

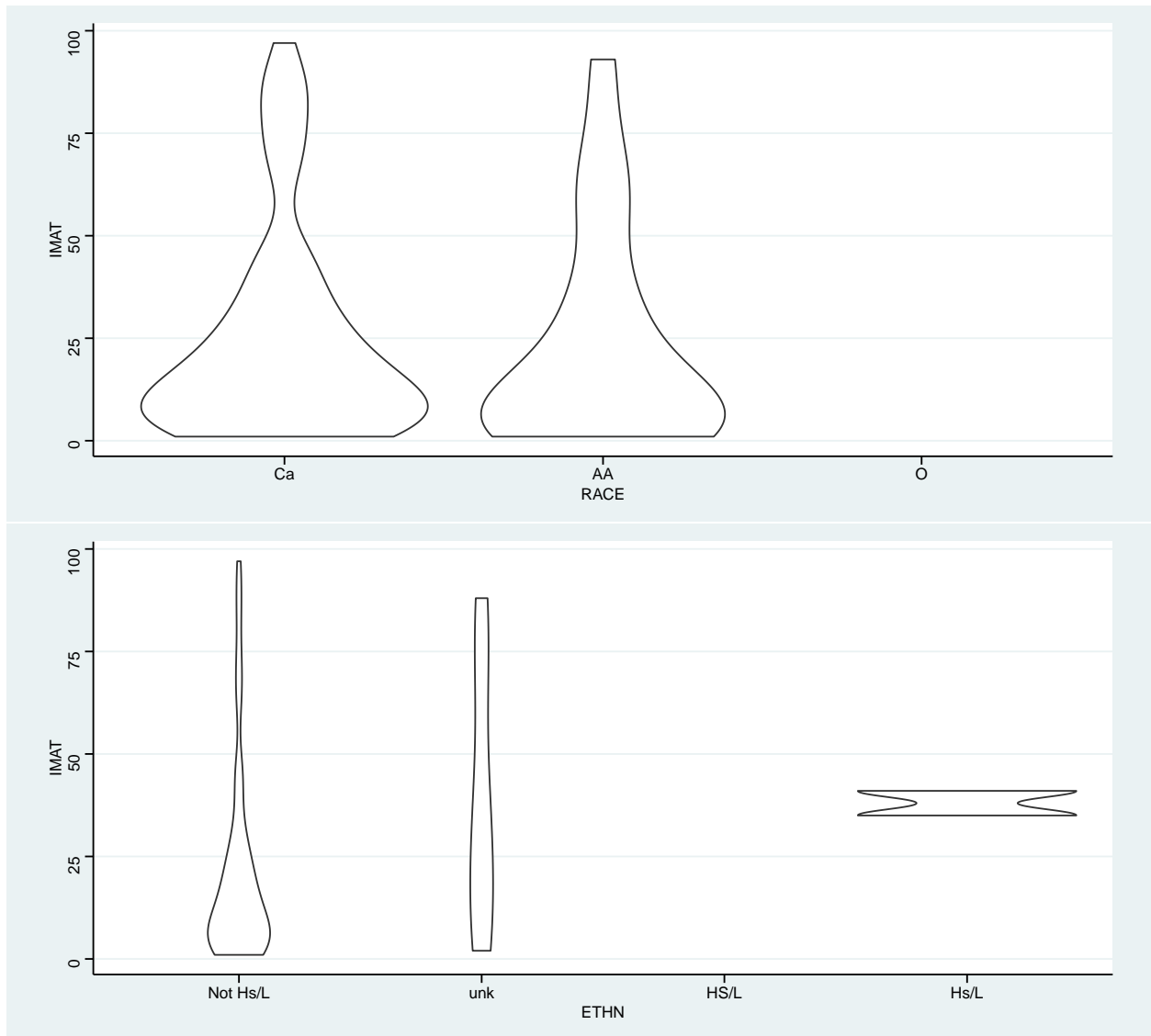
# BEIPIR

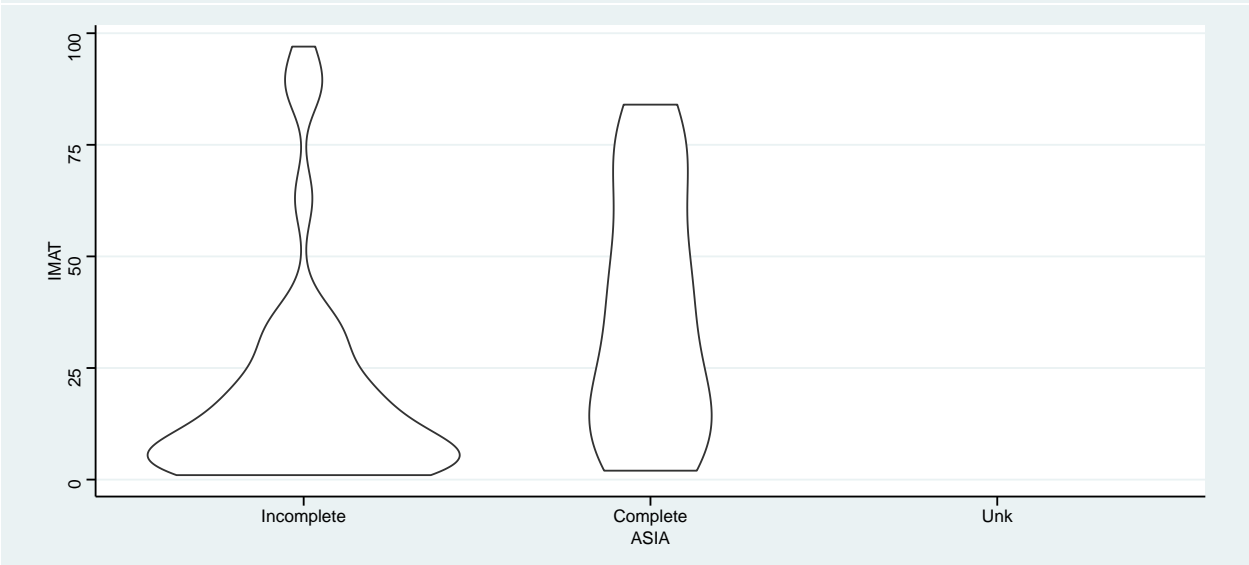
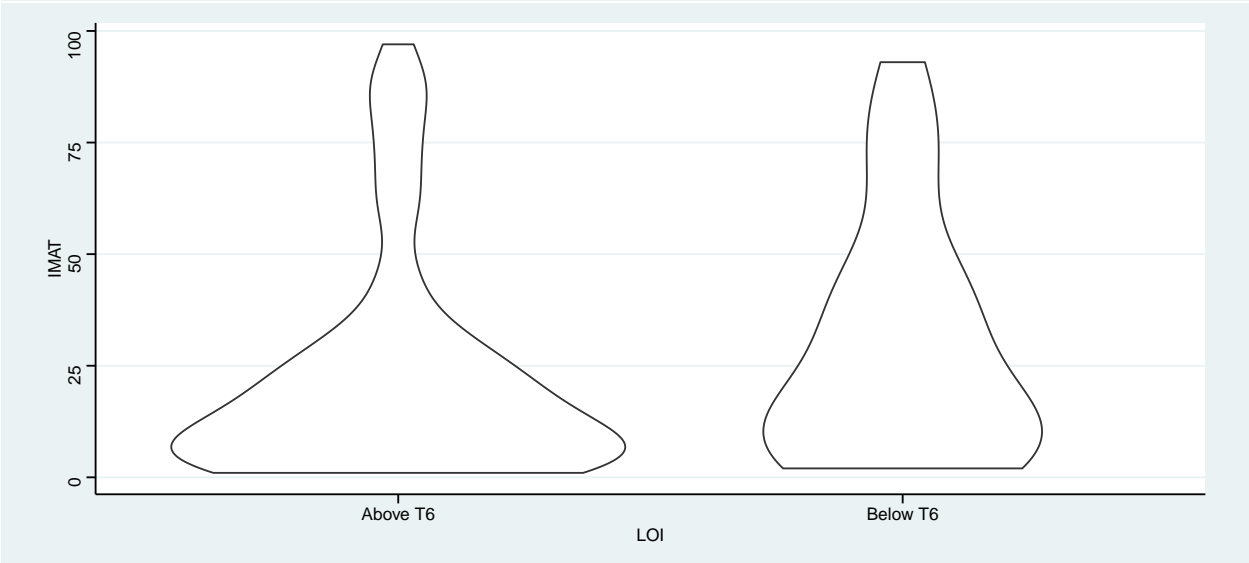
