

PMS '07 Sample Report

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Introduction

Exploring a small section of the Psychiatric Morbidity Survey (2007).

```
knitr::opts_chunk$set(echo = TRUE)
```

```
library(gmodels)
```

```
## Warning: package 'gmodels' was built under R version 4.0.2
```

```
library(skimr)
```

```
## Warning: package 'skimr' was built under R version 4.0.2
```

```
library(knitr)
```

```
## Warning: package 'knitr' was built under R version 4.0.2
```

```
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.0.2
```

```
## -- Attaching packages ----- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.1    v purrr   0.3.4
```

```
## v tibble  3.0.3    v dplyr   1.0.0
```

```
## v tidyr   1.1.0    v stringr 1.4.0
```

```
## v readr   1.3.1    v forcats 0.5.0
```

```
## Warning: package 'tibble' was built under R version 4.0.2
```

```
## Warning: package 'dplyr' was built under R version 4.0.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag()    masks stats::lag()
```

```
library(haven)
```

```
## Warning: package 'haven' was built under R version 4.0.2
```

```
library(sjlabelled)
```

```
## Warning: package 'sjlabelled' was built under R version 4.0.2
```

```
##
```

```
## Attaching package: 'sjlabelled'
```

```
## The following objects are masked from 'package:haven':
```

```
##
```

```
##      as_factor, read_sas, read_spss, read_stata, write_sas, zap_labels
```

```
## The following object is masked from 'package:forcats':
```

```
##
```

```
##      as_factor
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      as_label
```

```
library(labelled)
```

```
##
```

```
## Attaching package: 'labelled'
```

```
## The following objects are masked from 'package:sjlabelled':
```

```
##
```

```
##      copy_labels, remove_labels, to_character, to_factor, val_labels
```

```
library(sjPlot)
```

```
## Warning: package 'sjPlot' was built under R version 4.0.2
```

```
## Install package "strengjacke" from GitHub ('devtools::install_github("strengjacke/strengjacke")')
```

```
library(psych)
```

```
## Warning: package 'psych' was built under R version 4.0.2
```

```
##
```

```
## Attaching package: 'psych'
```

```
## The following objects are masked from 'package:ggplot2':
```

```
##
```

```
##      %+%, alpha
```

#Read In and View

Read in the data via Haven package as only available in SPSS or SAS format. Take a look as this will usually need cleaning and sorting out of factor type levels to be useable.

```
# read in
source_pms07 <- haven::read_sav("pms07.sav")

# Subsetting to manage descriptive, work, and health variables
subset_pms07 <- source_pms07[,c("pserial", "ResSex", "ResAge", "SF1",
                                "Happy", "Health6", "Everwk", "Psycdis")]
head(subset_pms07)

## # A tibble: 6 x 8
##   pserial   ResSex ResAge      SF1      Happy      Health6 Everwk Psycdis
##   <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl>
## 1 11103072 2 [Femal~    53 2 [very g~ 1 [Very h~ 1 [Mention~ NA      0 [No]
## 2 11103102 2 [Femal~    78 4 [fair]   2 [Fairly~ 0 [Not men~ 1 [Yes]   0 [No]
## 3 11103112 2 [Femal~    52 3 [good]   2 [Fairly~ 1 [Mention~ NA      0 [No]
## 4 11103132 2 [Femal~    58 5 [or, po~ 2 [Fairly~ 0 [Not men~ NA      0 [No]
## 5 11103162 1 [Male]    66 3 [good]   2 [Fairly~ 0 [Not men~ 1 [Yes]   0 [No]
## 6 11103172 1 [Male]    86 3 [good]   2 [Fairly~ 1 [Mention~ 1 [Yes]   0 [No]

# view
subset_pms07 %>% sjPlot::view_df()
```

Data frame: .

ID

Name

Label

Values

Value Labels

1

pserial

Serial number of individual

-9-8-7-6-1

No answer/refusedDon't knowMissing dataProxyItem not applicable

2

ResSex

Sex of selected respondent

-9-8-7-6-112

No answer/refusedDon't knowMissing dataProxyItem not applicableMaleFemale

3

ResAge

Age of selected respondent (95+ merged)

-9-8-7-6-1

No answer/refusedDon't knowMissing dataProxyItem not applicable

4

SF1

SF: Health in general

-9-8-7-6-2-112345

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableExcellentvery goodgoodfairor, poor?

5

Happy

RESILIENCE: How happy would you say you are thesedays?

-9-8-7-6-2-1123

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableVery happyFairly happyNot too happy

6

Health6

HEALTH: Anxiety, depression or other mental healthissue (ever had since age 16)

-9-8-7-6-2-101

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableNot mentioned-Mentioned

7

Everwk

SOCIO DEMO RESP - Ever had a paid job

-9-8-7-6-2-112

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableYesNo

8

Psychdis

(D) Definitive psychotic disorder in past yearusing phase one and two. Use with psychdis__wt.

