Descriptive Analysis of ASU Survey

# Library

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':  
  
 filter, lag

The following objects are masked from 'package:base':  
  
 intersect, setdiff, setequal, union

── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
✔ ggplot2 3.4.0 ✔ purrr 0.3.5  
✔ tibble 3.1.8 ✔ stringr 1.5.0  
✔ readr 2.1.3 ✔ forcats 0.5.2  
── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
here() starts at /Users/jacobmatta/Documents/R/ASU-Project-  
  
  
Attaching package: 'pastecs'  
  
  
The following object is masked from 'package:tidyr':  
  
 extract  
  
  
The following objects are masked from 'package:dplyr':  
  
 first, last  
  
  
  
Attaching package: 'table1'  
  
  
The following objects are masked from 'package:base':  
  
 units, units<-

# Load data

using the asu\_merged-May17 dataframe for this analysis because it holds all variables with numeric values but saved as character variables. This allows you to then convert the character variables to numeric variables, perform quality control, then filter the dataframe to only contain asu\_merged participants. I can justify using this procedure because filtering the dataframe as numeric variables prevents additional missing being added to the dataset.

## Cleaning the asu\_merged questions: changing all values that follow question 1(Q2.1) if this question was completed as either: no, not sure or do not know then mark Question 2 - Question 14 as missing

## Checking the varibale types

tibble [1,548 × 144] (S3: tbl\_df/tbl/data.frame)  
 $ data\_enterer : chr [1:1548] NA NA NA NA ...  
 $ Event : chr [1:1548] "Bethel" "Bethel" "Bethel" "Bethel" ...  
 $ Date : chr [1:1548] "44867" "44867" "44867" "44867" ...  
 $ Zip : chr [1:1548] "\*" "\*" "31705" "\*" ...  
 $ ParticipantID : chr [1:1548] "LW1BETHEL" "KL2BETHEL" "HW3BETHEL" "\*" ...  
 $ Gender : chr [1:1548] "2" "2" "1" "\*" ...  
 $ Age : chr [1:1548] "5" "2" "1" "\*" ...  
 $ Race\_Ethnicity : chr [1:1548] "1" "1" "1" "\*" ...  
 $ Specifiy Race : chr [1:1548] NA NA NA NA ...  
 $ Education : chr [1:1548] "3" "2" "2" "\*" ...  
 $ Language : chr [1:1548] "1" "1" "1" "\*" ...  
 $ Specifiy Language : chr [1:1548] NA NA NA NA ...  
 $ Income : chr [1:1548] "1" "1" "2" "\*" ...  
 $ Family\_household : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Children : chr [1:1548] "1" "1" "1" "\*" ...  
 $ Number\_children\_1 : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Number\_children\_2 : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Number\_children\_3 : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Elderly\_family : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Number\_elderly\_1 : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Number\_elderly\_2 : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Health Insurance : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Cancer : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Severe\_Allergies : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Seizures : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Obesity : chr [1:1548] "1" "\*" "\*" "\*" ...  
 $ Conditions\_Cardio\_Disease : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Rheumatological : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Pulmonary : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Diabetes : chr [1:1548] "1" "\*" "\*" "\*" ...  
 $ Conditions\_Immuno : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Pregnancy : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_Other : chr [1:1548] "\*" "\*" "\*" "\*" ...  
 $ Conditions\_No\_Conditions : chr [1:1548] "\*" NA NA NA ...  
 $ Question\_1 : chr [1:1548] NA NA NA NA ...  
 $ Question\_2 : chr [1:1548] NA NA NA NA ...  
 $ Question\_3 : chr [1:1548] NA NA NA NA ...  
 $ Question\_4 : chr [1:1548] NA NA NA NA ...  
 $ Question\_5 : chr [1:1548] NA NA NA NA ...  
 $ Question\_6 : chr [1:1548] NA NA NA NA ...  
 $ Question\_7 : chr [1:1548] NA NA NA NA ...  
 $ Question\_8 : chr [1:1548] NA NA NA NA ...  
 $ Question\_9 : chr [1:1548] NA NA NA NA ...  
 $ Question\_10 : chr [1:1548] NA NA NA NA ...  
 $ Question\_11 : chr [1:1548] NA NA NA NA ...  
 $ Question\_12 : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Fever : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Cough : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Shortness\_of\_breath : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Fatigue : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Muscle\_Body\_Aches : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Headache : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Loss\_of\_Taste : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Sore\_Throat : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Congestion : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Nausea : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Diarrhea : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Asymptomatic : chr [1:1548] NA NA NA NA ...  
 $ Question\_13\_Other : chr [1:1548] NA NA NA NA ...  
 $ Question\_14 : chr [1:1548] NA NA NA NA ...  
 $ Question\_15 : chr [1:1548] NA NA NA NA ...  
 $ Question\_16 : chr [1:1548] NA NA NA NA ...  
 $ Question\_17 : chr [1:1548] NA NA NA NA ...  
 $ Question\_18 : chr [1:1548] NA NA NA NA ...  
 $ Question\_19 : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Basic\_Health : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_COVID\_19\_Vacc : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Improving\_ventilation : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Getting\_tested : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Following\_recommendations: chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Staying\_home : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Seeking : chr [1:1548] NA NA NA NA ...  
 $ Question\_20\_Avoiding : chr [1:1548] NA NA NA NA ...  
 $ Question\_21 : chr [1:1548] NA NA NA NA ...  
 $ Question\_22 : chr [1:1548] "1" "1" "1" "1" ...  
 $ Question\_23 : chr [1:1548] "1" "1" "1" "1" ...  
 $ Question\_24 : chr [1:1548] "1" "1" "3" "1" ...  
 $ Question\_25 : chr [1:1548] NA NA NA NA ...  
 $ Question\_26 : chr [1:1548] NA NA NA NA ...  
 $ Question\_27 : chr [1:1548] "1" "2" "2" NA ...  
 $ Question\_28 : chr [1:1548] "\*" NA NA NA ...  
 $ Question\_29 : chr [1:1548] "\*" NA NA NA ...  
 $ Question\_30\_Physician : chr [1:1548] NA NA NA NA ...  
 $ Question\_30\_Nurse\_Practitioner : chr [1:1548] NA NA NA NA ...  
 $ Question\_30\_Registered\_Nurse : chr [1:1548] NA NA NA NA ...  
 $ Question\_30\_Community\_Health\_Advocate: chr [1:1548] "1" "1" "1" "1" ...  
 $ Question\_30\_Community\_Member : chr [1:1548] NA "1" NA "1" ...  
 $ Question\_30\_Other : chr [1:1548] NA NA NA NA ...  
 $ Question\_31 : chr [1:1548] NA NA NA NA ...  
 $ Question\_32 : chr [1:1548] "1" "1" "1" "1" ...  
 $ Question\_33 : chr [1:1548] "1" "1" "1" "1" ...  
 $ Question\_34 : chr [1:1548] "1" "1" "2" "1" ...  
 $ Question\_35 : chr [1:1548] "1" "1" "4" "4" ...  
 $ Question\_36 : chr [1:1548] "4" "1" "1" "1" ...  
 $ Question\_37 : chr [1:1548] "community health advocate" NA NA NA ...  
 $ Question\_38\_Handout\_flier : chr [1:1548] NA NA "1" NA ...  
 $ Question\_38\_Social\_media : chr [1:1548] NA "1" NA NA ...  
 $ Question\_38\_Standard\_media : chr [1:1548] NA NA NA NA ...  
 $ Question\_38\_Community\_Health\_Advocate: chr [1:1548] NA NA NA NA ...  
 [list output truncated]

