHover over one of the dots, and select the “View Data…” tab (highlighted with red box below)

* + 1. This will open up a new window. Click “Download” in the top right corner, which will download a CSV file
    2. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. The file will download with the general name “Yearly Complete\_data”. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: WAIIS\_KindergartenVax\_State\_2019\_2020
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

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# Health Resources & Services Administration (HRSA)

**Description of data source**: The data here is from the HRSA Area Health Resources Files (AHRF). This data source includes information on healthcare professionals, facilities, economics, hospital utilization, and similar topics at the state and county level for the entire US. These data started being collected in 2019.

The two indicators from this data source are…

1. **Access to Dentists**
2. **Access to Physicians**

Data for these indicators at both the county level and state level are available, but the process for access each are slightly different. See below.

Additionally, when these data are downloaded at both the county and state level, many rows of data will not be needed (i.e., Washington counties and states will be included). More information on definitions and methods can be found here: <https://data.hrsa.gov/Content/Documents/topics/AHRF%20Definition.pdf>

**Where to access data**: To access this data, visit this site:   
<https://data.hrsa.gov/topics/health-workforce/ahrf>

**How often data are updated**: The AHRF is released annually by the Bureau of Health Workforce, and data correspond to the fiscal year the data was published (fiscal year goes from October 1st to September 30th). However, data source years included vary based on data availability and data use agreements.

**Referencing data**: There does not appear to be an official way they suggest you reference the data on the website. Please use the following for both dentist and physician access:

* Health Resources & Services Administration. Health Workforce: Area Health Resources Files. Web. Accessed: ***INSERT DATE DATA WAS ACCESSED***. <https://data.hrsa.gov/topics/health-workforce/ahrf>

**Levels of data availability for download**:

* Access to Dentists: has state and county level available. Chelan and Douglas are separated out. There is *no regional data readily downloadable* for access to dentists.
* Access to Physicians: has state and county level available. Chelan and Douglas are separated out. There is *no regional data readily downloadable* for access to physicians.

**Demographics availability**:There does not appear to be demographic specific information available. While there is some demographic information seemingly available, it is not meaningful. For example, the “Population, Subcategory” just changes the denominator, which does not represent differential access by race, ethnicity, poverty level, etc.

**Instructions for downloading, storing, and cleaning data**:

## Access to Dentists

* County level estimates
  + **Download Data** 
    1. Go to <https://data.hrsa.gov/topics/health-workforce/ahrf> and scroll down to “Explore Workforce Data”
    2. Ensure you have “Clinicians” selected at the top
    3. For Data Source, select the time period of interest
       - Even if you can download multiple years of data, download one year at a time for ease of data cleaning
    4. For Health Profession, select “Dentist (County Level File)”
    5. For Health Profession Subcategory, select “Total Active Dentist”
    6. For Population Category, select “All (County Level File)”
    7. For Population Subcategory*,* select “Population, All”
    8. For State, select “Washington”
    9. Hit submit
    10. You’ll see an Export Data option at the bottom of the dashboard. Export data as an “XLSX” file
    11. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. The file will download with the general name “AHRFDashboard” regardless of the statistic of interest. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: HRSA\_Dentists\_County\_2021\_2022
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**
* State level estimates
  + **Download Data** 
    1. Repeat “Access to Dentists, County level estimates, Download Data” Steps 1-6 from above
    2. ***However***, for Step 8, select “All States” for State
    3. Hit submit
    4. Export data as an “XLSX” file
    5. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. Again, the file will download with the general name “AHRFDashboard” regardless of the statistic of interest. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: HRSA\_Dentists\_State\_2021\_2022
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**

## Access to Physicians

* County level estimates
  + **Download Data** 
    1. Go to <https://data.hrsa.gov/topics/health-workforce/ahrf> and scroll down to “Explore Workforce Data”
    2. Ensure you have “Clinicians” selected at the top
    3. For Data Source, select the time period of interest
       - Even if you can download multiple years of data, download one year at a time for ease of data cleaning
    4. For Health Profession, select “Physicians (County Level File)”
    5. For Health Profession Subcategory, select “Active Physicians”
    6. For Population Category, select “All (County Level File)”
    7. For Population Subcategory*,* select “Population, All”
    8. For State, select “Washington”
    9. Hit submit
    10. You’ll see an Export Data option at the bottom of the dashboard. Export data as an “XLSX” file
    11. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. The file will download with the general name “AHRFDashboard” regardless of the statistic of interest. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: HRSA\_Physicians\_County\_2021\_2022
  + **Clean Data** 🡪 **DATA CLEANING INFO HERE EVENTUALLY**
* State level estimates
  + **Download Data** 
    1. Go to <https://data.hrsa.gov/topics/health-workforce/ahrf>
    2. Repeat “Access to Physicians, County level estimates, Download Data” Steps 1-7 from above
    3. ***However***, for Step 8, select “All States” for State
    4. Hit submit
    5. Export data as an “XLSX” file
    6. Repeat this process for all of the years of data you need
  + **Store Data** 
    1. Again, the file will download with the general name “AHRFDashboard” regardless of the statistic of interest. Rename in the following format:
       - DataSource\_Indicator\_Level\_Years
       - Example: HRSA\_Physicians\_State\_2021\_2022
  + **Clean Data**  🡪 **DATA CLEANING INFO HERE EVENTUALLY**