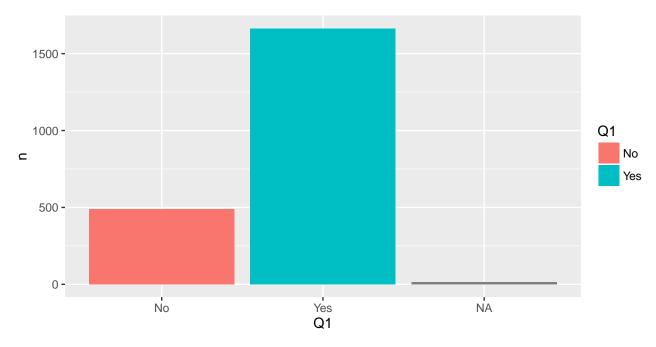
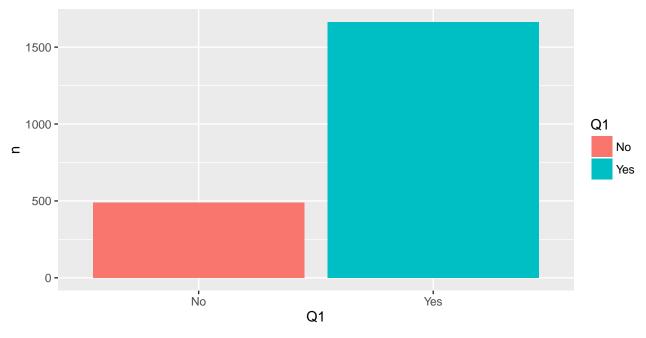
Working report

Contents

Survey questions	1
HHM1	40 40 41
Working analysis	
Survey questions Q1. Before receiving this survey, did you know influenza is different from the stomach flu?	
# Q1 summary	
with(data, table(Q1))	
## Q1 ## No Yes ## 488 1664	
<pre>(q1 <- data %>% count(Q1))</pre>	
<pre>## Source: local data frame [3 x 2] ## ## Q1 n ## <fctr> <int> ## 1 No 488 ## 2 Yes 1664 ## 3 NA 16</int></fctr></pre>	
<pre># plot ggplot(q1, aes(x = Q1, y = n, fill = Q1)) + geom_bar(stat = 'identity')</pre>	



```
# plot without na's
ggplot(q1[!is.na(q1$Q1), ], aes(x = Q1, y = n, fill = Q1)) +
geom_bar(stat = 'identity', position = position_dodge())
```

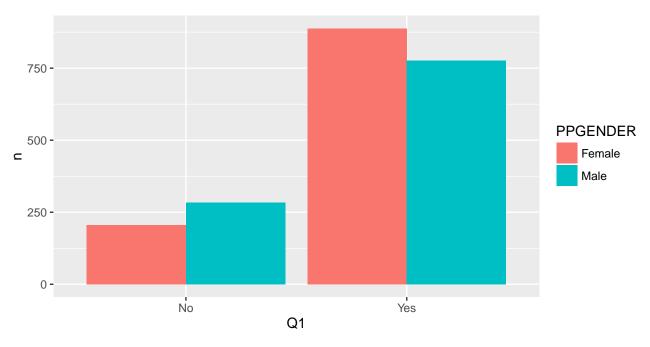


```
# by gender, PPGENDER
with(data, table(PPGENDER, Q1))
```

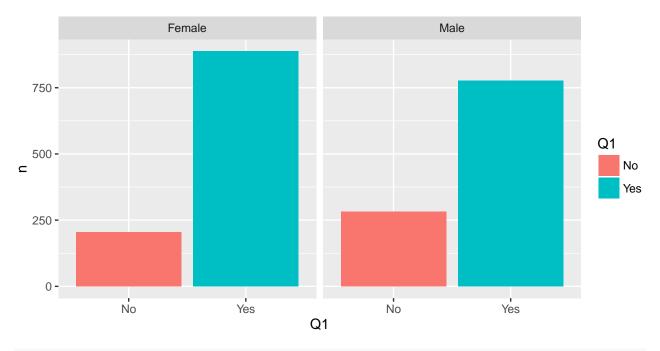
```
## Q1
## PPGENDER No Yes
## Female 205 888
## Male 283 776
```

```
q1 <- data %>%
  count(Q1, PPGENDER)
)
## Source: local data frame [6 x 3]
## Groups: Q1 [?]
##
        Q1 PPGENDER
##
     (fctr)
              (fctr) (int)
## 1
             Female
                      205
        No
## 2
        No
               Male
                      283
## 3
            Female
                     888
       Yes
## 4
       Yes
               Male
                     776
## 5
        NA Female
                       4
## 6
        NA
               Male
                       12
# plot
ggplot(q1[!is.na(q1$Q1), ], aes(x = Q1, y = n, fill = PPGENDER)) +
```

geom_bar(stat = 'identity', position = position_dodge())



```
# plot with facet
ggplot(q1[!is.na(q1$Q1), ], aes(x = Q1, y = n, fill = Q1)) +
  geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~PPGENDER)
```



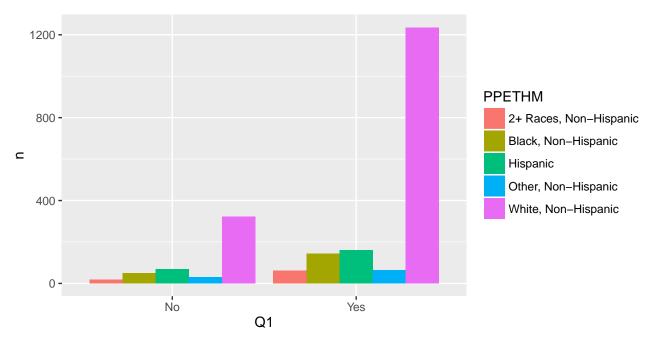
by ethnicity, PPETHM with(data, table(PPETHM, Q1))

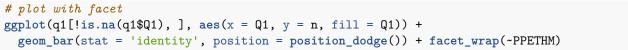
```
Q1
##
## PPETHM
                                No
                                    Yes
##
     2+ Races, Non-Hispanic
                                     62
                                18
##
     Black, Non-Hispanic
                                50
                                    143
##
     Hispanic
                                69
                                    161
##
     Other, Non-Hispanic
                                29
                                     63
     White, Non-Hispanic
                               322 1235
##
(
q1 <- data %>%
  count(Q1, PPETHM)
)
```

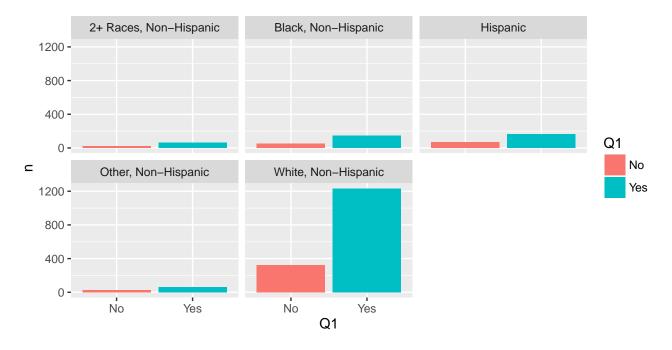
```
## Source: local data frame [14 x 3]
## Groups: Q1 [?]
##
##
          Q1
                              PPETHM
                                          n
##
      (fctr)
                               (fctr) (int)
          No 2+ Races, Non-Hispanic
## 1
## 2
                                         50
          No
                 Black, Non-Hispanic
## 3
          No
                            Hispanic
                                         69
## 4
          No
                 Other, Non-Hispanic
                                         29
## 5
          No
                 White, Non-Hispanic
                                        322
## 6
         Yes 2+ Races, Non-Hispanic
                                         62
## 7
         Yes
                 Black, Non-Hispanic
                                        143
## 8
         Yes
                            Hispanic
                                        161
## 9
         Yes
                 Other, Non-Hispanic
                                         63
## 10
         Yes
                 White, Non-Hispanic
                                       1235
## 11
          NA
                 Black, Non-Hispanic
```

```
## 12 NA Hispanic 2
## 13 NA Other, Non-Hispanic 1
## 14 NA White, Non-Hispanic 11
```