Warning: There were 144 warnings in `mutate()`.  
The first warning was:  
ℹ In argument: `data\_enterer = .Primitive("as.double")(data\_enterer)`.  
Caused by warning:  
! NAs introduced by coercion  
ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 143 remaining warnings.

tibble [1,548 × 144] (S3: tbl\_df/tbl/data.frame)  
 $ data\_enterer : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Event : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Date : num [1:1548] 44867 44867 44867 44867 44867 ...  
 $ Zip : num [1:1548] NA NA 31705 NA 31705 ...  
 $ ParticipantID : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Gender : num [1:1548] 2 2 1 NA 1 2 2 2 2 2 ...  
 $ Age : num [1:1548] 5 2 1 NA 1 5 7 6 6 3 ...  
 $ Race\_Ethnicity : num [1:1548] 1 1 1 NA 1 1 1 1 1 1 ...  
 $ Specifiy Race : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Education : num [1:1548] 3 2 2 NA 2 3 3 3 2 1 ...  
 $ Language : num [1:1548] 1 1 1 NA 1 1 1 1 1 1 ...  
 $ Specifiy Language : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Income : num [1:1548] 1 1 2 NA 2 3 1 1 1 1 ...  
 $ Family\_household : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Children : num [1:1548] 1 1 1 NA NA NA NA NA NA NA ...  
 $ Number\_children\_1 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
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 $ Conditions\_Severe\_Allergies : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Seizures : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Obesity : num [1:1548] 1 NA NA NA NA 1 NA NA NA NA ...  
 $ Conditions\_Cardio\_Disease : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Rheumatological : num [1:1548] NA NA NA NA NA 1 NA NA NA NA ...  
 $ Conditions\_Pulmonary : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Diabetes : num [1:1548] 1 NA NA NA NA NA NA NA 1 NA ...  
 $ Conditions\_Immuno : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Pregnancy : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_Other : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Conditions\_No\_Conditions : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_1 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_2 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_3 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_4 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_5 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_6 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_7 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_8 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_9 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_10 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_11 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_12 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Fever : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Cough : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Shortness\_of\_breath : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Fatigue : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Muscle\_Body\_Aches : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Headache : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Loss\_of\_Taste : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Sore\_Throat : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Congestion : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Nausea : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Diarrhea : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Asymptomatic : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_13\_Other : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_14 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_15 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_16 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_17 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_18 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_19 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Basic\_Health : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_COVID\_19\_Vacc : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Improving\_ventilation : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Getting\_tested : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Following\_recommendations: num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Staying\_home : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Seeking : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_20\_Avoiding : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_21 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_22 : num [1:1548] 1 1 1 1 1 1 1 1 1 1 ...  
 $ Question\_23 : num [1:1548] 1 1 1 1 1 1 1 1 1 1 ...  
 $ Question\_24 : num [1:1548] 1 1 3 1 3 1 1 1 1 1 ...  
 $ Question\_25 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_26 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_27 : num [1:1548] 1 2 2 NA 2 1 1 1 1 1 ...  
 $ Question\_28 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_29 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_30\_Physician : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_30\_Nurse\_Practitioner : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_30\_Registered\_Nurse : num [1:1548] NA NA NA NA NA 1 NA NA NA NA ...  
 $ Question\_30\_Community\_Health\_Advocate: num [1:1548] 1 1 1 1 1 NA 1 1 1 NA ...  
 $ Question\_30\_Community\_Member : num [1:1548] NA 1 NA 1 1 NA NA NA NA 1 ...  
 $ Question\_30\_Other : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_31 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_32 : num [1:1548] 1 1 1 1 1 1 3 1 1 1 ...  
 $ Question\_33 : num [1:1548] 1 1 1 1 1 1 1 1 1 1 ...  
 $ Question\_34 : num [1:1548] 1 1 2 1 1 1 NA 1 1 1 ...  
 $ Question\_35 : num [1:1548] 1 1 4 4 2 1 1 1 2 1 ...  
 $ Question\_36 : num [1:1548] 4 1 1 1 1 5 1 1 1 1 ...  
 $ Question\_37 : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_38\_Handout\_flier : num [1:1548] NA NA 1 NA 1 NA NA 1 1 1 ...  
 $ Question\_38\_Social\_media : num [1:1548] NA 1 NA NA NA NA NA NA NA NA ...  
 $ Question\_38\_Standard\_media : num [1:1548] NA NA NA NA NA NA NA NA NA NA ...  
 $ Question\_38\_Community\_Health\_Advocate: num [1:1548] NA NA NA NA NA 1 NA NA NA NA ...  
 [list output truncated]

