# 2019.11.21\_18Q04\_K01

## JAD

8/31/2019

 $\# \mbox{PREPARE}$  Prepare RS<br/>tudio and the data

##Load Libraries

### Load the libraries needed for this session.
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.6.1

## -- Attaching packages ----- tidyverse 1.2.1 --

##	v	ggplot2	3.2.1	v	purrr	0.3.2
##	v	tibble	2.1.3	v	dplyr	0.8.3
##	v	tidyr	1.0.0	v	stringr	1.4.0
##	v	readr	1.3.1	v	forcats	0.4.0

## Warning: package 'ggplot2' was built under R version 3.6.1

## Warning: package 'tibble' was built under R version 3.6.1

## Warning: package 'tidyr' was built under R version 3.6.1

## Warning: package 'dplyr' was built under R version 3.6.1

## -- Conflicts ------ tidyverse\_conflicts() -## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()

## library(here)

## here() starts at C:/Users/aldio/Google Drive/AD Scholarship \_ Research/DATA ANALYSIS/18Q04 K01/18Q04 K01

library(dplyr)
library(readr)
library(naniar) #Replace with NA

## Warning: package 'naniar' was built under R version 3.6.1

library(arsenal)

## Warning: package 'arsenal' was built under R version 3.6.1

library(coin)

## Warning: package 'coin' was built under R version 3.6.1

## Loading required package: survival

## Warning: package 'survival' was built under R version 3.6.1

```
library(knitr)
opts_chunk$set(tidy.opts = list(width.cutoff = 60), tidy = TRUE)
```

##Load the Data

## ###

Q1804dta <- read\_csv(here("Data", "18Q04 K01 1234Data Comb.csv"))</pre>

```
## Parsed with column specification:
## cols(
## .default = col_double(),
## ADz_SurvNum = col_character(),
```

```
ADz IntvrName = col character(),
##
     ADz SurvDate = col character(),
##
     ADz SurvTmStrt = col character(),
##
     ADz SurvTmEnd = col character(),
##
##
     ADz PartcName = col logical(),
     ADz_PartcNum = col_character(),
##
     SDz AgeCat = col logical(),
##
     SDz_Ethnicity = col_logical(),
##
     SDz EthnicityOthr = col logical(),
##
##
     SDz_EthnicityAll = col_logical(),
##
     SDz_LangPref = col_character(),
##
     SDz_LangPrefAll = col_logical(),
##
     BAF_CarePay = col_character(),
     BAF_CarePayOthr = col_character(),
##
##
    BAF_CarePayAll = col_logical(),
    BAF_CareCost = col_character(),
##
    HSz_DecTrust = col_character(),
##
##
    HSz_Dist = col_character(),
    HSz ProvTyp = col character()
##
    # ... with 19 more columns
##
## )
```

## See spec(...) for full column specifications.

#DATA CLEANING
##Omit all N/A
Q1804dta <- Q1804dta %>%
 replace\_with\_na\_all(condition = ~.x == 99) %>% #Must load library (naniar)
 replace\_with\_na\_all(condition = ~.x == 88)

#na.omit(Q1804dta)

##Combine columns of categorical data to make multi-select questions complete

Combine SDLangPref and SDLangPrefOthr into new variable SDLangPrefAll and tally. Create a new variable with the combined categorical data from two columns that are each multichoice Use the function to tally the categorical data Call the function with the new variable. https://stackoverflow.com/questions/49913014/r-mutate-working-with-paste0 https://stackoverflow.cbom/questions/45696738/ tallying-multiple-choice-entries-in-a-single-column-in-a-r-dataframe-programmati Combine 2 Columns of Categorical Data. This incorporates the qualitative responses that were quantified into the existing quantified response list.

```
# SDz LangPrefAll MUTATE COMBINE Populates SDz LangPrefAll
# with combined Categorical Data of SDz LangPref &
# SDz LangPrefOthr
Q1804dta <- Q1804dta %>% mutate(SDz LangPrefAll = paste(SDz LangPref,
    SDz LangPrefOthr)) %>% select(-c(SDz LangPref, SDz LangPrefOthr))
# Populates BAF CarePayAll with combined Categorical Data of
# BAF CarePay & BAF CarePayOthr
Q1804dta <- Q1804dta %>% mutate(BAF CarePayAll = paste(BAF CarePay,
    BAF_CarePayOthr)) %>% select(-c(BAF_CarePay, BAF_CarePayOthr))
# Populates HSz_ProvTypAll with combined Categorical Data of
# HSz_ProvTyp & HSz_ProvTypOthr
Q1804dta <- Q1804dta <mark>%>% mutate(HSz_ProvTypAll = paste(HSz_ProvTyp</mark>,
    HSz ProvTypOthr)) %>% select(-c(HSz ProvTyp, HSz ProvTypOthr))
# Populates HSz_ServLangAll with combined Categorical Data of
# HSz_ServLang & HSz_ServLangOthr
Q1804dta <- Q1804dta %>% mutate(HSz ServLangAll = paste(HSz ServLang,
    HSz_ServLangOthr)) %>% select(-c(HSz_ServLang, HSz_ServLangOthr))
# Populates HSz LangInterpAll with combined Categorical Data
# of HSz LangInterp & HSz LangInterpOthr
Q1804dta <- Q1804dta %>% mutate(HSz LangInterpAll = paste(HSz LangInterp,
    HSz LangInterpOthr)) %>% select(-c(HSz LangInterp, HSz LangInterpOthr))
# Populates DSz_BsisAll with combined Categorical Data of
# DSz_Bsis & DSz_BsisOthr
Q1804dta <- Q1804dta <- % mutate(DSz_BsisAll = paste(DSz_Bsis,
   DSz_BsisOthr)) %>% select(-c(DSz_Bsis, DSz_BsisOthr))
# Populates EXz_ScrnWhyAll with combined Categorical Data of
# EXz_ScrnWhy & EXz_ScrnWhyOthr
Q1804dta <- Q1804dta %>% mutate(EXz ScrnWhyAll = paste(EXz ScrnWhy,
    EXz ScrnWhyOthr)) %>% select(-c(EXz ScrnWhy, EXz ScrnWhyOthr))
# Populates GNz WHCDecisAll with combined Categorical Data of
```

#### # GNz\_WHCDecis & GNz\_WHCDecisOthr

Q1804dta <- Q1804dta %>% mutate(GNz\_WHCDecisAll = paste(GNz\_WHCDecis, GNz\_WHCDecisOthr)) %>% select(-c(GNz\_WHCDecis, GNz\_WHCDecisOthr))

##Create a new table for each multi-select variable. Use separate\_rows to pull out each response Use pivot\_wider to expand the table so that each variable has its own column. These will be combined with the master dataset subsequently.

```
LangPref <- Q1804dta %>% select(ADz_PartcNum, SDz_LangPrefAll) %>%
    separate_rows(SDz_LangPrefAll) %>% mutate(LangPref_Checked = TRUE) %>%
    mutate(SDz_LangPrefAll = case_when(SDz_LangPrefAll == 1 ~
        "SDz LangPrefAll 01", SDz LangPrefAll == 2 ~ "SDz LangPrefAll 02",
       SDz_LangPrefAll == 3 ~ "SDz_LangPrefAll_03", SDz_LangPrefAll ==
           4 ~ "SDz_LangPrefAll_04", SDz_LangPrefAll == 5 ~
            "SDz_LangPrefAll_05", SDz_LangPrefAll == 6 ~ "SDz_LangPrefAll_06",
       SDz_LangPrefAll == 7 ~ "SDz_LangPrefAll_07", SDz_LangPrefAll ==
            8 ~ "SDz_LangPrefAll_08", SDz_LangPrefAll == 9 ~
            "SDz LangPrefAll 09", SDz LangPrefAll == 10 ~ "SDz LangPrefAll 10",
        SDz_LangPrefAll == 11 ~ "SDz_LangPrefAll_11", SDz_LangPrefAll ==
            12 ~ "SDz LangPrefAll 12", SDz LangPrefAll == 13 ~
            "SDz LangPrefAll 13", SDz LangPrefAll == 14 ~ "SDz LangPrefAll 14",
        SDz LangPrefAll == 15 ~ "SDz LangPrefAll 15", SDz LangPrefAll ==
            16 ~ "SDz LangPrefAll 16", SDz LangPrefAll == 17 ~
            "SDz LangPrefAll 17", SDz LangPrefAll == 18 ~ "SDz LangPrefAll 18",
        SDz LangPrefAll == 19 ~ "SDz LangPrefAll 19", SDz LangPrefAll ==
            20 ~ "SDz_LangPrefAll_20")) %>% pivot_wider(id_cols = ADz_PartcNum,
    names_from = SDz_LangPrefAll, values_from = LangPref_Checked,
    values_fill = list(LangPref_Checked = FALSE)) %>% select(-c("NA"))
```

```
ServLang <- Q1804dta %>% select(ADz_PartcNum, HSz_ServLangAll) %>%
separate_rows(HSz_ServLangAll) %>% mutate(ServLang_Checked = TRUE) %>%
mutate(HSz_ServLangAll = case_when(HSz_ServLangAll == 1 ~
    "HSz_ServLangAll_01", HSz_ServLangAll == 2 ~ "HSz_ServLangAll_02",
    HSz_ServLangAll == 3 ~ "HSz_ServLangAll_03", HSz_ServLangAll_02",
    HSz_ServLangAll == 3 ~ "HSz_ServLangAll_03", HSz_ServLangAll ==
    4 ~ "HSz_ServLangAll_04", HSz_ServLangAll == 5 ~
    "HSz_ServLangAll_05", HSz_ServLangAll == 6 ~ "HSz_ServLangAll_06",
    HSz_ServLangAll == 7 ~ "HSz_ServLangAll_07", HSz_ServLangAll ==
    8 ~ "HSz_ServLangAll_08", HSz_ServLangAll == 9 ~
    "HSz_ServLangAll_09", HSz_ServLangAll == 10 ~ "HSz_ServLangAll_10",
```

```
HSz_ServLangAll == 11 ~ "HSz_ServLangAll_11", HSz_ServLangAll ==
12 ~ "HSz_ServLangAll_12", HSz_ServLangAll == 13 ~
"HSz_ServLangAll_13", HSz_ServLangAll == 14 ~ "HSz_ServLangAll_14",
HSz_ServLangAll == 15 ~ "HSz_ServLangAll_15", HSz_ServLangAll ==
16 ~ "HSz_ServLangAll_16", HSz_ServLangAll == 17 ~
"HSz_ServLangAll_17", HSz_ServLangAll == 18 ~ "HSz_ServLangAll_18",
HSz_ServLangAll == 19 ~ "HSz_ServLangAll == 18 ~ "HSz_ServLangAll_18",
HSz_ServLangAll == 19 ~ "HSz_ServLangAll_19", HSz_ServLangAll ==
20 ~ "HSz_ServLangAll_20", HSz_ServLangAll == 88 ~
"88")) %>% na.omit() %>% pivot_wider(id_cols = ADz_PartcNum,
names_from = HSz_ServLangAll, values_from = ServLang_Checked,
values_fill = list(ServLang_Checked = FALSE)) %>% select(-c("88"))
```

```
LangInterp <- Q1804dta %>% select(ADz_PartcNum, HSz_LangInterpAll) %>%
    separate_rows(HSz_LangInterpAll) %>% mutate(LangInterp_Checked = TRUE) %>%
    mutate(HSz_LangInterpAll = case_when(HSz_LangInterpAll ==
        1 ~ "HSz_LangInterpAll_01", HSz_LangInterpAll == 2 ~
        "HSz_LangInterpAll_02", HSz_LangInterpAll == 3 ~ "HSz_LangInterpAll_03",
        HSz_LangInterpAll == 4 ~ "HSz_LangInterpAll_04", HSz_LangInterpAll ==
            5 ~ "HSz_LangInterpAll_05", HSz_LangInterpAll ==
            6 ~ "HSz_LangInterpAll_06", HSz_LangInterpAll ==
            7 ~ "HSz LangInterpAll 07", HSz LangInterpAll ==
            8 ~ "HSz LangInterpAll 08", HSz LangInterpAll ==
            9 ~ "HSz_LangInterpAll_09", HSz_LangInterpAll ==
            10 ~ "HSz LangInterpAll 10", HSz LangInterpAll ==
            11 ~ "HSz LangInterpAll 11", HSz LangInterpAll ==
            12 ~ "HSz_LangInterpAll_12", HSz_LangInterpAll ==
            13 ~ "HSz LangInterpAll 13", HSz LangInterpAll ==
            14 ~ "HSz_LangInterpAll_14", HSz_LangInterpAll ==
            15 ~ "HSz_LangInterpAll_15", HSz_LangInterpAll ==
            16 ~ "HSz_LangInterpAll_16", HSz_LangInterpAll ==
            17 ~ "HSz_LangInterpAll_17", HSz_LangInterpAll ==
            18 ~ "HSz_LangInterpAll_18", HSz_LangInterpAll ==
            19 ~ "HSz_LangInterpAll_19", HSz_LangInterpAll ==
            20 ~ "HSz_LangInterpAll_20", HSz_LangInterpAll ==
            88 ~ "88", HSz LangInterpAll == 99 ~ "99")) %>% na.omit() %>%
    pivot_wider(id_cols = ADz_PartcNum, names_from = HSz_LangInterpAll,
        values from = LangInterp Checked, values fill = list(LangInterp Checked = FALSE)) %>%
    select(-c("88"))
```

```
CarePay <- Q1804dta %>% select(ADz_PartcNum, BAF_CarePayAll) %>%
    separate rows(BAF CarePayAll) %>% mutate(CarePay Checked = TRUE) %>%
    mutate(BAF_CarePayAll = case_when(BAF_CarePayAll == 1 ~ "BAF_CarePayAll_01",
        BAF_CarePayAll == 2 ~ "BAF_CarePayAll_02", BAF_CarePayAll ==
            3 ~ "BAF_CarePayAll_03", BAF_CarePayAll == 4 ~ "BAF_CarePayAll_04",
        BAF CarePayAll == 5 ~ "BAF CarePayAll 05", BAF CarePayAll ==
            6 ~ "BAF_CarePayAll_06", BAF_CarePayAll == 7 ~ "BAF_CarePayAll_07",
        BAF CarePayAll == 8 ~ "BAF CarePayAll 08", BAF CarePayAll ==
            9 ~ "BAF_CarePayAll_09", BAF_CarePayAll == 10 ~ "BAF_CarePayAll_10",
       BAF CarePayAll == 11 ~ "BAF CarePayAll 11", BAF CarePayAll ==
            12 ~ "BAF_CarePayAll_12", BAF_CarePayAll == 13 ~
            "BAF CarePayAll 13", BAF CarePayAll == 14 ~ "BAF CarePayAll 14",
        BAF_CarePayAll == 15 ~ "BAF_CarePayAll_15", BAF_CarePayAll ==
            16 ~ "BAF_CarePayAll_16", BAF_CarePayAll == 17 ~
            "BAF_CarePayAll_17", BAF_CarePayAll == 18 ~ "BAF_CarePayAll_18",
       BAF CarePayAll == 19 ~ "BAF CarePayAll 19", BAF CarePayAll ==
            20 ~ "BAF_CarePayAll_20", BAF_CarePayAll == 88 ~
            "88")) %>% na.omit() %>% pivot_wider(id_cols = ADz_PartcNum,
    names_from = BAF_CarePayAll, values_from = CarePay_Checked,
    values_fill = list(CarePay_Checked = FALSE)) %>% select(-c("88"))
```

```
ProvTyp <- Q1804dta %>% select(ADz_PartcNum, HSz_ProvTypAll) %>%
    separate rows(HSz ProvTypAll) %>% mutate(ProvTyp Checked = TRUE) %>%
    mutate(HSz ProvTypAll = case when(HSz ProvTypAll == 1 ~ "HSz ProvTypAll 01",
       HSz ProvTypAll == 2 ~ "HSz ProvTypAll 02", HSz ProvTypAll ==
            3 ~ "HSz_ProvTypAll_03", HSz_ProvTypAll == 4 ~ "HSz_ProvTypAll_04",
       HSz ProvTypAll == 5 ~ "HSz ProvTypAll 05", HSz ProvTypAll ==
            6 ~ "HSz ProvTypAll 06", HSz ProvTypAll == 7 ~ "HSz ProvTypAll 07",
       HSz_ProvTypAll == 8 ~ "HSz_ProvTypAll_08", HSz_ProvTypAll ==
            9 ~ "HSz_ProvTypAll_09", HSz_ProvTypAll == 10 ~ "HSz_ProvTypAll_10",
       HSz_ProvTypAll == 11 ~ "HSz_ProvTypAll_11", HSz_ProvTypAll ==
            12 ~ "HSz_ProvTypAll_12", HSz_ProvTypAll == 13 ~
            "HSz_ProvTypAll_13", HSz_ProvTypAll == 14 ~ "HSz_ProvTypAll 14",
       HSz_ProvTypAll == 15 ~ "HSz_ProvTypAll_15", HSz_ProvTypAll ==
            16 ~ "HSz_ProvTypAll_16", HSz_ProvTypAll == 17 ~
            "HSz_ProvTypAll_17", HSz_ProvTypAll == 18 ~ "HSz_ProvTypAll_18",
        HSz_ProvTypAll == 19 ~ "HSz_ProvTypAll_19", HSz_ProvTypAll ==
            20 ~ "HSz_ProvTypAll_20")) %>% na.omit() %>% pivot_wider(id_cols = ADz_PartcNum,
```

```
names_from = HSz_ProvTypAll, values_from = ProvTyp_Checked,
   values_fill = list(ProvTyp_Checked = FALSE))
Bsis <- Q1804dta %>% select(ADz PartcNum, DSz BsisAll) %>% separate rows(DSz BsisAll) %>%
    mutate(Bsis Checked = TRUE) %>% mutate(DSz BsisAll = case when(DSz BsisAll ==
    1 ~ "DSz BsisAll 01", DSz BsisAll == 2 ~ "DSz BsisAll 02",
    DSz_BsisAll == 3 ~ "DSz_BsisAll_03", DSz_BsisAll == 4 ~ "DSz_BsisAll_04",
    DSz BsisAll == 5 ~ "DSz BsisAll 05", DSz BsisAll == 6 ~ "DSz BsisAll 06",
    DSz_BsisAll == 7 ~ "DSz_BsisAll_07", DSz_BsisAll == 8 ~ "DSz_BsisAll_08",
   DSz_BsisAll == 9 ~ "DSz_BsisAll_09", DSz_BsisAll == 10 ~
        "DSz_BsisAll_10", DSz_BsisAll == 11 ~ "DSz_BsisAll_11",
    DSz_BsisAll == 12 ~ "DSz_BsisAll_12", DSz_BsisAll == 13 ~
        "DSz_BsisAll_13", DSz_BsisAll == 14 ~ "DSz_BsisAll_14",
   DSz_BsisAll == 15 ~ "DSz_BsisAll_15", DSz_BsisAll == 16 ~
        "DSz_BsisAll_16", DSz_BsisAll == 17 ~ "DSz_BsisAll_17",
   DSz_BsisAll == 18 ~ "DSz_BsisAll_18", DSz_BsisAll == 19 ~
        "DSz_BsisAll_19", DSz_BsisAll == 20 ~ "DSz_BsisAll_20",
    DSz BsisAll == 88 ~ "88", DSz BsisAll == 99 ~ "99")) %>%
    na.omit() %>% pivot_wider(id_cols = ADz_PartcNum, names_from = DSz_BsisAll,
    values from = Bsis Checked, values fill = list(Bsis Checked = FALSE)) %>%
    select(-c("88"))
```

```
ScrnWhy <- Q1804dta %>% select(ADz_PartcNum, EXz_ScrnWhyAll) %>%
    separate rows(EXz ScrnWhyAll) %>% mutate(ScrnWhy Checked = TRUE) %>%
    mutate(EXz ScrnWhyAll = case when(EXz ScrnWhyAll == 1 ~ "EXz ScrnWhyAll 01",
       EXz ScrnWhyAll == 2 ~ "EXz ScrnWhyAll 02", EXz ScrnWhyAll ==
            3 ~ "EXz_ScrnWhyAll_03", EXz_ScrnWhyAll == 4 ~ "EXz_ScrnWhyAll_04",
        EXz_ScrnWhyAll == 5 ~ "EXz_ScrnWhyAll_05", EXz_ScrnWhyAll ==
            6 ~ "EXz_ScrnWhyAll_06", EXz_ScrnWhyAll == 7 ~ "EXz_ScrnWhyAll_07",
        EXz_ScrnWhyAll == 8 ~ "EXz_ScrnWhyAll_08", EXz_ScrnWhyAll ==
            9 ~ "EXz_ScrnWhyAll_09", EXz_ScrnWhyAll == 10 ~ "EXz_ScrnWhyAll_10",
        EXz_ScrnWhyAll == 11 ~ "EXz_ScrnWhyAll_11", EXz_ScrnWhyAll ==
            12 ~ "EXz_ScrnWhyAll_12", EXz_ScrnWhyAll == 13 ~
            "EXz_ScrnWhyAll_13", EXz_ScrnWhyAll == 14 ~ "EXz_ScrnWhyAll_14",
       EXz_ScrnWhyAll == 15 ~ "EXz_ScrnWhyAll_15", EXz_ScrnWhyAll ==
            16 ~ "EXz ScrnWhyAll 16", EXz ScrnWhyAll == 17 ~
            "EXz_ScrnWhyAll_17", EXz_ScrnWhyAll == 18 ~ "EXz_ScrnWhyAll_18",
       EXz ScrnWhyAll == 19 ~ "EXz ScrnWhyAll 19", EXz ScrnWhyAll ==
```