-9-8-7-6-101

No answer/refusedDon't knowMissing dataProxyItem not applicableNoYes

```
glimpse(subset_pms07)
```

```
## Rows: 7,403
```

```
## Columns: 8
```

```
## $ pserial <dbl+lbl> 11103072, 11103102, 11103112, 11103132, 11103162, 11103...
```

```
## $ ResSex <dbl+lbl> 2, 2, 2, 2, 1, 1, 2, 1, 2, 2, 1, 1, 1, 2, 2, 1, 1, 2, 2...
```

```
## $ ResAge <dbl+lbl> 53, 78, 52, 58, 66, 86, 88, 41, 68, 56, 30, 36, 77, 79,...
```

```
## $ SF1 <dbl+lbl> 2, 4, 3, 5, 3, 3, 4, 2, 2, 3, 3, 2, 3, 3, 3, 5, 3, 4, 2...
```

```
## $ Happy <dbl+lbl> 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 3, 1...
## $ Health6 <dbl+lbl> 1, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0...
## $ Everwk <dbl+lbl> NA, 1, NA, NA, 1, 1, 1, NA, NA, NA, NA, NA, NA, 1,...
## $ Psycdis <dbl+lbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...
```

Cleaning subset of data

Cleaning has involved fixing labels, renaming variables, and importantly making sure levels are correct.

```
# Change Labels for easier reading
attr(subset_pms07$pserial, "label") <- "Serial Number"
attr(subset_pms07$ResSex, "label") <- "Respondant Sex"
attr(subset_pms07$ResAge, "label") <- "Respondant Age"
attr(subset_pms07$SF1, "label") <- "General Health"
attr(subset_pms07$Happy, "label") <- "How Happy Are You?"
attr(subset_pms07$Health6, "label") <- "Mental Health Condition Mentioned"
attr(subset_pms07$Everwk, "label") <- "Ever Had a Paid Job"
attr(subset_pms07$Psycdis, "label") <- "Definitive Psychosis in Last Year"

# check it worked
subset_pms07 %>% sjPlot::view_df()
```

Data frame: .

ID

Name

Label

Values

Value Labels

1

pserial

Serial Number

-9-8-7-6-1

No answer/refusedDon't knowMissing dataProxyItem not applicable

2

ResSex

Respondant Sex

-9-8-7-6-112

No answer/refusedDon't knowMissing dataProxyItem not applicableMaleFemale

3

ResAge

Respondant Age

-9-8-7-6-1

No answer/refusedDon't knowMissing dataProxyItem not applicable

4

SF1

General Health

-9-8-7-6-2-112345

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableExcellentvery goodgoodfairor, poor?

5

Happy

How Happy Are You?

-9-8-7-6-2-1123

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableVery happyFairly happyNot too happy

6

Health6

Mental Health Condition Mentioned

-9-8-7-6-2-101

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableNot mentioned-Mentioned

7

Everwk

Ever Had a Paid Job

-9-8-7-6-2-112

No answer/refusedDon't knowMissing dataProxySchedule not applicableItem not applicableYesNo

