## Milestone #2

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##What is the data source? (1-2 sentences on where the data is coming from, dates included, etc.)

The data being utilized for this project is from the 2011 California Smokers Cohort (CSC), which is a part of the California Tobacco Surveys (CTS) that aimed to investigate tobacco use and behaviors among smokers in California to assess the effectiveness of smoking cessation strategies. It was sponsored by the California Department of Public Health (CDPH), and data was collected between July 8, 2011 and December 8, 2011.

##How does the dataset relate to the group problem statement and question?

Exposure: tobacco smoke Side exposures: race, location of cigarette purchase Disease of interest: mental illness

#### LARA

#

#

 $col\_types = NULL$ ,

na = c("", "NA"),

locale = default\_locale(),

library(tidyverse)

##Use appropriate import function and package based on type of file:

```
## Warning in system("timedatectl", intern = TRUE): running command 'timedatectl'
## had status 1
## -- Attaching packages ------ tidyverse 1.3.1 --
## v ggplot2 3.3.5
                     v purrr
                              0.3.4
## v tibble 3.1.6
                     v dplyr
                              1.0.8
## v tidyr 1.2.0
                     v stringr 1.4.0
## v readr
          2.1.2
                    v forcats 0.5.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
race_data <-read_csv("ca_csc_outcome_race_data.csv", col_types = cols_only(NERVOUS = col_factor(), WORR
smoker_data <- read_csv("ca_csc_smoker_data.csv", col_types = cols_only(smokstat = col_factor(), WHEREB</pre>
#Description of import process: We utilized the read_csv() function from the R readr package to import/
#can delete below if group is ok with current code above
# read_csv(file,
#
          col_names = TRUE,
```

```
quoted_na = TRUE,
#
            quote = "\"",
#
            comment = "",
#
            trim ws = TRUE,
#
            skip = 0,
#
            n_{max} = Inf,
#
            guess_max = min(1000, n_max),
#
            progress = show_progress(),
#
            skip\_empty\_rows = TRUE)
#CHRISTINE
```

##Utilize function arguments to control relevant components: Add read\_csv additional arguments later. **CHRISTINE** - added arguments to code chunk above (09/28/22)

##Document the import process: Write up a hashtagged paragraph under importing code to describe what we did and why. **CHRISTINE** - wrote hashtagged descriptive paragraph in code chunk above (09/28/22)

##Identify 5+ data elements required for your specified scenario: Instructions: "In addition to smoking status, CDPH would like for you to explore the impact of race and at least one social (income, education) or one behavioral (location of cigarette purchase, type of cigarette purchase, brand of cigarette) factor on disease status. Your team may pick your disease of interest (e.g. asthma, heart disease, diabetes, physical illness, and mental illness) to analyze further."

In smoker\_data: "smokstat" – assigns smoking status "WHEREBUY" – where you buy cigarettes? "BUY-CALIF" – do/did you usually buy your cigarettes... "NERVOUS" – felt nervous, anxious, or on edge? "WORRYING" – not been able to stop or control worrying? "PROBINTR" – felt little interest or pleasure in doing things? "PROBOWN" – felt down, depressed, or hopeless? "OPHYSILL" – has a physician ever told you that you have any mental illness?

In  $race\_data$ : \*race01:race11 -> excluded race14 (REFUSED) and race15 (DON'T KNOW) because these don't specify race

Total: 8 + 11 = 19 data elements/variables

# CHRISTINE WILL ASK MORE ABOUT THIS ON ED DISCUSSION; ALL MEMBERS WILL DISCUSS FINAL ANSWER TOGETHER ON SUNDAY

##Utilize functions or resources in RStudio to determine the types of each data element: class(), typeof() functions used on variables in each relevant dataset. Rachael

##Identify the desired type/format for each variable- will you need to convert any columns to numeric or other type?: as.numeric(), as.Date(), as.factor(), etc. functions if needed after viewing data types using str() or summary(). Rachael We already changed the data type during the importing process of the data sets to the types we desire per variable – there shouldn't be a need to convert any columns to numeric or other type at this point - Christine

##Provide a basic description of 5+ data elements(numeric/character/other descriptives): Numeric – use summarize() function Character – unique() For other descriptives, will think of later when we come to them.