20 ~ "EXz\_ScrnWhyAll\_20")) %>% na.omit() %>% pivot\_wider(id\_cols = ADz\_PartcNum, names\_from = EXz\_ScrnWhyAll, values\_from = ScrnWhy\_Checked, values\_fill = list(ScrnWhy\_Checked = FALSE))

```
WHCDecis <- Q1804dta %>% select(ADz_PartcNum, GNz_WHCDecisAll) %>%
   separate_rows(GNz_WHCDecisAll) %>% mutate(WHCDecis_Checked = TRUE) %>%
   mutate(GNz WHCDecisAll = case_when(GNz_WHCDecisAll == 1 ~
        "GNz WHCDecisAll 01", GNz WHCDecisAll == 2 ~ "GNz WHCDecisAll 02",
       GNz WHCDecisAll == 3 ~ "GNz WHCDecisAll 03", GNz WHCDecisAll ==
            4 ~ "GNz_WHCDecisAll_04", GNz_WHCDecisAll == 5 ~
            "GNz WHCDecisAll 05", GNz WHCDecisAll == 6 ~ "GNz WHCDecisAll 06",
       GNz_WHCDecisAll == 7 ~ "GNz_WHCDecisAll_07", GNz_WHCDecisAll ==
            8 ~ "GNz WHCDecisAll 08", GNz WHCDecisAll == 9 ~
            "GNz WHCDecisAll 09", GNz WHCDecisAll == 10 ~ "GNz WHCDecisAll 10",
       GNz WHCDecisAll == 11 ~ "GNz WHCDecisAll 11", GNz WHCDecisAll ==
            12 ~ "GNz_WHCDecisAll_12", GNz_WHCDecisAll == 13 ~
            "GNz_WHCDecisAll_13", GNz_WHCDecisAll == 14 ~ "GNz_WHCDecisAll_14",
       GNz_WHCDecisAll == 15 ~ "GNz_WHCDecisAll_15", GNz_WHCDecisAll ==
            16 ~ "GNz_WHCDecisAll_16", GNz_WHCDecisAll == 17 ~
            "GNz_WHCDecisAll_17", GNz_WHCDecisAll == 18 ~ "GNz_WHCDecisAll_18",
       GNz_WHCDecisAll == 19 ~ "GNz_WHCDecisAll_19", GNz_WHCDecisAll ==
            20 ~ "GNz_WHCDecisAll_20", GNz_WHCDecisAll == 88 ~
            "88", GNz WHCDecisAll == 99 ~ "99")) %>% na.omit() %>%
   pivot_wider(id_cols = ADz_PartcNum, names_from = GNz_WHCDecisAll,
       values from = WHCDecis Checked, values fill = list(WHCDecis Checked = FALSE))
```

```
15 ~ "HSz_DecTrust_15", HSz_DecTrust == 16 ~ "HSz_DecTrust_16",
HSz_DecTrust == 17 ~ "HSz_DecTrust_17", HSz_DecTrust ==
18 ~ "HSz_DecTrust_18", HSz_DecTrust == 19 ~ "HSz_DecTrust_19",
HSz_DecTrust == 20 ~ "HSz_DecTrust_20")) %>% pivot_wider(id_cols = ADz_PartcNum,
names_from = HSz_DecTrust, values_from = DecTrust_Checked,
values fill = list(DecTrust Checked = FALSE))
```

```
InfluenceWho <- Q1804dta %>% select(ADz PartcNum, OPz InfluenceWho) %>%
    separate rows(OPz InfluenceWho) %>% mutate(InfluenceWho Checked = TRUE) %>%
    mutate(OPz InfluenceWho = case when(OPz InfluenceWho == 1 ~
        "OPz_InfluenceWho_01", OPz_InfluenceWho == 2 ~ "OPz_InfluenceWho_02",
        OPz InfluenceWho == 3 ~ "OPz InfluenceWho 03", OPz InfluenceWho ==
            4 ~ "OPz InfluenceWho 04", OPz InfluenceWho == 5 ~
            "OPz InfluenceWho 05", OPz InfluenceWho == 6 ~ "OPz InfluenceWho 06",
        OPz InfluenceWho == 7 ~ "OPz_InfluenceWho_07", OPz_InfluenceWho ==
            8 ~ "OPz_InfluenceWho_08", OPz_InfluenceWho == 9 ~
            "OPz_InfluenceWho_09", OPz_InfluenceWho == 10 ~ "OPz_InfluenceWho_10",
        OPz_InfluenceWho == 11 ~ "OPz_InfluenceWho_11", OPz_InfluenceWho ==
            12 ~ "OPz_InfluenceWho_12", OPz_InfluenceWho == 13 ~
            "OPz InfluenceWho 13", OPz InfluenceWho == 14 ~ "OPz InfluenceWho 14",
        OPz_InfluenceWho == 15 ~ "OPz_InfluenceWho_15", OPz_InfluenceWho ==
            16 ~ "OPz_InfluenceWho_16", OPz_InfluenceWho == 17 ~
            "OPz_InfluenceWho_17", OPz_InfluenceWho == 18 ~ "OPz_InfluenceWho_18",
        OPz_InfluenceWho == 19 ~ "OPz_InfluenceWho_19", OPz_InfluenceWho ==
            20 ~ "OPz_InfluenceWho_20")) %>% pivot_wider(id_cols = ADz_PartcNum,
    names from = OPz InfluenceWho, values from = InfluenceWho Checked,
    values fill = list(InfluenceWho Checked = FALSE)) %>% select(-c("NA"))
```

```
12 ~ "EXz_NoScrnRsn_12", EXz_NoScrnRsn == 13 ~ "EXz_NoScrnRsn_13",
EXz_NoScrnRsn == 14 ~ "EXz_NoScrnRsn_14", EXz_NoScrnRsn ==
15 ~ "EXz_NoScrnRsn_15", EXz_NoScrnRsn == 16 ~ "EXz_NoScrnRsn_16",
EXz_NoScrnRsn == 17 ~ "EXz_NoScrnRsn_17", EXz_NoScrnRsn ==
18 ~ "EXz_NoScrnRsn_18", EXz_NoScrnRsn == 19 ~ "EXz_NoScrnRsn_19",
EXz_NoScrnRsn == 20 ~ "EXz_NoScrnRsn_20", EXz_NoScrnRsn ==
NA ~ "NA")) %>% pivot_wider(id_cols = ADz_PartcNum,
names_from = EXz_NoScrnRsn, values_from = NoScrnRsn_Checked,
values_fill = list(NoScrnRsn_Checked = FALSE)) %>% select(-c("NA"))
```

```
TreatNOWhy <- Q1804dta %>% select(ADz_PartcNum, EXz_TreatNOWhy) %>%
    separate_rows(EXz_TreatNOWhy) %>% mutate(TreatNOWhy_Checked = TRUE) %>%
    mutate(EXz_TreatNOWhy = case_when(EXz_TreatNOWhy == 1 ~ "EXz_TreatNOWhy_01",
        EXz TreatNOWhy == 2 ~ "EXz_TreatNOWhy_02", EXz_TreatNOWhy ==
            3 ~ "EXz TreatNOWhy 03", EXz TreatNOWhy == 4 ~ "EXz TreatNOWhy 04",
        EXz_TreatNOWhy == 5 ~ "EXz_TreatNOWhy_05", EXz_TreatNOWhy ==
            6 ~ "EXz TreatNOWhy 06", EXz TreatNOWhy == 7 ~ "EXz TreatNOWhy 07",
        EXz TreatNOWhy == 8 ~ "EXz TreatNOWhy 08", EXz TreatNOWhy ==
            9 ~ "EXz TreatNOWhy 09", EXz TreatNOWhy == 10 ~ "EXz TreatNOWhy 10",
        EXz TreatNOWhy == 11 ~ "EXz TreatNOWhy 11", EXz TreatNOWhy ==
            12 ~ "EXz TreatNOWhy 12", EXz TreatNOWhy == 13 ~
            "EXz TreatNOWhy 13", EXz TreatNOWhy == 14 ~ "EXz TreatNOWhy 14",
        EXz_TreatNOWhy == 15 ~ "EXz_TreatNOWhy_15", EXz_TreatNOWhy ==
            16 ~ "EXz_TreatNOWhy_16", EXz_TreatNOWhy == 17 ~
            "EXz_TreatNOWhy_17", EXz_TreatNOWhy == 18 ~ "EXz_TreatNOWhy_18",
        EXz_TreatNOWhy == 19 ~ "EXz_TreatNOWhy_19", EXz_TreatNOWhy ==
            20 ~ "EXz_TreatNOWhy_20")) %>% pivot_wider(id_cols = ADz_PartcNum,
    names_from = EXz_TreatNOWhy, values_from = TreatNOWhy_Checked,
    values_fill = list(TreatNOWhy_Checked = FALSE)) %>% select(-c("NA"))
```

##Combine all expanded multi-select questions into the master dataset

```
Q1804dta_MSJoin <- Q1804dta
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, LangPref, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, ServLang, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, LangInterp, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, CarePay, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, ProvTyp, by = "ADz_PartcNum")
```

```
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, Bsis, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, ScrnWhy, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, WHCDecis, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, DecTrust, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, InfluenceWho, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, NoScrnRsn, by = "ADz_PartcNum")
Q1804dta_MSJoin <- left_join(Q1804dta_MSJoin, TreatNOWhy, by = "ADz_PartcNum")
```