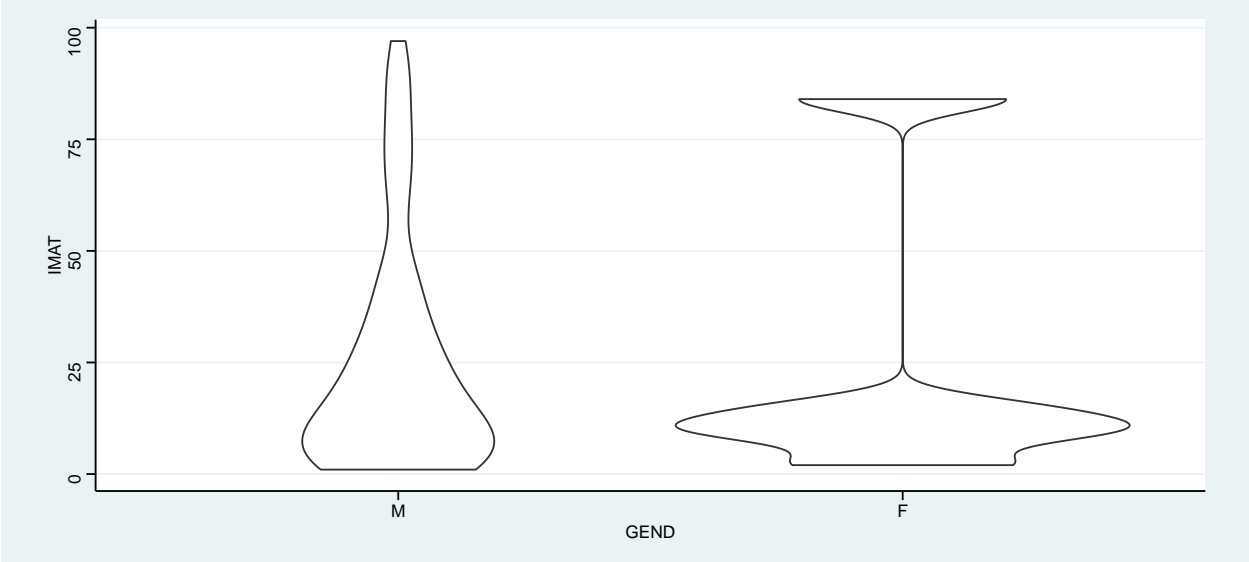
Dr. Jiayang Sun, Gabriel Brehm

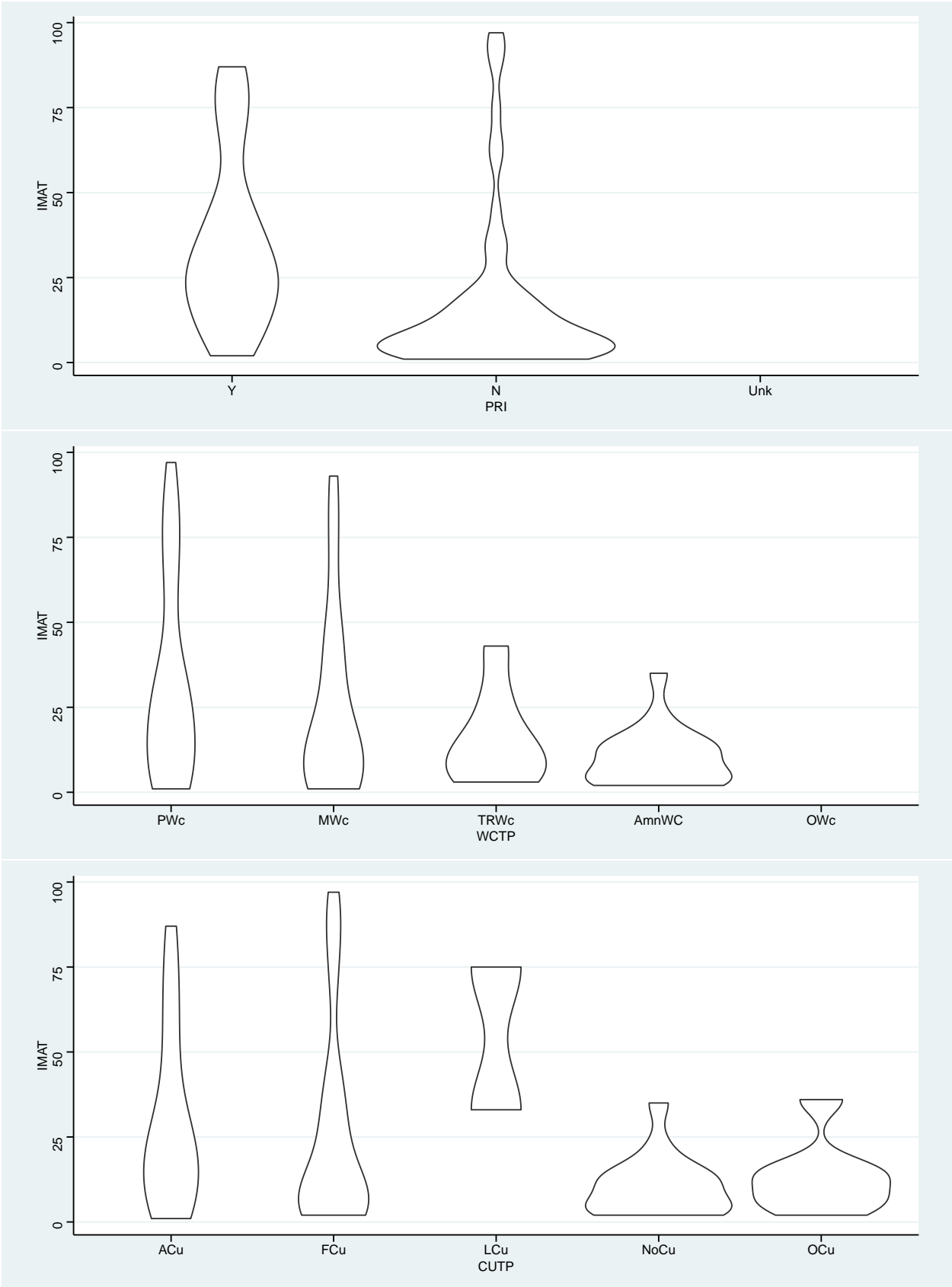
2023-02-22