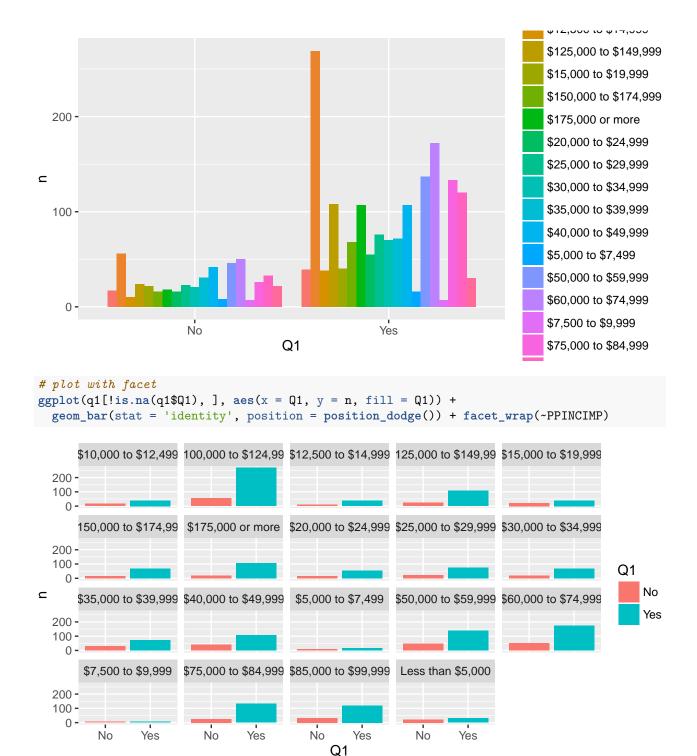
```
# plot
ggplot(q1[!is.na(q1$Q1), ], aes(x = Q1, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```







```
# by income, PPINCIMP
with(data, table(PPINCIMP, Q1))
##
                        Q1
## PPINCIMP
                          No Yes
##
    $10,000 to $12,499
                          17 39
##
    $100,000 to $124,999 56 269
##
    $12,500 to $14,999
                          10 38
    $125,000 to $149,999 24 108
##
##
    $15,000 to $19,999
                          22 40
##
    $150,000 to $174,999 16 68
##
    $175,000 or more
                          18 107
##
    $20,000 to $24,999
                          16 55
##
    $25,000 to $29,999
                          23 76
##
    $30,000 to $34,999
                          21 70
##
    $35,000 to $39,999
                          31 72
##
    $40,000 to $49,999
                          42 107
                           8 16
    $5,000 to $7,499
##
    $50,000 to $59,999
                          46 137
##
    $60,000 to $74,999
                          50 172
##
    $7,500 to $9,999
                          7 7
##
    $75,000 to $84,999
                          26 133
##
    $85,000 to $99,999
                          33 120
##
    Less than $5,000
                          22 30
(
q1 <- data %>%
 count(Q1, PPINCIMP)
## Source: local data frame [50 x 3]
## Groups: Q1 [?]
##
##
         Q1
                        PPINCIMP
                                     n
##
      (fctr)
                          (fctr) (int)
## 1
         No $10,000 to $12,499
                                    17
## 2
         No $100,000 to $124,999
## 3
              $12,500 to $14,999
                                    10
         No
## 4
         No $125,000 to $149,999
                                    24
## 5
       No
              $15,000 to $19,999
                                    22
## 6
         No $150,000 to $174,999
## 7
              $175,000 or more
                                    18
         No
## 8
         No $20,000 to $24,999
                                    16
## 9
         No $25,000 to $29,999
                                    23
## 10
         No
              $30,000 to $34,999
                                    21
## ..
# plot
ggplot(q1[!is.na(q1$Q1), ], aes(x = Q1, y = n, fill = PPINCIMP)) +
 geom_bar(stat = 'identity', position = position_dodge())
```



Q2. Have you had an illness with influenza-like symptoms since August 2015?

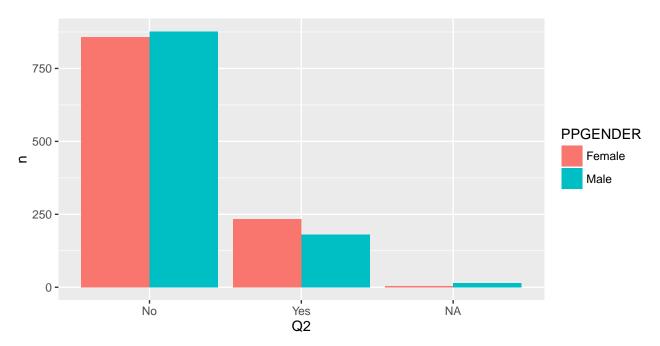
```
#
with(data, table(Q2))
```

Q2

```
## No Yes
## 1735 414
(
q2 <- data %>%
count(Q2)
## Source: local data frame [3 x 2]
##
##
       Q2
##
   <fctr> <int>
## 1
      No 1735
## 2
     Yes 414
## 3 NA 19
ggplot(q2, aes(x = Q2, y = n, fill = Q2)) + geom_bar(stat = 'identity')
 1500 -
                                                                            Q2
 1000 -
                                                                               No
⊂
                                                                               Yes
  500 -
                 No
                                      Yes
                                                            NΑ
                                       Q2
# by gender
with(data, table(Q2, PPGENDER))
##
      PPGENDER
## Q2 Female Male
        858 877
##
   No
##
   Yes 234 180
(
q2 <- data %>%
 count(Q2, PPGENDER)
```

```
## Source: local data frame [6 x 3]
## Groups: Q2 [?]
##
##
         Q2 PPGENDER
                          n
##
     (fctr)
              (fctr) (int)
## 1
         No
              Female
                        858
## 2
         No
                Male
                        877
## 3
              Female
                        234
        Yes
## 4
        Yes
                Male
                        180
## 5
         NA
              Female
                        5
## 6
         NA
                Male
                         14
```

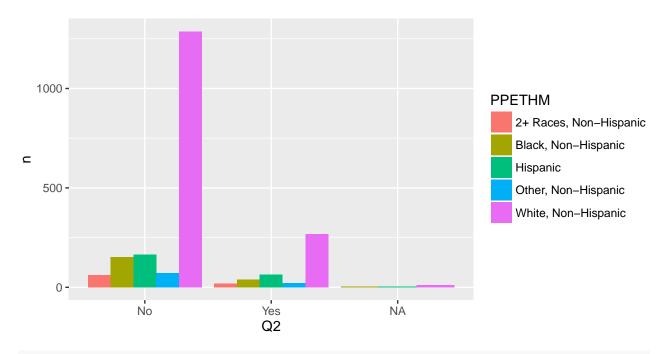
```
ggplot(q2, aes(x = Q2, y = n, fill = PPGENDER)) +
geom_bar(stat = 'identity', position = position_dodge())
```



```
# by ethnicity
with(data, table(Q2, PPETHM))
```

```
PPETHM
##
## Q2
         2+ Races, Non-Hispanic Black, Non-Hispanic Hispanic
##
                                                  152
                                                           164
    No
                              61
##
     Yes
                              19
                                                   39
                                                            65
##
        PPETHM
## Q2
         Other, Non-Hispanic White, Non-Hispanic
                                              1287
##
     No
                           71
##
     Yes
                           22
                                               269
```

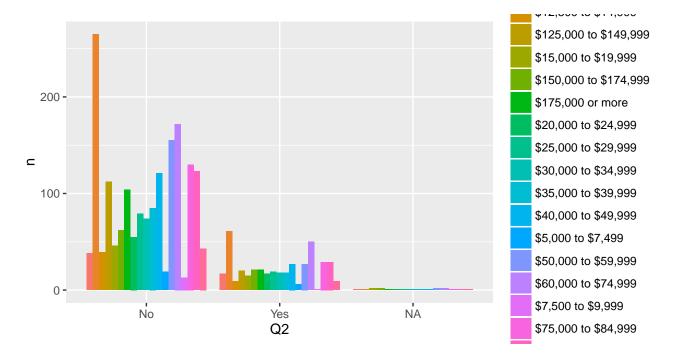
```
q2 <- data %>%
  count(Q2, PPETHM)
ggplot(q2, aes(x = Q2, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



by income with(data, table(Q2, PPINCIMP))

```
PPINCIMP
##
## Q2
         $10,000 to $12,499 $100,000 to $124,999 $12,500 to $14,999
##
     No
                                               265
                          38
     Yes
                          17
                                                61
                                                                     9
##
##
        PPINCIMP
## Q2
         $125,000 to $149,999 $15,000 to $19,999 $150,000 to $174,999
##
     No
                           112
                                                46
##
     Yes
                            20
                                                15
                                                                      21
##
        PPINCIMP
## Q2
         $175,000 or more $20,000 to $24,999 $25,000 to $29,999
##
     No
                       104
##
                        21
                                            17
                                                                19
     Yes
##
        PPINCIMP
## Q2
         $30,000 to $34,999 $35,000 to $39,999 $40,000 to $49,999
##
                          74
                                              85
                          18
##
     Yes
                                              18
                                                                  27
##
        PPINCIMP
## Q2
         $5,000 to $7,499 $50,000 to $59,999 $60,000 to $74,999
##
                        19
                                           155
     No
                                                               172
##
     Yes
                         6
                                            27
                                                                50
##
        PPINCIMP
## Q2
         $7,500 to $9,999 $75,000 to $84,999 $85,000 to $99,999
##
     No
                        13
                                           130
                                                               123
                                            29
                                                                29
##
##
        PPINCIMP
## Q2
         Less than $5,000
##
     No
                        43
##
     Yes
                         9
```

```
q2 <- data %>%
  count(Q2, PPINCIMP)
ggplot(q2, aes(x = Q2, y = n, fill = PPINCIMP)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

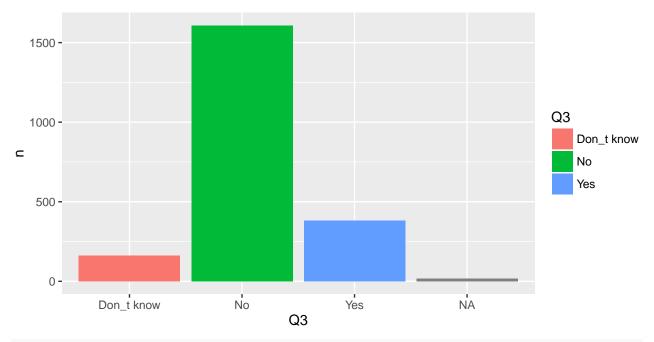


Q3. Has any other person in your household had an illness with influenza like symptoms since August 2015?