##Rename the factors of the multi-select variables

```
Q1804dta MSJoin <- Q1804dta MSJoin %>% mutate(SDz LangPrefAll 01 = case when(SDz LangPrefAll 01 ==
    TRUE ~ "Yes", SDz_LangPrefAll_01 == FALSE ~ "No")) %>% mutate(SDz_LangPrefAll_02 = case_when(SDz_LangPrefAll_02 ==
   TRUE ~ "Yes", SDz LangPrefAll 02 == FALSE ~ "No")) %>% mutate(SDz LangPrefAll 06 = case when(SDz LangPrefAll 06 ==
    TRUE ~ "Yes", SDz LangPrefAll 06 == FALSE ~ "No")) %>% mutate(SDz LangPrefAll 07 = case when(SDz LangPrefAll 07 ==
    TRUE ~ "Yes", SDz LangPrefAll 07 == FALSE ~ "No")) %>% mutate(HSz ServLangAll 01 = case when(HSz ServLangAll 01 ==
    TRUE ~ "Yes", HSz_ServLangAll_01 == FALSE ~ "No")) %>% mutate(HSz_ServLangAll_02 = case_when(HSz_ServLangAll_02 ==
    TRUE ~ "Yes", HSz_ServLangAll_02 == FALSE ~ "No")) %>% mutate(HSz_ServLangAll 06 = case when(HSz ServLangAll 06 ==
    TRUE ~ "Yes", HSz ServLangAll 06 == FALSE ~ "No")) %>% mutate(HSz ServLangAll 07 = case when(HSz ServLangAll 07 ==
    TRUE ~ "Yes", HSz_ServLangAll_07 == FALSE ~ "No")) %>% mutate(HSz_LangInterpAll 06 = case when(HSz LangInterpAll 06 ==
    TRUE ~ "Yes", HSz LangInterpAll 06 == FALSE ~ "No")) %>%
    mutate(HSz LangInterpAll 07 = case when(HSz LangInterpAll 07 ==
       TRUE ~ "No", HSz LangInterpAll 07 == FALSE ~ "Yes")) %>%
    mutate(HSz_LangInterpAll_02 = case_when(HSz_LangInterpAll_02 ==
        TRUE ~ "Yes", HSz_LangInterpAll_02 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 01 = case when(BAF CarePayAll 01 ==
        TRUE ~ "Yes", BAF_CarePayAll_01 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 08 = case when(BAF CarePayAll 08 ==
        TRUE ~ "Yes", BAF_CarePayAll_08 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 02 = case when(BAF CarePayAll 02 ==
        TRUE ~ "Yes", BAF_CarePayAll_02 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 04 = case when(BAF CarePayAll 04 ==
        TRUE ~ "Yes", BAF CarePayAll 04 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 10 = case when(BAF CarePayAll 10 ==
        TRUE ~ "Yes", BAF CarePayAll 10 == FALSE ~ "No")) %>%
    mutate(BAF CarePayAll 09 = case when(BAF CarePayAll 09 ==
        TRUE ~ "Yes", BAF CarePayAll 09 == FALSE ~ "No")) %>%
    mutate(GNz WHCDecisAll 01 = case when(GNz WHCDecisAll 01 ==
        TRUE ~ "Yes", GNz WHCDecisAll 01 == FALSE ~ "No")) %>%
```

```
mutate(GNz_WHCDecisAll_02 = case_when(GNz_WHCDecisAll_02 ==
    TRUE ~ "Yes", GNz_WHCDecisAll_02 == FALSE ~ "No")) %>%
mutate(HSz_DecTrust_02 = case_when(HSz_DecTrust_02 == TRUE ~
    "Yes", HSz_DecTrust_02 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_07 = case_when(HSz_DecTrust_07 ==
    TRUE ~ "Yes", HSz_DecTrust_07 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_04 = case_when(HSz_DecTrust_04 ==
    TRUE ~ "Yes", HSz_DecTrust_04 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_06 = case_when(HSz_DecTrust_06 ==
    TRUE ~ "Yes", HSz_DecTrust_04 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_06 = case_when(HSz_DecTrust_08 ==
    TRUE ~ "Yes", HSz_DecTrust_08 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_08 = case_when(HSz_DecTrust_08 ==
    TRUE ~ "Yes", HSz_DecTrust_03 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_03 = case_when(HSz_DecTrust_03 ==
    TRUE ~ "Yes", HSz_DecTrust_03 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_03 = case_when(HSz_DecTrust_03 ==
    TRUE ~ "Yes", HSz_DecTrust_03 == FALSE ~ "No")) %>% mutate(HSz_DecTrust_01 = case_when(HSz_DecTrust_01 ==
    TRUE ~ "Yes", HSz_DecTrust_01 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_04 = case_when(Opz_InfluenceWho_04 ==
    TRUE ~ "Yes", Opz_InfluenceWho_04 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_01 = case_when(Opz_InfluenceWho_01 ==
    TRUE ~ "Yes", Opz_InfluenceWho_04 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_02 = case_when(Opz_InfluenceWho_02 ==
    TRUE ~ "Yes", Opz_InfluenceWho_02 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_02 = case_when(Opz_InfluenceWho_02 ==
    TRUE ~ "Yes", Opz_InfluenceWho_02 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_03 = case_when(Opz_InfluenceWho_04 ==
    TRUE ~ "Yes", Opz_InfluenceWho_02 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_03 = case_when(Opz_InfluenceWho_04 ==
    TRUE ~ "Yes", Opz_InfluenceWho_04 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_05 = case_when(Opz_InfluenceWho_06 ==
    TRUE ~ "Yes", Opz_InfluenceWho_06 == FALSE ~ "No")) %>% mutate(Opz_InfluenceWho_06 = case_when(Opz_InfluenceWho_06 ==
    TRUE ~ "Yes"
```

#Table 1. Demographics by gender

```
Demographics <- Q1804dta MSJoin %>% select(SDz Gender, SDz Age,
    SDz Educatn, SCz MaritalStat, SDz LangPrefAll 01, SDz LangPrefAll 02,
    SDz LangPrefAll 06, SDz LangPrefAll 07, BEz Screend) %>%
    mutate(SDz Gender = case when(SDz Gender == 0 ~ "Female",
        SDz Gender == 1 ~ "Male")) %>% mutate(SDz Educatn = case when(SDz Educatn ==
    0 ~ "0) None", SDz Educatn == 1 ~ "1) Quranic School", SDz Educatn ==
    2 ~ "2) Primary education", SDz Educatn == 3 ~ "3) Secondary school through university",
    SDz Educatn == 4 ~ "3) Secondary school through university",
    SDz Educatn == 5 ~ "3) Secondary school through university",
    SDz Educatn == 99 ~ "Do Not Know / Not Sure")) %>% mutate(SCz_MaritalStat = case_when(SCz_MaritalStat ==
    1 ~ "1) Single, divorced, separated, or widowed", SCz_MaritalStat ==
    2 ~ "2) Married (monogamous household)", SCz_MaritalStat ==
    3 ~ "3) Married (polygamous household)", SCz_MaritalStat ==
    4 ~ "4) Living as married / cohabitating", SCz MaritalStat ==
    5 ~ "1) Single, divorced, separated, or widowed", SCz_MaritalStat ==
    6 ~ "1) Single, divorced, separated, or widowed", SCz_MaritalStat ==
    99 ~ "Do Not Know / Not Sure")) %>% mutate(BEz_Screend = case_when(BEz_Screend ==
    0 ~ "0) Never screened", BEz Screend == 1 ~ "1) One time only",
    BEz Screend == 2 ~ "2) More than one time", BEz Screend ==
       99 ~ "Do Not Know / Not Sure"))
```

```
TA_DemographicsGen <- tableby(SDz_Gender ~ anova(SDz_Age, "meansd",
    "range") + fe(SDz_Educatn, "countpct") + fe(SCz_MaritalStat,
    "countpct") + fe(SDz_LangPrefAll_01, "countpct") + fe(SDz_LangPrefAll_02,
    "countpct") + fe(SDz_LangPrefAll_06, "countpct") + fe(SDz_LangPrefAll_07,
    "countpct") + fe(BEz_Screend, "countpct"), simulate.p.value = TRUE,
    data = Demographics)
labels(TA_DemographicsGen) <- c(SDz_Gender = "Gender", SDz_Age = "Age in years",
    SDz_Educatn = "Education level", SCz_MaritalStat = "Marital status",
    BEz_Screend = "Screened for cervical cancer", SDz_LangPrefAll_01 = "Malinke speaker",
```

```
SDz LangPrefAll_02 = "Pulaar speaker", SDz LangPrefAll_06 = "Wolof speaker",
```

```
SDz_LangPrefAll_07 = "French speaker")
```

summary(TA\_DemographicsGen, title = "Arsenal Table 18Q04", pfootnote = TRUE)

#### ##

## Table: Arsenal Table 18Q04

## ##

##		Female	(N=101)	Mal	Le (N=57)	Tota	l (N=158)	I	p value
##	:	:	:	:	:	:	:		:
##	<pre> **Age in years**</pre>	I		I		I			0.006^1^
##	Mean (SD)	40.168	(8.631)	44.14	ŁO (8.355)	41.60	1 (8.718)	I	I
##	Range	30.000	- 59.000	30.00	00 - 59.000	30.00	0 - 59.000	I	
##	<pre>**Education level**</pre>	I		I		I		<	0.001^2^
##	0) None	26 (2	5.7%)	5	(8.9%)	31	(19.7%)	I	I
##	1) Quranic School	35 (3	4.7%)	21	(37.5%)	56	(35.7%)	I I	I
##	<pre>knbsp; 2) Primary education</pre>	37 (3	6.6%)	17	(30.4%)	54	(34.4%)	I I	I
##	<pre>knbsp; %nbsp;3) Secondary school through university</pre>	3 (3	.0%)	13	(23.2%)	16	(10.2%)	I I	I
##	<pre> **Marital status**</pre>	l		I		I		I I	0.068^2^
##	<pre>knbsp; 1) Single, divorced, separated, or widowed</pre>	8 (7	.9%)	3	(5.3%)	11	(7.0%)	I	
##	<pre>knbsp; 2) Married (monogamous household)</pre>	41 (4	0.6%)	34	(59.6%)	75	(47.5%)	I I	I
##	<pre>knbsp; %nbsp;3) Married (polygamous household)</pre>	52 (5	1.5%)	20	(35.1%)	72	(45.6%)	I	
##	**Malinke speaker**	I		I		I		Ι	0.733^3^
##	No	39 (3	8.6%)	20	(35.1%)	59	(37.3%)	I I	I
##	Yes	62 (6	1.4%)	37	(64.9%)	99	(62.7%)	I I	I
##	**Pulaar speaker**			I		I		I	0.019^3^
##	No	48 (4	7.5%)	16	(28.1%)	64	(40.5%)		I
##	Yes	53 (5	2.5%)	41	(71.9%)	94	(59.5%)		I

##	**Wolof speaker**				I						I	0.039^3^
##	No	80	0 (	79.2%)	Ι	36	(63.2%)		116	6 (73.4%)	1	I
##	Yes	21	1 (	20.8%)	I	21	(36.8%)		42	(26.6%)		I
##	**French speaker**											0.004^3^
##	No	78	8 (	77.2%)		31	(54.4%)		109	9 (69.0%)		I
##	%es	23	3 (	22.8%)		26	(45.6%)		49	(31.0%)		I
##	**Screened for cervical cancer**											I
##	0) Never screened	85	5 (	84.2%)			0		85	(84.2%)		I
##	1) One time only	14	4 (	13.9%)			0		14	(13.9%)		I
##	2) More than one time		2(	2.0%)	Ι		0	Ι	2	(2.0%)	Ι	I

## 1. Linear Model ANOVA

## 2. Fisher's Exact Test for Count Data with simulated p-value

## (based on 2000 replicates)

## 3. Fisher's Exact Test for Count Data

# write2pdf(TA\_DemographicsGen, # here('Tables','TO1\_Demographics.pdf')) # write2word(TA\_DemographicsGen, # here('Tables','TO1\_Demographics.doc'))

### #Table 2. Perception of gender roles by gender

```
Power Gendr <- Q1804dta MSJoin %>% select(SDz Gender, OPz ScrnWRec,
    OPz_ScrnRecOthrs, GNz_WRole, GNz_ManDecis, OPz_InfluenceWho_01,
    OPz InfluenceWho 04, OPz InfluenceWho 02, OPz InfluenceWho 06,
    OPz InfluenceWho 09, HSz DecTrust 02, HSz DecTrust 07, HSz DecTrust 04,
   HSz DecTrust 06, HSz DecTrust 08, HSz DecTrust 03, HSz DecTrust 01,
    GNz WHCDecisAll 01, GNz WHCDecisAll 02) %>% mutate(SDz Gender = case when(SDz Gender ==
    0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(OPz_ScrnWRec = case_when(OPz_ScrnWRec ==
    1 ~ "1) Strongly Disagree", OPz_ScrnWRec == 2 ~ "2) Disagree",
    OPz_ScrnWRec == 3 ~ "3) Undecided", OPz_ScrnWRec == 4 ~ "4) Agree",
    OPz_ScrnWRec == 5 ~ "5) Strongly Agree")) %>% mutate(OPz_ScrnRecOthrs = case_when(OPz_ScrnRecOthrs ==
   1 ~ "1) Strongly Disagree", OPz_ScrnRecOthrs == 2 ~ "2) Disagree",
   OPz ScrnRecOthrs == 3 ~ "3) Undecided", OPz ScrnRecOthrs ==
        4 ~ "4) Agree", OPz_ScrnRecOthrs == 5 ~ "5) Strongly Agree")) %>%
    mutate(GNz_WRole = case_when(GNz_WRole == 1 ~ "1) Strongly Disagree",
       GNz_WRole == 2 ~ "2) Disagree", GNz_WRole == 3 ~ "3) Undecided",
       GNz WRole == 4 ~ "4) Agree", GNz WRole == 5 ~ "5) Strongly Agree")) %>%
```

```
mutate(GNz_ManDecis = case_when(GNz_ManDecis == 1 ~ "1) Strongly Disagree",
GNz_ManDecis == 2 ~ "2) Disagree", GNz_ManDecis == 3 ~
"3) Undecided", GNz_ManDecis == 4 ~ "4) Agree", GNz_ManDecis ==
5 ~ "5) Strongly Agree"))
TA_Power_Gendr <- tableby(SDz_Gender ~ fe(GNz_WRole, "countpct") +
fe(GNz_ManDecis, "countpct"), simulate.p.value = TRUE, data = Power_Gendr)
labels(TA_Power_Gendr) <- c(GNz_WRole = "A womans most important role is to take care of her home and cook for her family",
GNz_ManDecis = "A man should have the final word about decisions in his home")
```

```
summary(TA_Power_Gendr, title = "Arsenal Table 18Q04", pfootnote = TRUE)
```

#### ##

##	Table: Arsenal Table 18Q04							
##								
##		0) F	Semale (N=101)	)   :	1) Male (N=57)		Tota	l (N=1
##	:	:		-: :-		:   :		
##	<pre> **A womans most important role is to take care of her home and cook for her family**</pre>	1				Ι		
##	1) Strongly Disagree	1	6 (6.0%)		1 (1.8%)	Ι	7	(4.5%)
##	2) Disagree	2	26 (26.0%)		6 (10.5%)	Ι	32	(20.4%
##	3) Undecided	1	2 (2.0%)		2 (3.5%)	Ι	4	(2.5%)
##	4) Agree	1	7 (7.0%)		25 (43.9%)	Ι	32	(20.4%
##	5) Strongly Agree	5	59 (59.0%)		23 (40.4%)	Ι	82	(52.2%
##	<pre> **A man should have the final word about decisions in his home**</pre>	1				Ι		
##	1) Strongly Disagree	1	7 (6.9%)		1 (1.8%)	Ι	8	(5.1%)
##	2) Disagree	2	24 (23.8%)		3 (5.4%)	Ι	27	(17.2%
##	3) Undecided	1	1 (1.0%)		0 (0.0%)	Ι	1	(0.6%)
##	4) Agree	1	.5 (14.9%)		13 (23.2%)	Ι	28	(17.8%
##	5) Strongly Agree	5	54 (53.5%)		39 (69.6%)	Ι	93	(59.2%
##	1. Fisher's Exact Test for Count Data with simulated p-value							
##	(based on 2000 replicates)							

# write2pdf(TA\_Power\_Gendr, # here('Tables','TO2\_Power\_Gendr.pdf')) # write2word(TA\_Power\_Gendr, # here('Tables','TO2\_Power\_Gendr.doc'))

# write2html(TA\_Power\_Gendr,

#Table 3. Adapted everyday discrimination scale by gender

```
Discr_Gendr <- Q1804dta_MSJoin %>% select(SDz_Gender, DSz_RespGen,
    DSz RespPrtn, DSz Smrt, DSz Hnst, DSz Thret) %>% mutate(SDz Gender = case when(SDz Gender ==
    0 ~ "0) Female", SDz Gender == 1 ~ "1) Male")) %>% mutate(DSz RespGen = case when(DSz RespGen ==
    1 ~ "1) Every day", DSz RespGen == 2 ~ "2) Every week", DSz RespGen ==
    3 ~ "3) A few times per year", DSz RespGen == 4 ~ "4) A few times in my life",
   DSz RespGen == 5 ~ "5) Never", DSz RespGen == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz_RespPrtn = case_when(DSz_RespPrtn == 1 ~ "1) Every day",
       DSz_RespPrtn == 2 ~ "2) Every week", DSz_RespPrtn ==
            3 ~ "3) A few times per year", DSz_RespPrtn == 4 ~
            "4) A few times in my life", DSz_RespPrtn == 5 ~
            "5) Never", DSz_RespPrtn == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz_Smrt = case_when(DSz_Smrt == 1 ~ "1) Every day",
       DSz_Smrt == 2 ~ "2) Every week", DSz_Smrt == 3 ~ "3) A few times per year",
        DSz Smrt == 4 ~ "4) A few times in my life", DSz Smrt ==
            5 ~ "5) Never", DSz_Smrt == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz Hnst = case when(DSz Hnst == 1 ~ "1) Every day",
        DSz_Hnst == 2 ~ "2) Every week", DSz_Hnst == 3 ~ "3) A few times per year",
       DSz Hnst == 4 ~ "4) A few times in my life", DSz Hnst ==
            5 ~ "5) Never", DSz Hnst == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz Thret = case_when(DSz_Thret == 1 ~ "1) Every day",
       DSz Thret == 2 ~ "2) Every week", DSz Thret == 3 ~ "3) A few times per year",
       DSz Thret == 4 ~ "4) A few times in my life", DSz Thret ==
            5 ~ "5) Never", DSz Thret == 99 ~ "Do Not Know / Not Sure"))
TA_Discr_Gendr <- tableby(SDz_Gender ~ fe(DSz_RespGen, "countpct") +
    fe(DSz_RespPrtn, "countpct") + fe(DSz_Smrt, "countpct") +
    fe(DSz_Hnst, "countpct") + fe(DSz_Thret, "countpct"), simulate.p.value = TRUE,
    data = Discr Gendr)
labels(TA_Discr_Gendr) <- c(DSz_RespGen = "Feel treated with less courtesy or respect than others",
   DSz_RespPrtn = "Feel treated with less courtesy or respect by their spouse",
   DSz Smrt = "Feel that others act as if they are not smart",
   DSz_Hnst = "Feel perceived as being dishonest", DSz_Thret = "Feel threatened by others")
```

summary(TA\_Discr\_Gendr, title = "Arsenal Table 18Q04", pfootnote = TRUE)