# Creating the Exposure variable where 1 = asu\_merged and 2 = not asu\_merged to COVID-19 and 3 = paricipants that left quesiton missing or answered do not know or don’t know

1 2 3   
496 863 189

#At risk Variable

1 2 3   
575 308 501

## Removing clear outliers from continuous variables

1 2 3+   
92 34 32

1 2 3+   
138 43 50

1 2 3+   
135 58 47

1 2 3+   
134 43 23

1 2 3+   
134 43 23

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27   
17 1 6 2 6 1 7 1 2 5 9 1 4 6 6 6 1 4 1 5 7 5 4 3 4 2   
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53   
 2 5 9 9 2 4 2 8 7 4 7 7 7 7 13 8 8 13 5 6 8 3 10 9 14 6   
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 77 78 79 80 83   
 7 9 5 4 3 10 3 10 12 8 14 9 8 5 8 1 10 5 1 1 6 1 2 3 2 1

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19   
 4 23 16 17 25 19 25 14 24 18 13 7 107 5 5 10 4 3 10 2   
 20 22 23 24 25 28 29 30 31 32 36 37 38   
 3 2 2 38 1 1 1 1 1 3 7 1 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 27 28   
 2 1 2 1 1 4 4 3 6 10 4 1 1 6 4 7 4 2 3 1 3 1 2 2 4 5   
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54   
 3 6 3 2 1 2 3 3 1 2 1 3 6 6 4 7 4 2 1 3 3 5 7 1 5 2   
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 75 77 78 81 87   
 4 4 1 2 1 4 9 2 1 2 2 1 1 1 1 1 1 1 1 1 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 24 32 36   
14 6 10 11 8 11 7 4 9 11 3 67 3 3 3 2 1 5 2 2 14 1 1

1 3 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30   
 1 1 2 2 1 2 2 2 7 1 3 1 2 3 2 5 2 2 1 2 2 4 4 2 1 2   
32 33 34 35 36 37 38 40 41 42 43 44 45 47 48 49 54 55 56 60 61 67 70 75 77 83   
 2 2 1 1 1 2 3 5 3 2 1 1 2 1 1 2 1 1 3 2 1 1 2 1 1 1   
84   
 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 24 36   
 5 5 2 2 6 6 6 3 6 4 2 29 1 1 1 1 7 1 1 5 1

4 8 9 11 12 13 14 16 17 18 20 22 26 28 29 30 31 33 36 37 38 39 41 42 43 46   
 2 1 2 2 2 1 3 1 1 2 1 2 1 1 1 1 4 1 1 1 3 3 2 1 1 3   
57 60 71 72 86   
 1 1 1 1 1

1 3 4 5 6 7 8 9 10 11 12 16 18 20 24 36   
 2 3 1 2 3 2 3 2 2 1 13 2 2 1 3 1

2 4 7 15 16 17 18 33 34 40 41 46 47 52 69 72 91   
 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1

1 2 3 5 8 9 11 12 20 26   
 1 1 1 2 2 1 1 3 1 1

0 1 2 3 4 5 6 7   
920 432 148 34 8 4 1 1

At Risk Neutral Not At Risk   
 410 242 407

At Risk Neutral Not At Risk   
 743 123 159

At Risk Neutral Not At Risk   
 375 270 374

#————————————–DEMOGRAPHICS—————————————————#

# Summary for zip

freq perc  
   
31701 381 24.6%  
31705 447 28.9%  
31707 276 17.8%  
Other 444 28.7%

# Summary for gender

freq perc  
   
Female 1'013 66.8%  
I would rather not specify 2 0.1%  
Male 502 33.1%

# Summary for age

freq perc  
   
18-24 years old 254 19.3%  
25-34 years old 182 13.8%  
35-44 years old 40 3.0%  
45-54 years old 224 17.0%  
55-64 years old 287 21.8%  
65-74 years old 264 20.1%  
75 years or older 65 4.9%

# Summary for race

freq perc  
   
African American 1'445 95.4%  
Asian 6 0.4%  
Caucasian 45 3.0%  
Latino or Hispanic 8 0.5%  
Native American 1 0.1%  
Other 10 0.7%

# Summary for Education

freq perc  
   
Bachelor's Degree or higher 137 11.9%  
High School 872 75.5%  
Less than High School 146 12.6%

# Summary for Language

freq perc  
   
English 1'472 99.3%  
Other 4 0.3%  
Spanish 6 0.4%

# Summary for Income

freq perc  
   
$25,000-$50,000 539 36.4%  
$50,000-$100,000 265 17.9%  
Less than $25,000 595 40.2%  
More than $100,000 80 5.4%