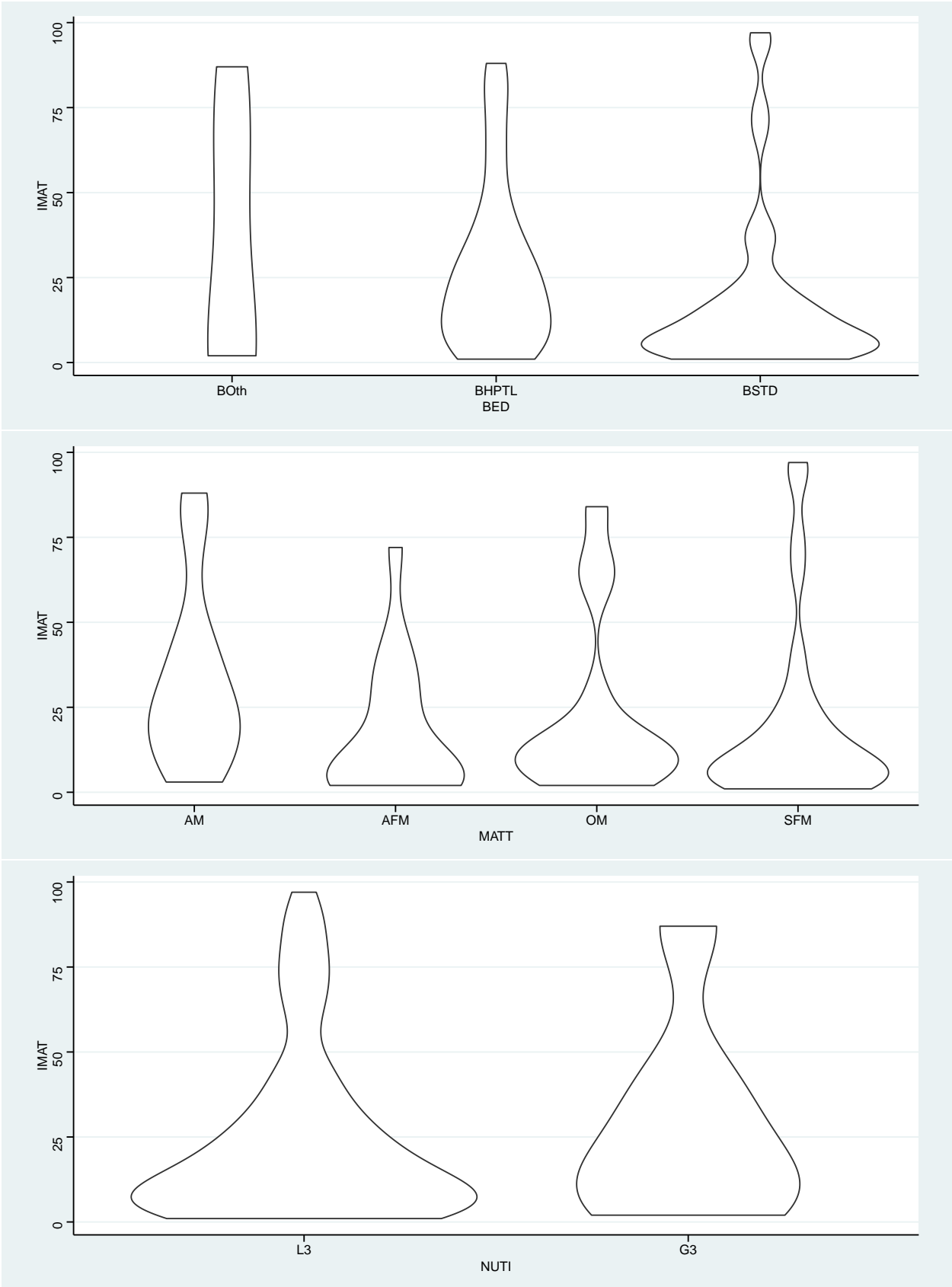
## Visualizations

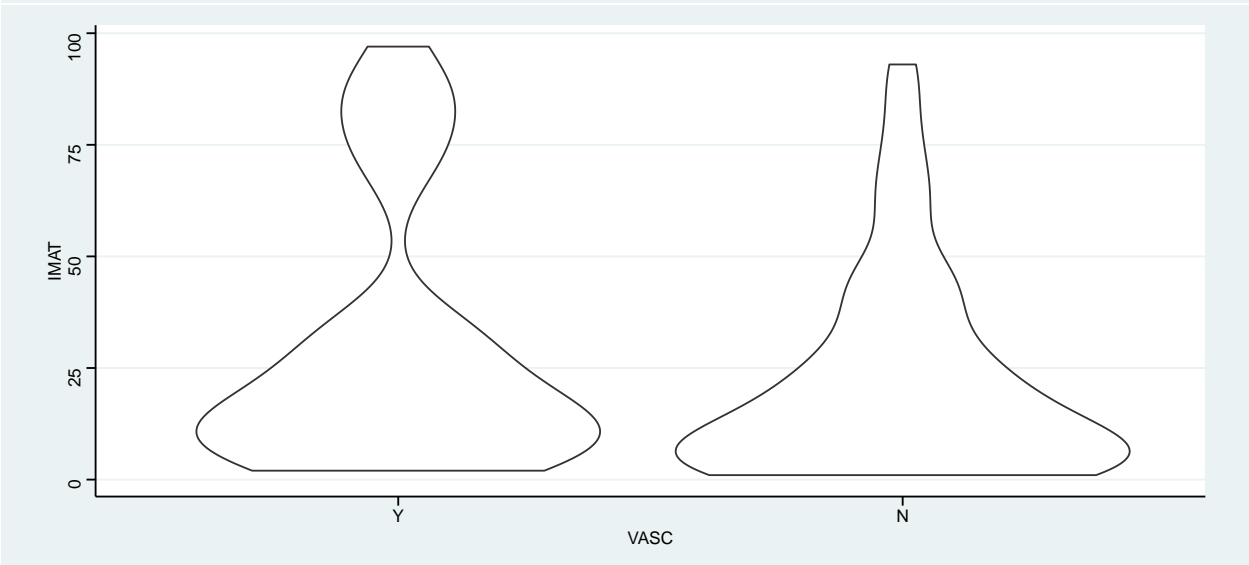
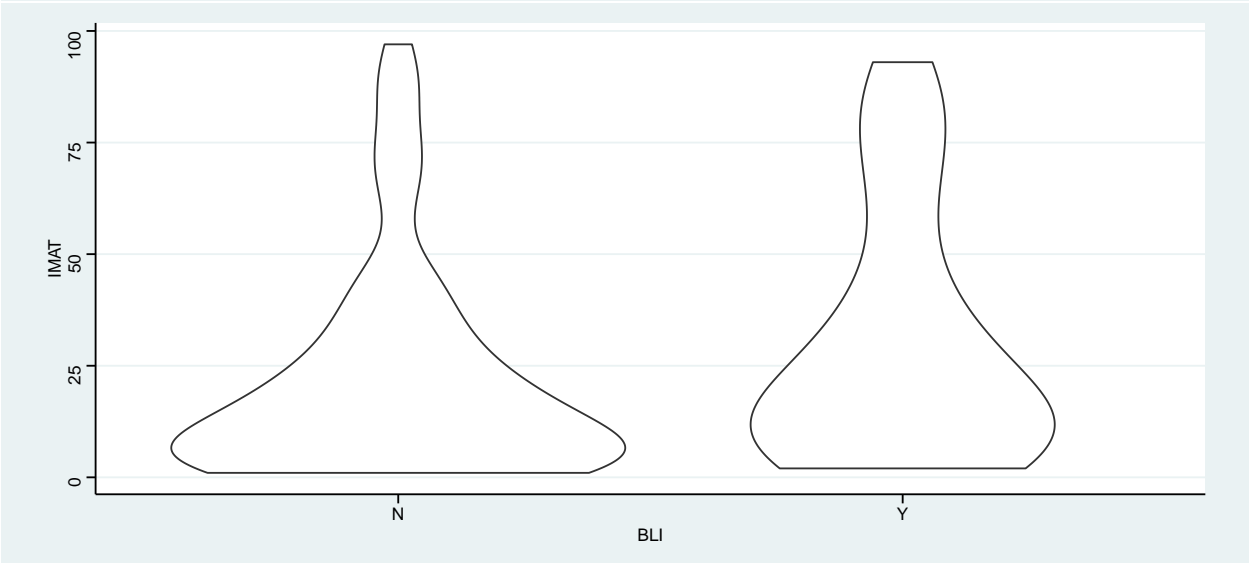