```
# all
with(data, table(Q3))

## Q3
## Don_t know    No     Yes
##    161    1608    383

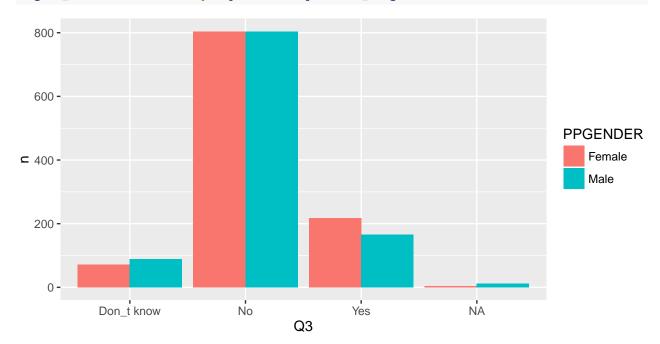
q3 <- data %>%
    count(Q3)
ggplot(q3, aes(x = Q3, y = n, fill = Q3)) + geom_bar(stat = 'identity')
```



by gender with(data, table(Q3, PPGENDER))

```
PPGENDER
##
## Q3
                 Female Male
     Don_t know
                     72
                          89
##
                    804
                         804
##
     No
     Yes
                    217
                         166
##
```

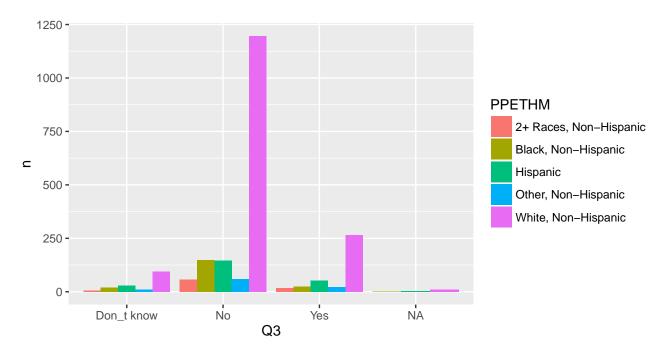
```
q3 <- data %>%
  count(Q3, PPGENDER)
ggplot(q3, aes(x = Q3, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



```
# by ethnicity
with(data, table(Q3, PPETHM))
```

```
PPETHM
##
## Q3
                 2+ Races, Non-Hispanic Black, Non-Hispanic Hispanic
##
                                                                     30
     Don t know
                                                            19
                                      57
                                                           149
                                                                    146
##
     No
     Yes
                                      17
                                                            25
                                                                     53
##
##
               PPETHM
## Q3
                 Other, Non-Hispanic White, Non-Hispanic
##
     Don_t know
                                   11
                                   59
                                                      1197
##
     No
                                   23
##
     Yes
                                                       265
```

```
q3 <- data %>%
  count(Q3, PPETHM)
ggplot(q3, aes(x = Q3, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

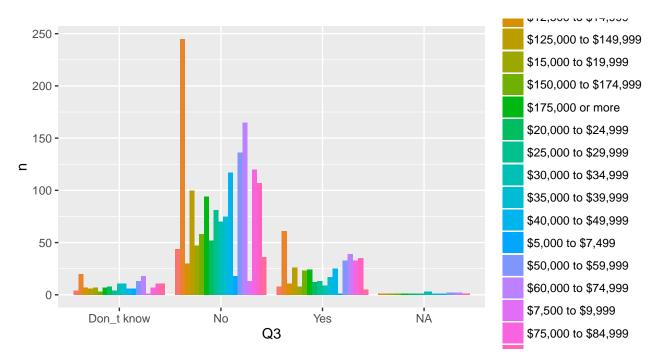


by income with(data, table(Q3, PPINCIMP))

```
##
               PPINCIMP
## Q3
                $10,000 to $12,499 $100,000 to $124,999 $12,500 to $14,999
##
     Don_t know
                                                                            30
##
     No
                                  44
                                                       245
##
     Yes
                                  8
##
               PPINCIMP
## Q3
                $125,000 to $149,999 $15,000 to $19,999 $150,000 to $174,999
##
     Don_t know
                                     6
                                                         7
                                                                               3
##
     No
                                   100
                                                        47
                                                                              58
```

```
26
                                                         8
                                                                               23
##
     Yes
               PPINCIMP
##
                 $175,000 or more $20,000 to $24,999 $25,000 to $29,999
## Q3
##
                                7
     Don_t know
                                94
                                                    52
##
                                                                        81
##
     Yes
                                24
                                                    12
                                                                        13
##
               PPINCIMP
                 $30,000 to $34,999 $35,000 to $39,999 $40,000 to $49,999
## Q3
##
     Don_t know
                                  11
                                                      11
##
                                  70
                                                      75
                                                                         117
     No
##
     Yes
                                   9
                                                      17
                                                                          25
                PPINCIMP
##
## Q3
                 $5,000 to $7,499 $50,000 to $59,999 $60,000 to $74,999
##
                                 6
     Don_t know
                                                    13
##
     No
                                18
                                                   136
                                                                       165
##
     Yes
                                 1
                                                    33
                                                                        39
##
               PPINCIMP
                 $7,500 to $9,999 $75,000 to $84,999 $85,000 to $99,999
## Q3
##
                                                     7
     Don_t know
                                                                        11
                                13
                                                                       107
##
     No
                                                   120
##
     Yes
                                 0
                                                    33
                                                                        35
##
               PPINCIMP
## Q3
                 Less than $5,000
##
     Don_t know
                                11
                                36
##
     No
##
     Yes
                                 5
```

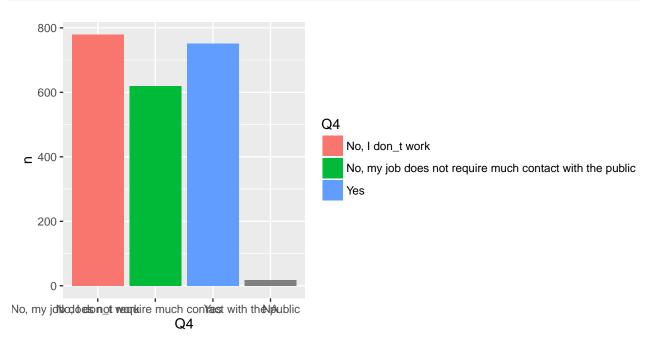
```
q3 <- data %>%
  count(Q3, PPINCIMP)
ggplot(q3, aes(x = Q3, y = n, fill = PPINCIMP)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



Q4. Does your job require you to have a lot of contact with the public?

```
# all
with(data, table(Q4))
## Q4
##
                                             No, I don_t work
##
## No, my job does not require much contact with the public
##
                                                          Yes
##
                                                           751
q4 <- data %>%
  count(Q4)
## Source: local data frame [4 x 2]
##
##
                                                              Q4
                                                                     n
##
                                                         <fctr> <int>
## 1
                                               No, I don_t work
## 2 No, my job does not require much contact with the public
                                                                   620
## 3
                                                             Yes
                                                                   751
## 4
                                                             NA
                                                                    18
```

