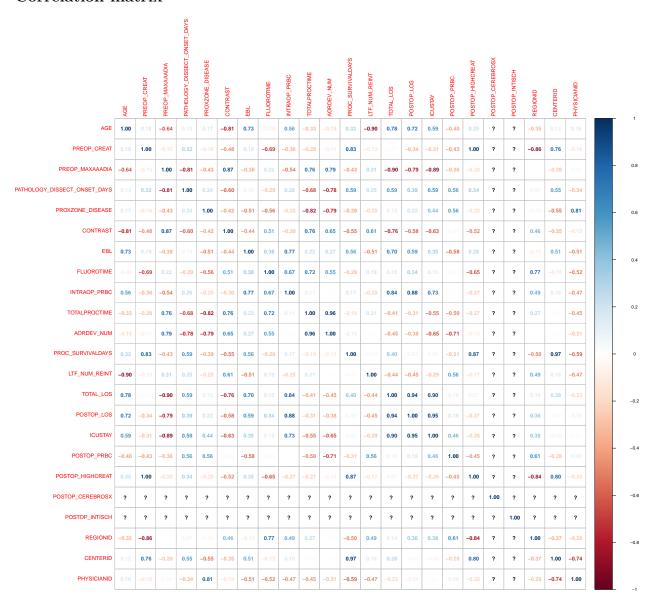
Adjustment Analysis for the VQI FBVAR Dataset

Jennifer Ci, Thu Vu, Lily Hanyi Wang

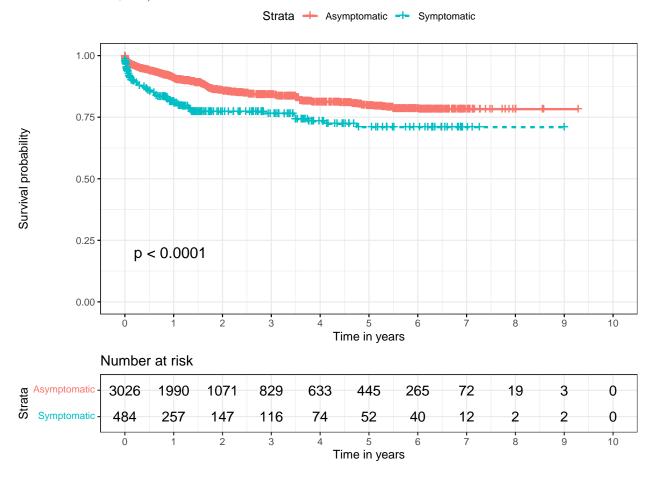
Correlation matrix



Survival analysis

Unadjusted survival curves. Time scale changed from calendar days to calendar years. Used log rank test to produce p-value. Median survival never reached.

Any changes needed? (e.g, time scale, colors, change to at risk table, add number of censored and/or uncensored events, etc.)



Code Appendix

```
knitr::opts_chunk$set(echo = FALSE,message = FALSE,warning = FALSE)
knitr::opts_chunk$set(fig.width=20, fig.height=20)
library(tidyverse)
library(table1)
library(survival)
library(Hmisc)
library(ggplot2)
library(ggpubr)
library(corrplot)
library(caret)
library(survminer)
## ----- working directories for Lily -----
# wd_lily = '/Users/hanyiwang/Desktop/Comparative-analysis-of-treatments-of-CAA'
# path_lily = c("../data/FBVAR.csv")
## ----- working directories for Jenn -----
# wd_jenn =
# path_jenn =
## ----- working directories for Thu ------
wd_thu = '/Users/thuvu/Desktop/Comparative-analysis-of-treatments-of-CAA'
path_thu = c("FBVAR.csv")
## ----- read data -----
# setwd(wd_lily)
# FBVAR = read.csv(path_lily)
# setwd(wd_jenn)
# FBVAR = read.csv(path_jenn)
setwd(wd thu)
FBVAR = read.csv(path_thu)
## Correlation matrix
matrix <- FBVAR %>%
   select_if(is.numeric) %>% subset(., select = -1)%>%
    cor(.,use = "complete")
corrplot(matrix, method="number")
## Survival analysis
# event = 1 for uncensored (Dead), event = 0 for censored (Alive)
FBVAR$event <- ifelse(FBVAR$DEAD=="Yes", 1, 0)
tte <- FBVAR %>% with(Surv(PROC_SURVIVALDAYS/365, event))
# compute survival curves
fit <- survfit(tte ~ PRESENTATION, data=FBVAR)</pre>
```