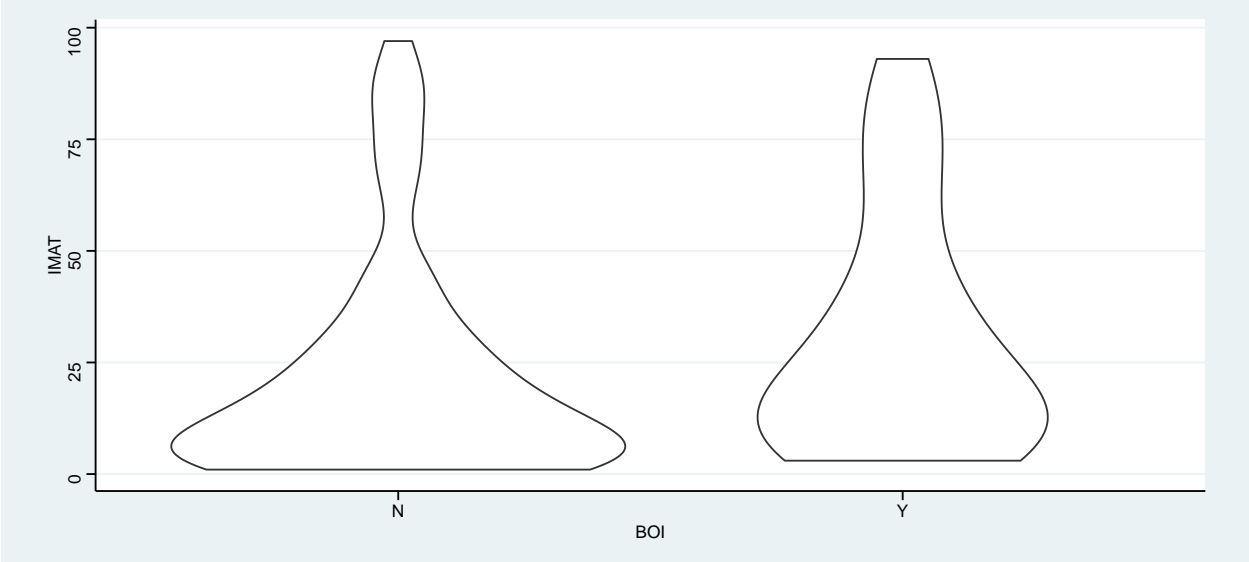
NOTE: 1 ALBUMIN VALUE IS AT 999, NEED TO UNDERSTAND THAT

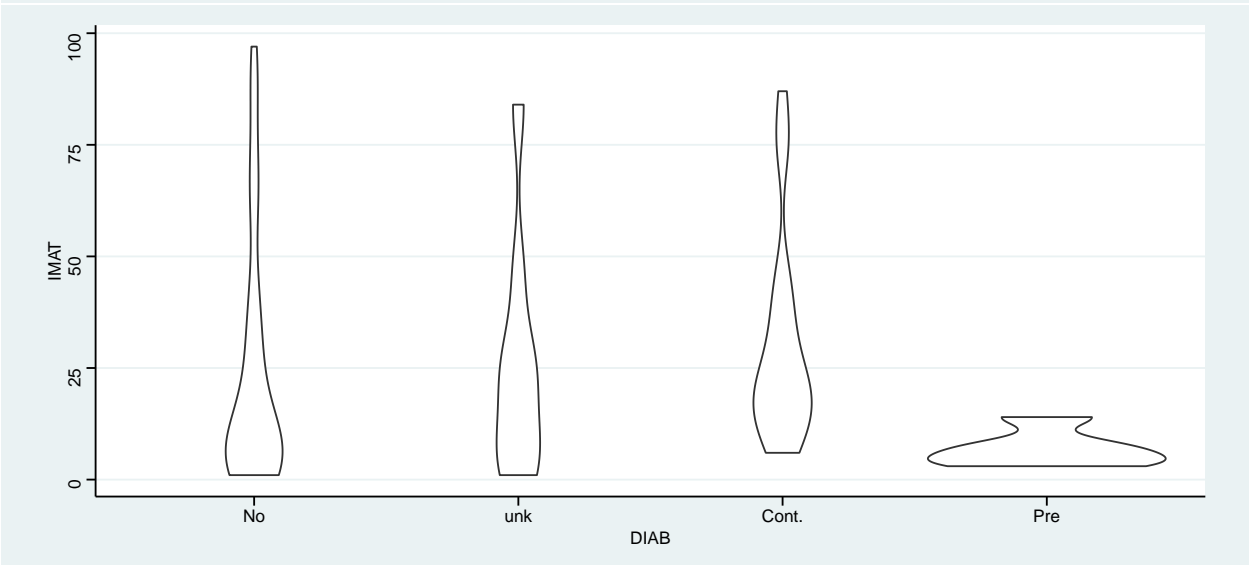