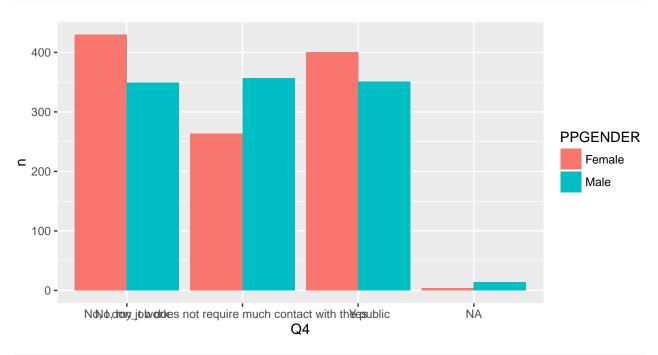




by gender with(data, table(Q4, PPGENDER))

```
## Q4 Female Male
## 0 No, I don_t work 430 349
## No, my job does not require much contact with the public 263 357
## Yes 400 351
```

```
q4 <- data %>%
  count(Q4, PPGENDER)
ggplot(q4, aes(x = Q4, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

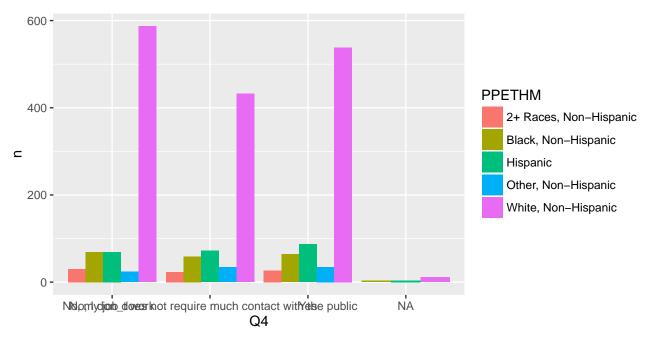


by ethnicity with(data, table(Q4, PPETHM))

```
##
                                                               PPETHM
## Q4
                                                                2+ Races, Non-Hispanic
##
     No, I don_t work
                                                                                     30
##
     No, my job does not require much contact with the public
                                                                                     23
                                                                                     27
##
     Yes
##
                                                               PPETHM
## Q4
                                                                Black, Non-Hispanic
     No, I don_t work
##
                                                                                  59
##
     No, my job does not require much contact with the public
                                                                                  64
##
                                                               PPETHM
##
## Q4
                                                                Hispanic
     No, I don_t work
##
##
     No, my job does not require much contact with the public
```

```
Yes
                                                                       87
##
                                                                PPETHM
##
## Q4
                                                                 Other, Non-Hispanic
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                   34
##
                                                                                   35
##
                                                                PPETHM
## Q4
                                                                 White, Non-Hispanic
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                  432
##
                                                                                  538
```

```
q4 <- data %>%
  count(Q4, PPETHM)
ggplot(q4, aes(x = Q4, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

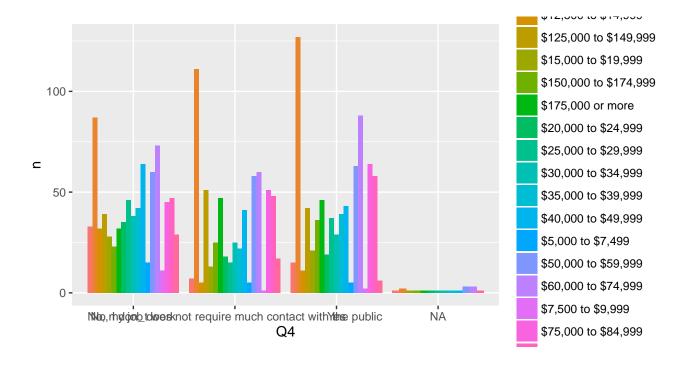


by income with(data, table(Q4, PPINCIMP))

```
##
                                                                PPINCIMP
## Q4
                                                                 $10,000 to $12,499
##
     No, I don t work
                                                                                 33
##
     No, my job does not require much contact with the public
                                                                                  7
##
                                                                                 15
##
                                                               PPINCIMP
## Q4
                                                                 $100,000 to $124,999
##
     No, I don_t work
                                                                                   87
     No, my job does not require much contact with the public
                                                                                  111
##
                                                                                  127
     Yes
##
                                                                PPINCIMP
## Q4
                                                                 $12,500 to $14,999
```

```
##
     No, I don_t work
                                                                                  32
##
     No, my job does not require much contact with the public
                                                                                   5
##
                                                                                  11
##
                                                                PPINCIMP
## Q4
                                                                 $125,000 to $149,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                    51
                                                                                    42
##
##
                                                                PPINCIMP
## Q4
                                                                 $15,000 to $19,999
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                  13
##
                                                                                  21
##
                                                                PPINCIMP
## Q4
                                                                 $150,000 to $174,999
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                    25
##
                                                                                    36
##
                                                                PPINCIMP
## Q4
                                                                 $175,000 or more
##
     No, I don_t work
                                                                                32
##
     No, my job does not require much contact with the public
                                                                                47
##
                                                                                46
##
                                                                PPINCIMP
## Q4
                                                                 $20,000 to $24,999
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                  18
##
                                                                                  19
##
                                                                PPINCIMP
## Q4
                                                                 $25,000 to $29,999
##
     No, I don_t work
                                                                                  46
##
     No, my job does not require much contact with the public
                                                                                  15
##
                                                                                  37
##
                                                                PPINCIMP
## Q4
                                                                 $30,000 to $34,999
##
     No, I don_t work
                                                                                  38
##
     No, my job does not require much contact with the public
                                                                                  25
##
     Yes
                                                                                  29
##
                                                                PPINCIMP
## Q4
                                                                 $35,000 to $39,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                  22
                                                                                  39
##
##
                                                                PPINCIMP
## Q4
                                                                 $40,000 to $49,999
##
     No, I don_t work
                                                                                  64
##
     No, my job does not require much contact with the public
                                                                                  41
##
                                                                                  43
##
                                                                PPINCIMP
## Q4
                                                                 $5,000 to $7,499
##
     No, I don_t work
                                                                                15
     No, my job does not require much contact with the public
##
                                                                                 5
##
                                                                                 5
##
                                                                PPINCIMP
```

```
## Q4
                                                                $50,000 to $59,999
##
     No, I don_t work
                                                                                58
##
     No, my job does not require much contact with the public
##
                                                                                63
##
                                                               PPINCIMP
## Q4
                                                                $60,000 to $74,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                60
##
                                                                                88
##
                                                               PPINCIMP
## Q4
                                                                $7,500 to $9,999
##
     No, I don_t work
                                                                              11
     No, my job does not require much contact with the public
                                                                               1
##
                                                                               2
##
##
                                                               PPINCIMP
## Q4
                                                                $75,000 to $84,999
##
     No, I don_t work
                                                                                45
                                                                                51
##
     No, my job does not require much contact with the public
##
                                                                                64
                                                               PPINCIMP
##
## Q4
                                                                $85,000 to $99,999
##
     No, I don_t work
##
                                                                                48
     No, my job does not require much contact with the public
##
                                                                                58
##
                                                               PPINCIMP
## 04
                                                                Less than $5,000
##
     No, I don_t work
     No, my job does not require much contact with the public
                                                                              17
##
                                                                               6
q4 <- data %>%
 count(Q4, PPINCIMP)
ggplot(q4, aes(x = Q4, y = n, fill = PPINCIMP)) +
 geom_bar(stat = 'identity', position = position_dodge())
```

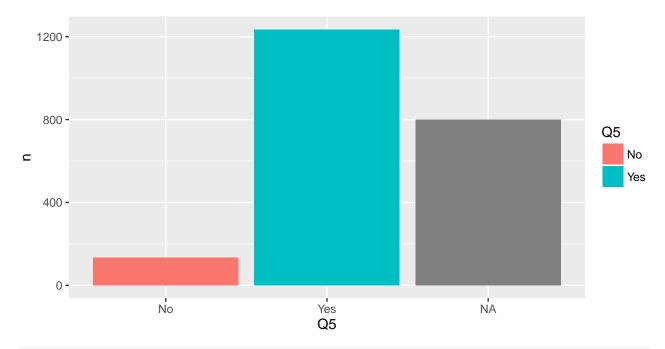


Q5. Do you have a car that you can use to travel to work?

```
# all
with(data, table(Q5))

## Q5
## No Yes
## 133 1235

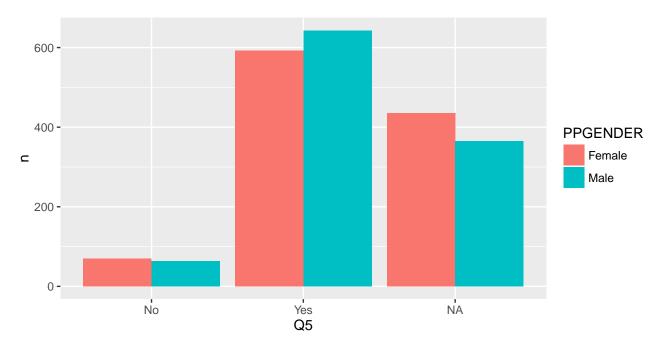
q5 <- data %>%
    count(Q5)
ggplot(q5, aes(x = Q5, y = n, fill = Q5)) + geom_bar(stat = 'identity')
```