8

Psycdis

Definitive Psychosis in Last Year

-9-8-7-6-101

No answer/refusedDon't knowMissing dataProxyItem not applicableNoYes

```
# look at variable names
```

```
colnames(subset_pms07)
```

```
## [1] "pserial" "ResSex" "ResAge" "SF1"      "Happy"   "Health6" "Everwk"
```

```
## [8] "Psycdis"
```

```
# rename variables for easier reading
```

```
subset_pms07 <- subset_pms07 %>% rename(SerNum = pserial, Sex = ResSex,  
                                         Age = ResAge, GenHeal = SF1,  
                                         HowHap = Happy, MenHeal = Health6,  
                                         PaidJob = Everwk, DefPsych = Psycdis)
```

```
# check it worked
```

```
colnames(subset_pms07)
```

```
## [1] "SerNum" "Sex" "Age" "GenHeal" "HowHap" "MenHeal" "PaidJob"
## [8] "DefPsych"
```

```
# Apart from the age variable which was set to factor, the rest of the
#variables will need to be set to the right type/class.
#As a general rule for survey analysis, respondent IDs should be set as
#character, and categorical variables as factor. Here's what we'll do:
subset_pms07$SerNum <- as.character(subset_pms07$SerNum)
```

```
# check
glimpse(subset_pms07$SerNum)
```

```
## chr [1:7403] "11103072" "11103102" "11103112" "11103132" "11103162" ...
```

```
# change variables to right type/class
subset_pms07$Sex <- factor(subset_pms07$Sex)
#subset_pms07$Age <- factor(subset_pms07$Age)
subset_pms07$GenHeal <- factor(subset_pms07$GenHeal)
subset_pms07$HowHap <- factor(subset_pms07$HowHap)
subset_pms07$MenHeal <- factor(subset_pms07$MenHeal)
subset_pms07$PaidJob <- factor(subset_pms07$PaidJob)
subset_pms07$DefPsych <- factor(subset_pms07$DefPsych)
```

```
# check for tranformation and amount of levels for all variables
glimpse(subset_pms07$Sex)
```

```
## Factor w/ 2 levels "1","2": 2 2 2 2 1 1 2 1 2 2 ...
```

```
glimpse(subset_pms07$Age)
```

```
## dbl+lbl [1:7403] 53, 78, 52, 58, 66, 86, 88, 41, 68, 56, 30, 36, 77, 79, 5...
## @ label : chr "Respondant Age"
## @ format.spss: chr "F2.0"
## @ labels : Named num [1:5] -9 -8 -7 -6 -1
## .. attr(*, "names")= chr [1:5] "No answer/refused" "Don't know" "Missing data" "Proxy" ...
```

```
glimpse(subset_pms07$GenHeal)
```

```
## Factor w/ 5 levels "1","2","3","4",...: 2 4 3 5 3 3 4 2 2 3 ...
```

```
glimpse(subset_pms07$HowHap)
```

```
## Factor w/ 3 levels "1","2","3": 1 2 2 2 2 2 2 2 2 2 ...
```

```
glimpse(subset_pms07$MenHeal)
```

```
## Factor w/ 2 levels "0","1": 2 1 2 1 1 2 1 1 2 1 ...
```

```
glimpse(subset_pms07$PaidJob)
```

```
## Factor w/ 2 levels "1","2": NA 1 NA NA 1 1 1 NA NA NA ...
```

```
glimpse(subset_pms07$DefPsych)
```

```
## Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 1 1 1 ...
```

```
# fix levels of factors and Rename levels of factor for easy reading
#Sex has 2 levels
levels(subset_pms07$Sex) <-c("Male","Female")
#General Health has 5 levels
levels(subset_pms07$GenHeal) <-c("NA", "Excellent", "Very Good",
                                "Good", "Fair/Poor")
#How Happy has 3 levels
levels(subset_pms07$HowHap) <- c("NA", "Very Happy",
                                "Fairly/Not too Happy")
#Mental Health Condition has 2 levels
levels(subset_pms07$MenHeal) <-c("Not Mentioned", "Mentioned")
#Paid Job has 2 levels
levels(subset_pms07$PaidJob) <-c("No", "Yes")
#Definitive Psychosis has 2 levels
levels(subset_pms07$DefPsych) <- c("No", "Yes")

# Age has 80 levels? #
# make Age into groups
subset_pms07$Agegroup <-cut(subset_pms07$Age,
                            breaks=c(0, 10, 20, 30, 40, 50, 60, 70, 80, 90),
                            right = FALSE)

# Make NAs explicit
subset_pms07 = subset_pms07 %>% mutate_if(is.factor,
                                           fct_explicit_na,
                                           na_level = "No Answer")

# check it worked
glimpse(subset_pms07)
```

```
## Rows: 7,403
```

```
## Columns: 9
```

```
## $ SerNum   <chr> "11103072", "11103102", "11103112", "11103132", "11103162"...
## $ Sex      <fct> Female, Female, Female, Female, Male, Male, Female, Male, ...
## $ Age      <dbl+lbl> 53, 78, 52, 58, 66, 86, 88, 41, 68, 56, 30, 36, 77, 79...
## $ GenHeal  <fct> Excellent, Good, Very Good, Fair/Poor, Very Good, Very Goo...
## $ HowHap   <fct> NA, Very Happy, Very Happy, Very Happy, Very Happy, Very H...
## $ MenHeal  <fct> Mentioned, Not Mentioned, Mentioned, Not Mentioned, Not Me...
## $ PaidJob  <fct> No Answer, No, No Answer, No Answer, No, No, No, No Answer...
## $ DefPsych <fct> No, No, No, No, No, No, No, No, No, No, No, No, No, No...
## $ Agegroup <fct> "[50,60)", "[70,80)", "[50,60)", "[50,60)", "[60,70)", "[8...
```



```
summary(subset_pms07)
```

```
##      SerNum      Sex      Age      GenHeal
## Length:7403      Male :3197      Min.   :16.00      NA      :1271
## Class :character      Female:4206      1st Qu.:36.00      Excellent:2354
## Mode  :character      Median  :50.00      Very Good:2079
##                                     Mean   :51.12      Good      :1183
##                                     3rd Qu.:66.00      Fair/Poor: 513
##                                     Max.    :95.00      No Answer:  3
##
##                                     HowHap      MenHeal      PaidJob
## NA              :2746      Not Mentioned:5686      No      :3073
## Very Happy      :3956      Mentioned   :1714      Yes     : 296
## Fairly/Not too Happy: 697      No Answer   :    3      No Answer:4034
## No Answer       :    4
##
##
##      DefPsych      Agegroup
## No      :7266      [40,50):1291
## Yes     :  23      [30,40):1262
## No Answer: 114      [60,70):1190
##                                     [50,60):1161
##                                     [70,80): 940
##                                     [20,30): 810
##                                     (0ther): 749
```

Exploring Data

```
# overview of descriptives for df
#describe(subset_pms07)

#gender variable first

# prop
prop.table(table(subset_pms07$Sex))
```

```
##
##      Male      Female
## 0.431852 0.568148
```