#### ##

**##** Table: Arsenal Table 18Q04

##       0) Female (N=101)       1) Male (N=57)       Total (N=158)         ##       !:::::::::::::::::::::	p value  :  0.084^1^          < 0.001^1^    
##       ::::::::::::::::::	:  0.084^1^  
##        **Feel treated with less courtesy or respect than others**   ##        knbsp;  1)       Every day               9       (9.2%)               0       (0.0%)               9       (5.9%)                 ##        knbsp;  2)       Every week               2       (2.0%)               0       (0.0%)               2       (1.3%)                 ##        knbsp;         A few times per year               6       (6.1%)               3       (5.6%)               9       (5.9%)                 ##        knbsp;         A few times in my life               22       (22.4%)               10       (18.5%)               32       (21.1%)                 ##        knbsp;        Nbsp;       Nbsp;       Nbsp;               100       (65.8%)	0.084^1^            < 0.001^1^    
##       [knbsp;          Every day       9       9.2%)       0       0.0.0%)       9       5.9%)       1         ##       [knbsp;         Every week       2       2.0%)       0       0.0.0%)       2       1.3%)       1         ##       [knbsp;         A few times per year       6       6.1%)       3       5.6%)       9       (5.9%)       1         ##       [knbsp;         A few times per year       6       6.1%)       10       (18.5%)       32       (21.1%)       1         ##       [knbsp;        Never       59       60.2%)       41       (75.9%)       100       (65.8%)       1         ##       [knbsp;        Every day       14       (14.3%)       0       0       0.0%)       14       (9.3%)       1         ##       [knbsp;        Snbsp;       Every week       4       (4.1%)       0       0       0.0%)       14       (9.3%)       1         ##       [knbsp;        Snbsp;       Snbsp;       Every week       14       (14.3%)       0       0       0.0%)       1       (0.2%)       1         ##       [knbsp;	             
##       [knbsp;  &)       Every week       0       0       0       0       0       2       1.3%       1         ##       [knbsp;  &)       A few times per year       6       6.1%       3       3       5.6%       9       5.9%       1         ##       [knbsp;  &)       A few times in my life       22       (22.4%)       10       (18.5%)       32       (21.1%)       1         ##       [knbsp;  &)       Never       59       60.2%)       41       (75.9%)       100       (65.8%)       1         ##       [knbsp;  &)       Every day       14       (14.3%)       0       0       0.0%)       14       (9.3%)       1         ##       [knbsp;  &)       Every day       14       (14.3%)       0       0       0.0%)       14       (9.3%)       1         ##       [knbsp;  &)       Every week       14       (4.1%)       0       0       0.0%)       14       (9.3%)       1         ##       [knbsp;  &)       A few times per year       15       (15.3%)       2       (3.8%)       17       (11.3%)       1         ##       [knbsp;	     < 0.001^1^    
##      &) A few times per year               6 (6.1%)               3 (5.6%)       9 (5.9%)                 ##              A few times in my life               22 (22.4%)               10 (18.5%)               32 (21.1%)                 ##             Never               59 (60.2%)               41 (75.9%)               100 (65.8%)                 ##             Every day               14 (14.3%)               0 (0.0%)               14 (9.3%)                 ##             Every week               4 (4.1%)               0 (0.0%)               4 (2.7%)                 ##              A few times per year               15 (15.3%)               2 (3.8%)               17 (11.3%)                 ##             Never               18 (18.4%)               9 (17.3%)               27 (18.0%)                 ##             Never               47 (48.0%)               41 (78.8%)               88 (58.7%)                 ##             Every day               1 (1.0%)               0 (0.0%)         </th <th>             </th>	           
##     4) A few times in my life               22 (22.4%)               10 (18.5%)               32 (21.1%)                 ##     5) Never               59 (60.2%)               41 (75.9%)               100 (65.8%)                 ##     1) Every day               14 (14.3%)               0 (0.0%)               14 (9.3%)                 ##     2) Every week               4 (4.1%)               0 (0.0%)               4 (2.7%)                 ##     3) A few times per year               15 (15.3%)               2 (3.8%)               17 (11.3%)                 ##     5) Never               47 (48.0%)               41 (78.8%)       88 (58.7%)                 ##     1) Every day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##     1) Every day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##     2) Every week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##     3) A few times per year               4 (4.0%)         <th>    &lt; 0.001^1^     </th>	   < 0.001^1^    
##       & & & & & & & & & & & & & & & & & & &	 < 0.001^1^    
##  **Feel treated with less courtesy or respect by their spouse**	< 0.001^1^    
##       [& hbsp;&hbsp&hbsp)       Every day               14 (14.3%)               0 (0.0%)               14 (9.3%)                 ##       [& hbsp;&hbsp&hbsp)       Every week               4 (4.1%)               0 (0.0%)               4 (2.7%)                 ##       [& hbsp;&hbsp&hbsp       A few times per year               15 (15.3%)               2 (3.8%)               17 (11.3%)                 ##       [& hbsp;&hbsp&hbsp       A few times in my life               18 (18.4%)               9 (17.3%)               27 (18.0%)                 ##       [& hbsp;&hbsp&hbsp       Never               47 (48.0%)               41 (78.8%)               88 (58.7%)                 ##       [& hbsp;&hbsp&hbsp       Every day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##       [& hbsp;&hbsp&hbsp       Every week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##       [& hbsp;&hbsp&hbsp       A few times per year               4 (4.0%)               5 (9.4%)       9 (5.8%)	
##       & & & & & & & & & & & & & & & & & & &	I
##    3) A few times per year         15 (15.3%)         2 (3.8%)         17 (11.3%)                 ##     4) A few times in my life         18 (18.4%)         9 (17.3%)         27 (18.0%)                 ##            Never         47 (48.0%)         41 (78.8%)         88 (58.7%)                 ##            Never         1 (1.0%)         0 (0.0%)         1 (0.6%)                 ##            Every week         1 (1.0%)         0 (0.0%)         1 (0.6%)                 ##            A few times per year         4 (4.0%)         5 (9.4%)         9 (5.8%)	
##           A few times in my life               18 (18.4%)               9 (17.3%)               27 (18.0%)                 ##           Never               47 (48.0%)               41 (78.8%)               88 (58.7%)                 ##           Never               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##           Nevery day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##           Nevery week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##           A few times per year               4 (4.0%)               5 (9.4%)       9 (5.8%)	I
##       & & & & & & & & & & & & & & & & & & &	I
##  **Feel that others act as if they are not smart**   ##     1)       Every day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##     2)       Every week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##     3)       A few times per year               4 (4.0%)               5 (9.4%)       9 (5.8%)	I
##    1) Every day               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##           Every week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##           & hosp;       & hosp; <td< th=""><th>0.032^1^ </th></td<>	0.032^1^
##    2) Every week               1 (1.0%)               0 (0.0%)               1 (0.6%)                 ##    3) A few times per year               4 (4.0%)               5 (9.4%)               9 (5.8%)	I
##    3 A few times per year   4 (4.0%)   5 (9.4%)   9 (5.8%)	I
	I
##     4) A few times in my life   16 (15.8%)   17 (32.1%)   33 (21.4%)	I
##    %nbsp;5) Never   79 (78.2%)   31 (58.5%)   110 (71.4%)	I
##  **Feel perceived as being dishonest**	0.105^1^
##     3) A few times per year   1 (1.0%)   2 (4.2%)   3 (2.0%)	I
##     4) A few times in my life   11 (11.0%)   10 (20.8%)   21 (14.2%)	I
##    %nbsp;5) Never   88 (88.0%)   36 (75.0%)   124 (83.8%)	I
##  **Feel threatened by others**	0.436^1^
##    %nbsp;1) Every day   1 (1.0%)   0 (0.0%)   1 (0.7%)	I
##     3) A few times per year   3 (3.0%)   3 (6.1%)   6 (4.1%)	I
##     4) A few times in my life   16 (16.2%)   4 (8.2%)   20 (13.5%)	I
##     5) Never   79 (79.8%)   42 (85.7%)   121 (81.8%)	I

## 1. Fisher's Exact Test for Count Data with simulated p-value

## (based on 2000 replicates)

# write2pdf(TA\_Discr\_Gendr, # here('Tables', 'T03\_Discr\_Gendr.pdf')) # write2word(TA\_Discr\_Gendr, # here('Tables', 'T03\_Discr\_Gendr.doc')) # write2html(TA\_Discr\_Gendr, # here('Tables', 'T03\_Discr\_Gendr.html'))

#Table 4. Adapted cancer stigma scale by gender

```
Stgma Gendr <- Q1804dta MSJoin %>% select(SDz Gender, STz CAAbnl,
    STz_CAComfNear, STz_CANeedsPriority, STz_CAPtFault, STz_CAFeelPity,
    STz_CADxFear, OPz_CAWorry) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
    0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(STz_CAAbnl = case_when(STz_CAAbnl ==
    1 ~ "1) Strongly Disagree", STz_CAAbnl == 2 ~ "2) Disagree",
   STz CAAbnl == 3 ~ "3) Undecided", STz_CAAbnl == 4 ~ "4) Agree",
    STz_CAAbnl == 5 ~ "5) Strongly Agree")) %>% mutate(STz_CAComfNear = case_when(STz_CAComfNear ==
    1 ~ "1) Strongly Disagree", STz_CAComfNear == 2 ~ "2) Disagree",
    STz CAComfNear == 3 ~ "3) Undecided", STz CAComfNear == 4 ~
        "4) Agree", STz_CAComfNear == 5 ~ "5) Strongly Agree")) %>%
    mutate(STz CANeedsPriority = case when(STz CANeedsPriority ==
        1 ~ "1) Strongly Disagree", STz_CANeedsPriority == 2 ~
        "2) Disagree", STz CANeedsPriority == 3 ~ "3) Undecided",
       STz_CANeedsPriority == 4 ~ "4) Agree", STz_CANeedsPriority ==
            5 ~ "5) Strongly Agree")) %>% mutate(STz CAPtFault = case when(STz CAPtFault ==
    1 ~ "1) Strongly Disagree", STz CAPtFault == 2 ~ "2) Disagree",
    STz CAPtFault == 3 ~ "3) Undecided", STz CAPtFault == 4 ~
        "4) Agree", STz CAPtFault == 5 ~ "5) Strongly Agree")) %>%
    mutate(STz_CAFeelPity = case_when(STz_CAFeelPity == 1 ~ "1) Strongly Disagree",
        STz_CAFeelPity == 2 ~ "2) Disagree", STz_CAFeelPity ==
            3 ~ "3) Undecided", STz_CAFeelPity == 4 ~ "4) Agree",
        STz_CAFeelPity == 5 ~ "5) Strongly Agree")) %>% mutate(STz_CADxFear = case_when(STz_CADxFear ==
    1 ~ "1) Strongly Disagree", STz CADxFear == 2 ~ "2) Disagree",
    STz_CADxFear == 3 ~ "3) Undecided", STz_CADxFear == 4 ~ "4) Agree",
    STz_CADxFear == 5 ~ "5) Strongly Agree")) %>% mutate(OPz_CAWorry = case when(OPz CAWorry ==
    1 ~ "1) Strongly Disagree", OPz_CAWorry == 2 ~ "2) Disagree",
    OPz CAWorry == 3 ~ "3) Undecided", OPz CAWorry == 4 ~ "4) Agree",
    OPz_CAWorry == 5 ~ "5) Strongly Agree"))
```

```
TA_Stgma_Gendr <- tableby(SDz_Gender ~ fe(STz_CAComfNear, "countpct") +
    fe(STz_CAAbnl, "countpct") + fe(STz_CANeedsPriority, "countpct") +
    fe(STz_CAPtFault, "countpct") + fe(STz_CAFeelPity, "countpct") +
    fe(STz_CADxFear, "countpct") + fe(OPz_CAWorry, "countpct"),
    simulate.p.value = TRUE, data = Stgma_Gendr)
labels(TA_Stgma_Gendr) <- c(STz_CAAbnl = "Once youve had cancer youre never normal again.",
    STz_CAComfNear = "I would not feel comfortable around someone with cancer.",
    STz_CANeedsPriority = "The health care needs of people with cancer should not be prioritized.",
    STz_CAFeelPity = " I would feel sorry for someone with cancer.",
    STz_CADxFear = "I feel that cancer is more frightening than most other diseases.",
    OPz_CAWorry = "Other women often state that they are worried about getting cancer.")</pre>
```

summary(TA\_Stgma\_Gendr, title = "Arsenal Table 18Q04", pfootnote = TRUE)

#### ##

## Table: Arsenal Table 18Q04

### ##

##	1	0)	Fen	nale (N=101)	1)	Male (N=57)	1.	Γotal (N=158)		F
##	:	:		:	:	:	: :	:		
##	<pre> **I would not feel comfortable around someone with cancer.**</pre>						1		<	0.
##	1) Strongly Disagree		11	(11.0%)		11 (19.6%)	1	22 (14.1%)		
##	2) Disagree		44	(44.0%)	1	31 (55.4%)	1	75 (48.1%)	1	
##	3) Undecided		1	(1.0%)	1	4 (7.1%)	1	5 (3.2%)	1	
##	&) Agree		19	(19.0%)	1	9 (16.1%)	1	28 (17.9%)	1	
##	5) Strongly Agree		25	(25.0%)		1 (1.8%)		26 (16.7%)		
##	<pre> **Once youve had cancer youre never normal again.**</pre>								<	0.
##	%nbsp;1) Strongly Disagree		2	(2.0%)		7 (12.5%)		9 (5.8%)		
##	2) Disagree		8	(8.0%)		12 (21.4%)		20 (12.8%)		
##	3) Undecided		2	(2.0%)		9 (16.1%)		11 (7.1%)		
##	&) Agree		31	(31.0%)		23 (41.1%)		54 (34.6%)		
##	5) Strongly Agree		57	(57.0%)		5 (8.9%)		62 (39.7%)		
##	<pre> **The health care needs of people with cancer should not be prioritized.**</pre>								<	0.
##	%nbsp;1) Strongly Disagree		9	(9.1%)		18 (32.1%)	T	27 (17.4%)		
##	2) Disagree		24	(24.2%)		31 (55.4%)	T	55 (35.5%)		
##	3) Undecided		3	(3.0%)		2 (3.6%)	T	5 (3.2%)	1	
##	: : :4) Agree	1	31	(31.3%)	1	2 (3.6%)	1	33 (21.3%)	1	

##	5) Strongly Agree	I	32 (32.3%)	)	3 (5.4%)	35 (22.6%)	I
##	<pre> **If a person has cancer its probably their fault.**</pre>	I					< 0.
##	1) Strongly Disagree	I	11 (11.0%)	)	11 (19.6%)	22 (14.1%)	I
##	2) Disagree	I	40 (40.0%)	)	23 (41.1%)	63 (40.4%)	Ι
##	3) Undecided	I	6 (6.0%)		14 (25.0%)	20 (12.8%)	Ι
##	4) Agree	I	16 (16.0%)	)	7 (12.5%)	23 (14.7%)	I
##	5) Strongly Agree	I	27 (27.0%)	)	1 (1.8%)	28 (17.9%)	I
##	<pre> **I would feel sorry for someone with cancer.**</pre>	I					0.
##	1) Strongly Disagree	I	1 (1.0%)		4 (7.1%)	5 (3.2%)	I
##	2) Disagree	I	9 (9.0%)		3 (5.4%)	12 (7.7%)	I
##	3) Undecided	I	0 (0.0%)		1 (1.8%)	1 (0.6%)	I
##	4) Agree	I	48 (48.0%)	)	27 (48.2%)	75 (48.1%)	I
##	5) Strongly Agree	I	42 (42.0%)	)	21 (37.5%)	63 (40.4%)	I
##	<pre> **I feel that cancer is more frightening than most other diseases.**</pre>	I					< 0.
##	1) Strongly Disagree	I	0 (0.0%)		6 (10.9%)	6 (3.9%)	I
##	2) Disagree	I	11 (11.1%)	)	15 (27.3%)	26 (16.9%)	I
##	3) Undecided	I	4 (4.0%)		5 (9.1%)	9 (5.8%)	1
##	4) Agree	I	34 (34.3%)	)	20 (36.4%)	54 (35.1%)	I
##	5) Strongly Agree	I	50 (50.5%)	)	9 (16.4%)	59 (38.3%)	I
##	<pre> **Other women often state that they are worried about getting cancer.**</pre>	I					< 0.
##	1) Strongly Disagree	I	0 (0.0%)		1 (1.8%)	1 (0.6%)	I
##	2) Disagree	I	3 (3.0%)		1 (1.8%)	4 (2.6%)	I
##	3) Undecided	I	24 (24.0%)	)	30 (53.6%)	54 (34.6%)	1
##	4) Agree	I	25 (25.0%)	)	20 (35.7%)	45 (28.8%)	1
##	5) Strongly Agree	I	48 (48.0%)	)	4 (7.1%)	52 (33.3%)	I
##	1. Fisher's Exact Test for Count Data with simulated p-value						