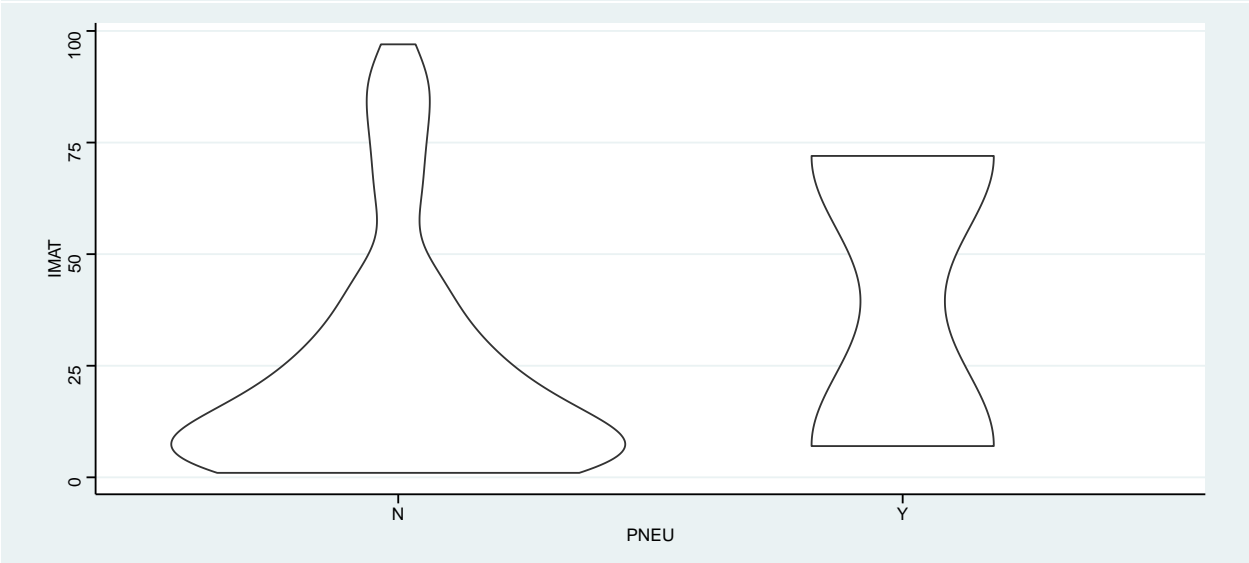
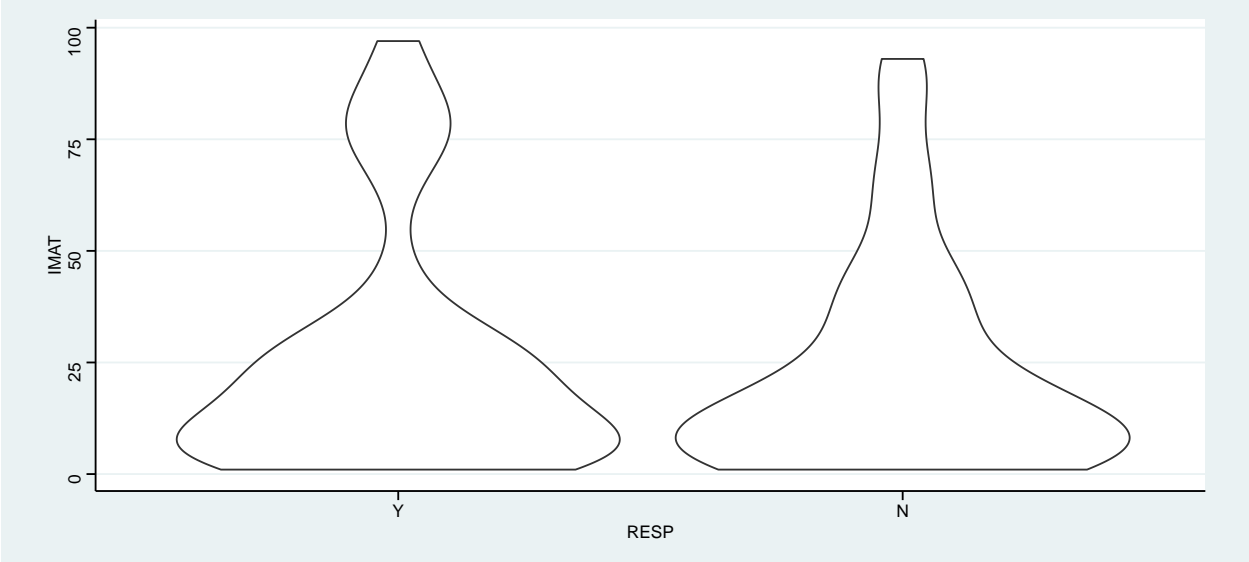


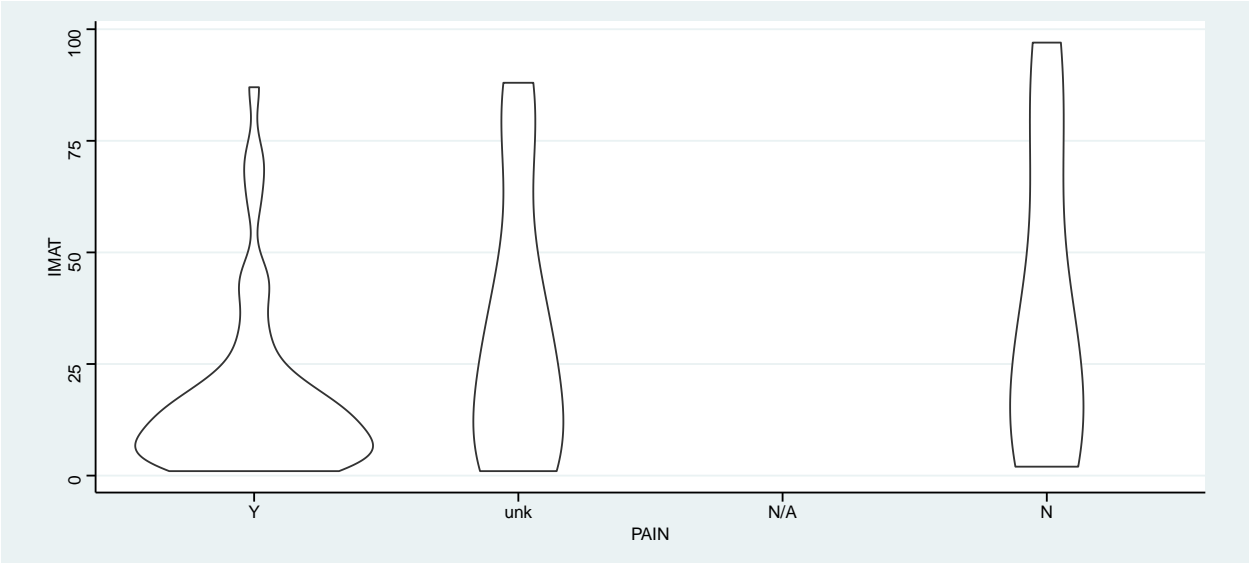