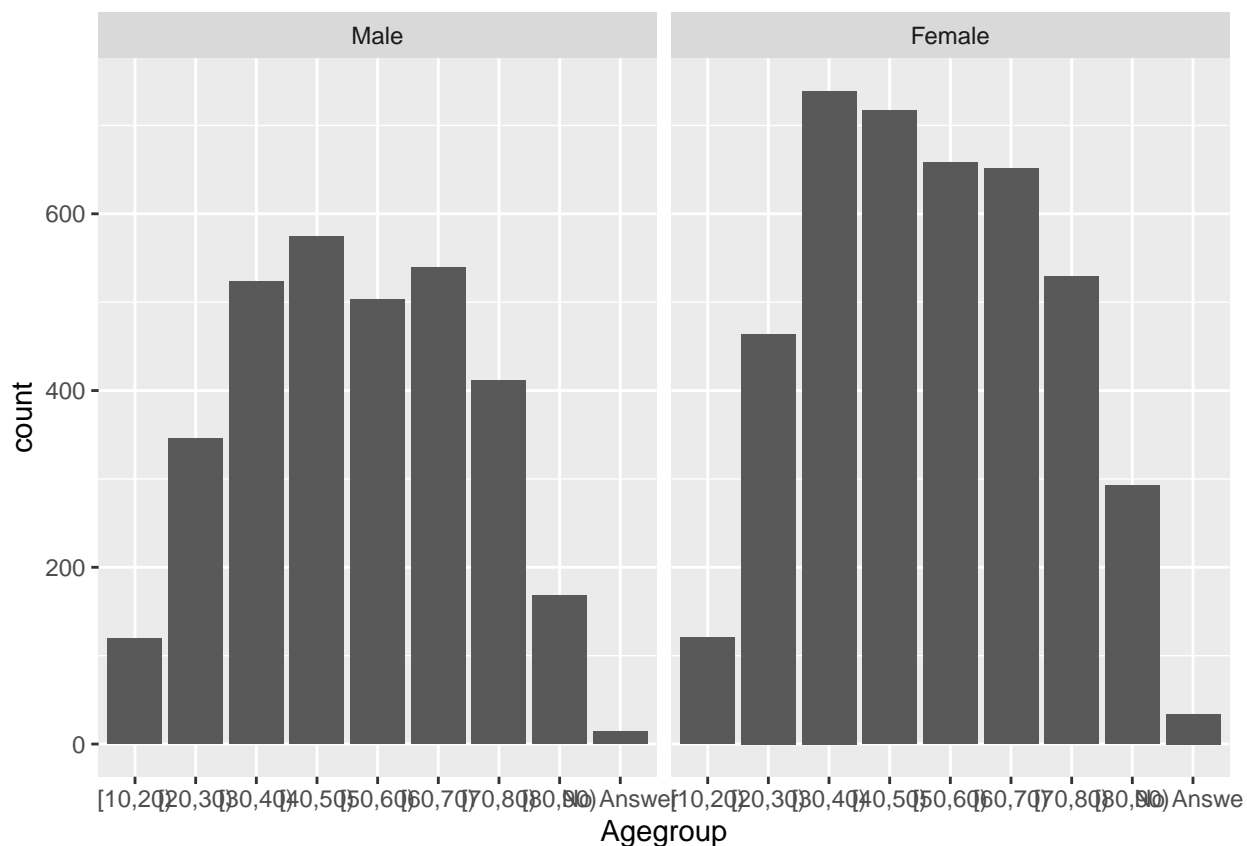
```
#So this table tells us that 43.1% and 56.8% of the sample are
#male and female respectively, which sounds pretty reasonable.

#The next step is to see if any age groups are over or under-represented
#in either of the genders. I'm going to use the package gmodels
#to produce these cross-tables:
```

```
CrossTable(subset_pms07$Agegroup,
            subset_pms07$Sex,prop.r=FALSE,prop.t=FALSE,
            prop.chisq=FALSE)
```

```
##
##
##      Cell Contents
## |-----|
## |                N |
## |      N / Col Total |
## |-----|
##
##
## Total Observations in Table:  7403
##
##
##      | subset_pms07$Sex
## subset_pms07$Agegroup |      Male |      Female | Row Total |
## -----|-----|-----|-----|
##           [10,20) |      119 |      121 |      240 |
##           |      0.037 |      0.029 |           |
## -----|-----|-----|-----|
##           [20,30) |      346 |      464 |      810 |
##           |      0.108 |      0.110 |           |
## -----|-----|-----|-----|
##           [30,40) |      523 |      739 |     1262 |
##           |      0.164 |      0.176 |           |
## -----|-----|-----|-----|
##           [40,50) |      574 |      717 |     1291 |
##           |      0.180 |      0.170 |           |
## -----|-----|-----|-----|
##           [50,60) |      503 |      658 |     1161 |
##           |      0.157 |      0.156 |           |
## -----|-----|-----|-----|
##           [60,70) |      539 |      651 |     1190 |
##           |      0.169 |      0.155 |           |
## -----|-----|-----|-----|
##           [70,80) |      411 |      529 |      940 |
##           |      0.129 |      0.126 |           |
## -----|-----|-----|-----|
##           [80,90) |      168 |      293 |      461 |
##           |      0.053 |      0.070 |           |
## -----|-----|-----|-----|
##           No Answer |      14 |      34 |      48 |
##           |      0.004 |      0.008 |           |
## -----|-----|-----|-----|
##           Column Total |      3197 |      4206 |     7403 |
##           |      0.432 |      0.568 |           |
## -----|-----|-----|-----|
##
##
```

```
# largest group is males in the 40 - 50 age group
# visulisation
library(ggplot2)
ggplot(subset_pms07,aes(x=Agegroup))+
  geom_bar()+
  facet_grid(~Sex)
```

