Table 1

2016-12-14

# Load packages  
library(tidyverse)  
library(dataclean)  
library(stringr)

# Load data  
load("/Users/bradcannell/Dropbox/Research/2014-MU-CX-0102 DETECT/Pilot Test/detect\_pilot\_test/data/detect\_p.RData")  
  
load("/Users/bradcannell/Dropbox/Research/2014-MU-CX-0102 DETECT/Pilot Test/detect\_pilot\_test/data/final\_ids.RData")

# Keep only vars of interest  
df <- select(detect\_p, id:age, time\_diff:any\_valid\_f)  
about\_data(df)  
60 observations and 12 variables in the data   
# 60 observations and 12 variables in the data

# Keep only the ids that were used to   
df$id <- as.character(df$id)  
final\_ids <- as\_tibble(final\_ids) %>% rename(id = value)  
df <- semi\_join(df, final\_ids, by = "id")  
about\_data(df)  
39 observations and 12 variables in the data   
rm(final\_ids)  
# 39 observations and 12 variables in the data

Creating Table 1 for pilot test manuscript. See the tables\_for\_word example file.

# Aggregate selected variables  
df2 <- df %>%   
 group\_by(response\_group) %>%  
 summarise(  
 n = n(),  
 age = mean(age),  
 time = mean(time\_diff),  
 n\_allegations = n\_distinct(allegation)  
 )  
  
# Group by response\_group instead of id  
# There 27 investitgations, but only 26 ids because person 402 is in the data twice. However, they were screened using DETECT on two separate occations.

continuous <- function(x) {  
 var\_nam <- deparse(substitute(x))  
 pattern <- "(.\*)\\$(.\*)"  
 var\_nam <- stringr::str\_replace(string = var\_nam, pattern = pattern, replacement = "\\2")   
   
 n <- length(x)  
 out <- paste0(  
 round(mean(x), 1),   
 " (",   
 round(sd(x) / sqrt(n), 2),   
 ")")  
 t <- tibble(Characteristic = var\_nam, Level = NA, Statistic = out)  
 return(t)  
}

table1 <- bind\_rows(  
 continuous(df2$age),  
 continuous(df2$time),  
 continuous(df2$n\_allegations)  
)

categorical <- function(x) {  
 var\_nam <- deparse(substitute(x))  
 pattern <- "(.\*)\\$(.\*)"  
 var\_nam <- stringr::str\_replace(string = var\_nam, pattern = pattern, replacement = "\\2")  
   
 temp <- as.data.frame(prop.table(table(x)) \* 100)  
 names(temp) <- c("Level", "Statistic")  
 temp$Statistic <- round(temp$Statistic, 1)  
 temp$Characteristic <- var\_nam  
 temp <- temp[, c(3, 1, 2)]  
 temp <- temp[order(temp$Statistic, decreasing = TRUE), ]  
 temp$Statistic <- as.character(temp$Statistic) # So that it will bind later  
 return(temp)  
}

table1 <- dplyr::bind\_rows(  
 table1,  
 categorical(df$allegation),  
 categorical(df$perp),  
 categorical(df$disposition),  
 categorical(df$closure\_reason)  
)  
Warning in bind\_rows\_(x, .id): Unequal factor levels: coercing to character

knitr::kable(table1, caption = "Table 1. Characteristics of Adult Protective Services investigations that were matched to DETECT screening tool uses for validation, Tarrant County, TX, 2015.")

Table 1. Characteristics of Adult Protective Services investigations that were matched to DETECT screening tool uses for validation, Tarrant County, TX, 2015.

|  |  |  |
| --- | --- | --- |
| Characteristic | Level | Statistic |
| age | NA | 74.5 (1.38) |
| time | NA | 7.5 (1.41) |
| n\_allegations | NA | 1.4 (0.13) |
| allegation | Physical Neglect | 71.8 |
| allegation | Medical Neglect | 10.3 |
| allegation | Emot/Verbl Abuse | 7.7 |
| allegation | Men Health Neg. | 5.1 |
| allegation | Physical Abuse | 5.1 |
| allegation | Exploitation | 0 |
| perp | Self | 82.1 |
| perp | Perpetrator | 17.9 |
| disposition | Valid | 59 |
| disposition | Invalid | 28.2 |
| disposition | Unable to Determine | 12.8 |
| disposition | Other | 0 |
| closure\_reason | Resolved During Investigation with Services | 25.6 |
| closure\_reason | Invalid | 20.5 |
| closure\_reason | Progress to ICS | 17.9 |
| closure\_reason | No Services Required | 15.4 |
| closure\_reason | Client died | 12.8 |
| closure\_reason | Self-Neglect Resolved Before Face-to-Face | 7.7 |
| closure\_reason | Does not meet definition of APS | 0 |
| closure\_reason | Dupl. Referral/Already Investigated | 0 |
| closure\_reason | Moved/Unable to locate | 0 |
| closure\_reason | Unable to determine | 0 |

#### Session Info:

R version 3.3.2 (2016-10-31)  
Platform: x86\_64-apple-darwin13.4.0 (64-bit)  
Running under: OS X El Capitan 10.11.6  
  
locale:  
[1] en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8  
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] stringr\_1.1.0 dataclean\_0.1.0 dplyr\_0.5.0 purrr\_0.2.2   
[5] readr\_1.0.0 tidyr\_0.6.0 tibble\_1.2 ggplot2\_2.2.0   
[9] tidyverse\_1.0.0  
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 knitr\_1.15.1 magrittr\_1.5 munsell\_0.4.3   
 [5] colorspace\_1.2-6 R6\_2.1.3 highr\_0.6 plyr\_1.8.4   
 [9] tools\_3.3.2 grid\_3.3.2 gtable\_0.2.0 DBI\_0.5   
[13] htmltools\_0.3.5 yaml\_2.1.13 lazyeval\_0.2.0 assertthat\_0.1   
[17] digest\_0.6.10 evaluate\_0.10 rmarkdown\_1.1 stringi\_1.1.1   
[21] scales\_0.4.1