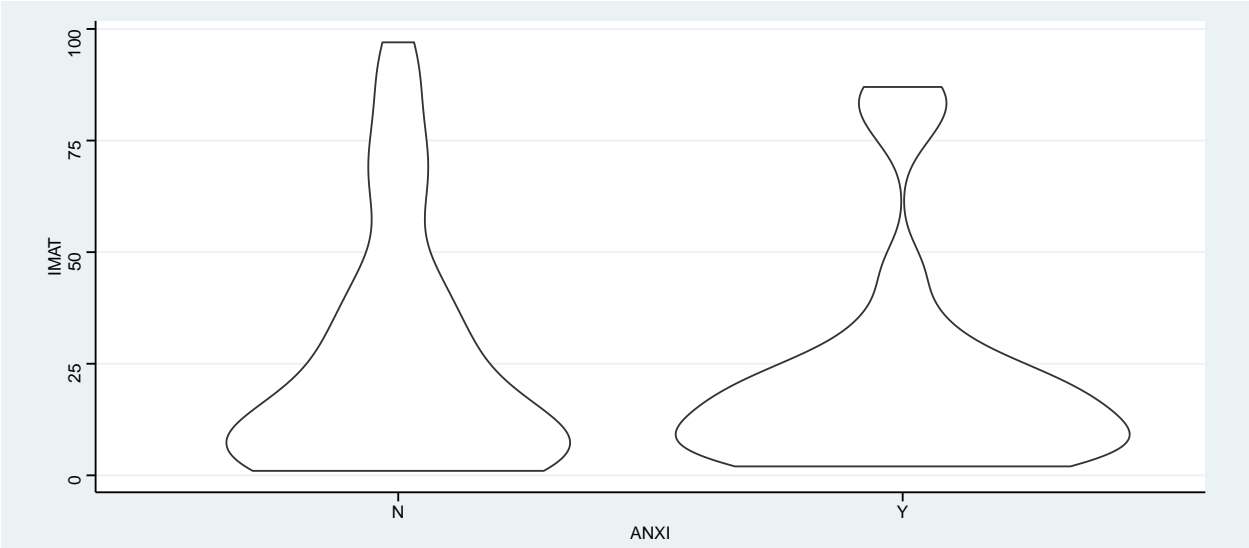
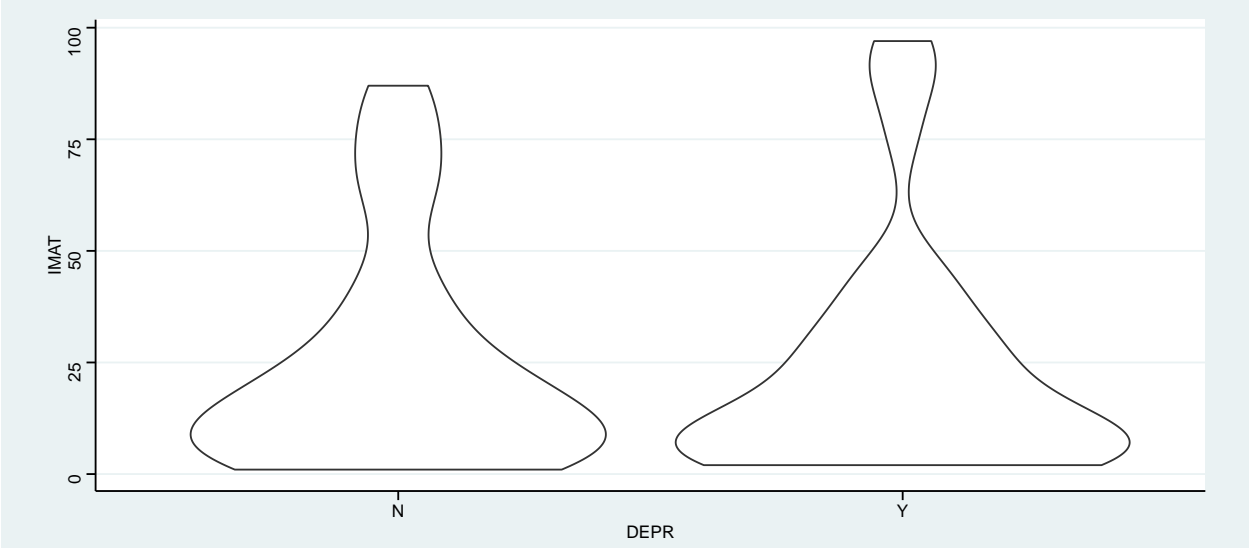


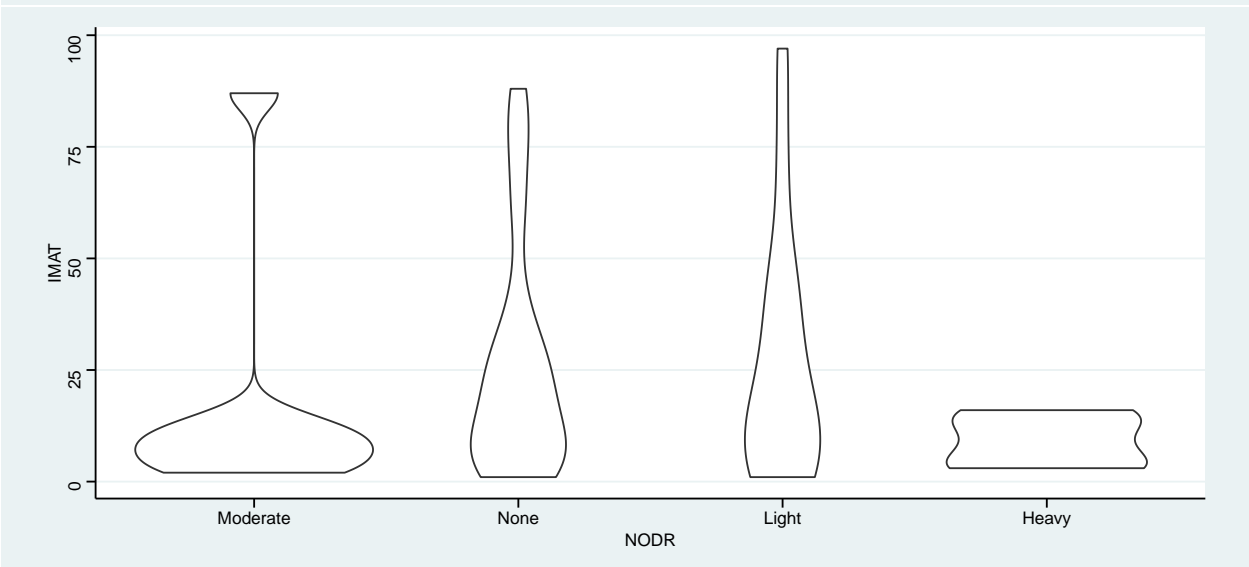