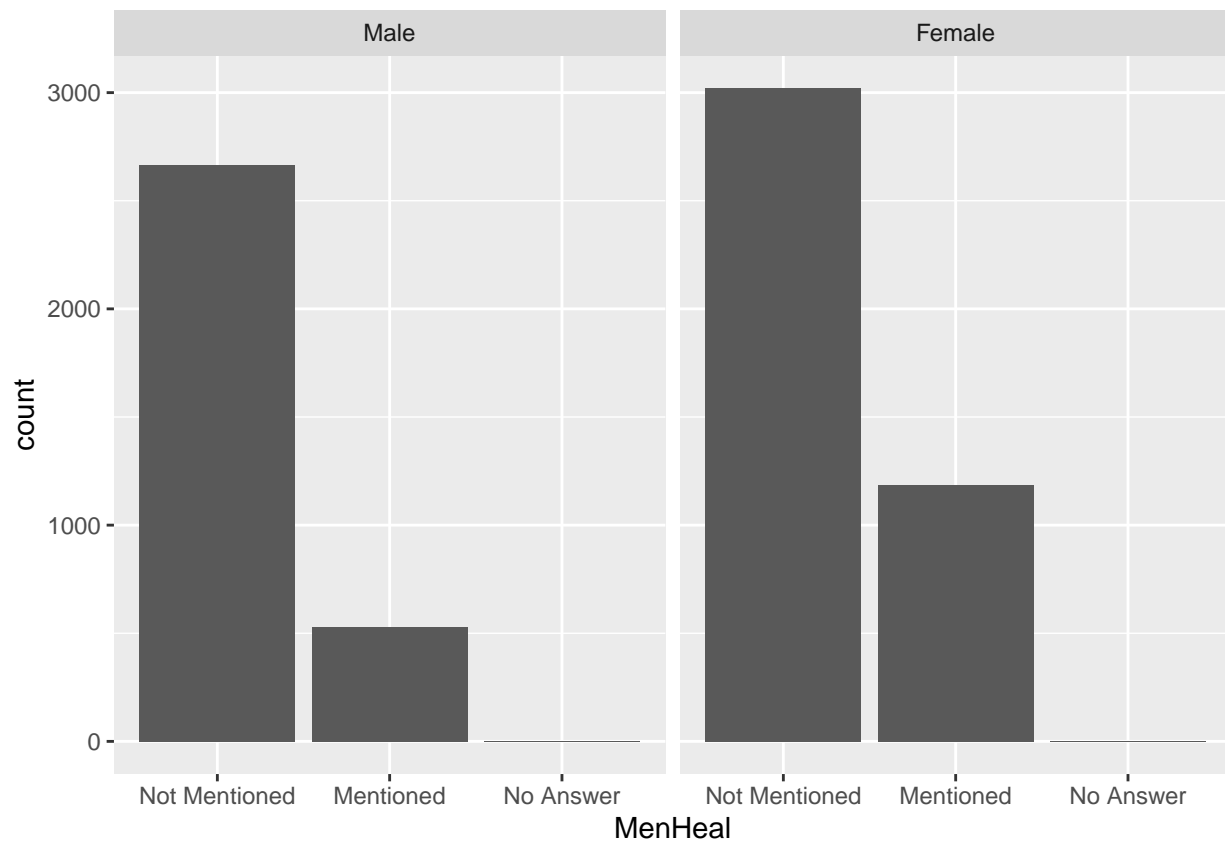


```
# exploring presence of poor mental health across genders.
# would expect to see higher reporting in women,
#but more psychosis diagnosis in men.
CrossTable(subset_pms07$MenHeal,
  subset_pms07$Sex,prop.r=FALSE,prop.t=FALSE,
  prop.chisq=FALSE)
```

```
##
##
##      Cell Contents
## |-----|
## |                      N |
## |          N / Col Total |
## |-----|
##
##
## Total Observations in Table:  7403
##
```

```
##
##           | subset_pms07$Sex
## subset_pms07$MenHeal |      Male |      Female | Row Total |
## -----|-----|-----|-----|
##      Not Mentioned |      2666 |      3020 |      5686 |
##                   |      0.834 |      0.718 |           |
## -----|-----|-----|-----|
##           Mentioned |        529 |       1185 |       1714 |
##                   |      0.165 |      0.282 |           |
## -----|-----|-----|-----|
##      No Answer |          2 |          1 |          3 |
##                   |      0.001 |      0.000 |           |
## -----|-----|-----|-----|
##      Column Total |       3197 |       4206 |       7403 |
##                   |      0.432 |      0.568 |           |
## -----|-----|-----|-----|
##
##
```

```
#
ggplot(subset_pms07, aes(x=MenHeal)) +
  geom_bar() +
  facet_grid(~Sex)
```