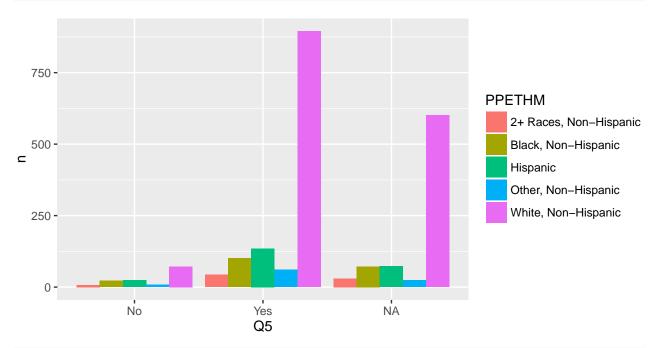
by gender with(data, table(PPGENDER, Q5))

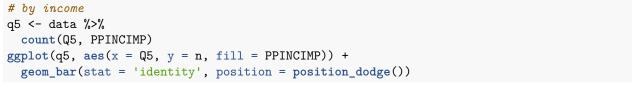
```
## Q5
## PPGENDER No Yes
## Female 70 592
## Male 63 643
```

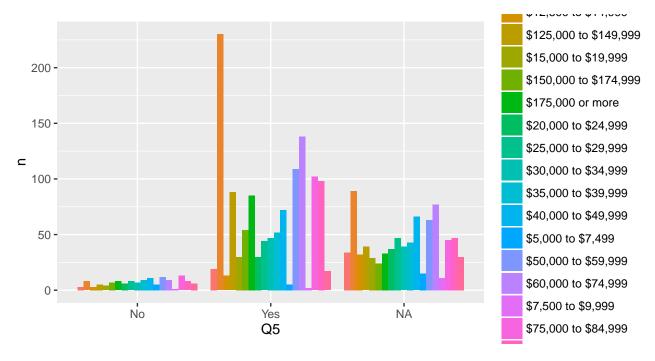
```
q5 <- data %>%
  count(Q5, PPGENDER)
ggplot(q5, aes(x = Q5, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



```
# by ethnicity
q5 <- data %>%
count(Q5, PPETHM)
ggplot(q5, aes(x = Q5, y = n, fill = PPETHM)) +
geom_bar(stat = 'identity', position = position_dodge())
```







Q6. Do you regularly use public transportation?

```
# all
with(data, table(Q6))
## Q6
##
     No
        Yes
## 1959
         194
q6 <- data %>%
  count(Q6)
ggplot(q6, aes(x = Q6, y = n, fill = Q6)) + geom_bar(stat = 'identity')
  2000 -
  1500 -
                                                                                       Q6
                                                                                           No
_ 1000 -
                                                                                           Yes
   500 -
     0 -
                    No
                                                                     NΑ
                                            Yes
                                            Q6
# by gender
# with(data, table(PPGENDER, Q6))
(q6 <- data %>%
  count(Q6, PPGENDER)
## Source: local data frame [6 x 3]
## Groups: Q6 [?]
##
##
         Q6 PPGENDER
                          n
##
     (fctr)
              (fctr) (int)
## 1
         No
              Female
                        998
## 2
                Male
                        961
         No
## 3
        Yes
              Female
                         96
## 4
        Yes
                Male
                         98
## 5
         NA
              Female
                          3
## 6
         NA
                Male
                         12
```

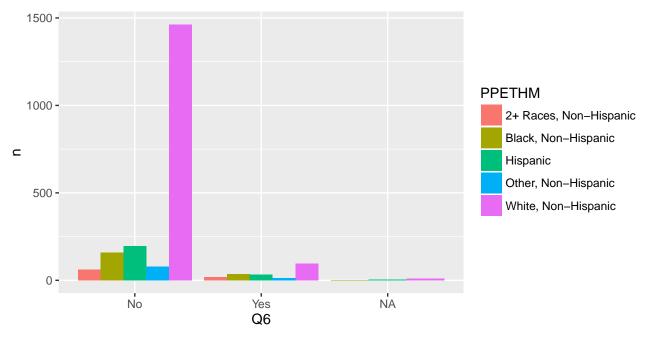
```
ggplot(q6, aes(x = Q6, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

```
1000 -
750 -
250 -
No Yes NA
Q6
```

```
# by ethnicity
(q6 <- data %>%
  count(Q6, PPETHM)
)
```

```
## Source: local data frame [13 x 3]
## Groups: Q6 [?]
##
##
          Q6
                              PPETHM
                                          n
##
      (fctr)
                               (fctr) (int)
          No 2+ Races, Non-Hispanic
## 1
                                         62
## 2
                 Black, Non-Hispanic
                                        158
          No
## 3
          No
                            Hispanic
                                        196
## 4
          No
                 Other, Non-Hispanic
                                         80
## 5
          No
                 White, Non-Hispanic
                                       1463
         Yes 2+ Races, Non-Hispanic
## 6
                                         18
## 7
         Yes
                 Black, Non-Hispanic
                                         36
## 8
                                         32
         Yes
                            Hispanic
## 9
         Yes
                 Other, Non-Hispanic
                                         13
                                         95
## 10
         Yes
                White, Non-Hispanic
## 11
          NA
                Black, Non-Hispanic
                                          1
## 12
                            Hispanic
                                          4
          NA
## 13
          NA
                 White, Non-Hispanic
                                         10
```

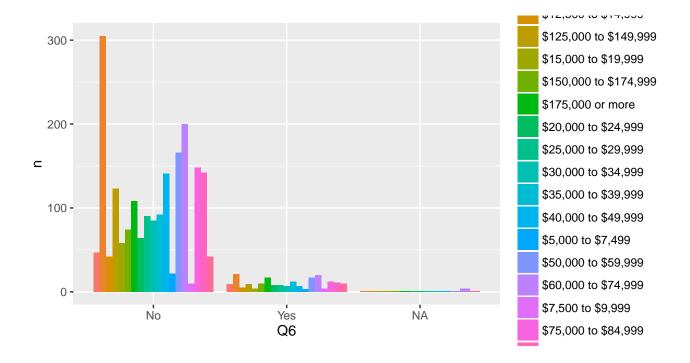
```
ggplot(q6, aes(x = Q6, y = n, fill = PPETHM)) +
geom_bar(stat = 'identity', position = position_dodge())
```



```
# by income
(q6 <- data %>%
   count(Q6, PPINCIMP)
)
```

```
## Source: local data frame [50 x 3]
## Groups: Q6 [?]
##
##
          Q6
                          PPINCIMP
                                       n
##
                            (fctr) (int)
      (fctr)
## 1
               $10,000 to $12,499
          No
                                      47
## 2
          No $100,000 to $124,999
                                     305
## 3
               $12,500 to $14,999
                                      42
          No
          No $125,000 to $149,999
                                     123
## 4
## 5
          No
               $15,000 to $19,999
                                      58
## 6
          No $150,000 to $174,999
                                      74
## 7
          No
                 $175,000 or more
                                     108
               $20,000 to $24,999
## 8
          No
                                      64
## 9
          No
               $25,000 to $29,999
                                      90
## 10
          No
               $30,000 to $34,999
                                      85
## ..
```

```
ggplot(q6, aes(x = Q6, y = n, fill = PPINCIMP)) +
geom_bar(stat = 'identity', position = position_dodge())
```



Q7. What types of public transportation do you regularly use?

```
Q7 <- data2 %>%
  select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q7_1_Bus:Q7_otherText) %>%
  gather("q", "r", Q7_1_Bus:Q7_7_Other)
# 07
with(Q7, table(q, r))
##
                  r
## q
                    No Yes
     Q7_1_Bus
                    57 137
##
##
     Q7_2_Carpool 184
                        10
     Q7_3_Subway
##
                   131
                        63
##
     Q7_4_Train
                   139
                        55
##
     Q7_5_Taxi
                   169
                        25
##
     Q7_6_Airplane 175
                        19
##
     Q7_7_0ther
                   179 15
(
q7 <- Q7 %>%
  count(q, r)
)
## Source: local data frame [21 x 3]
## Groups: q [?]
##
##
                       r
             (chr) (chr) (int)
##
```

```
## 1
          Q7_1_Bus
                       No
                              57
## 2
          Q7_1_Bus
                       Yes
                             137
## 3
                            1974
          Q7_1_Bus
                       NA
## 4
      Q7_2_Carpool
                             184
                       No
## 5
      Q7_2_Carpool
                       Yes
                              10
## 6
      Q7_2_Carpool
                       NA
                           1974
## 7
       Q7 3 Subway
                       No
                             131
       Q7_3_Subway
## 8
                              63
                       Yes
## 9
       Q7_3_Subway
                       NA
                            1974
## 10
        Q7_4_Train
                       No
                             139
## ..
                             . . .
                       . . .
ggplot(q7[!is.na(q7$r), ], aes(x = r, y = n, fill = r)) +
  geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
               Q7_1_Bus
                                         Q7_2_Carpool
                                                                     Q7_3_Subway
  150 -
  100 -
   50 -
    0 -
               Q7_4_Train
                                           Q7_5_Taxi
                                                                    Q7_6_Airplane
  150 -
_ 100 -
                                                                                              No
   50 -
                                                                                               Yes
    0 -
              Q7_7_Other
  150 -
  100 -
   50 -
    0 -
            No
                        Yes
                                              r
# by gender
# with(Q7, table(PPGENDER, r, q))
(q7 \leftarrow Q7 \%)
  group_by(PPGENDER, q, r) %>%
  count(PPGENDER, q, r)
)
## Source: local data frame [42 x 4]
## Groups: PPGENDER, q [?]
##
##
      PPGENDER
                                  r
                                         n
##
        (fctr)
                        (chr) (chr) (int)
## 1
        Female
                                        27
                    Q7_1_Bus
                                 No
## 2
        Female
                    Q7 1 Bus
                                Yes
                                        69
```