# Summary for Family\_household

freq perc  
   
1 413 29.2%  
2 432 30.6%  
3 275 19.5%  
4 178 12.6%  
5 or more 115 8.1%

# Summary for Children

freq perc  
   
No 1'027 69.4%  
Yes 452 30.6%

# Summary for number of children below 5 years old

freq perc  
   
1 92 58.2%  
2 34 21.5%  
3+ 32 20.3%

# Summary for number of children between 5-11

freq perc  
   
1 138 59.7%  
2 43 18.6%  
3+ 50 21.6%

# Summary for number of children between 12-17

freq perc  
   
1 135 56.2%  
2 58 24.2%  
3+ 47 19.6%

# Summary for elderly family members

freq perc  
   
1 291 20.4%  
2 1'138 79.6%

# Summary for the number of elderly family members aged 65-74

freq perc  
   
1 134 67.0%  
2 43 21.5%  
3+ 23 11.5%

# Summary for the number of elderly family members aged 75+

freq perc  
   
1 73 70.9%  
2 11 10.7%  
3+ 19 18.4%

# Summary for health insurance

freq perc  
   
Affordable Care Act (Obamacare) 48 3.6%  
Don't Know / Not Sure 102 7.6%  
Medicaid 312 23.1%  
Medicare 285 21.1%  
Other 207 15.3%  
Private `Health Insurance` 319 23.6%  
Uninsured 76 5.6%

# Summary for participants with cancer

Yes   
 35

# Summary for participants with severe allergies

Yes   
 91

# Summary for participants with seizures

Yes   
 13

# Summary for participants with obesity

Yes   
168

# Summary for participants with cardiovascular disease

Yes   
 48

# Summary for participants with Rheumatological

Yes   
 88

# Summary for participants with pulmonary disease

Yes   
 61

# Summary for participants with diabetes

Yes   
257

# Summary for participants who are in an immunocompromised state

Yes   
 14

# Summary for participants who are pregnant

Yes   
 13

# Summary for participants who are other

Yes   
105

# Summary for participants who have no health conditions

Yes   
684

# Summary for participants who have conditions

freq perc  
   
0 920 59.4%  
3+ Conditions 48 3.1%  
One Conditions 432 27.9%  
Two Conditions 148 9.6%

# Summary for pariciapnts with no conditions

Yes   
684

#————————————–SECTION2—————————————————#

# Summary for question 1: Has a healthcare provider or a home test ever informed you or your family members that you (or your children or other family members) had COVID-19?

freq perc  
   
Do not know 21 1.5%  
No 863 60.6%  
Not sure 43 3.0%  
Yes 496 34.9%

# Summary for question 2: How many members of your household tested positive for COVID-19

freq perc  
   
1 241 53.7%  
2 109 24.3%  
3 55 12.2%  
4 36 8.0%  
5 5 1.1%  
59 1 0.2%  
62 1 0.2%  
82 1 0.2%

# Summary for question 3: Age of family member 1 who had COVID-19

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  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_3b   
3   Mean (SD) 41.6 (21.1) 30.0 (NA) NA (NA)  
4   Median [Min, Max] 44.0 [1.00, 83.0] 30.0 [30.0, 30.0] NA [NA, NA]  
5   Missing 50 (10.1%) 188 (99.5%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 41.6 (21.1)  
4 44.0 [1.00, 83.0]  
5 1101 (71.1%)

# Summary for Question\_4: How many months since family member 1 last tested positive

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed Overall  
1 (N=496) (N=189) (N=863) (N=1548)  
2 Question\_4b   
3   Mean (SD) 11.3 (7.93) NA (NA) NA (NA) 11.3 (7.93)  
4   Median [Min, Max] 12.0 [0, 38.0] NA [NA, NA] NA [NA, NA] 12.0 [0, 38.0]  
5   Missing 82 (16.5%) 189 (100%) 863 (100%) 1134 (73.3%)

# Summary for Question\_5: Age of family member 2 who had COVID-19

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_5b   
3   Mean (SD) 35.2 (20.1) NA (NA) NA (NA)  
4   Median [Min, Max] 36.0 [1.00, 87.0] NA [NA, NA] NA [NA, NA]  
5   Missing 284 (57.3%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 35.2 (20.1)  
4 36.0 [1.00, 87.0]  
5 1336 (86.3%)

# Summary for Question\_6: How many months since family member 2 last tested positive

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_6b   
3   Mean (SD) 10.4 (6.39) NA (NA) NA (NA)  
4   Median [Min, Max] 12.0 [1.00, 36.0] NA [NA, NA] NA [NA, NA]  
5   Missing 298 (60.1%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 10.4 (6.39)  
4 12.0 [1.00, 36.0]  
5 1350 (87.2%)

# Summary for Question\_7: Age of family member one who 3 COVID-19

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_7b   
3   Mean (SD) 30.8 (19.1) NA (NA) NA (NA)  
4   Median [Min, Max] 27.0 [1.00, 84.0] NA [NA, NA] NA [NA, NA]  
5   Missing 392 (79.0%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 30.8 (19.1)  
4 27.0 [1.00, 84.0]  
5 1444 (93.3%)

#Summary for Question\_8: How many months since family member 3 last tested positive

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_8b   
3   Mean (SD) 10.6 (6.26) NA (NA) NA (NA)  
4   Median [Min, Max] 12.0 [1.00, 36.0] NA [NA, NA] NA [NA, NA]  
5   Missing 401 (80.8%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 10.6 (6.26)  
4 12.0 [1.00, 36.0]  
5 1453 (93.9%)