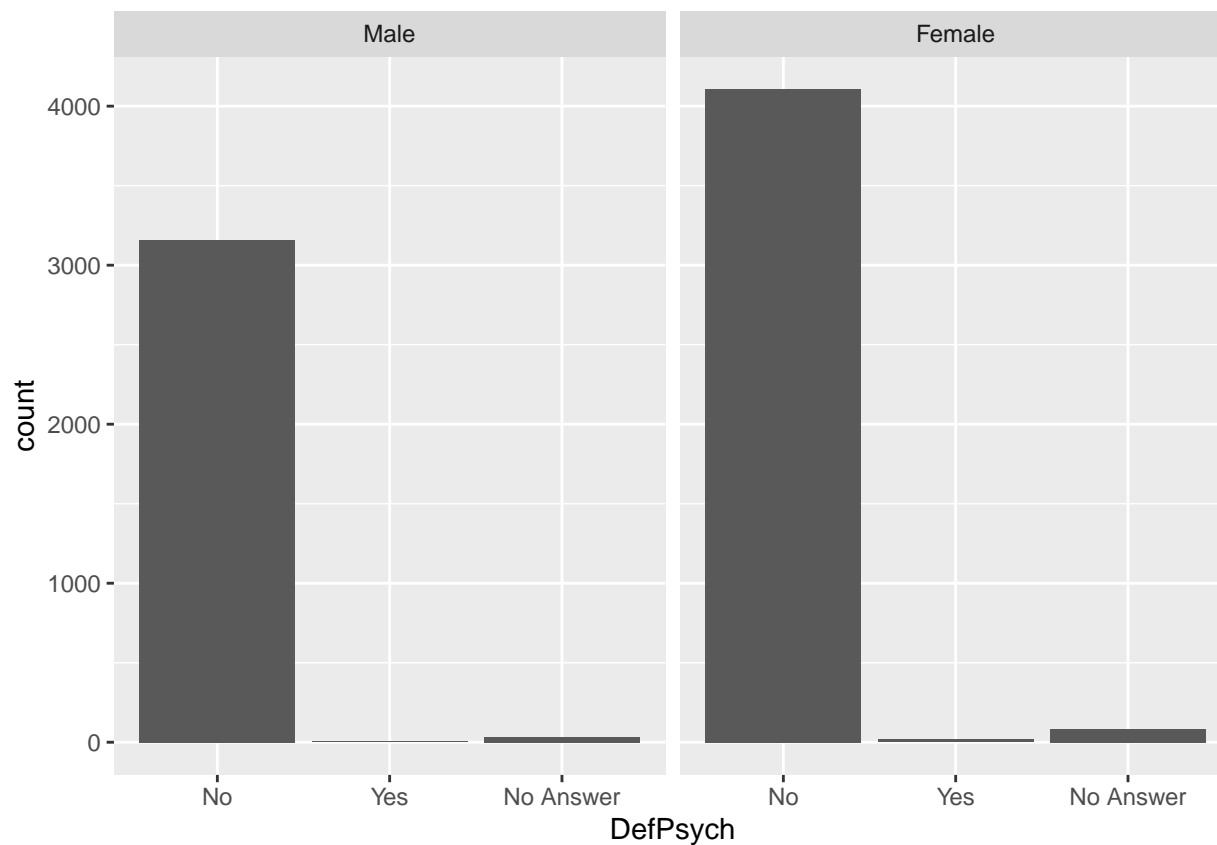
```
# Representation of psychosis in genders
```

```
CrossTable(subset_pms07$DefPsych,
            subset_pms07$Sex,prop.r=FALSE,prop.t=FALSE,
            prop.chisq=FALSE)
```

```
##
##
##      Cell Contents
## |-----|
## |                      N |
## |          N / Col Total |
## |-----|
##
##
## Total Observations in Table:  7403
##
##
##               | subset_pms07$Sex
## subset_pms07$DefPsych |      Male |      Female | Row Total |
## -----|-----|-----|-----|
##               No |      3159 |      4107 |      7266 |
##               |      0.988 |      0.976 |           |
## -----|-----|-----|-----|
##               Yes |         6 |         17 |         23 |
##               |      0.002 |      0.004 |           |
## -----|-----|-----|-----|
##               No Answer |      32 |      82 |      114 |
##               |      0.010 |      0.019 |           |
## -----|-----|-----|-----|
##               Column Total |      3197 |      4206 |      7403 |
##               |      0.432 |      0.568 |           |
## -----|-----|-----|-----|
##
##
```

```
# from this we can see that more females (17, .04%) than
#males (6, .02%) reported an episode of psychosis
#in the past year.
```

```
# visualisation
ggplot(subset_pms07,aes(x=DefPsych))+
  geom_bar()+
  facet_grid(~Sex)
```



```
# exploring employment and mental health
```

```
prop.table(table(subset_pms07$PaidJob))
```

