presentation slide 2

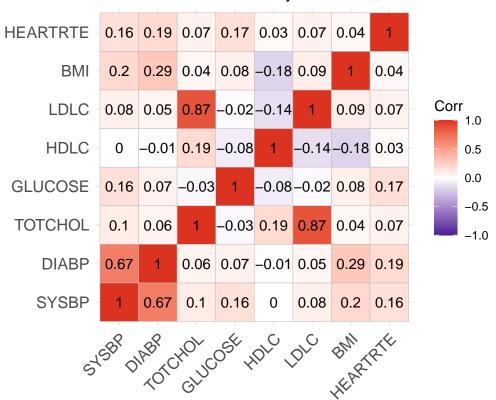
Bryan Ng, 2427348

2025-05-10

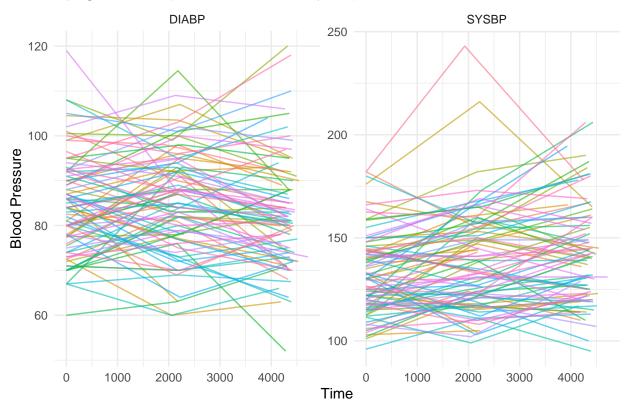
```
## Rows: 11627 Columns: 23
## -- Column specification --------
## Delimiter: ","
## dbl (23): RANDID, SEX, TOTCHOL, AGE, SYSBP, DIABP, CURSMOKE, CIGPDAY, BMI, D...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
##
                                          TOTCHOL
        RANDID
                           SEX
                                                            AGE
##
   Min.
         :
               2448
                      Min.
                              :1.000
                                       Min.
                                              :107.0
                                                       Min.
                                                               :32.00
   1st Qu.:2474378
                                                       1st Qu.:48.00
                      1st Qu.:1.000
                                       1st Qu.:210.0
   Median:5006008
                      Median :2.000
                                       Median :238.0
                                                       Median :54.00
##
   Mean
           :5004741
                      Mean
                              :1.568
                                       Mean
                                              :241.2
                                                       Mean
                                                               :54.79
   3rd Qu.:7472730
                      3rd Qu.:2.000
                                       3rd Qu.:268.0
                                                       3rd Qu.:62.00
   Max.
           :9999312
                      Max.
                              :2.000
                                       Max.
                                              :696.0
                                                       Max.
                                                               :81.00
##
                                       NA's
                                              :409
##
        SYSBP
                        DIABP
                                         CURSMOKE
                                                          CIGPDAY
           : 83.5
                           : 30.00
                                             :0.0000
                                                              : 0.00
##
   Min.
                    Min.
                                      Min.
                                                       Min.
    1st Qu.:120.0
                    1st Qu.: 75.00
                                      1st Qu.:0.0000
                                                       1st Qu.: 0.00
   Median :132.0
                    Median: 82.00
                                      Median :0.0000
                                                       Median: 0.00
   Mean
          :136.3
                           : 83.04
                                             :0.4325
                    Mean
                                      Mean
                                                       Mean
                                                              : 8.25
   3rd Qu.:149.0
##
                    3rd Qu.: 90.00
                                      3rd Qu.:1.0000
                                                       3rd Qu.:20.00
   Max.
           :295.0
                    Max.
                           :150.00
                                             :1.0000
                                                       Max.
                                                               :90.00
                                      Max.
##
                                                       NA's
                                                               :79
##
         BMI
                       DIABETES
                                           BPMEDS
                                                           HEARTRTE
##
           :14.43
                           :0.00000
                                              :0.0000
                                                        Min.
                                                               : 37.00
   Min.
                    Min.
                                       Min.
                    1st Qu.:0.00000
   1st Qu.:23.09
                                       1st Qu.:0.0000
                                                        1st Qu.: 69.00
   Median :25.48
                    Median : 0.00000
                                       Median :0.0000
                                                        Median: 75.00
                                              :0.0856
   Mean
           :25.88
                    Mean
                           :0.04558
                                       Mean
                                                        Mean
                                                               : 76.78
   3rd Qu.:28.07
                                       3rd Qu.:0.0000
                                                        3rd Qu.: 85.00
                    3rd Qu.:0.00000
##
   Max.
           :56.80
                    Max.
                           :1.00000
                                       Max.
                                              :1.0000
                                                        Max.
                                                                :220.00
   NA's
           :52
                                       NA's
                                                        NA's
##
                                              :593
                                                                :6
##
       GLUCOSE
                          educ
                                        PREVCHD
                                                           PREVAP
   Min.
           : 39.00
                     Min.
                             :1.00
                                            :0.00000
                                                       Min.
                                                               :0.00000
   1st Qu.: 72.00
                     1st Qu.:1.00
                                     1st Qu.:0.00000
                                                       1st Qu.:0.00000
   Median: 80.00
                     Median:2.00
                                     Median :0.00000
                                                       Median :0.00000
   Mean
           : 84.12
                            :1.99
                                            :0.07242
                                                       Mean
                     Mean
                                     Mean
                                                               :0.05393
   3rd Qu.: 89.00
                     3rd Qu.:3.00
                                     3rd Qu.:0.00000
                                                       3rd Qu.:0.00000
   Max.
           :478.00
                             :4.00
                                     Max.
                                            :1.00000
##
                     Max.
                                                       Max.
                                                               :1.00000
##
   NA's
           :1440
                     NA's
                             :295
##
        PREVMI
                         PREVSTRK
                                            PREVHYP
                                                                TIME
   Min.
           :0.00000
                     Min.
                            :0.00000
                                        Min.
                                                :0.0000
                                                          Min.
```