#Summary for Question\_9: Age of family member four who had COVID-19

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_9b   
3   Mean (SD) 30.5 (18.3) NA (NA) NA (NA)  
4   Median [Min, Max] 31.0 [4.00, 86.0] NA [NA, NA] NA [NA, NA]  
5   Missing 447 (90.1%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 30.5 (18.3)  
4 31.0 [4.00, 86.0]  
5 1499 (96.8%)

# Summary for Question\_10: How many months since family member 4 last tested positive

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_10b   
3   Mean (SD) 11.2 (6.95) NA (NA) NA (NA)  
4   Median [Min, Max] 12.0 [1.00, 36.0] NA [NA, NA] NA [NA, NA]  
5   Missing 453 (91.3%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 11.2 (6.95)  
4 12.0 [1.00, 36.0]  
5 1505 (97.2%)

# Summary for Question\_11: Age of family member 5 who had COVID-19

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_11b   
3   Mean (SD) 34.4 (24.5) NA (NA) NA (NA)  
4   Median [Min, Max] 33.0 [2.00, 91.0] NA [NA, NA] NA [NA, NA]  
5   Missing 477 (96.2%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 34.4 (24.5)  
4 33.0 [2.00, 91.0]  
5 1529 (98.8%)

# Summary for Question\_12: How many months since family member 5 last tested positive

Get nicer `table1` .docx output by simply installing the `flextable` package

  Exposed Missing Unexposed  
1 (N=496) (N=189) (N=863)  
2 Question\_12b   
3   Mean (SD) 9.57 (6.90) NA (NA) NA (NA)  
4   Median [Min, Max] 8.50 [1.00, 26.0] NA [NA, NA] NA [NA, NA]  
5   Missing 482 (97.2%) 189 (100%) 863 (100%)  
 Overall  
1 (N=1548)  
2   
3 9.57 (6.90)  
4 8.50 [1.00, 26.0]  
5 1534 (99.1%)

# Summary for Question\_13: Did your children or your family member experience Fever or chills

Exposed Missing Unexposed  
 1 289 1 0

# Summary for Question\_13\_Cough: Did your children or your family member experience cough

Exposed Missing Unexposed  
 1 316 1 0

# Summary for Question\_13\_Shortness\_of\_breath: Did your children or your family member experience Shortness\_of\_breath

Exposed Missing Unexposed  
 1 177 0 0

# Summary for Question\_13\_Fatigue: Did your children or your family member experience Fatigue

Exposed Missing Unexposed  
 1 246 0 0

# Summary for Question\_13\_Muscle\_Body\_Aches: Did your children or your family member experience \_Muscle\_Body\_Aches

Exposed Missing Unexposed  
 1 241 1 0

# Summary for Question\_13\_Headache: Did your children or your family member experience Headache

Exposed Missing Unexposed  
 1 242 0 0

# Summary for Question\_13\_Loss\_of\_Taste: Did your children or your family member experience Loss\_of\_Taste

Exposed Missing Unexposed  
 1 173 1 0

# Summary for Question\_13\_Sore\_Throat: Did your children or your family member experience Sore\_Throat

Exposed Missing Unexposed  
 1 204 1 0

# Summary for Question\_13\_Congestion: Did your children or your family member experience Congestion

Exposed Missing Unexposed  
 1 231 1 0

# Summary for Question\_13\_Nausea: Did your children or your family member experience Nausea

Exposed Missing Unexposed  
 1 106 0 0

# Summary for Question\_13\_Diarrhea: Did your children or your family member experience Diarrhea

Exposed Missing Unexposed  
 1 106 0 0

# Summary for Question\_13\_Asymptomatic: Did your children or your family member experience Asymptomatic

Exposed Missing Unexposed  
 1 44 0 0

# Summary for Question\_13\_Other: Did your children or your family member experience other

Exposed Missing Unexposed  
 1 15 0 0  
 5 1 0 0

# Summary for Question\_14: Describe your symptoms

Exposed Missing Unexposed  
 4 1 0 0  
 5 2 0 0

# Summary for Question\_15:I (or my chidlren) am at risk of getting a COVID-19

freq perc  
   
1 575 41.5%  
2 308 22.3%  
3 501 36.2%

# Summary for Question\_16: My family members are at risk of COVID-19 infection

freq perc  
   
At Risk 410 38.7%  
Neutral 242 22.9%  
Not At Risk 407 38.4%

# Summary for Question\_17: I feel knowledgeable about the risk of getting COVID-19 infection

freq perc  
   
At Risk 743 72.5%  
Neutral 123 12.0%  
Not At Risk 159 15.5%

# Summary for Question\_18: I am worried about the likehood of getting a COVID-19 infection in the near future

freq perc  
   
At Risk 375 36.8%  
Neutral 270 26.5%  
Not At Risk 374 36.7%

# Summary for Question\_19:Can we prevent ourselves from getting infected with the COVID-19 virus and/or reduce the severity of infection if infected?

freq perc  
   
Do not know 21 1.4%  
No 140 9.5%  
Not sure 150 10.1%  
Yes 1'169 79.0%

# Summary for Question\_20\_Basic\_Health: Prevention strategies - Basic health and hygiene practices (mask wearing, handwashing, etc.)