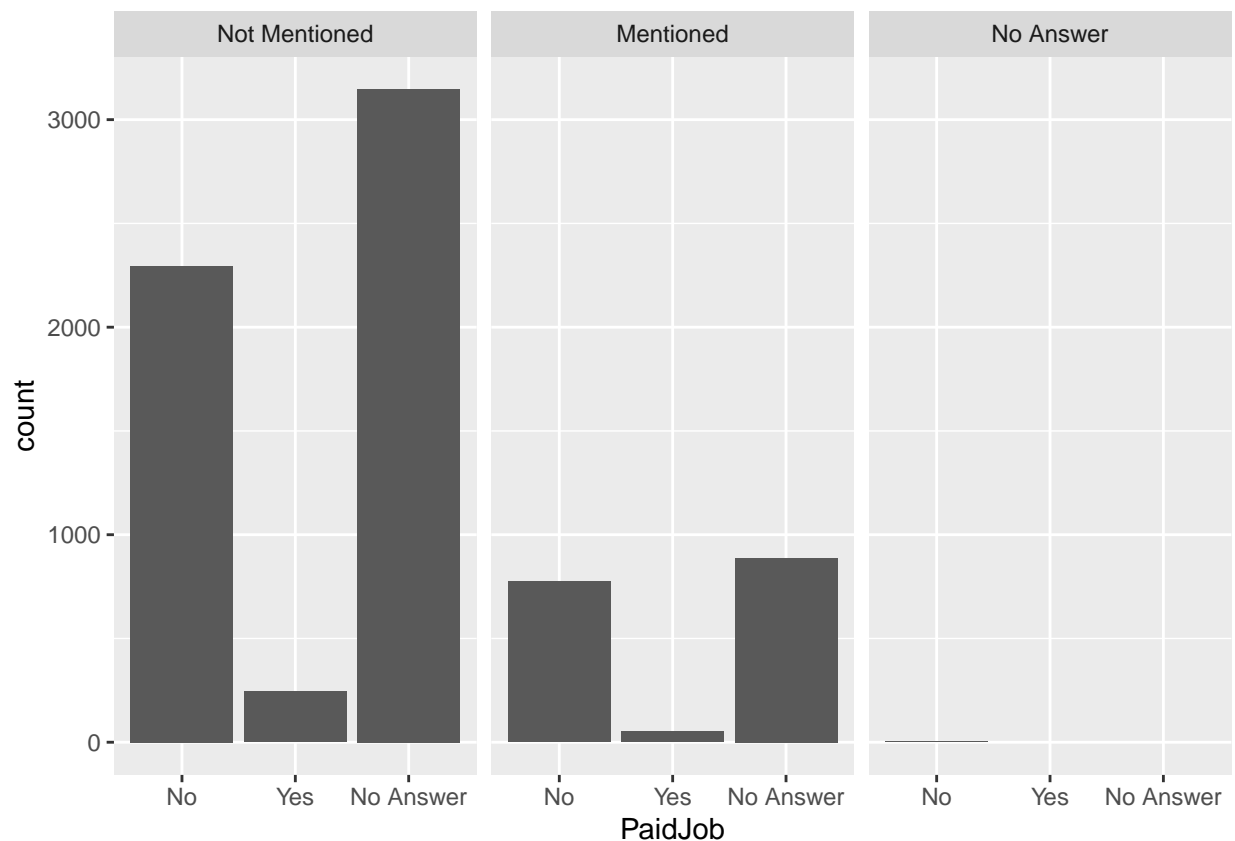
```
##
##      No      Yes  No Answer
## 0.41510199 0.03998379 0.54491422
```

```
prop.table(table(subset_pms07$MenHeal))
```

```
##
## Not Mentioned    Mentioned    No Answer
## 0.7680669999 0.2315277590 0.0004052411
```

```
# from this we can see of those who had a paid job
 #(39.9%), 23.1% mentioned a mental health condition
```

```
# bar chart
ggplot(subset_pms07,aes(x=PaidJob))+
  geom_bar()+
  facet_grid(~MenHeal)
```



2-Way Cross Tabulation

```
CrossTable(subset_pms07$Sex, subset_pms07$MenHeal)
```

```
##
##
##   Cell Contents
## |-----|
## |                N |
## | Chi-square contribution |
## |      N / Row Total |
## |      N / Col Total |
## |      N / Table Total |
## |-----|
##
##
## Total Observations in Table:  7403
##
##
##      | subset_pms07$MenHeal
## subset_pms07$Sex | Not Mentioned |      Mentioned |      No Answer |      Row Total |
## -----|-----|-----|-----|-----|
##      Male |      2666 |      529 |      2 |      3197 |
##      |      18.043 |      60.259 |      0.383 |      |
##      |      0.834 |      0.165 |      0.001 |      0.432 |
##      |      0.469 |      0.309 |      0.667 |      |
##      |      0.360 |      0.071 |      0.000 |      |
```

```
## -----|-----|-----|-----|-----|
##      Female |      3020 |      1185 |      1 |      4206 |
##      |      13.715 |      45.803 |      0.291 |      |
##      |      0.718 |      0.282 |      0.000 |      0.568 |
##      |      0.531 |      0.691 |      0.333 |      |
##      |      0.408 |      0.160 |      0.000 |      |
## -----|-----|-----|-----|-----|
##      Column Total |      5686 |      1714 |      3 |      7403 |
##      |      0.768 |      0.232 |      0.000 |      |
## -----|-----|-----|-----|-----|
##
##
```

```
# 3-Way Frequency Table
# gender by ever having a paid job and mentioned
# having a mental health condition
mytable <- table(subset_pms07$Sex, subset_pms07$PaidJob,
                  subset_pms07$MenHeal)
ftable(mytable)
```