## (based on 2000 replicates)

# write2pdf(TA\_Stgma\_Gendr, # here('Tables', 'T04\_Stgma\_Gendr.pdf')) # write2word(TA\_Stgma\_Gendr, # here('Tables', 'T04\_Stgma\_Gendr.doc')) # write2html(TA\_Stgma\_Gendr, # here('Tables', 'T04\_Stgma\_Gendr.html'))

#Table 5. Cancer Attitudes by gender

```
Attd_Gendr <- Q1804dta_MSJoin %>% select(SDz_Gender, BEz_Screend,
    ATz_BnfComf, ATz_MyDxSlfKno, ATz_MyDxFamKno, ATz_FamDxMyKno,
    ATz_DxFate) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
    0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(ATz_BnfComf = case_when(ATz_BnfComf ==
    1 ~ "1) Strongly Disagree", ATz_BnfComf == 2 ~ "2) Disagree",
    ATz_BnfComf == 3 ~ "3) Undecided", ATz_BnfComf == 4 ~ "4) Agree",
    ATz_BnfComf == 5 ~ "5) Strongly Agree")) %>% mutate(ATz_MyDxSlfKno = case_when(ATz_MyDxSlfKno ==
    1 ~ "1) Strongly Disagree", ATz MyDxSlfKno == 2 ~ "2) Disagree",
    ATz_MyDxSlfKno == 3 ~ "3) Undecided", ATz_MyDxSlfKno == 4 ~
        "4) Agree", ATz MyDxSlfKno == 5 ~ "5) Strongly Agree")) %>%
    mutate(ATz_MyDxFamKno = case_when(ATz_MyDxFamKno == 1 ~ "1) Strongly Disagree",
       ATz MyDxFamKno == 2 ~ "2) Disagree", ATz MyDxFamKno ==
            3 ~ "3) Undecided", ATz_MyDxFamKno == 4 ~ "4) Agree",
        ATz_MyDxFamKno == 5 ~ "5) Strongly Agree")) %>% mutate(ATz_FamDxMyKno = case_when(ATz_FamDxMyKno ==
    1 ~ "1) Strongly Disagree", ATz_FamDxMyKno == 2 ~ "2) Disagree",
    ATz_FamDxMyKno == 3 ~ "3) Undecided", ATz_FamDxMyKno == 4 ~
        "4) Agree", ATz_FamDxMyKno == 5 ~ "5) Strongly Agree")) %>%
    mutate(ATz_DxFate = case_when(ATz_DxFate == 1 ~ "1) Strongly Disagree",
        ATz_DxFate == 2 ~ "2) Disagree", ATz_DxFate == 3 ~ "3) Undecided",
        ATz_DxFate == 4 ~ "4) Agree", ATz_DxFate == 5 ~ "5) Strongly Agree"))
TA_Attd_Gendr <- tableby(SDz_Gender ~ fe(ATz_BnfComf, "countpct") +
    fe(ATz_MyDxSlfKno, "countpct") + fe(ATz_MyDxFamKno, "countpct") +
    fe(ATz_FamDxMyKno, "countpct") + fe(ATz_DxFate, "countpct"),
    simulate.p.value = TRUE, data = Attd_Gendr)
labels(TA_Attd_Gendr) <- c(ATz_BnfComf = "Cancer testing or treatment that is unpleasant is worth getting if it would help me to live long
    ATz_MyDxSlfKno = "If I had cancer, I would want to know that I have it",
    ATz_MyDxFamKno = "If I had cancer, I would want my family to know that I have it.",
    ATz FamDxMyKno = "If someone else in my family had cancer, I would want to know that they have it.",
    ATz_DxFate = "Getting a serious disease like cancer is fate, there is nothing I can do to change fate")
summary(TA_Attd_Gendr, title = "Arsenal Table 18Q04", pfootnote = TRUE)
```

```
##
## Table: Arsenal Table 18Q04
##
##
```

| 0) Female (N=101) | 1) Male (

##		•	- •   •
##	**Cancer testing or treatment that is unpleasant is worth getting if it would help me to live longer**		
##	1) Strongly Disagree	2 (2.0%)	1 (1.9
##	2) Disagree	8 (8.0%)	0 (0.0
##	&) Undecided	9 (9.0%)	6 (11.1
##	4) Agree	44 (44.0%)	34 (63.
##	%nbsp;5) Strongly Agree	37 (37.0%)	13 (24.
##	**If I had cancer, I would want to know that I have it**		I
##	%nbsp;1) Strongly Disagree	1 (1.0%)	1 (1.8
##	2) Disagree	5 (5.1%)	0 (0.0
##	&) Undecided	0 (0.0%)	1 (1.8
##	&) Agree	40 (40.4%)	17 (30.
##	5) Strongly Agree	53 (53.5%)	36 (65.
##	**If I had cancer, I would want my family to know that I have it.**		I
##	%nbsp;1) Strongly Disagree	10 (10.0%)	1 (1.8
##	2) Disagree	18 (18.0%)	2 (3.6
##	&) Undecided	3 (3.0%)	3 (5.4
##	&) Agree	39 (39.0%)	17 (30.
##	5) Strongly Agree	30 (30.0%)	33 (58.
##	**If someone else in my family had cancer, I would want to know that they have it.**		I
##	%nbsp;1) Strongly Disagree	4 (4.0%)	1 (1.8
##	2) Disagree	25 (25.3%)	0 (0.0
##	4) Agree	38 (38.4%)	23 (41.
##	%nbsp;5) Strongly Agree	32 (32.3%)	32 (57.
##	**Getting a serious disease like cancer is fate, there is nothing I can do to change fate**		I
##	%nbsp;1) Strongly Disagree	24 (24.0%)	11 (19.
##	<pre>knbsp; 2) Disagree</pre>	27 (27.0%)	10 (17.
##	3) Undecided	6 (6.0%)	10 (17.
##	&) Agree	30 (30.0%)	20 (35.
##	5) Strongly Agree	13 (13.0%)	5 (8.9
##	1. Fisher's Exact Test for Count Data with simulated p-value		
##	(based on 2000 replicates)		
# u	rite2pdf(TA_Attd_Gendr,		
# h	pere('Tables','T05_Attd_Gendr.pdf'))		
# u	rite2word(TA_Attd_Gendr,		
# h	pere('Tables','T05_Attd_Gendr.doc'))		

# write2html(TA\_Attd\_Gendr, # here('Tables', 'T05\_Attd\_Gendr.html'))

#Table 6. Cervical cancer screening recommendation by gender

```
ScrnRec_Gendr <- Q1804dta_MSJoin %>% select(SDz_Gender, OPz_ScrnWRec,
   OPz ScrnRecOthrs, GNz WRole, GNz ManDecis, OPz InfluenceWho 01,
   OPz_InfluenceWho_04, OPz_InfluenceWho_02, OPz_InfluenceWho_06,
   OPz_InfluenceWho_09, HSz_DecTrust_02, HSz_DecTrust_07, HSz_DecTrust_04,
   HSz_DecTrust_06, HSz_DecTrust_08, HSz_DecTrust_03, HSz_DecTrust_01,
   GNz_WHCDecisAll_01, GNz_WHCDecisAll_02) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
   0 ~ "0) Female", SDz Gender == 1 ~ "1) Male")) %>% mutate(OPz ScrnWRec = case when(OPz ScrnWRec ==
   1 ~ "1) Strongly Disagree", OPz ScrnWRec == 2 ~ "2) Disagree",
   OPz_ScrnWRec == 3 ~ "3) Undecided", OPz_ScrnWRec == 4 ~ "4) Agree",
   OPz_ScrnWRec == 5 ~ "5) Strongly Agree")) %>% mutate(OPz_ScrnRecOthrs = case_when(OPz_ScrnRecOthrs ==
   1 ~ "1) Strongly Disagree", OPz_ScrnRecOthrs == 2 ~ "2) Disagree",
   OPz_ScrnRecOthrs == 3 ~ "3) Undecided", OPz_ScrnRecOthrs ==
       4 ~ "4) Agree", OPz_ScrnRecOthrs == 5 ~ "5) Strongly Agree")) %>%
   mutate(GNz_WRole = case_when(GNz_WRole == 1 ~ "1) Strongly Disagree",
       GNz_WRole == 2 ~ "2) Disagree", GNz_WRole == 3 ~ "3) Undecided",
       GNz_WRole == 4 ~ "4) Agree", GNz_WRole == 5 ~ "5) Strongly Agree")) %>%
   mutate(GNz_ManDecis = case_when(GNz_ManDecis == 1 ~ "1) Strongly Disagree",
       GNz ManDecis == 2 ~ "2) Disagree", GNz ManDecis == 3 ~
           "3) Undecided", GNz_ManDecis == 4 ~ "4) Agree", GNz_ManDecis ==
           5 ~ "5) Strongly Agree"))
TA_ScrnRec_Gendr <- tableby(SDz_Gender ~ fe(OPz_ScrnWRec, "countpct") +</pre>
   fe(OPz ScrnRecOthrs, "countpct"), simulate.p.value = TRUE,
   data = ScrnRec Gendr)
# OPz ScrnWRec, OPz ScrnRecOthrs, GNz WRole, GNz ManDecis,
labels(TA_ScrnRec_Gendr) <- c(OPz_ScrnWRec = "Other women that I know recommend the cervical cancer test",
   OPz_ScrnRecOthrs = "I would recommend that women get routine testing for cervical cancer")
summary(TA_ScrnRec_Gendr, title = "Arsenal Table 18Q04", pfootnote = TRUE)
##
## Table: Arsenal Table 18Q04
##
                                                                        | 0) Female (N=101) | 1) Male (N=57) | Total (N=158) | p val
## |
```

##	<pre> **Other women that I know recommend the cervical cancer test**</pre>	1				Ι		0.8221
##	1) Strongly Disagree	1	2	(2.0%)	1 (1.8%)	Ι	3 (1.9%)	I
##	2) Disagree	1	4	(4.0%)	3 (5.4%)	Ι	7 (4.5%)	I
##	3) Undecided		30	(29.7%)	21 (37.5%)		51 (32.5%)	I
##	4) Agree		43	(42.6%)	22 (39.3%)		65 (41.4%)	I
##	5) Strongly Agree	1	22	(21.8%)	9 (16.1%)		31 (19.7%)	I
##	<pre> **I would recommend that women get routine testing for cervical cancer**</pre>	1						0.412
##	%nbsp;1) Strongly Disagree	1	3	(3.0%)	1 (1.8%)		4 (2.6%)	I
##	<pre>[  2) Disagree</pre>	1	3	(3.0%)	0 (0.0%)		3 (1.9%)	I
##	3) Undecided	1	11	(11.1%)	3 (5.3%)		14 (9.0%)	I
##	4) Agree	1	33	(33.3%)	25 (43.9%)		58 (37.2%)	I
##	5) Strongly Agree	1	49	(49.5%)	28 (49.1%)	1	77 (49.4%)	I
##	1. Fisher's Exact Test for Count Data with simulated p-value							

## (based on 2000 replicates)

# write2pdf(TA\_ScrnRec\_Gendr, # here('Tables', 'T06\_ScrnRec\_Gendr.pdf')) # write2word(TA\_ScrnRec\_Gendr, # here('Tables', 'T06\_ScrnRec\_Gendr.doc')) # write2html(TA\_ScrnRec\_Gendr, # here('Tables', 'T06\_ScrnRec\_Gendr.html'))