Yes   
1082

# Summary for Question\_20\_COVID\_19\_Vacc: Prevention strategies - Staying up to date with COVID-19 vaccines

Yes   
995

# Summary for Question\_20\_Improving\_ventilation: Prevention strategies

Yes   
726

# Summary for Question\_20\_Getting\_tested: Prevention strategies

Yes   
989

# Summary for Question\_20\_Following\_recommendations: Prevention strategies

Yes   
912

# Summary for Question\_20\_Staying\_home: Prevention strategies

Yes   
940

# Summary for Question\_20\_Seeking: Prevention strategies - Seeking treatment if you have COVID-19 and are at a high risk of getting very sick

Yes   
907

# Summary for Question\_20\_Avoiding: Prevention strategies - Avoiding contact with people who have suspected or confirmed COVID-19

Yes   
951

# Summary for Question\_21: Do you know where to get a COVID-19 vaccine?

freq perc  
   
Do not know 7 0.5%  
No 32 2.3%  
Not sure 15 1.1%  
Yes 1'358 96.2%

#————————————–SECTION3—————————————————#

# Summary for Question\_22: Were you provided with COVID-19 health information during the event today?

freq perc  
   
Do not know 9 0.6%  
No 105 7.1%  
Not sure 31 2.1%  
Yes 1'342 90.2%

# Summary for Question\_23: Did you understand the COVID-19 health information provided today?

freq perc  
   
Do not know 1 0.1%  
No 4 0.3%  
Not sure 1 0.1%  
Yes 1'337 99.6%

# Summary for Question\_24: Did you receive information on the COVID-19 vaccine today?

freq perc  
   
Do not know 12 0.8%  
No 142 9.6%  
Not sure 22 1.5%  
Yes 1'301 88.1%

# Summary for Question\_25: Did you also receive a COVID-19 vaccine today?

freq perc  
   
No 890 62.2%  
Yes 541 37.8%

# Summary for Question\_26: Was the COVID-19 vaccine dose you received today your 1st dose?

freq perc  
   
No 364 80.4%  
Yes 89 19.6%

# Summary for Question\_27: Were you vaccinated in the past?

freq perc  
   
No 160 19.3%  
Yes 668 80.7%

# Summary for Question\_28: Do you plan to get vaccinated in the near future?

freq perc  
   
Do not know 5 3.2%  
No 40 26.0%  
Not sure 54 35.1%  
Yes 55 35.7%

# Summary for Question\_29: If/when you decide to get vaccinated, do you know where to get a COVID-19 vaccine?

freq perc  
   
No 19 10.3%  
Yes 165 89.7%

# Summary for Question\_30\_Physician: Who provided the information during the event today? Physician

Yes   
178

# Summary for Question\_30\_Nurse\_Practitioner: Who provided the information during the event today? Nurse Practitioner

Yes   
117

# Summary for Question\_30\_Registered\_Nurse: Who provided the information during the event today? Registered Nurse

Yes   
165

# Summary for Question\_30\_Community\_Health\_Advocate: Who provided the information during the event today? Community Health Advocate

Yes   
463

# Summary for Question\_30\_Community\_Member: Who provided the information during the event today? Community Member

Yes   
479

# Summary for Question\_30\_Other: Who provided the information during the event today? Other

Yes   
142

# Summary for Question\_31: Who provided the information during the event today? specify

1 2   
8 1

# Summary for Question\_32: Did the information provider during the event today check your understanding of the COVID-19 health information provided including information about the vaccine?

Do not know No Not sure Yes   
 16 77 49 1292

# Summary for Question\_33: Were you satisfied with the communication regarding COVID-19 health information including information about the vaccine during the event today?

Do not know No Not sure Yes   
 10 50 36 1344

# Summary for Question\_34: Were you involved in decisions regarding COVID-19 vaccination decisions made today?

Do not know No Not sure Yes   
 20 235 68 1107

# Summary for Question\_35: How confident are you about COVID 19 vaccine after participating in the event today?

freq perc  
   
Moderately confident 251 17.6%  
Moderately unconfident 26 1.8%  
Very confident 1'116 78.4%  
Very unconfident 31 2.2%

# Summary for Question\_36: Was the information session you participated in today hosted by a

freq perc  
   
local barbershop 7 0.5%  
local church 818 58.3%  
local hospital 40 2.8%  
mobile vaccine and/or testing clinics 95 6.8%  
other community event 444 31.6%

# Summary for Question\_37: Please provide the name of the person (s) or organization (s) who provided the information

freq perc  
   
1 3 75.0%  
30 1 25.0%

# Summary for Question\_38\_Handout\_flier: How did you hear about the activity you attended today? Handout flier, pamphlet, or brochure

Yes   
207

# Summary for Question\_38\_Social\_media: How did you hear about the activity you attended today? Social media (TikTok, Instagram, Facebook and Twitter)

Yes   
 97

# Summary for Question\_38\_Standard\_media: How did you hear about the activity you attended today? standard medial source (TV, Radio, Newspaper)

Yes   
 77

# Summary for Question\_38\_Community\_Health\_Advocate: How did you hear about the activity you attended today? A community health advocate or any other community professional

Yes   
192

# Summary for Question\_38\_Church\_service: How did you hear about the activity you attended today? church service

Yes   
331

# Summary for Question\_38\_Barbershop: How did you hear about the activity you attended today? at the local barbershop

Yes   
 9

# Summary for Question\_38\_Community\_members: How did you hear about the activity you attended today? from community members, friends, or family members

Yes   
486

# Summary for Question\_38\_Others: How did you hear about the activity you attended today? other

Yes   
 67

# Summary for Question\_39: How did you hear about the activity you attended today? specify

1 2 3   
 2 11 3

# Summary for Question\_40: Did your child or children also receive a COVID-19 vaccine today?

freq perc  
   
I do not have childen under 18 in my household 111 17.2%  
No 461 71.4%  
Yes 74 11.5%