3

4

5

Female

Q7_1_Bus

Female Q7_2_Carpool

Female Q7_2_Carpool

NA

No

Yes

1001

91

5

```
1001
## 6
        Female Q7_2_Carpool
                                NA
## 7
        Female Q7_3_Subway
                                No
                                       68
## 8
        Female Q7_3_Subway
                               Yes
                                       28
## 9
        Female Q7_3_Subway
                                NA
                                    1001
## 10
        Female
                 Q7_4_Train
                                No
                                       75
## ..
ggplot(q7[!is.na(q7$r), ], aes(x = r, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
             Q7_1_Bus
                                    Q7_2_Carpool
                                                             Q7_3_Subway
  75 -
  50 -
  25 -
   0 -
                                      Q7_5_Taxi
                                                             Q7_6_Airplane
            Q7_4_Train
                                                                                  PPGENDER
  75 -
                                                                                      Female
c 50 -
  25 -
                                                                                      Male
   0 -
            Q7_7_Other
  75 -
  50 -
  25 -
   0 -
          No
                     Yes
                                          r
# by ethnicity
# with(Q7, table(PPETHM, r, q))
(q7 <- Q7 %>%
  group_by(PPETHM, q, r) %>%
  count(PPETHM, q, r)
)
## Source: local data frame [100 x 4]
## Groups: PPETHM, q [?]
##
##
                       PPETHM
                                                r
                                                      n
##
                                      (chr) (chr) (int)
                       (fctr)
## 1 2+ Races, Non-Hispanic
                                  Q7_1_Bus
                                               No
                                                      4
## 2 2+ Races, Non-Hispanic
                                   Q7_1_Bus
                                              Yes
                                                      14
## 3 2+ Races, Non-Hispanic
                                  Q7_1_Bus
                                               NA
                                                      62
      2+ Races, Non-Hispanic Q7_2_Carpool
                                               No
                                                      18
     2+ Races, Non-Hispanic Q7_2_Carpool
                                                      62
## 5
                                               NA
    2+ Races, Non-Hispanic
                               Q7_3_Subway
                                               No
                                                      12
      2+ Races, Non-Hispanic
                               Q7_3_Subway
                                                      6
## 7
                                              Yes
      2+ Races, Non-Hispanic
                               Q7_3_Subway
                                               NA
                                                      62
                                                      15
## 9 2+ Races, Non-Hispanic
                                Q7_4_Train
                                               No
```

Yes

3

 $Q7_4$ Train

10 2+ Races, Non-Hispanic

..

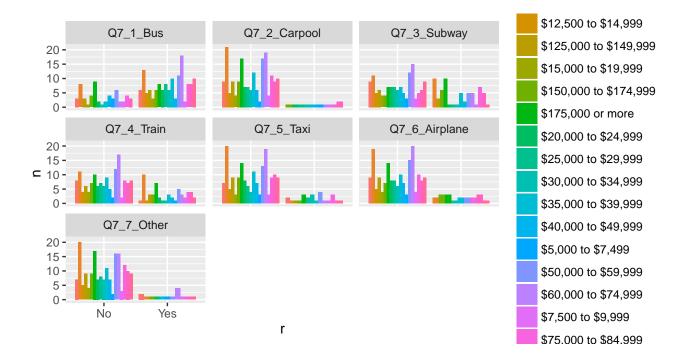
```
ggplot(q7[!is.na(q7$r), ], aes(x = r, y = n, fill = PPETHM)) +
geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```

```
Q7_1_Bus
                                   Q7_2_Carpool
                                                            Q7_3_Subway
  75 -
  50 -
  25 -
   0 -
                                                                                  PPETHM
            Q7_4_Train
                                     Q7_5_Taxi
                                                            Q7_6_Airplane
                                                                                      2+ Races, Non-Hispanic
  75 -
                                                                                      Black, Non-Hispanic
_ 50 -
                                                                                      Hispanic
  25 -
   0 -
                                                                                      Other, Non-Hispanic
            Q7_7_Other
                                                                                      White, Non-Hispanic
  75 -
  50 -
  25 -
   0 -
           No
                     Yes
                                         r
```

```
# by income
# with(Q7, table(q, r, PPINCIMP))
(q7 <- Q7 %>%
    group_by(PPINCIMP, q, r) %>%
    count(PPINCIMP, q, r)
)
```

```
## Source: local data frame [357 x 4]
## Groups: PPINCIMP, q [?]
##
##
                PPINCIMP
                                    q
                  (fctr)
                                (chr) (chr) (int)
##
## 1 $10,000 to $12,499
                             Q7_1_Bus
                                         No
                                                3
## 2 $10,000 to $12,499
                             Q7_1_Bus
                                                6
                                        Yes
## 3
     $10,000 to $12,499
                             Q7_1_Bus
                                         NA
                                               47
## 4 $10,000 to $12,499 Q7_2_Carpool
                                         No
                                                9
## 5 $10,000 to $12,499 Q7_2_Carpool
                                         NA
                                               47
## 6 $10,000 to $12,499 Q7_3_Subway
                                         No
                                                9
     $10,000 to $12,499
## 7
                          Q7_3_Subway
                                         NA
                                               47
## 8 $10,000 to $12,499
                           Q7_4_Train
                                         No
                                                8
## 9 $10,000 to $12,499
                           Q7_4_Train
                                        Yes
                                                1
## 10 $10,000 to $12,499
                           Q7_4Train
                                               47
                                         NA
## ..
```

```
ggplot(q7[!is.na(q7$r), ], aes(x = r, y = n, fill = PPINCIMP)) +
geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```



Q8. For what types of activities do you regularly use public transportation?

```
Q8 <- data2 %>%
select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q8_1_Work:Q8_otherText) %>%
gather("q", "r", Q8_1_Work:Q8_6_Other)
```

Q9. Do other members of your household regularly use public transportation?

```
with(data, table(Q9))

## Q9
## Don_t know No Yes
## 32 1935 183
```

Q10. What types of public transportation do other members of your household regularly use?

Q10 <- data2 %>% select (PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

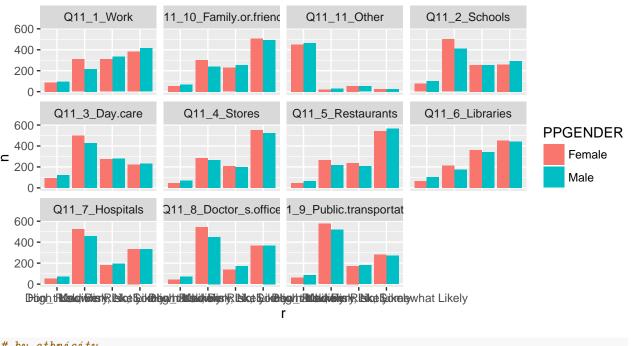
Q11. How do you rate your risk of getting influenza if you visited each of the following locations?

```
Q11 <- data2 %>%
select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q11_1_Work:Q11_OtherText_Codes) %>%
gather("q", "r", Q11_1_Work:Q11_11_Other)

# all
with(Q11, table(q, r))
```

```
##
## q
                                  Don_t Know High Risk, Very Likely
     Q11 1 Work
##
                                          185
                                                                  524
##
     Q11_10_Family.or.friends
                                          121
                                                                  541
                                          915
##
     Q11 11 Other
                                                                   51
##
     Q11 2 Schools
                                          178
                                                                  909
##
     Q11 3 Day.care
                                          214
                                                                  924
     Q11_4_Stores
##
                                          115
                                                                  551
##
     Q11_5_Restaurants
                                          111
                                                                  483
##
     Q11_6_Libraries
                                          169
                                                                  386
##
     Q11_7_Hospitals
                                          123
                                                                  982
##
     Q11_8_Doctor_s.office
                                          110
                                                                  994
     Q11_9_Public.transportation
                                          147
                                                                 1093
##
##
## q
                                  Low Risk, Not Likely
##
     Q11_1_Work
                                                    643
##
     Q11_10_Family.or.friends
                                                    485
                                                     104
##
     Q11 11 Other
     Q11_2_Schools
##
                                                    508
     Q11 3 Day.care
##
                                                    554
##
     Q11_4_Stores
                                                    405
##
     Q11 5 Restaurants
                                                    442
##
     Q11_6_Libraries
                                                    700
##
     Q11 7 Hospitals
                                                    374
##
     Q11_8_Doctor_s.office
                                                    308
     Q11_9_Public.transportation
                                                    353
##
## q
                                  Medium Risk, Somewhat Likely
##
     Q11_1_Work
     Q11_10_Family.or.friends
                                                            1000
##
                                                              54
##
     Q11_11_Other
##
     Q11_2_Schools
                                                             551
##
     Q11_3_Day.care
                                                             454
##
     Q11_4_Stores
                                                            1076
     Q11 5 Restaurants
##
                                                            1111
##
     Q11_6_Libraries
                                                             890
##
     Q11 7 Hospitals
                                                             669
##
     Q11_8_Doctor_s.office
                                                             733
     Q11_9_Public.transportation
                                                             551
q11 <- Q11 %>%
  group_by(q, r) %>%
  count(q, r)
ggplot(q11[!is.na(q11$r), ], aes(x = r, y = n, fill = r)) +
  geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```