#Supplement 1. Gender roles, perceptions of cancer stigma, cancer attitudes, and healthcare decision making by screening status

```
SocNorms_Scrnd <- Q1804dta_MSJoin %>% select(SDz_Gender, BEz_Screend,
SDz_Educatn, OPz_ScrnWRec, OPz_ScrnRecOthrs, GNz_WRole, GNz_ManDecis,
STz_CAComfNear, STz_CAAbnl, STz_CANeedsPriority, STz_CAPtFault,
STz_CAFeelPity, STz_CADxFear, OPz_CAWorry, ATz_BnfComf, ATz_MyDxSlfKno,
ATz_MyDxFamKno, ATz_FamDxMyKno, ATz_DxFate, DSz_HCSN, DSz_RespGen,
DSz_RespPrtn, DSz_Smrt, DSz_Hnst, DSz_Thret, GNz_WHCDecisAll_01,
GNz_WHCDecisAll_02, OPz_InfluenceWho_01, OPz_InfluenceWho_04,
OPz_InfluenceWho_02, OPz_InfluenceWho_06, OPz_InfluenceWho_09,
HSz_DecTrust_02, HSz_DecTrust_07, HSz_DecTrust_04, HSz_DecTrust_06,
HSz_DecTrust_08, HSz_DecTrust_03, HSz_DecTrust_01) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(BEz_Screend = case_when(BEz_Screend ==
0 ~ "Not Screened", BEz_Screend == 1 ~ "Screened", BEz_Screend ==
2 ~ "Screened x2", BEz_Screend == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(SDz_Educatn = case_when(SDz_Educatn == 0 ~ "0 Low Educ",
```

```
SDz Educatn == 1 ~ "O Low Educ", SDz Educatn == 2 ~ "1 sm Educ",
    SDz_Educatn == 3 ~ "1 sm Educ", SDz_Educatn == 4 ~ "High Educ",
    SDz Educatn == 5 ~ "High Educ", SDz Educatn == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(STz CAAbnl = case when(STz CAAbnl == 1 ~ "1) Strongly Disagree",
    STz CAAbnl == 2 ~ "2) Disagree", STz CAAbnl == 3 ~ "3) Undecided",
    STz CAAbnl == 4 ~ "4) Agree", STz CAAbnl == 5 ~ "5) Strongly Agree")) %>%
mutate(STz CAComfNear = case when(STz CAComfNear == 1 ~ "1) Strongly Disagree",
    STz CAComfNear == 2 ~ "2) Disagree", STz CAComfNear ==
        3 ~ "3) Undecided", STz CAComfNear == 4 ~ "4) Agree",
    STz_CAComfNear == 5 ~ "5) Strongly Agree")) %>% mutate(STz_CANeedsPriority = case_when(STz_CANeedsPriority ==
1 ~ "1) Strongly Disagree", STz_CANeedsPriority == 2 ~ "2) Disagree",
STz_CANeedsPriority == 3 ~ "3) Undecided", STz_CANeedsPriority ==
    4 ~ "4) Agree", STz_CANeedsPriority == 5 ~ "5) Strongly Agree")) %>%
mutate(STz_CAPtFault = case_when(STz_CAPtFault == 1 ~ "1) Strongly Disagree",
    STz CAPtFault == 2 ~ "2) Disagree", STz CAPtFault ==
        3 ~ "3) Undecided", STz_CAPtFault == 4 ~ "4) Agree",
    STz CAPtFault == 5 ~ "5) Strongly Agree")) %>% mutate(STz CAFeelPity = case when(STz CAFeelPity ==
1 ~ "1) Strongly Disagree", STz_CAFeelPity == 2 ~ "2) Disagree",
STz CAFeelPity == 3 ~ "3) Undecided", STz CAFeelPity == 4 ~
    "4) Agree", STz CAFeelPity == 5 ~ "5) Strongly Agree")) %>%
mutate(STz CADxFear = case when(STz CADxFear == 1 ~ "1) Strongly Disagree",
    STz CADxFear == 2 ~ "2) Disagree", STz CADxFear == 3 ~
        "3) Undecided", STz CADxFear == 4 ~ "4) Agree", STz CADxFear ==
        5 ~ "5) Strongly Agree")) %>% mutate(OPz_CAWorry = case_when(OPz_CAWorry ==
1 ~ "1) Strongly Disagree", OPz CAWorry == 2 ~ "2) Disagree",
OPz CAWorry == 3 ~ "3) Undecided", OPz CAWorry == 4 ~ "4) Agree",
OPz_CAWorry == 5 ~ "5) Strongly Agree")) %>% mutate(DSz_RespGen = case_when(DSz_RespGen ==
1 ~ "1) Every day", DSz_RespGen == 2 ~ "2) Every week", DSz_RespGen ==
3 ~ "3) A few times per year", DSz_RespGen == 4 ~ "4) A few times in my life",
DSz_RespGen == 5 ~ "5) Never", DSz_RespGen == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(DSz_RespPrtn = case_when(DSz_RespPrtn == 1 ~ "1) Every day",
    DSz_RespPrtn == 2 ~ "2) Every week", DSz_RespPrtn ==
        3 ~ "3) A few times per year", DSz_RespPrtn == 4 ~
        "4) A few times in my life", DSz_RespPrtn == 5 ~
        "5) Never", DSz RespPrtn == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(DSz Smrt = case when(DSz Smrt == 1 ~ "1) Every day",
    DSz Smrt == 2 ~ "2) Every week", DSz Smrt == 3 ~ "3) A few times per year",
    DSz Smrt == 4 ~ "4) A few times in my life", DSz Smrt ==
```

```
5 ~ "5) Never", DSz Smrt == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(DSz Hnst = case when(DSz Hnst == 1 ~ "1) Every day",
    DSz_Hnst == 2 ~ "2) Every week", DSz_Hnst == 3 ~ "3) A few times per year",
    DSz Hnst == 4 ~ "4) A few times in my life", DSz Hnst ==
        5 ~ "5) Never", DSz_Hnst == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(DSz Thret = case when(DSz Thret == 1 ~ "1) Every day",
    DSz_Thret == 2 ~ "2) Every week", DSz_Thret == 3 ~ "3) A few times per year",
    DSz Thret == 4 ~ "4) A few times in my life", DSz Thret ==
        5 ~ "5) Never", DSz Thret == 99 ~ "Do Not Know / Not Sure")) %>%
mutate(ATz BnfComf = case when(ATz BnfComf == 1 ~ "1) Strongly Disagree",
    ATz BnfComf == 2 ~ "2) Disagree", ATz BnfComf == 3 ~
        "3) Undecided", ATz BnfComf == 4 ~ "4) Agree", ATz BnfComf ==
        5 ~ "5) Strongly Agree")) %>% mutate(ATz_MyDxSlfKno = case_when(ATz_MyDxSlfKno ==
1 ~ "1) Strongly Disagree", ATz_MyDxSlfKno == 2 ~ "2) Disagree",
ATz_MyDxSlfKno == 3 ~ "3) Undecided", ATz_MyDxSlfKno == 4 ~
    "4) Agree", ATz MyDxSlfKno == 5 ~ "5) Strongly Agree")) %>%
mutate(ATz_MyDxFamKno = case_when(ATz_MyDxFamKno == 1 ~ "1) Strongly Disagree",
    ATz_MyDxFamKno == 2 ~ "2) Disagree", ATz_MyDxFamKno ==
        3 ~ "3) Undecided", ATz_MyDxFamKno == 4 ~ "4) Agree",
    ATz_MyDxFamKno == 5 ~ "5) Strongly Agree")) %>% mutate(ATz_FamDxMyKno = case_when(ATz_FamDxMyKno ==
1 ~ "1) Strongly Disagree", ATz_FamDxMyKno == 2 ~ "2) Disagree",
ATz FamDxMyKno == 3 ~ "3) Undecided", ATz FamDxMyKno == 4 ~
    "4) Agree", ATz FamDxMyKno == 5 ~ "5) Strongly Agree")) %>%
mutate(ATz DxFate = case when(ATz DxFate == 1 ~ "1) Strongly Disagree",
    ATz_DxFate == 2 ~ "2) Disagree", ATz_DxFate == 3 ~ "3) Undecided",
    ATz DxFate == 4 ~ "4) Agree", ATz DxFate == 5 ~ "5) Strongly Agree")) %>%
mutate(OPz_ScrnWRec = case_when(OPz_ScrnWRec == 1 ~ "1) Strongly Disagree",
    OPz ScrnWRec == 2 ~ "2) Disagree", OPz ScrnWRec == 3 ~
        "3) Undecided", OPz ScrnWRec == 4 ~ "4) Agree", OPz ScrnWRec ==
        5 ~ "5) Strongly Agree")) %>% mutate(OPz_ScrnRecOthrs = case_when(OPz_ScrnRecOthrs ==
1 ~ "1) Strongly Disagree", OPz_ScrnRecOthrs == 2 ~ "2) Disagree",
OPz ScrnRecOthrs == 3 ~ "3) Undecided", OPz_ScrnRecOthrs ==
    4 ~ "4) Agree", OPz_ScrnRecOthrs == 5 ~ "5) Strongly Agree")) %>%
mutate(GNz_WRole = case_when(GNz_WRole == 1 ~ "1) Strongly Disagree",
    GNz_WRole == 2 ~ "2) Disagree", GNz_WRole == 3 ~ "3) Undecided",
    GNz_WRole == 4 ~ "4) Agree", GNz_WRole == 5 ~ "5) Strongly Agree")) %>%
mutate(GNz_ManDecis = case_when(GNz_ManDecis == 1 ~ "1) Strongly Disagree",
    GNz_ManDecis == 2 ~ "2) Disagree", GNz_ManDecis == 3 ~
```

```
"3) Undecided", GNz_ManDecis == 4 ~ "4) Agree", GNz_ManDecis ==
5 ~ "5) Strongly Agree"))
```

```
TA SocNorms Scrnd <- tableby(BEz Screend ~ fe(OPz ScrnWRec, "countpct") +
    fe(OPz_ScrnRecOthrs, "countpct") + fe(GNz_WRole, "countpct") +
    fe(GNz ManDecis, "countpct") + fe(STz CAComfNear, "countpct") +
    fe(STz_CAAbn1, "countpct") + fe(STz_CANeedsPriority, "countpct") +
    fe(STz CAPtFault, "countpct") + fe(STz CAFeelPity, "countpct") +
    fe(STz CADxFear, "countpct") + fe(OPz CAWorry, "countpct") +
    fe(ATz BnfComf, "countpct") + fe(ATz MyDxSlfKno, "countpct") +
    fe(ATz MyDxFamKno, "countpct") + fe(ATz FamDxMyKno, "countpct") +
    fe(ATz DxFate, "countpct") + fe(DSz HCSN, "countpct") + fe(DSz RespGen,
    "countpct") + fe(DSz RespPrtn, "countpct") + fe(DSz Smrt,
    "countpct") + fe(DSz_Hnst, "countpct") + fe(DSz_Thret, "countpct") +
    fe(GNz_WHCDecisAll_01, "countpct") + fe(GNz_WHCDecisAll_02,
    "countpct") + fe(OPz_InfluenceWho_06, "countpct") + fe(OPz_InfluenceWho_04,
    "countpct") + fe(OPz_InfluenceWho_02, "countpct") + fe(OPz_InfluenceWho_09,
    "countpct") + fe(OPz_InfluenceWho_01, "countpct") + fe(HSz_DecTrust_02,
    "countpct") + fe(HSz_DecTrust_07, "countpct") + fe(HSz_DecTrust_04,
    "countpct") + fe(HSz_DecTrust_06, "countpct") + fe(HSz_DecTrust_08,
    "countpct") + fe(HSz_DecTrust_03, "countpct") + fe(HSz_DecTrust_01,
    "countpct"), simulate.p.value = TRUE, data = SocNorms_Scrnd)
labels(TA SocNorms Scrnd) <- c(STz CAAbnl = "Once youve had cancer youre never normal again.",
    STz CAComfNear = "I would not feel comfortable around someone with cancer.",
    STz CANeedsPriority = "The health care needs of people with cancer should not be prioritized.",
    STz CAPtFault = "If a person has cancer its probably their fault.",
    STz CAFeelPity = " I would feel sorry for someone with cancer.",
    STz CADxFear = "I feel that cancer is more frightening than most other diseases.",
    OPz CAWorry = "Other women often state that they are worried about getting cancer.",
    ATz_BnfComf = "Cancer testing or treatment that is unpleasant is worth getting if it would help me to live longer",
    ATz_MyDxSlfKno = "If I had cancer, I would want to know that I have it",
    ATz_MyDxFamKno = "If I had cancer, I would want my family to know that I have it.",
    ATz_FamDxMyKno = "If someone else in my family had cancer, I would want to know that they have it.",
    ATz_DxFate = "Getting a serious disease like cancer is fate, there is nothing I can do to change fate",
    DSz_RespGen = "Feel treated with less courtesy or respect than others",
   DSz_RespPrtn = "Feel treated with less courtesy or respect by their spouse",
   DSz_Smrt = "Feel that others act as if they are not smart",
```

DSz\_Hnst = "Feel perceived as being dishonest", DSz\_Thret = "Feel threatened by others", OPz ScrnWRec = "Other women that I know recommend the cervical cancer test", OPz ScrnRecOthrs = "I would recommend that women get routine testing for cervical cancer", GNz WRole = "A womans most important role is to take care of her home and cook for her family", GNz ManDecis = "A man should have the final word about decisions in his home", HSz DecTrust 02 = "When making decisions about your healthcare, you most trust your spouse", HSz DecTrust 07 = "When making decisions about your healthcare, you most trust your nurse", HSz DecTrust 04 = "When making decisions about your healthcare, you most trust other family members", HSz DecTrust 06 = "When making decisions about your healthcare, you most trust your physician", HSz\_DecTrust\_08 = "When making decisions about your healthcare, you most trust the community health worker", HSz\_DecTrust\_03 = "When making decisions about your healthcare, you most trust your children", HSz\_DecTrust\_01 = "When making decisions about your healthcare, you most trust yourself", GNz\_WHCDecisAll\_01 = "You have the final say at home regarding your healthcare decisions", GNz\_WHCDecisAll\_02 = "Your spouse has the final say at home regarding your healthcare decisions", OPz\_InfluenceWho\_04 = "The head of the household is most likely to influence your decision to get screened for cervical cancer", OPz\_InfluenceWho\_01 = "No one other than you will influence your decision to get screened for cervical cancer", OPz\_InfluenceWho\_02 = "Your spouse is most likely to influence your decision to get screened for cervical cancer", OPz\_InfluenceWho\_09 = "The nurse is most likely to influence your decision to get screened for cervical cancer", OPz InfluenceWho 06 = "Other family members are most likely to influence your decision to get screened for cervical cancer", OPz\_ScrnWRec = "Other women that I know recommend the cervical cancer test", OPz ScrnRecOthrs = "I would recommend that women get routine testing for cervical cancer", GNz WRole = "A womans most important role is to take care of her home and cook for her family", GNz ManDecis = "A man should have the final word about decisions in his home")

summary(TA\_SocNorms\_Scrnd, title = "Arsenal Table 18Q04", pfootnote = TRUE)

##

#### ## Table: Arsenal Table 18Q04 ## ## | | Not Screened (N=85) | So ## |:----·----·| ## |\*\*Other women that I know recommend the cervical cancer test\*\* ## | 1) Strongly Disagree 1(1.2%)2 (2.4%) ## | 2) Disagree ## | 3) Undecided 28 (32.9%) ## | 4) Agree 36 (42.4%) ## | 5) Strongly Agree 18 (21.2%) ## |\*\*I would recommend that women get routine testing for cervical cancer\*\*

##	%nbsp;1) Strongly Disagree	2	(2.4%)
##	2) Disagree	3	(3.6%)
##	3) Undecided	11	(13.1%)
##	4) Agree	31	(36.9%)
##	%) Strongly Agree	37	(44.0%)
##	<pre> **A womans most important role is to take care of her home and cook for her family**</pre>		
##	1) Strongly Disagree	5	(6.0%)
##	2) Disagree	21	(25.0%)
##	3) Undecided	1	(1.2%)
##	&) Agree	7	(8.3%)
##	5) Strongly Agree	50	(59.5%)
##	<pre> **A man should have the final word about decisions in his home**</pre>		
##	%) Strongly Disagree	6	(7.1%)
##	2) Disagree	20	(23.5%)
##	&) Undecided	1	(1.2%)
##	&) Agree	12	(14.1%)
##	5) Strongly Agree	46	(54.1%)
##	<pre> **I would not feel comfortable around someone with cancer.**</pre>		
##	%nbsp;1) Strongly Disagree	4	(4.7%)
##	%) Disagree	41	(48.2%)
##	&) Undecided	0	(0.0%)
##	&) Agree	19	(22.4%)
##	5) Strongly Agree	21	(24.7%)
##	**Once youve had cancer youre never normal again.**		
##	%nbsp;1) Strongly Disagree	1	(1.2%)
##	2) Disagree	7	(8.2%)
##	3) Undecided	2	(2.4%)
##	&) Agree	29	(34.1%)
##	5) Strongly Agree	46	(54.1%)
##	<pre> **The health care needs of people with cancer should not be prioritized.**</pre>		
##	%nbsp;1) Strongly Disagree	6	(7.1%)
##	2) Disagree	20	(23.8%)
##	&) Undecided	3	(3.6%)
##	4) Agree	29	(34.5%)
##	% Strongly Agree	26	(31.0%)
##	**If a person has cancer its probably their fault.**		
##	1) Strongly Disagree	8	(9.4%)
##	<pre>  2) Disagree</pre>	38	(44.7%)
##	3) Undecided	4	(4.7%)

##	&) Agree	16	(18.8%)
##	5) Strongly Agree	19	(22.4%)
##	<pre> **I would feel sorry for someone with cancer.**</pre>		
##	1) Strongly Disagree	1	(1.2%)
##	2) Disagree	9	(10.6%)
##	&) Agree	41	(48.2%)
##	5) Strongly Agree	34	(40.0%)
##	<pre> **I feel that cancer is more frightening than most other diseases.**</pre>		
##	2) Disagree	9	(10.7%)
##	3) Undecided	4	(4.8%)
##	&) Agree	30	(35.7%)
##	5) Strongly Agree	41	(48.8%)
##	<pre> **Other women often state that they are worried about getting cancer.**</pre>		l
##	2) Disagree	2	(2.4%)
##	3) Undecided	22	(25.9%)
##	&) Agree	23	(27.1%)
##	5) Strongly Agree	38	(44.7%)
##	<pre> **Cancer testing or treatment that is unpleasant is worth getting if it would help me to live longer**</pre>		
##	1) Strongly Disagree	2	(2.4%)
##	2) Disagree	7	(8.2%)
##	3) Undecided	9	(10.6%)
##	&) Agree	39	(45.9%)
##	5) Strongly Agree	28	(32.9%)
##	<pre> **If I had cancer, I would want to know that I have it**</pre>		l
##	1) Strongly Disagree	1	(1.2%)
##	2) Disagree	5	(5.9%)
##	&) Agree	37	(43.5%)
##	5) Strongly Agree	42	(49.4%)
##	<pre> **If I had cancer, I would want my family to know that I have it.**</pre>		
##	1) Strongly Disagree	7	(8.2%)
##	2) Disagree	15	(17.6%)
##	3) Undecided	3	(3.5%)
##	&) Agree	36	(42.4%)
##	5) Strongly Agree	24	(28.2%)
##	<pre> **If someone else in my family had cancer, I would want to know that they have it.**</pre>	I	l
##	1) Strongly Disagree	2	(2.4%)
##	2) Disagree	23	(27.4%)
##	&) Agree	34	(40.5%)
##	5) Strongly Agree	25	(29.8%)

##	**Getting a serious disease like cancer is fate, there is nothing I can do to change fate**		I
##	1) Strongly Disagree	16	(18.8%)
##	2) Disagree	23	(27.1%)
##	3) Undecided	6	(7.1%)
##	l  &l) Agree	29	(34.1%)
##	5) Strongly Agree	11	(12.9%)
##	**DSz_HCSN**	l	l
##	l  0	69	(83.1%)
##	l  1	13	(15.7%)
##	l  2	1	(1.2%)
##	**Feel treated with less courtesy or respect than others**		I
##	1) Every day	9	(10.8%)
##	l   2) Every week	2	(2.4%)
##	3) A few times per year	6	(7.2%)
##	4) A few times in my life	17	(20.5%)
##	l   5) Never	49	(59.0%)
##	**Feel treated with less courtesy or respect by their spouse**	l	I
##	l   1) Every day	11	(13.3%)
##	lånbsp;ånbsp;2) Every week	4	(4.8%)
##	3) A few times per year	14	(16.9%)
##	4) A few times in my life	15	(18.1%)
##	l   5) Never	39	(47.0%)
##	**Feel that others act as if they are not smart**	l	I
##	l  %nbsp;1) Every day	1	(1.2%)
##	lånbsp;ånbsp;2) Every week	1	(1.2%)
##	3) A few times per year	4	(4.7%)
##	4) A few times in my life	14	(16.5%)
##	l   5) Never	65	(76.5%)
##	**Feel perceived as being dishonest**		I
##	3) A few times per year	1	(1.2%)
##	4) A few times in my life	9	(10.7%)
##	l   5) Never	74	(88.1%)
##	**Feel threatened by others**		I
##	l  1) Every day	1	(1.2%)
##	3) A few times per year	2	(2.4%)
##	4) A few times in my life	14	(16.9%)
##	l   5) Never	66	(79.5%)
##	**You have the final say at home regarding your healthcare decisions**		I
##	No	73	(86.9%)