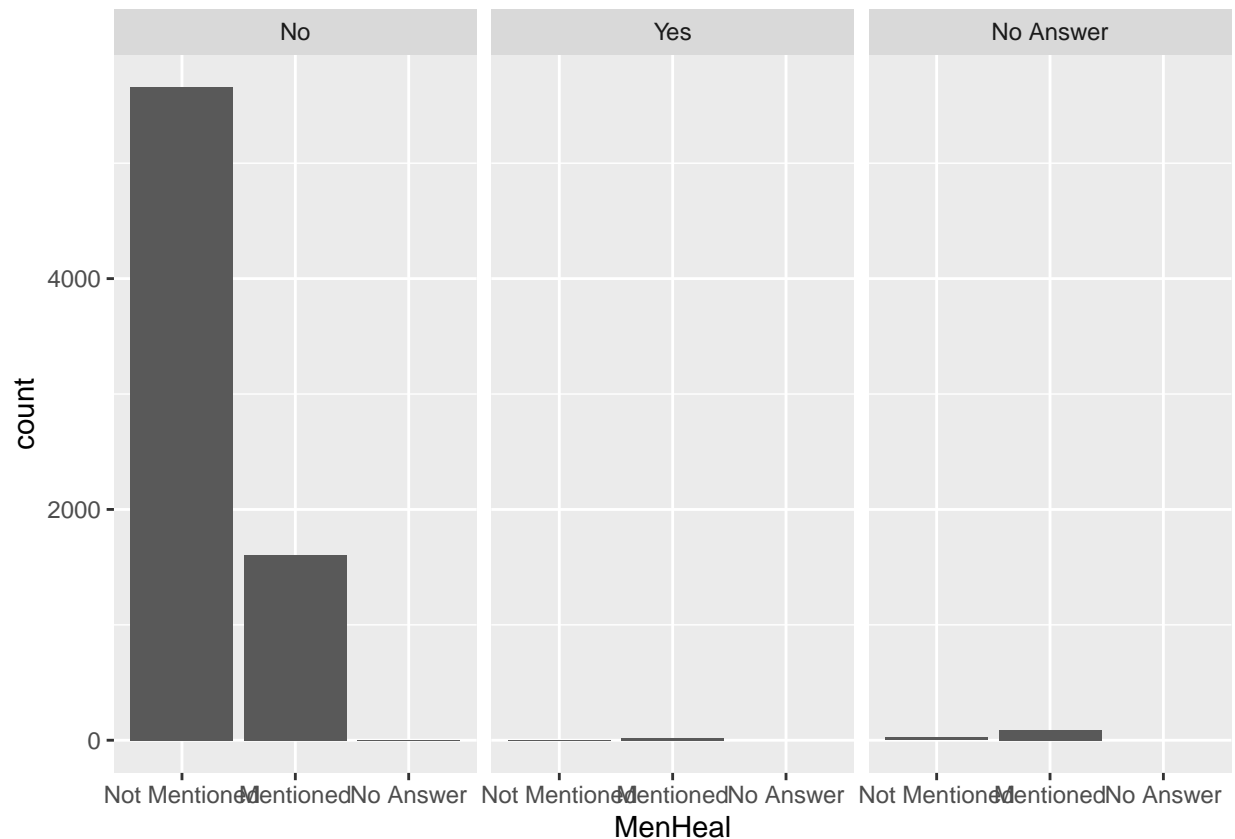
```
##      Not Mentioned Mentioned No Answer
##
## Male   No      915      236      2
##        Yes      85       5      0
##        No Answer 1666     288     0
## Female No     1380     539     1
##        Yes      159      47     0
##        No Answer 1481     599     0
```

```
# from this we can see more females (47) than males (5) in a paid
# job mentioned having a mental health condition.
# More females who were not in a paid job (539) also mentioned
# having a mental health condition than men (236).
```

```
# quick way to pull together row/column
# frequencies and proportions mental health and
# psychosis conditions vars
table(subset_pms07$MenHeal, subset_pms07$DefPsych)
```

```
##
##      No   Yes No Answer
## Not Mentioned 5659    2    25
## Mentioned    1604   21    89
## No Answer      3    0     0
```

```
#
ggplot(subset_pms07, aes(x=MenHeal))+
  geom_bar()+
  facet_grid(~DefPsych)
```

```
# tests of independence
# chi
# E.g. Test the null hypothesis whether the respondents paid job
# status is independent of their psychosis dx at .05
# significance level.
chisq.test(subset_pms07$PaidJob, subset_pms07$DefPsych)
```

```
## Warning in chisq.test(subset_pms07$PaidJob, subset_pms07$DefPsych): Chi-squared
## approximation may be incorrect
```

```
##
## Pearson's Chi-squared test
##
## data: subset_pms07$PaidJob and subset_pms07$DefPsych
## X-squared = 47.392, df = 4, p-value = 1.263e-09
```

```
# As the p-value 1.263 is greater than the .05 significance
# level, we do not reject the null hypothesis that
# the respondents paid job status is independent of
# their psychosis diagnosis.
```

```
# correlations
```

```
# t-tests
```

```
# regressions  
  
#library(synthpop)  
#Describes features of variables in a data frame  
#relevant for synthesis  
#codebook.syn(subset_pms07)
```