```
Q11_1_Work
                                                       _10_Family.or.frie
                                                                                               Q11_11_Other
                                                                                                                                   Q11_2_Schools
     900 -
     600 -
     300 -
          0
                Q11_3_Day.care
                                                         Q11_4_Stores
                                                                                             11_5_Restaurant Q11_6_Libraries
                                                                                                                                                                                        Don_t Know
     900 -
600 -
                                                                                                                                                                                        High Risk, Very Likely
     300 -
                                                                                                                                                                                        Low Risk, Not Likely
                                                                                                                                                                                        Medium Risk, Somewhat Likely
                Q11_7_Hospitals 1_8_Doctor_s.off 9_Public.transpor
     900 -
     600 -
     300 -
      HDoMEditaRis Nos Diplomediate National Diplomediate Nos Diplomediate Nos Diplomediate Nos Diplomediate National Discourse Natio
# by qender
# with(Q7, table(PPGENDER, r, q))
(q11 <- Q11 %>%
     group_by(PPGENDER, q, r) %>%
     count(PPGENDER, q, r)
)
## Source: local data frame [110 x 4]
## Groups: PPGENDER, q [?]
##
                PPGENDER
##
                                                                                                                                                                                           r
                                                                                                                                                                                                           n
                                                                                                          q
##
                      (fctr)
                                                                                               (chr)
                                                                                                                                                                                (chr) (int)
## 1
                      Female
                                                                                Q11_1_Work
                                                                                                                                                                 Don_t Know
                                                                                                                                                                                                        89
                                                                                                                                High Risk, Very Likely
## 2
                     Female
                                                                                Q11_1_Work
                                                                                                                                                                                                      309
## 3
                     Female
                                                                                Q11_1_Work
                                                                                                                                     Low Risk, Not Likely
                                                                                                                                                                                                      310
                     Female
                                                                                                                                                                                                      381
## 4
                                                                                 Q11_1_Work Medium Risk, Somewhat Likely
## 5
                     Female
                                                                                Q11_1_Work
                                                                                                                                                                                        NA
                                                                                                                                                                                                          8
## 6
                     Female Q11_10_Family.or.friends
                                                                                                                                                                 Don t Know
                                                                                                                                                                                                        53
## 7
                     Female Q11_10_Family.or.friends
                                                                                                                                High Risk, Very Likely
                                                                                                                                                                                                      302
## 8
                      Female Q11 10 Family.or.friends
                                                                                                                                    Low Risk, Not Likely
                                                                                                                                                                                                      229
## 9
                      Female Q11_10_Family.or.friends Medium Risk, Somewhat Likely
                                                                                                                                                                                                      506
## 10
                      Female Q11_10_Family.or.friends
                                                                                                                                                                                                           7
                                                                                                                                                                                        NA
## ..
ggplot(q11[!is.na(q11$r), ], aes(x = r, y = n, fill = PPGENDER)) +
     geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```

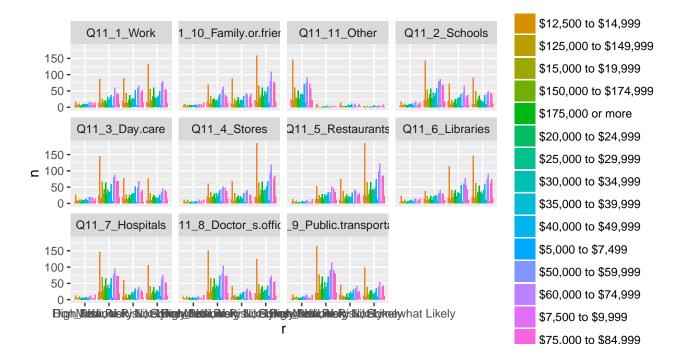


```
# by ethnicity
# with(Q7, table(PPETHM, r, q))
(q11 <- Q11 %>%
    group_by(PPETHM, q, r) %>%
    count(PPETHM, q, r)
)
```

```
## Source: local data frame [275 x 4]
## Groups: PPETHM, q [?]
##
##
                      PPETHM
##
                      (fctr)
                                                (chr)
## 1 2+ Races, Non-Hispanic
                                           Q11_1_Work
## 2 2+ Races, Non-Hispanic
                                           Q11_1_Work
## 3 2+ Races, Non-Hispanic
                                           Q11_1_Work
## 4 2+ Races, Non-Hispanic
                                           Q11 1 Work
## 5 2+ Races, Non-Hispanic
                                           Q11_1_Work
## 6 2+ Races, Non-Hispanic Q11_10_Family.or.friends
## 7 2+ Races, Non-Hispanic Q11_10_Family.or.friends
## 8 2+ Races, Non-Hispanic Q11 10 Family.or.friends
## 9 2+ Races, Non-Hispanic Q11_10_Family.or.friends
## 10 2+ Races, Non-Hispanic Q11_10_Family.or.friends
## ..
## Variables not shown: r (chr), n (int)
```

```
ggplot(q11[!is.na(q11$r), ], aes(x = r, y = n, fill = PPETHM)) +
geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```

```
1_10_Family.or.frie
        Q11_1_Work
                                       Q11_11_Other
                                                       Q11_2_Schools
  800 -
  600 -
  400 -
  200 -
                                                                       PPETHM
       Q11_3_Day.care
                       Q11_4_Stores
                                      Q11_5_Restaurants
                                                      Q11_6_Libraries
                                                                           2+ Races, Non-Hispanic
  800 -
                                                                           Black, Non-Hispanic
  600 -
400 -
                                                                           Hispanic
  200 -
                                                                           Other, Non-Hispanic
      Q11_7_Hospitals
                      11_8_Doctor_s.offi
                                     _9_Public.transport
                                                                           White, Non-Hispanic
  800 -
  600 -
  400 -
  200 -
    0 -
   High Meddu AideRigh Liberty Michelly Meddu Maker Likely
# by income
# with(Q7, table(q, r, PPINCIMP))
(q11 <- Q11 %>%
  group_by(PPINCIMP, q, r) %>%
  count(PPINCIMP, q, r)
)
## Source: local data frame [985 x 4]
## Groups: PPINCIMP, q [?]
##
                PPINCIMP
##
##
                   (fctr)
                                               (chr)
                                         Q11_1_Work
## 1 $10,000 to $12,499
## 2 $10,000 to $12,499
                                         Q11 1 Work
## 3 $10,000 to $12,499
                                         Q11_1_Work
## 4 $10,000 to $12,499
                                         Q11 1 Work
## 5 $10,000 to $12,499
                                         Q11_1_Work
## 6 $10,000 to $12,499 Q11_10_Family.or.friends
## 7 $10,000 to $12,499 Q11_10_Family.or.friends
## 8 $10,000 to $12,499 Q11 10 Family.or.friends
## 9 $10,000 to $12,499 Q11_10_Family.or.friends
## 10 $10,000 to $12,499 Q11_10_Family.or.friends
## ..
## Variables not shown: r (chr), n (int)
ggplot(q11[!is.na(q11$r), ], aes(x = r, y = n, fill = PPINCIMP)) +
 geom_bar(stat = 'identity', position = position_dodge()) + facet_wrap(~q)
```



Q12. Which of the following actions do you take to avoid getting sick?

```
Q12 <- data2 %>%
select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, 75:91) %>%
gather("q", "r", Q12_1_Avoid.touching.my.eyes:Q12_15_0ther)
```

Q13. Do you get the flu vaccine?

```
with(data, table(Q13))

## Q13
## No, never Yes, every year Yes, some years
## 819 908 423
```

Q14. How much do you pay to get an influenza vaccine?