##	Yes	11	(13.1%)
##	<pre> **Your spouse has the final say at home regarding your healthcare decisions**</pre>		
##	No	21	(25.0%)
##	Yes	63	(75.0%)
##	<pre> **Other family members are most likely to influence your decision to get screened for cervical cancer**</pre>		
##	No	76	(89.4%)
##	Yes	9	(10.6%)
##	**The head of the household is most likely to influence your decision to get screened for cervical cancer**		
##	No	37	(43.5%)
##	Yes	48	(56.5%)
##	<pre> **Your spouse is most likely to influence your decision to get screened for cervical cancer**</pre>		
##	No	81	(95.3%)
##	Yes	4	(4.7%)
##	<pre>**The nurse is most likely to influence your decision to get screened for cervical cancer**</pre>		
##	No	84	(98.8%)
##	Yes	1	(1.2%)
##	<pre> **No one other than you will influence your decision to get screened for cervical cancer**</pre>		
##	No	56	(65.9%)
##	Yes	29	(34.1%)
##	<pre> **When making decisions about your healthcare, you most trust your spouse**</pre>		
##	No	43	(50.6%)
##	Yes	42	(49.4%)
##	<pre> **When making decisions about your healthcare, you most trust your nurse**</pre>		
##	No	70	(82.4%)
##	Yes	15	(17.6%)
##	**When making decisions about your healthcare, you most trust other family members**		( <b>/</b> /)
##	No	71	(83.5%)
##	l  Yes	14	(16.5%)
##	<pre> **When making decisions about your healthcare, you most trust your physician**</pre>		
##	No	84	(98.8%)
##	Yes	1	(1.2%)
##	**When making decisions about your healthcare, you most trust the community health worker**		
##	No	85	(100.0%)
##	<pre> **When making decisions about your healthcare, you most trust your children**</pre>		
##	No	75	(88.2%)
##	<pre>/anosp;anosp;res</pre>	10	(11.8%)
##	<pre> **Wnen making decisions about your healthcare, you most trust yourself**</pre>		
##	andsp; andsp; andsp; No	78	(91.8%)
##	Yes	7	(8.2%)

## 1. Fisher's Exact Test for Count Data with simulated p-value

- ## (based on 2000 replicates)
- ## 2. Fisher's Exact Test for Count Data

```
# write2pdf(TA_SocNorms_Scrnd,
# here('Tables', 'Sup_01_SocNorms_Scrnd.pdf'))
# write2word(TA_SocNorms_Scrnd,
# here('Tables', 'Sup_01_SocNorms_Scrnd.doc'))
# write2html(TA_SocNorms_Scrnd,
# here('Tables', 'Sup_01_SocNorms_Scrnd.html'))
```

#Supplement 2. Perception of gender roles by gender with effect modification by education

```
Power_Gendr_Ed <- Q1804dta_MSJoin %>% select(SDz_Gender, SDz_Educatn,
    OPz_ScrnWRec, OPz_ScrnRecOthrs, GNz_WRole, GNz_ManDecis,
    OPz_InfluenceWho_01, OPz_InfluenceWho_04, OPz_InfluenceWho_02,
    OPz_InfluenceWho_06, OPz_InfluenceWho_09, HSz_DecTrust_02,
    HSz_DecTrust_07, HSz_DecTrust_04, HSz_DecTrust_06, HSz_DecTrust_08,
    HSz_DecTrust_03, HSz_DecTrust_01, GNz_WHCDecisAll_01, GNz_WHCDecisAll_02) %>%
    mutate(SDz_Gender = case_when(SDz_Gender == 0 ~ "0) Female",
        SDz_Gender == 1 ~ "1) Male")) %>% mutate(OPz_ScrnWRec = case_when(OPz_ScrnWRec ==
    1 ~ "1) Strongly Disagree", OPz ScrnWRec == 2 ~ "2) Disagree",
    OPz ScrnWRec == 3 ~ "3) Undecided", OPz ScrnWRec == 4 ~ "4) Agree",
    OPz ScrnWRec == 5 ~ "5) Strongly Agree")) %>% mutate(OPz ScrnRecOthrs = case when(OPz ScrnRecOthrs ==
    1 ~ "1) Strongly Disagree", OPz ScrnRecOthrs == 2 ~ "2) Disagree",
    OPz ScrnRecOthrs == 3 ~ "3) Undecided", OPz ScrnRecOthrs ==
        4 ~ "4) Agree", OPz ScrnRecOthrs == 5 ~ "5) Strongly Agree")) %>%
    mutate(GNz WRole = case when(GNz WRole == 1 ~ "1) Strongly Disagree",
        GNz_WRole == 2 ~ "2) Disagree", GNz_WRole == 3 ~ "3) Undecided",
        GNz_WRole == 4 ~ "4) Agree", GNz_WRole == 5 ~ "5) Strongly Agree")) %>%
    mutate(GNz_ManDecis = case_when(GNz_ManDecis == 1 ~ "1) Strongly Disagree",
       GNz ManDecis == 2 ~ "2) Disagree", GNz ManDecis == 3 ~
            "3) Undecided", GNz_ManDecis == 4 ~ "4) Agree", GNz_ManDecis ==
            5 ~ "5) Strongly Agree")) %>% mutate(SDz Educatn = case when(SDz Educatn ==
    0 ~ "O Low Educ", SDz_Educatn == 1 ~ "O Low Educ", SDz_Educatn ==
    2 ~ "1 Higher Educ", SDz_Educatn == 3 ~ "1 Higher Educ",
    SDz_Educatn == 4 ~ "1 Higher Educ", SDz_Educatn == 5 ~ "1 Higher Educ",
    SDz Educatn == 99 ~ "Do Not Know / Not Sure"))
```

```
TA_Power_Gendr_Ed <- tableby(interaction(SDz_Gender, SDz_Educatn) ~
    fe(GNz_WRole, "countpct") + fe(GNz_ManDecis, "countpct"),
    simulate.p.value = TRUE, data = Power_Gendr_Ed)</pre>
```

.....

labels(TA\_Power\_Gendr\_Ed) <- c(GNz\_WRole = "A womans most important role is to take care of her home and cook for her family", GNz\_ManDecis = "A man should have the final word about decisions in his home")

summary(TA\_Power\_Gendr\_Ed, title = "Arsenal Table 18Q04", pfootnote = TRUE)

##

##	lable: Arsenal lable 18404				
##					
##		0) Female.	O Low Educ (N=61)	1) Male.0	Low Edu
##	:	:	:	:	
##	<pre> **A womans most important role is to take care of her home and cook for her family**</pre>	1		1	
##	1) Strongly Disagree	4	(6.7%)	1	(3.8%)
##	2) Disagree	7	(11.7%)	1	(3.8%)
##	3) Undecided	2	(3.3%)	2	(7.7%)
##	4) Agree	6	(10.0%)	14	(53.8%)
##	5) Strongly Agree	41	(68.3%)	8	(30.8%)
##	<pre> **A man should have the final word about decisions in his home**</pre>			I	
##	1) Strongly Disagree	7	(11.5%)	1	(3.8%)
##	2) Disagree	9	(14.8%)	0	(0.0%)
##	3) Undecided	1	(1.6%)	0	(0.0%)
##	4) Agree	9	(14.8%)	11	(42.3%)
##	5) Strongly Agree	35	(57.4%)	l 14	(53.8%)
##	1. Fisher's Exact Test for Count Data with simulated p-value				

## (based on 2000 replicates)

# write2pdf(TA\_Power\_Gendr\_Ed, # here('Tables', 'SO2\_Power\_Gendr\_Ed.pdf')) # write2word(TA\_Power\_Gendr\_Ed, # here('Tables', 'SO2\_Power\_Gendr\_Ed.doc')) # write2html(TA\_Power\_Gendr\_Ed, # here('Tables', 'SO2\_Power\_Gendr\_Ed.html'))

#Supplement 3. Adapted everyday discrimination scale by gender with effect modification by education.

```
Discr_Gendr_Ed <- Q1804dta_MSJoin %>% select(SDz_Gender, SDz_Educatn,
    DSz_RespGen, DSz_RespPrtn, DSz_Smrt, DSz_Hnst, DSz_Thret) %>%
    mutate(SDz_Gender = case_when(SDz_Gender == 0 ~ "0) Female",
       SDz_Gender == 1 ~ "1) Male")) %>% mutate(DSz_RespGen = case_when(DSz_RespGen ==
    1 ~ "1) Every day", DSz_RespGen == 2 ~ "2) Every week", DSz_RespGen ==
    3 ~ "3) A few times per year", DSz RespGen == 4 ~ "4) A few times in my life",
    DSz_RespGen == 5 ~ "5) Never", DSz_RespGen == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz RespPrtn = case when(DSz RespPrtn == 1 ~ "1) Every day",
       DSz_RespPrtn == 2 ~ "2) Every week", DSz_RespPrtn ==
            3 ~ "3) A few times per year", DSz RespPrtn == 4 ~
            "4) A few times in my life", DSz RespPrtn == 5 ~
            "5) Never", DSz RespPrtn == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz Smrt = case when(DSz Smrt == 1 ~ "1) Every day",
        DSz_Smrt == 2 ~ "2) Every week", DSz_Smrt == 3 ~ "3) A few times per year",
        DSz_Smrt == 4 ~ "4) A few times in my life", DSz_Smrt ==
            5 ~ "5) Never", DSz_Smrt == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz_Hnst = case_when(DSz_Hnst == 1 ~ "1) Every day",
        DSz_Hnst == 2 ~ "2) Every week", DSz_Hnst == 3 ~ "3) A few times per year",
        DSz_Hnst == 4 ~ "4) A few times in my life", DSz_Hnst ==
            5 ~ "5) Never", DSz_Hnst == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(DSz_Thret = case_when(DSz_Thret == 1 ~ "1) Every day",
        DSz_Thret == 2 ~ "2) Every week", DSz_Thret == 3 ~ "3) A few times per year",
        DSz_Thret == 4 ~ "4) A few times in my life", DSz_Thret ==
            5 ~ "5) Never", DSz Thret == 99 ~ "Do Not Know / Not Sure")) %>%
    mutate(SDz_Educatn = case_when(SDz_Educatn == 0 ~ "0 Low Educ",
        SDz Educatn == 1 ~ "O Low Educ", SDz Educatn == 2 ~ "1 Higher Educ",
        SDz_Educatn == 3 ~ "1 Higher Educ", SDz_Educatn == 4 ~
            "1 Higher Educ", SDz Educatn == 5 ~ "1 Higher Educ",
        SDz Educatn == 99 ~ "Do Not Know / Not Sure"))
TA_Discr_Gendr_Ed <- tableby(interaction(SDz_Gender, SDz_Educatn) ~
    fe(DSz_RespGen, "countpct") + fe(DSz_RespPrtn, "countpct") +
       fe(DSz_Smrt, "countpct") + fe(DSz_Hnst, "countpct") +
       fe(DSz_Thret, "countpct"), simulate.p.value = TRUE, data = Discr_Gendr_Ed)
labels(TA_Discr_Gendr_Ed) <- c(DSz_RespGen = "Feel treated with less courtesy or respect than others",
   DSz_RespPrtn = "Feel treated with less courtesy or respect by their spouse",
   DSz_Smrt = "Feel that others act as if they are not smart",
```

DSz\_Hnst = "Feel perceived as being dishonest", DSz\_Thret = "Feel threatened by others")

summary(TA\_Discr\_Gendr\_Ed, title = "Arsenal Table 18Q04", pfootnote = TRUE)

#### ##

## Table: Arsenal Table 18Q04

##						
##	1	0) Female.0	) Low Educ (N=61)	1) Male.0	Low Educ (N=26)	0) Female.1
##	:	:	:	:	:	:   :
##	**Feel treated with less courtesy or respect than others**			1		1
##	1) Every day	6	(10.2%)	0	(0.0%)	1
##	2) Every week	1	(1.7%)	0	(0.0%)	1
##	3) A few times per year	6	(10.2%)	0	(0.0%)	1
##	4) A few times in my life	7	(11.9%)	3	(12.5%)	1 :
##	%nbsp;5) Never	39	(66.1%)	21	(87.5%)	2
##	<pre> **Feel treated with less courtesy or respect by their spouse**  </pre>			1		1
##	%nbsp;1) Every day	10	(16.9%)	0	(0.0%)	4
##	2) Every week	4	(6.8%)	0	(0.0%)	1
##	3) A few times per year	9	(15.3%)	1	(4.5%)	6
##	4) A few times in my life	7	(11.9%)	5	(22.7%)	:
##	5) Never	29	(49.2%)	16	(72.7%)	:
##	**Feel that others act as if they are not smart**			1		1
##	1) Every day	1	(1.6%)	0	(0.0%)	1
##	2) Every week	0	(0.0%)	0	(0.0%)	1
##	3) A few times per year	3	(4.9%)	3	(12.5%)	1
##	4) A few times in my life	3	(4.9%)	6	(25.0%)	:
##	5) Never	54	(88.5%)	15	(62.5%)	
##	**Feel perceived as being dishonest**			1		1
##	3) A few times per year	1	(1.7%)	0	(0.0%)	1
##	4) A few times in my life	2	(3.3%)	5	(25.0%)	(
##	5) Never	57	(95.0%)	15	(75.0%)	3
##	**Feel threatened by others**			1		1
##	1) Every day	1	(1.7%)	0	(0.0%)	1
##	3) A few times per year	3	(5.1%)	1	(4.8%)	1
##	<pre>   4) A few times in my life</pre>	6	(10.2%)	4	(19.0%)	:
##	5) Never	49	(83.1%)	16	(76.2%)	3
##	1. Fisher's Exact Test for Count Data with simulated p-value					

## (based on 2000 replicates)

# write2pdf(TA\_Discr\_Gendr\_Ed, # here('Tables','SO3\_Discr\_Gendr\_Ed.pdf')) # write2word(TA\_Discr\_Gendr\_Ed, # here('Tables','SO3\_Discr\_Gendr\_Ed.doc')) # write2html(TA\_Discr\_Gendr\_Ed, # here('Tables','SO3\_Discr\_Gendr\_Ed.html'))

#Supplement 4. Adapted cancer stigma scale by gender with effect modification by education.

```
Stgma Gendr Ed <- Q1804dta MSJoin %>% select(SDz Gender, SDz Educatn,
    STz_CAAbnl, STz_CAComfNear, STz_CANeedsPriority, STz_CAPtFault,
    STz_CAFeelPity, STz_CADxFear, OPz_CAWorry) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
    0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(STz_CAAbnl = case_when(STz_CAAbnl ==
    1 ~ "1) Strongly Disagree", STz_CAAbnl == 2 ~ "2) Disagree",
    STz_CAAbnl == 3 ~ "3) Undecided", STz_CAAbnl == 4 ~ "4) Agree",
    STz_CAAbnl == 5 ~ "5) Strongly Agree")) %>% mutate(STz_CAComfNear = case_when(STz_CAComfNear ==
    1 ~ "1) Strongly Disagree", STz_CAComfNear == 2 ~ "2) Disagree",
    STz CAComfNear == 3 ~ "3) Undecided", STz CAComfNear == 4 ~
        "4) Agree", STz_CAComfNear == 5 ~ "5) Strongly Agree")) %>%
    mutate(STz CANeedsPriority = case when(STz CANeedsPriority ==
        1 ~ "1) Strongly Disagree", STz_CANeedsPriority == 2 ~
        "2) Disagree", STz CANeedsPriority == 3 ~ "3) Undecided",
       STz CANeedsPriority == 4 ~ "4) Agree", STz CANeedsPriority ==
            5 ~ "5) Strongly Agree")) %>% mutate(STz CAPtFault = case when(STz CAPtFault ==
    1 ~ "1) Strongly Disagree", STz CAPtFault == 2 ~ "2) Disagree",
    STz_CAPtFault == 3 ~ "3) Undecided", STz_CAPtFault == 4 ~
        "4) Agree", STz CAPtFault == 5 ~ "5) Strongly Agree")) %>%
    mutate(STz_CAFeelPity = case_when(STz_CAFeelPity == 1 ~ "1) Strongly Disagree",
        STz_CAFeelPity == 2 ~ "2) Disagree", STz_CAFeelPity ==
            3 ~ "3) Undecided", STz_CAFeelPity == 4 ~ "4) Agree",
        STz_CAFeelPity == 5 ~ "5) Strongly Agree")) %>% mutate(STz_CADxFear = case_when(STz_CADxFear ==
    1 ~ "1) Strongly Disagree", STz CADxFear == 2 ~ "2) Disagree",
    STz_CADxFear == 3 ~ "3) Undecided", STz_CADxFear == 4 ~ "4) Agree",
    STz CADxFear == 5 ~ "5) Strongly Agree")) %% mutate(OPz CAWorry = case when(OPz CAWorry ==
    1 ~ "1) Strongly Disagree", OPz_CAWorry == 2 ~ "2) Disagree",
    OPz CAWorry == 3 ~ "3) Undecided", OPz CAWorry == 4 ~ "4) Agree",
    OPz CAWorry == 5 ~ "5) Strongly Agree")) %>% mutate(SDz Educatn = case when(SDz Educatn ==
    0 ~ "O Low Educ", SDz Educatn == 1 ~ "O Low Educ", SDz Educatn ==
```

```
2 ~ "1 Higher Educ", SDz_Educatn == 3 ~ "1 Higher Educ",
   SDz_Educatn == 4 ~ "1 Higher Educ", SDz_Educatn == 5 ~ "1 Higher Educ",
    SDz Educatn == 99 ~ "Do Not Know / Not Sure"))
TA Stgma Gendr Ed <- tableby(interaction(SDz Gender, SDz Educatn) ~
    fe(STz_CAComfNear, "countpct") + fe(STz_CAAbnl, "countpct") +
       fe(STz CANeedsPriority, "countpct") + fe(STz CAPtFault,
        "countpct") + fe(STz_CAFeelPity, "countpct") + fe(STz_CADxFear,
       "countpct") + fe(OPz CAWorry, "countpct"), simulate.p.value = TRUE,
    data = Stgma_Gendr_Ed)
labels(TA_Stgma_Gendr_Ed) <- c(STz_CAAbnl = "Once youve had cancer youre never normal again.",
    STz_CAComfNear = "I would not feel comfortable around someone with cancer.",
   STz_CANeedsPriority = "The health care needs of people with cancer should not be prioritized.",
   STz_CAPtFault = "If a person has cancer its probably their fault.",
   STz_CAFeelPity = " I would feel sorry for someone with cancer.",
   STz_CADxFear = "I feel that cancer is more frightening than most other diseases.",
    OPz_CAWorry = "Other women often state that they are worried about getting cancer.")
```

summary(TA\_Stgma\_Gendr\_Ed, title = "Arsenal Table 18Q04", pfootnote = TRUE)