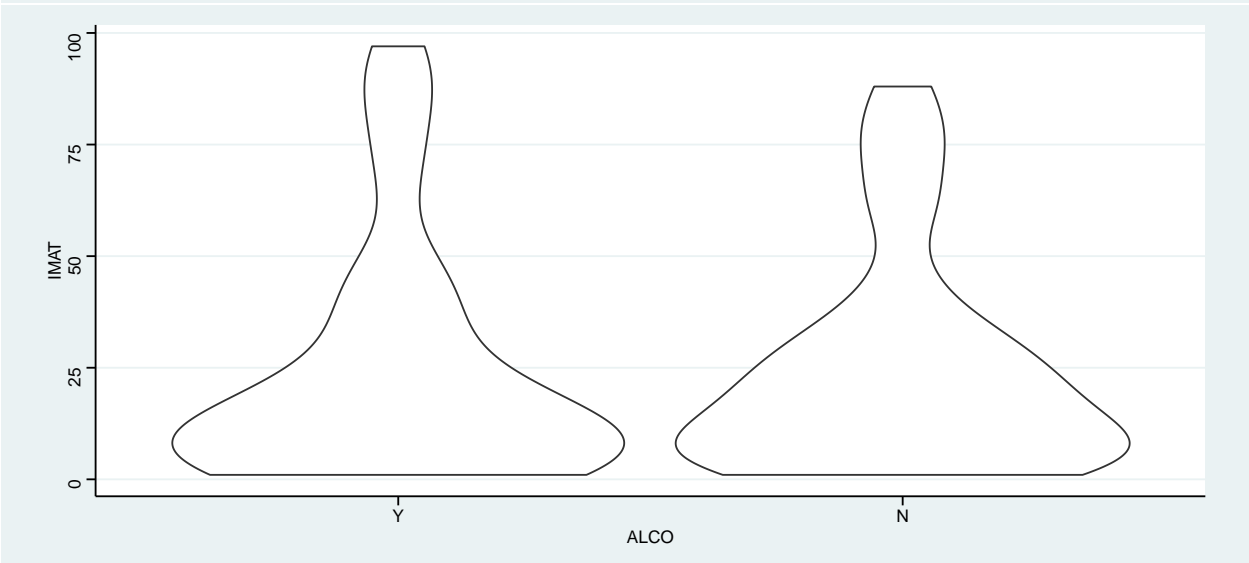
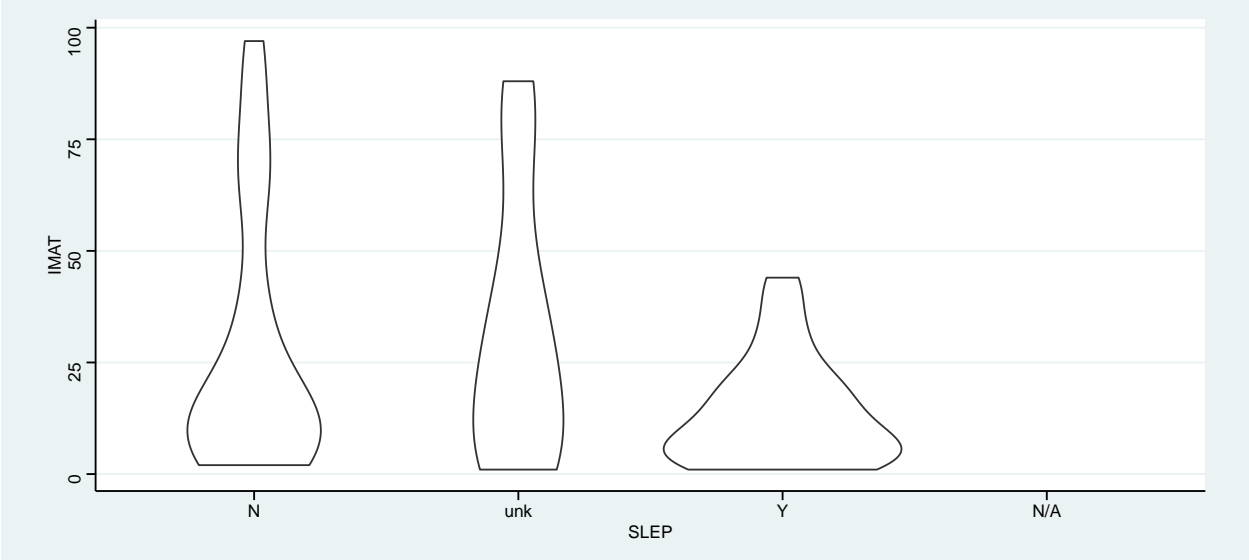




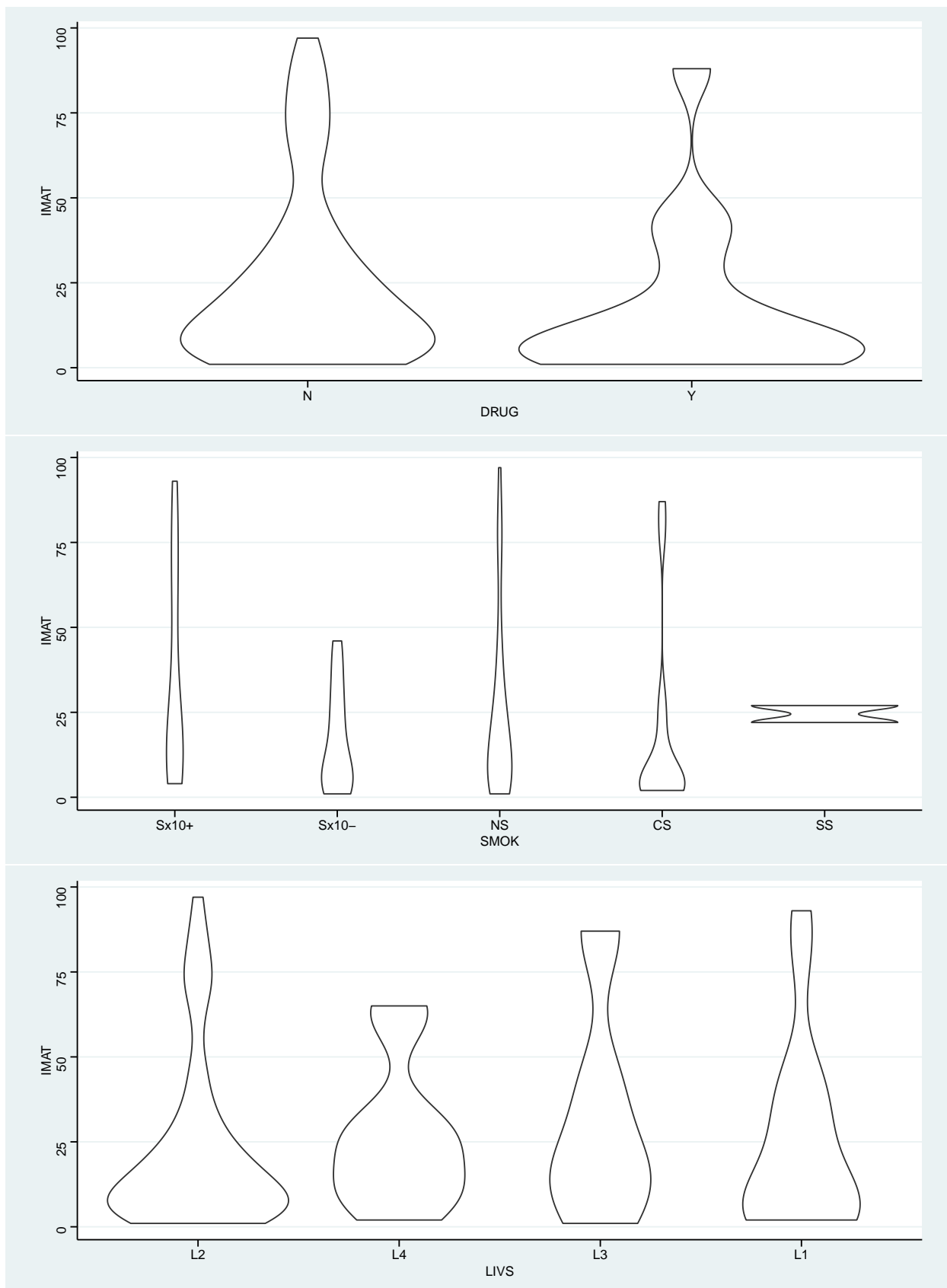