```
with(data, table(Q14))
## Q14
##
              $0
                    $30 to $60
                                   Don_t know Less than $30 More than $60
             970
##
                             54
                                           80
                                                         222
# by gender
with(data, by(Q14, PPGENDER, summary))
## PPGENDER: Female
##
              $0
                    $30 to $60
                                   Don_t know Less than $30 More than $60
##
             514
                             28
                                           41
                                                         101
```

```
##
            NA's
##
             411
##
## PPGENDER: Male
##
              $0
                     $30 to $60
                                    Don_t know Less than $30 More than $60
             456
                              26
                                             39
                                                           121
##
##
            NA's
##
             427
```

Q15. Are you more likely to get a vaccine if others around you get a vaccine?

```
with(data, table(Q15))

## Q15
## No, less likely No, no effect Yes, more likely
## 70 878 381
```

Q16. Are you more likely to get a vaccine if others around you do not get a vaccine?

```
## Q16
## No, less likely No, no effect Yes, more likely
## 101 904 313
```

Q17. Do you get a vaccine to protect yourself, protect others, or protect yourself and others?

```
with(data, table(Q17))

## Q17

## Protect myself Protect myself and others
## 381 921

## Protect others
## 22
```

Q18. What are the reasons you would not get an influenza vaccine?

Q18 <- data 2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q19. Do you have health insurance?

```
with(data, table(Q19))

## Q19
## No Yes
## 154 1994
```

Q20. How effective do you think the influenza vaccine is in protecting people from becoming sick with influenza?

```
with(data, table(Q20))
## Q20
##
                         Don_t know It varies from season to season
##
                                 228
                                                                   433
##
                      Not effective
                                                   Somewhat effective
##
                                                                   961
##
                     Very effective
##
                                 383
```

Q21. Are influenza vaccines covered by your health insurance?

```
with(data, table(Q21))
```

```
## Q21
##
                                 Don_t know
##
                                         500
##
                                          No
##
                                          55
## Yes, but only part of the cost is paid
##
                                         153
##
                Yes, the full cost is paid
##
                                        1282
```

Q22. Do you do any of the following when you have influenza symptoms?

Q22 < - data
2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather
("q", "r", Q:Q)

Q23. Which of the following actions do you take when you have influenza symptoms to avoid someone else from getting sick?

Q23 <- data2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather("q", "r", Q:Q)

Q24. What sources of information do you recall hearing or seeing about influenza outbreaks?

Q24 < - data 2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q25. If you received information from the news, internet or other public media that there was an influenza outbreak in your community would you do any of the following?

 $\rm Q25 < -$ data 2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q26. Does your household have children?

```
with(data, table(Q26))

## Q26
## No Yes
## 1570 576
```

Q27. What actions do you take when a child in your household has influenza symptoms?

Q27 <- data2 %>% select (PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q28. Are you a single parent?

```
with(data, table(Q28))

## Q28
## No Yes
## 490 86
```

Q29. How do you care for a sick child?

Q29 <- data2 %>% select (PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q30. How do you care for a sick child?

 $\rm Q30 < -$ data 2 %>% select(PPGENDER, PPAGE, PPEDUC, PPETHM, PPINCIMP, PPWORK, Q:Q) %>% gather ("q", "r", Q:Q)

Q31. How many hours of screen time (time spent watching television, a computer, smartphone, iPad, etc.) do you spend each day on average when you are not sick? Enter 0 if none

```
with(data, summary(Q31))
##
     Min. 1st Qu. Median
                            Mean 3rd Qu.
                                           Max.
                                                   NA's
    0.000
           2.000
                   4.000
                           4.868
                                   6.000 24.000
##
                                                     52
# by gender
with(data, by(Q31, PPGENDER, summary))
## PPGENDER: Female
##
     Min. 1st Qu. Median
                            Mean 3rd Qu.
                                                   NA's
                                           Max.
##
    0.000
          2.000 4.000
                           4.838
                                   6.000 21.000
## -----
## PPGENDER: Male
##
     Min. 1st Qu. Median Mean 3rd Qu.
                                                  NA's
                                           Max.
    0.000 2.000 4.000
                           4.898
##
                                 6.000 24.000
                                                     31
```

Q32. How many hours of screen time do you spend each day on average when you are sick? Enter 0 if none

```
with(data, summary(Q32))
     Min. 1st Qu. Median
                        Mean 3rd Qu.
                                             NA's
                                      Max.
##
    0.000
         1.000 4.000 4.267 6.000 24.000
                                               61
# by gender
with(data, by(Q33, PPGENDER, summary))
## PPGENDER: Female
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      Max.
                                             NA's
    1.000 2.000 2.000 2.567 3.000
                                      9.000
## -----
## PPGENDER: Male
    Min. 1st Qu. Median
##
                        Mean 3rd Qu.
                                       {\tt Max.}
                                             NA's
##
    1.000 2.000 2.000
                        2.594 3.000 14.000
                                               20
Q33. How many people, including yourself, reside in your household?
with(data, summary(Q33))
##
     Min. 1st Qu. Median
                         Mean 3rd Qu.
                                             NA's
                                      {\tt Max.}
##
     1.00
           2.00
                  2.00
                         2.58 3.00
                                      14.00
# by ethnicity
with(data, by(Q33, PPETHM, summary))
## PPETHM: 2+ Races, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      Max.
                                             NA's
##
    1.000 2.000 2.000
                        2.709 3.000
                                      7.000
## PPETHM: Black, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      {\tt Max.}
    1.000 1.000 2.000
                        2.544 3.000 13.000
## -----
## PPETHM: Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      {\tt Max.}
                                             NA's
##
    1.000 2.000 3.000 2.903 4.000
                                      9.000
## PPETHM: Other, Non-Hispanic
    Min. 1st Qu. Median Mean 3rd Qu.
##
                                      {\tt Max.}
                        2.946 4.000
##
    1.000 2.000 3.000
                                      7.000
                                             1
## -----
## PPETHM: White, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      Max.
                                             NA's
##
    1.000 2.000 2.000 2.509 3.000 14.000
                                             18
```

Household Members

HHM1

Q35. What is the gender of this member of the household? Remember, this relates to HHM1_Name who is HHM1_AGE years old.

```
with(data, table(Q35))

## Q35
## Female Male
## 799 859
```

Q36. On average, how many days per week does this member of your household work or attend day care or school outside of your home?

```
with(data, summary(Q36))
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.000 0.000 4.000 2.874 5.000 7.000 571
```

Q37. On average, how many days per week does this member of your household participate in social activities outside of your home?

```
with(data, summary(Q37))
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.000 0.000 2.000 2.098 3.000 7.000 663
```

Q38. On average, how many days per week does this member of your household use public transportation?

```
with(data, summary(Q38))
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.0000 0.0000 0.0000 0.3909 0.0000 7.0000 582
```

Q39. How frequently does this member of your household visit a doctor's office for wellness appointments?

Q40. How frequently does this member of the household get sick in a typical year?

Q41. How many times has this member of your household had influenza or another respiratory illness in the last two years?

```
with(data, summary(Q41))
##
       2 times
                     3 times
                              Don_t know More than 3
                                                                             Once
                                                              Never
##
            191
                                      158
                                                                807
                                                                              400
                          60
##
           NA's
##
            513
```

Q42. Does this member of your household get an annual influenza vaccine?

514

```
with(data, summary(Q42))

## Don_t know No, never Yes, always Yes, sometimes NA's
## 166 567 661 263 511
```

HHM2

##

226

Q43. What is the gender of this member of the household? Remember, this relates to HHM1_Name who is HHM1_AGE years old.

```
with(data, summary(Q43))
## Female Male NA's
## 388 431 1349
```

Q44. On average, how many days per week does this member of your household work or attend day care or school outside of your home?

```
with(data, summary(Q44))
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.000 1.000 5.000 3.669 5.000 7.000 1383
```

Q45. On average, how many days per week does this member of your household participate in social activities outside of your home?

```
with(data, summary(Q45))
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.000 1.000 2.000 2.395 4.000 7.000 1419
```

Q46. On average, how many days per week does this member of your household use public transportation?

```
with(data, summary(Q46))

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.0000 0.0000 0.0000 0.5727 0.0000 7.0000 1391
```

Q47. How frequently does this member of your household visit a doctor's office for wellness appointments?

Q48. How frequently does this member of the household get sick in a typical year?

Q49. How many times has this member of your household had influenza or another respiratory illness in the last two years?

```
with(data, summary(Q49))
##
       2 times
                    3 times Don_t know More than 3
                                                             Never
                                                                           Once
                                      93
                                                                            183
##
            91
                         32
                                                   21
                                                               403
##
          NA's
          1345
##
```

Q50. Does this member of your household get an annual influenza vaccine?

```
with(data, summary(Q50))

## Don_t know No, never Yes, always Yes, sometimes NA's
## 100 317 275 132 1344
```