# Summary for Question\_41: was the dose you child/children received today their 1st dose

freq perc  
   
No 39 66.1%  
Yes 20 33.9%

# Summary for Question\_42: was your child/children vaccinated in the past?

freq perc  
   
No 153 43.0%  
Yes 203 57.0%

# Summary for Question\_43: do you plan to get you child/children vaccinated in the near future?

freq perc  
   
Do not know 7 4.2%  
No 52 31.0%  
Not sure 64 38.1%  
Yes 45 26.8%

#————————————–SECTION4—————————————————# Vaccine Hesitancy Qustions

# Clinical Barriers

## Summary for Question\_44: Getting sick from multiple dose of COVID-19 vaccine is of concern

freq perc  
   
Agree 239 17.8%  
Disagree 299 22.3%  
Neutral 309 23.0%  
Strongly Agree 214 15.9%  
Strongly Disagree 281 20.9%

# Summary for Question\_45: Dying from the COVID-19 vaccine is of concern

freq perc  
   
Agree 218 16.3%  
Disagree 271 20.3%  
Neutral 273 20.4%  
Strongly Agree 277 20.7%  
Strongly Disagree 299 22.3%

# Summary for Question\_46: Heart disease from the COVID-19 vaccine is of concern

freq perc  
   
Agree 220 17.1%  
Disagree 283 22.0%  
Neutral 295 22.9%  
Strongly Agree 216 16.8%  
Strongly Disagree 273 21.2%

# Summary for Question\_47: Blood clots from the COVID-19 vaccine is of concern

freq perc  
   
Agree 233 18.2%  
Disagree 279 21.8%  
Neutral 294 23.0%  
Strongly Agree 212 16.5%  
Strongly Disagree 263 20.5%

# Summary for Question\_48: The COVID-19 vaccine leads to miscarriages and is not appropriate for pregnant women

freq perc  
   
Agree 139 10.9%  
Disagree 299 23.4%  
Neutral 369 28.9%  
Strongly Agree 176 13.8%  
Strongly Disagree 295 23.1%

# Summary for Question\_49: High blood pressure from the COVID-19 vaccine is of concern

freq perc  
   
Agree 199 15.6%  
Disagree 307 24.1%  
Neutral 303 23.7%  
Strongly Agree 189 14.8%  
Strongly Disagree 278 21.8%

# Summary for Question\_50: COVID-19 vaccine implants a “computer chip” in the body

freq perc  
   
Agree 113 8.8%  
Disagree 326 25.5%  
Neutral 257 20.1%  
Strongly Agree 127 9.9%  
Strongly Disagree 454 35.6%

# Summary for Question\_51: COVID-19 vaccine components remain in the human body for a long period of time

freq perc  
   
Agree 237 18.8%  
Disagree 267 21.2%  
Neutral 371 29.4%  
Strongly Agree 153 12.1%  
Strongly Disagree 233 18.5%

# Summary for Question\_52: Pain from/related to COVID-19 vaccine is of concern.

freq perc  
   
Agree 216 16.5%  
Disagree 279 21.3%  
Neutral 347 26.5%  
Strongly Agree 185 14.2%  
Strongly Disagree 280 21.4%

# Summary for Question\_53: COVID-19 vaccine is NOT an effective way to protect against COVID-19.

freq perc  
   
Agree 121 9.2%  
Disagree 352 26.7%  
Neutral 273 20.7%  
Strongly Agree 85 6.5%  
Strongly Disagree 486 36.9%

# Access Barriers

# Summary for Question\_54: I don’t know how to get a hold of the COVID-19 vaccine

freq perc  
   
Agree 82 6.2%  
Disagree 366 27.9%  
Neutral 205 15.6%  
Strongly Agree 53 4.0%  
Strongly Disagree 608 46.3%

# Summary for Question\_55: : It is inconvenient to get the COVID-19 vaccine

freq perc  
   
Agree 133 10.1%  
Disagree 327 24.8%  
Neutral 223 16.9%  
Strongly Agree 99 7.5%  
Strongly Disagree 537 40.7%

# Summary for Question\_56: : There is a shortage of the COVID-19 vaccine

freq perc  
   
Agree 91 6.9%  
Disagree 395 30.0%  
Neutral 249 18.9%  
Strongly Agree 52 4.0%  
Strongly Disagree 529 40.2%

# Summary for Question\_57: : The clinics/venues that provide the COVID-19 vaccine are too far away

freq perc  
   
Agree 88 7.1%  
Disagree 398 32.2%  
Neutral 205 16.6%  
Strongly Agree 35 2.8%  
Strongly Disagree 510 41.3%

# Information Barriers

# Summary for Question\_58: : I don’t have enough information to decide whether to take COVID-19 vaccine or no

freq perc  
   
Agree 89 6.8%  
Disagree 388 29.6%  
Neutral 217 16.6%  
Strongly Agree 46 3.5%  
Strongly Disagree 569 43.5%

# Summary for Question\_59: : I am confused by the information about the COVID-19 vaccines

freq perc  
   
Agree 95 7.3%  
Disagree 375 28.7%  
Neutral 222 17.0%  
Strongly Agree 30 2.3%  
Strongly Disagree 583 44.7%

# Summary for Question\_60: : I don’t know where I can get accurate information about the COVID-19 vaccines

freq perc  
   
Agree 95 7.3%  
Disagree 382 29.4%  
Neutral 198 15.2%  
Strongly Agree 34 2.6%  
Strongly Disagree 590 45.4%

# Summary for Question\_61: : I don’t know where I can get trustworthy information about the COVID-19 vaccines

freq perc  
   
Agree 82 6.3%  
Disagree 388 29.9%  
Neutral 205 15.8%  
Strongly Agree 34 2.6%  
Strongly Disagree 588 45.3%

# Trust Barriers

# Summary for Question\_62: : I don’t trust vaccines in general

freq perc  
   
Agree 104 8.0%  
Disagree 367 28.1%  
Neutral 272 20.8%  
Strongly Agree 51 3.9%  
Strongly Disagree 511 39.2%