## ##	1st Qu.:0.00000 Median :0.00000	•	1st Qu.:0.0000 00 Median :0.0000	•
##	Mean :0.03217	Mean :0.0130	7 Mean :0.4596	Mean :1957
##	3rd Qu.:0.00000	3rd Qu.:0.0000	00 3rd Qu.:1.0000	3rd Qu.:4252
##	Max. :1.00000	Max. :1.0000	00 Max. :1.0000	Max. :4854
##				
##	PERIOD	HDLC	LDLC	
##	Min. :1.000	Min. : 10.00	Min. : 20.0	
##	1st Qu.:1.000	1st Qu.: 39.00	1st Qu.:145.0	
##	Median :2.000	Median : 48.00	Median :173.0	
##	Mean :1.899	Mean : 49.37	Mean :176.5	
##	3rd Qu.:3.000	3rd Qu.: 58.00	3rd Qu.:205.0	
##	Max. :3.000	Max. :189.00	Max. :565.0	
##		NA's :8600	NA's :8601	

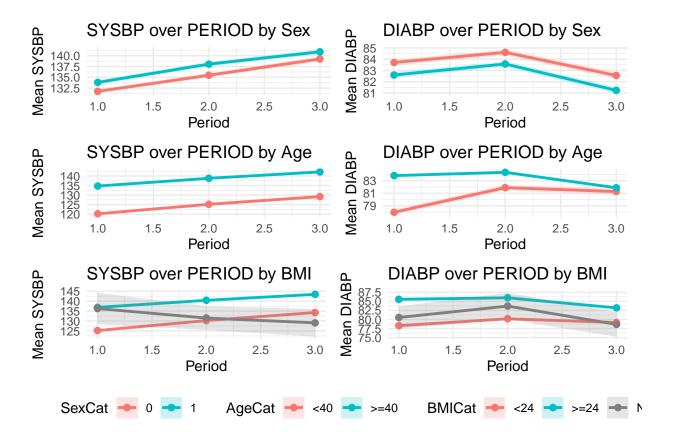
Correlation Plot of Key Biomarkers

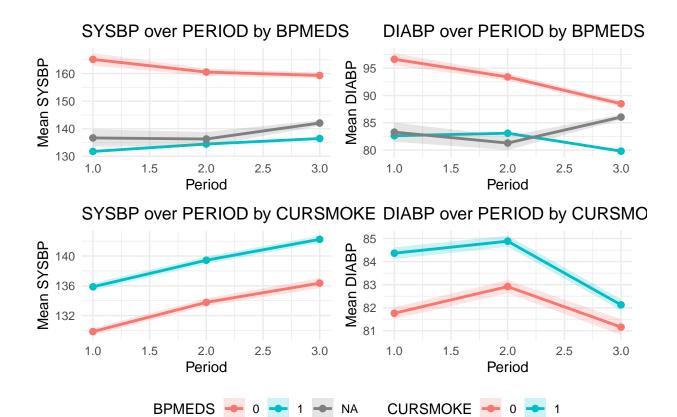


Spaghetti Plot (n=100 random subjects)



- ## Warning: 'aes_string()' was deprecated in ggplot2 3.0.0.
- ## i Please use tidy evaluation idioms with 'aes()'.
- ## i See also 'vignette("ggplot2-in-packages")' for more information.
- ## This warning is displayed once every 8 hours.
- ## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
- ## generated.
- ## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.
- ## i Please use 'linewidth' instead.
- ## This warning is displayed once every 8 hours.
- ## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
- ## generated.





Histograms of SYSBP and DIABP