#### ##

##	Table: Arsenal Table 18Q04					
##						
##		O) H	Female.O Low Educ (N	=61)   1) M	Male.0 Low Educ (N=	26)
##	:	:		: :		:
##	<pre> **I would not feel comfortable around someone with cancer.**</pre>	I		I		ļ
##	1) Strongly Disagree	I	7 (11.5%)	I	2 (7.7%)	ļ
##	2) Disagree	I	21 (34.4%)	I	20 (76.9%)	ļ
##	3) Undecided	I	0 (0.0%)	I	2 (7.7%)	ļ
##	4) Agree	I	13 (21.3%)	I	2 (7.7%)	ļ
##	5) Strongly Agree	I	20 (32.8%)	I	0 (0.0%)	ļ
##	<pre> **Once youve had cancer youre never normal again.**</pre>	I		I		ļ
##	1) Strongly Disagree	I	1 (1.6%)	I	1 (3.8%)	ļ
##	2) Disagree	I	3 (4.9%)	I	6 (23.1%)	ļ
##	3) Undecided	I	1 (1.6%)	I	6 (23.1%)	ļ
##	4) Agree	I	18 (29.5%)	I	10 (38.5%)	ļ
##	Snbsp;5) Strongly Agree	1	38 (62.3%)	1	3 (11.5%)	

##	<pre> **The health care needs of people with cancer should not be prioritized.**  </pre>			I	
##	<pre>   1) Strongly Disagree  </pre>	7	(11.5%)	5	(19.2%)
##	2) Disagree	14	(23.0%)	18	(69.2%)
##	3) Undecided	3	(4.9%)	1	(3.8%)
##	4) Agree	17	(27.9%)	2	(7.7%)
##	5) Strongly Agree	20	(32.8%)	I 0	(0.0%)
##	<pre> **If a person has cancer its probably their fault.**</pre>			I	
##	<pre>   1) Strongly Disagree  </pre>	8	(13.1%)	4	(15.4%)
##	2) Disagree	17	(27.9%)	13	(50.0%)
##	3) Undecided	3	(4.9%)	8	(30.8%)
##	&) Agree	13	(21.3%)	1	(3.8%)
##	<pre>   5) Strongly Agree</pre>	20	(32.8%)	I 0	(0.0%)
##	<pre> **I would feel sorry for someone with cancer.**</pre>			I	
##	<pre>   1) Strongly Disagree</pre>	0	(0.0%)	2	(7.7%)
##	<pre>   2) Disagree</pre>	9	(14.8%)	1	(3.8%)
##	&) Agree	28	(45.9%)	12	(46.2%)
##	<pre>   5) Strongly Agree</pre>	24	(39.3%)	11	(42.3%)
##	<pre> **I feel that cancer is more frightening than most other diseases.**</pre>			I	
##	1) Strongly Disagree	0	(0.0%)	1	(3.8%)
##	2) Disagree	5	(8.2%)	4	(15.4%)
##	3) Undecided	2	(3.3%)	3	(11.5%)
##	&) Agree	24	(39.3%)	11	(42.3%)
##	5) Strongly Agree	30	(49.2%)	7	(26.9%)
##	<pre> **Other women often state that they are worried about getting cancer.**</pre>			I	
##	<pre>   1) Strongly Disagree</pre>	0	(0.0%)	1	(3.8%)
##	<pre>   2) Disagree</pre>	2	(3.3%)	I 0	(0.0%)
##	3) Undecided	11	(18.0%)	15	(57.7%)
##	&) Agree	12	(19.7%)	8	(30.8%)
##	5) Strongly Agree	36	(59.0%)	2	(7.7%)

## 1. Fisher's Exact Test for Count Data with simulated p-value

## (based on 2000 replicates)

# write2pdf(TA\_Stgma\_Gendr\_Ed, # here('Tables','SO4\_Stgma\_Gendr\_Ed.pdf')) # write2word(TA\_Stgma\_Gendr\_Ed, # here('Tables','SO4\_Stgma\_Gendr\_Ed.doc')) # write2html(TA\_Stgma\_Gendr\_Ed,

# here('Tables', 'S04\_Stgma\_Gendr\_Ed.html'))

#Supplement 5. Cancer Attitudes by gender with effect modification by education.

```
Attd Gendr Ed <- Q1804dta MSJoin %>% select(SDz Gender, SDz Educatn,
    BEz_Screend, ATz_BnfComf, ATz_MyDxSlfKno, ATz_MyDxFamKno,
    ATz_FamDxMyKno, ATz_DxFate) %>% mutate(SDz_Gender = case_when(SDz_Gender ==
    0 ~ "0) Female", SDz_Gender == 1 ~ "1) Male")) %>% mutate(ATz_BnfComf = case_when(ATz_BnfComf ==
    1 ~ "1) Strongly Disagree", ATz_BnfComf == 2 ~ "2) Disagree",
    ATz_BnfComf == 3 ~ "3) Undecided", ATz_BnfComf == 4 ~ "4) Agree",
    ATz_BnfComf == 5 ~ "5) Strongly Agree")) %>% mutate(ATz_MyDxSlfKno = case_when(ATz_MyDxSlfKno ==
    1 ~ "1) Strongly Disagree", ATz MyDxSlfKno == 2 ~ "2) Disagree",
    ATz_MyDxSlfKno == 3 ~ "3) Undecided", ATz_MyDxSlfKno == 4 ~
        "4) Agree", ATz_MyDxSlfKno == 5 ~ "5) Strongly Agree")) %>%
    mutate(ATz_MyDxFamKno = case_when(ATz_MyDxFamKno == 1 ~ "1) Strongly Disagree",
       ATz_MyDxFamKno == 2 ~ "2) Disagree", ATz_MyDxFamKno ==
            3 ~ "3) Undecided", ATz_MyDxFamKno == 4 ~ "4) Agree",
        ATz_MyDxFamKno == 5 ~ "5) Strongly Agree")) %>% mutate(ATz_FamDxMyKno = case_when(ATz_FamDxMyKno ==
    1 ~ "1) Strongly Disagree", ATz_FamDxMyKno == 2 ~ "2) Disagree",
    ATz_FamDxMyKno == 3 ~ "3) Undecided", ATz_FamDxMyKno == 4 ~
        "4) Agree", ATz_FamDxMyKno == 5 ~ "5) Strongly Agree")) %>%
    mutate(ATz_DxFate = case_when(ATz_DxFate == 1 ~ "1) Strongly Disagree",
        ATz_DxFate == 2 ~ "2) Disagree", ATz_DxFate == 3 ~ "3) Undecided",
        ATz_DxFate == 4 ~ "4) Agree", ATz_DxFate == 5 ~ "5) Strongly Agree")) %>%
    mutate(SDz_Educatn = case_when(SDz_Educatn == 0 ~ "0 Low Educ",
        SDz_Educatn == 1 ~ "O Low Educ", SDz_Educatn == 2 ~ "1 Higher Educ",
        SDz_Educatn == 3 ~ "1 Higher Educ", SDz_Educatn == 4 ~
            "1 Higher Educ", SDz Educatn == 5 ~ "1 Higher Educ",
        SDz Educatn == 99 ~ "Do Not Know / Not Sure"))
TA_Attd_Gendr_Ed <- tableby(interaction(SDz_Gender, SDz_Educatn) ~
    fe(ATz_BnfComf, "countpct") + fe(ATz_MyDxSlfKno, "countpct") +
       fe(ATz_MyDxFamKno, "countpct") + fe(ATz_FamDxMyKno, "countpct") +
       fe(ATz_DxFate, "countpct"), simulate.p.value = TRUE,
    data = Attd Gendr Ed)
labels(TA_Attd_Gendr_Ed) <- c(ATz_BnfComf = "Cancer testing or treatment that is unpleasant is worth getting if it would help me to live ]
    ATz_MyDxSlfKno = "If I had cancer, I would want to know that I have it",
    ATz_MyDxFamKno = "If I had cancer, I would want my family to know that I have it.",
```

ATz\_FamDxMyKno = "If someone else in my family had cancer, I would want to know that they have it.",

```
ATz_DxFate = "Getting a serious disease like cancer is fate, there is nothing I can do to change fate")
```

summary(TA\_Attd\_Gendr\_Ed, title = "Arsenal Table 18Q04", pfootnote = TRUE)

## ##

##	Table: Arsenal Table 18Q04		
##			
## ##	۱ ۱۰	0) Female.0	) LOW Educ (N=61)
## ##	1	 	
## ##	Inden inden inden in trading of the tonger of the tonger of the tonger in the tonger of	   2	(3, 3%)
##	lunban: unban: 2) Disagree		(3, 3%)
##	lunbsp;unbsp;unbsp;2/ bisagicc		(6, 6%)
##	lønbsp:ønbsp;enbsp;0) ondeerded	1 25	(41 0%)
##	lunsp;unsp;unsp;i/ ngree	28	(45.9%)
##	<pre>1**If I had cancer. I would want to know that I have it**</pre>	20	(10.0%)
##	knbsp:knbsp:lbsp:1) Strongly Disagree	0	(0, 0%)
##	knbsp:knbsp:2) Disagree		(3,3%)
##	knbsp:knbsp:knbsp:3) Undecided		(0.0%)
##	: :&hbsp:4) Agree	23	(38.3%)
##	5) Strongly Agree	35	(58.3%)
##	**If I had cancer, I would want my family to know that I have it.**		
##	1) Strongly Disagree	9	(14.8%)
##	2) Disagree	8	(13.1%)
##	&) Undecided	2	(3.3%)
##	&) Agree	24	(39.3%)
##	5) Strongly Agree	18	(29.5%)
##	**If someone else in my family had cancer, I would want to know that they have it.**		
##	%nbsp;1) Strongly Disagree	3	(5.0%)
##	&) Disagree	15	(25.0%)
##	&) Agree	19	(31.7%)
##	%nbsp;5) Strongly Agree	23	(38.3%)
##	<pre> **Getting a serious disease like cancer is fate, there is nothing I can do to change fate**</pre>		
##	1) Strongly Disagree	21	(34.4%)
##	2) Disagree	11	(18.0%)
##	3) Undecided	3	(4.9%)
##	&) Agree	21	(34.4%)
##	5) Strongly Agree	5	(8.2%)
##	1. Fisher's Exact Test for Count Data with simulated p-value		
##	(based on 2000 replicates)		

# write2pdf(TA\_Attd\_Gendr\_Ed, # here('Tables','S05\_Attd\_Gendr\_Ed.pdf')) # write2word(TA\_Attd\_Gendr\_Ed, # here('Tables','S05\_Attd\_Gendr\_Ed.doc')) # write2html(TA\_Attd\_Gendr\_Ed, # here('Tables','S05 Attd\_Gendr\_Ed.html'))

#Supplement 6. Cervical cancer screening recommendation by gender with effect modification by education.

```
ScrnRec_Gendr_Ed <- Q1804dta_MSJoin %>% select(SDz_Gender, SDz_Educatn,
    OPz_ScrnWRec, OPz_ScrnRecOthrs, GNz_WRole, GNz_ManDecis,
    OPz_InfluenceWho_01, OPz_InfluenceWho_04, OPz_InfluenceWho_02,
    OPz_InfluenceWho_06, OPz_InfluenceWho_09, HSz_DecTrust_02,
    HSz_DecTrust_07, HSz_DecTrust_04, HSz_DecTrust_06, HSz_DecTrust_08,
    HSz_DecTrust_03, HSz_DecTrust_01, GNz_WHCDecisAll_01, GNz_WHCDecisAll_02) %>%
    mutate(SDz_Gender = case_when(SDz_Gender == 0 ~ "0) Female",
        SDz_Gender == 1 ~ "1) Male")) %>% mutate(OPz_ScrnWRec = case_when(OPz_ScrnWRec ==
    1 ~ "1) Strongly Disagree", OPz ScrnWRec == 2 ~ "2) Disagree",
    OPz_ScrnWRec == 3 ~ "3) Undecided", OPz_ScrnWRec == 4 ~ "4) Agree",
    OPz ScrnWRec == 5 ~ "5) Strongly Agree")) %>% mutate(OPz ScrnRecOthrs = case when(OPz ScrnRecOthrs ==
    1 ~ "1) Strongly Disagree", OPz ScrnRecOthrs == 2 ~ "2) Disagree",
    OPz ScrnRecOthrs == 3 ~ "3) Undecided", OPz ScrnRecOthrs ==
        4 ~ "4) Agree", OPz ScrnRecOthrs == 5 ~ "5) Strongly Agree")) %>%
    mutate(GNz WRole = case when(GNz WRole == 1 ~ "1) Strongly Disagree",
        GNz WRole == 2 ~ "2) Disagree", GNz WRole == 3 ~ "3) Undecided",
        GNz WRole == 4 ~ "4) Agree", GNz WRole == 5 ~ "5) Strongly Agree")) %>%
    mutate(GNz_ManDecis = case_when(GNz_ManDecis == 1 ~ "1) Strongly Disagree",
       GNz_ManDecis == 2 ~ "2) Disagree", GNz_ManDecis == 3 ~
            "3) Undecided", GNz_ManDecis == 4 ~ "4) Agree", GNz_ManDecis ==
            5 ~ "5) Strongly Agree")) %>% mutate(SDz_Educatn = case_when(SDz_Educatn ==
    0 ~ "O Low Educ", SDz_Educatn == 1 ~ "O Low Educ", SDz_Educatn ==
    2 ~ "1 Higher Educ", SDz Educatn == 3 ~ "1 Higher Educ",
    SDz_Educatn == 4 ~ "1 Higher Educ", SDz_Educatn == 5 ~ "1 Higher Educ",
    SDz Educatn == 99 ~ "Do Not Know / Not Sure"))
TA ScrnRec Gendr Ed <- tableby(interaction(SDz Gender, SDz Educatn) ~
    fe(OPz ScrnWRec, "countpct") + fe(OPz ScrnRecOthrs, "countpct"),
```

simulate.p.value = TRUE, data = ScrnRec\_Gendr\_Ed)

# OPz\_ScrnWRec, OPz\_ScrnRecOthrs, GNz\_WRole, GNz\_ManDecis,

summary(TA\_ScrnRec\_Gendr\_Ed, title = "Arsenal Table 18Q04", pfootnote = TRUE)

##

```
## Table: Arsenal Table 18Q04
```

##

##		0)	Female.(	) Low Educ	: (N=61)	1) Male.0	Low Edu	c (N=26)	(
##	:	:			:	:		:	1:-
##	<pre> **Other women that I know recommend the cervical cancer test**</pre>	l –			I				
##	1) Strongly Disagree	l –	1	(1.6%)	I	1	(3.8%)		
##	2) Disagree		4	(6.6%)	I	1	(3.8%)		1
##	3) Undecided		13	(21.3%)	I	8	(30.8%)		1
##	4) Agree		26	(42.6%)	I	9	(34.6%)		1
##	5) Strongly Agree		17	(27.9%)	I	7	(26.9%)		1
##	<pre> **I would recommend that women get routine testing for cervical cancer**</pre>				I				1
##	1) Strongly Disagree		2	(3.3%)	I	1	(3.8%)		1
##	2) Disagree		2	(3.3%)	I	0	(0.0%)		1
##	3) Undecided		5	(8.3%)	I	1	(3.8%)		1
##	4) Agree		18	(30.0%)	I	11	(42.3%)		1
##	5) Strongly Agree		33	(55.0%)	I	13	(50.0%)		1
##	1. Fisher's Exact Test for Count Data with simulated p-value								
##	(based on 2000 replicates)								

# write2pdf(TA\_ScrnRec\_Gendr\_Ed, # here('Tables','S06\_ScrnRec\_Gendr\_Ed.pdf')) # write2word(TA\_ScrnRec\_Gendr\_Ed, # here('Tables','S06\_ScrnRec\_Gendr\_Ed.doc'))

# write2html(TA\_ScrnRec\_Gendr\_Ed,

# here('Tables', 'SO6\_ScrnRec\_Gendr\_Ed.html'))