# Summary for Question\_63: : I don’t trust the scientists/professionals who recommend the COVID-19 vaccines

freq perc  
   
Agree 95 7.3%  
Disagree 372 28.6%  
Neutral 278 21.4%  
Strongly Agree 41 3.2%  
Strongly Disagree 514 39.5%

# Summary for Question\_64: : I don’t trust the government agencies that approved the COVID-19 vaccines

freq perc  
   
Agree 108 8.3%  
Disagree 375 28.9%  
Neutral 297 22.9%  
Strongly Agree 53 4.1%  
Strongly Disagree 466 35.9%

# Summary for Question\_65: : I don’t trust the pharmaceutical companies that manufacture the COVID-19 vaccines

freq perc  
   
Agree 105 8.1%  
Disagree 401 30.9%  
Neutral 299 23.1%  
Strongly Agree 45 3.5%  
Strongly Disagree 446 34.4%

# Summary for Question\_66: : I don’t trust media that recommend the COVID-19 vaccines

freq perc  
   
Agree 114 8.8%  
Disagree 389 29.9%  
Neutral 306 23.5%  
Strongly Agree 54 4.2%  
Strongly Disagree 437 33.6%

# Religious Barriers

# Summary for Question\_67: : As long as I am faithful to my God and/or my religion, I am protected from COVID-19, therefore I do not need the COVID-19 vaccine

freq perc  
   
Agree 113 8.7%  
Disagree 349 26.9%  
Neutral 297 22.9%  
Strongly Agree 89 6.9%  
Strongly Disagree 447 34.5%

# Summary for Question\_68: : The COVID-19 vaccines’ ingredients are banned by my religion therefore I cannot get the COVID-19 vaccine

freq perc  
   
Agree 73 5.8%  
Disagree 361 28.6%  
Neutral 252 20.0%  
Strongly Agree 39 3.1%  
Strongly Disagree 537 42.6%

# Summary for Question\_69: : It is better to use spiritual/holy preventive measures (e.g., holy water, holy oil, cross, holy amulets, etc.) to prevent getting sick from COVID-19 than

freq perc  
   
Agree 90 6.9%  
Disagree 355 27.4%  
Neutral 295 22.8%  
Strongly Agree 54 4.2%  
Strongly Disagree 501 38.7%

# Summary for Question\_70: : It is better to use natural preventive methods (e.g., essential oils, other natural drinks, tonics etc.) to prevent getting infected with COVID-19 than getting the vaccine

freq perc  
   
Agree 101 8.1%  
Disagree 334 26.9%  
Neutral 290 23.3%  
Strongly Agree 49 3.9%  
Strongly Disagree 469 37.7%

# Summary for Question\_71: : It is better to get sick of COVID-19 and for your body to fight it off, building natural immunity than getting the vaccine rinks, tonics etc.) to prevent getting infected with COVID-19 than getting the vaccine

freq perc  
   
Agree 93 7.2%  
Disagree 325 25.3%  
Neutral 274 21.3%  
Strongly Agree 65 5.1%  
Strongly Disagree 529 41.1%

#————————————–SECTION5—————————————————#

# Summary for Question\_72: : I am willing to get vaccinated if The CDC/ local health department recommended us to get the COVID-19 vaccine

freq perc  
   
Agree 529 40.0%  
Disagree 55 4.2%  
Neutral 246 18.6%  
Strongly Agree 399 30.1%  
Strongly Disagree 95 7.2%

# Summary for Question\_73: : I am willing to get vaccinated if My health care provider recommended me to get the COVID-19 vaccine

freq perc  
   
Agree 529 40.0%  
Disagree 70 5.3%  
Neutral 237 17.9%  
Strongly Agree 397 30.1%  
Strongly Disagree 88 6.7%

# Summary for Question\_74: : I am willing to get vaccinated if My nurse recommended me to get the COVID-19 vaccine

freq perc  
   
Agree 493 37.6%  
Disagree 107 8.2%  
Neutral 276 21.1%  
Strongly Agree 338 25.8%  
Strongly Disagree 97 7.4%

# Summary for Question\_75: : I am willing to get vaccinated if My spiritual advisor (such as pastor/priest/rabbi/imam) recommended me to get the COVID-19 vaccine

freq perc  
   
Agree 456 34.6%  
Disagree 96 7.3%  
Neutral 320 24.3%  
Strongly Agree 341 25.9%  
Strongly Disagree 105 8.0%

# Summary for Question\_76: : I am willing to get vaccinated if My family members recommended me to get the COVID-19 vaccine

freq perc  
   
Agree 530 40.1%  
Disagree 71 5.4%  
Neutral 283 21.4%  
Strongly Agree 342 25.9%  
Strongly Disagree 95 7.2%

# Summary for Question\_77: : I am willing to get vaccinated if My colleagues/co-workers recommended me to get the COVID-19 vaccine

freq perc  
   
Agree 479 36.4%  
Disagree 111 8.4%  
Neutral 332 25.2%  
Strongly Agree 282 21.4%  
Strongly Disagree 113 8.6%

# Summary for Question\_78: : I am willing to get vaccinated if…- I need to learn more about COVID-19 vaccination, its side effects, benefits, and future implications

freq perc  
   
Agree 490 37.0%  
Disagree 78 5.9%  
Neutral 328 24.8%  
Strongly Agree 340 25.7%  
Strongly Disagree 87 6.6%

# Summary for data\_source: pen and paper or qualtrics

freq perc  
   
Pen and Paper survey 454 29.4%  
Qualtrics 1'089 70.6%