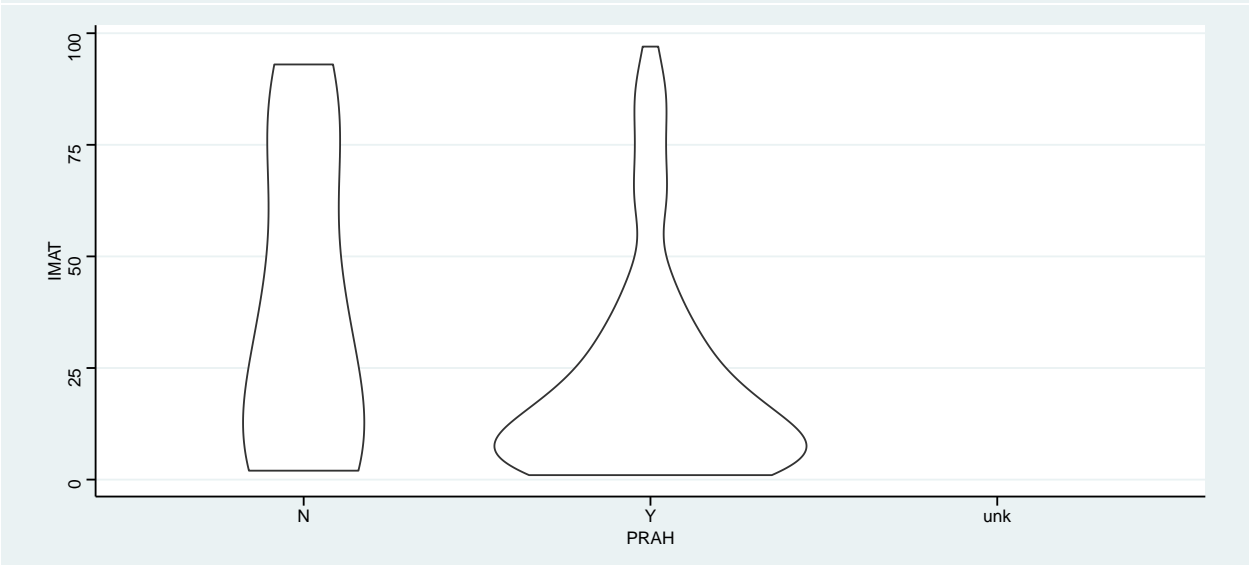
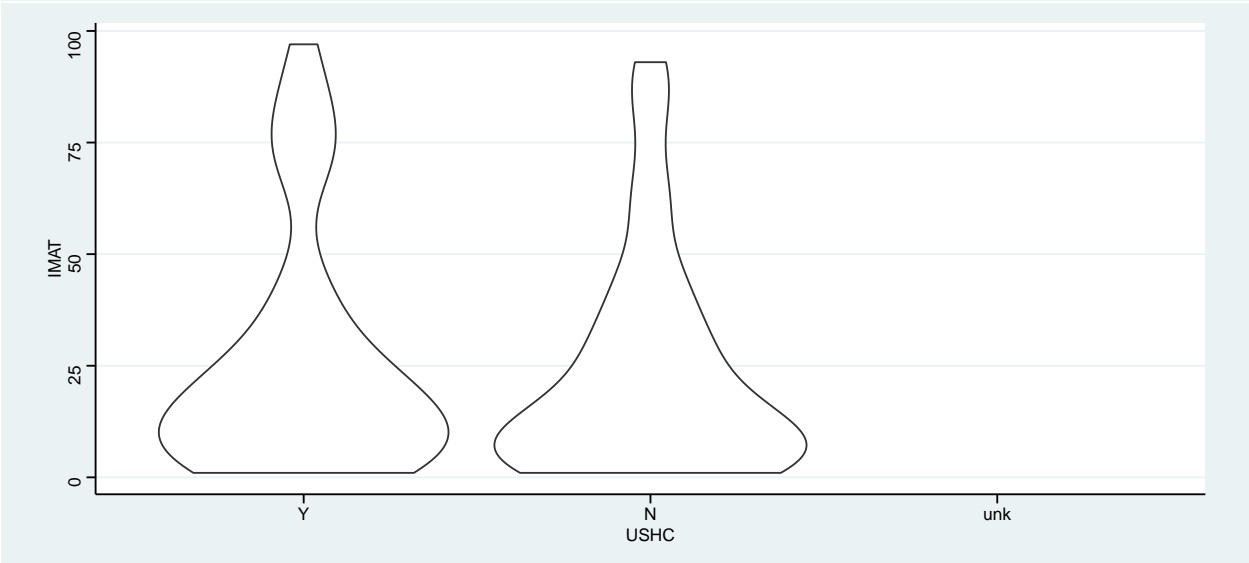
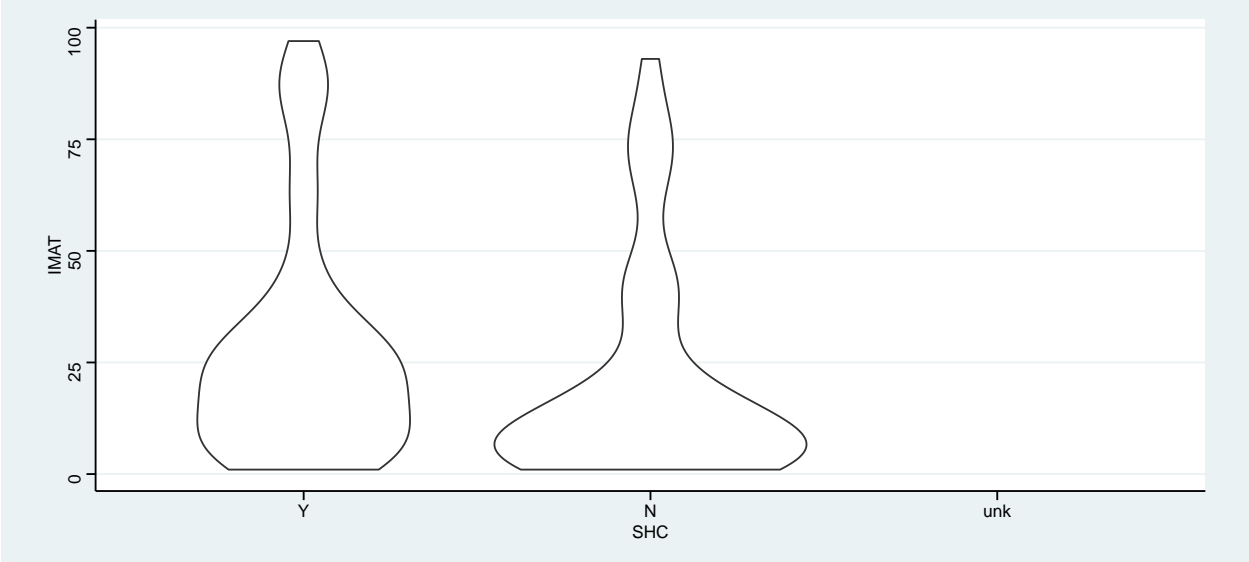


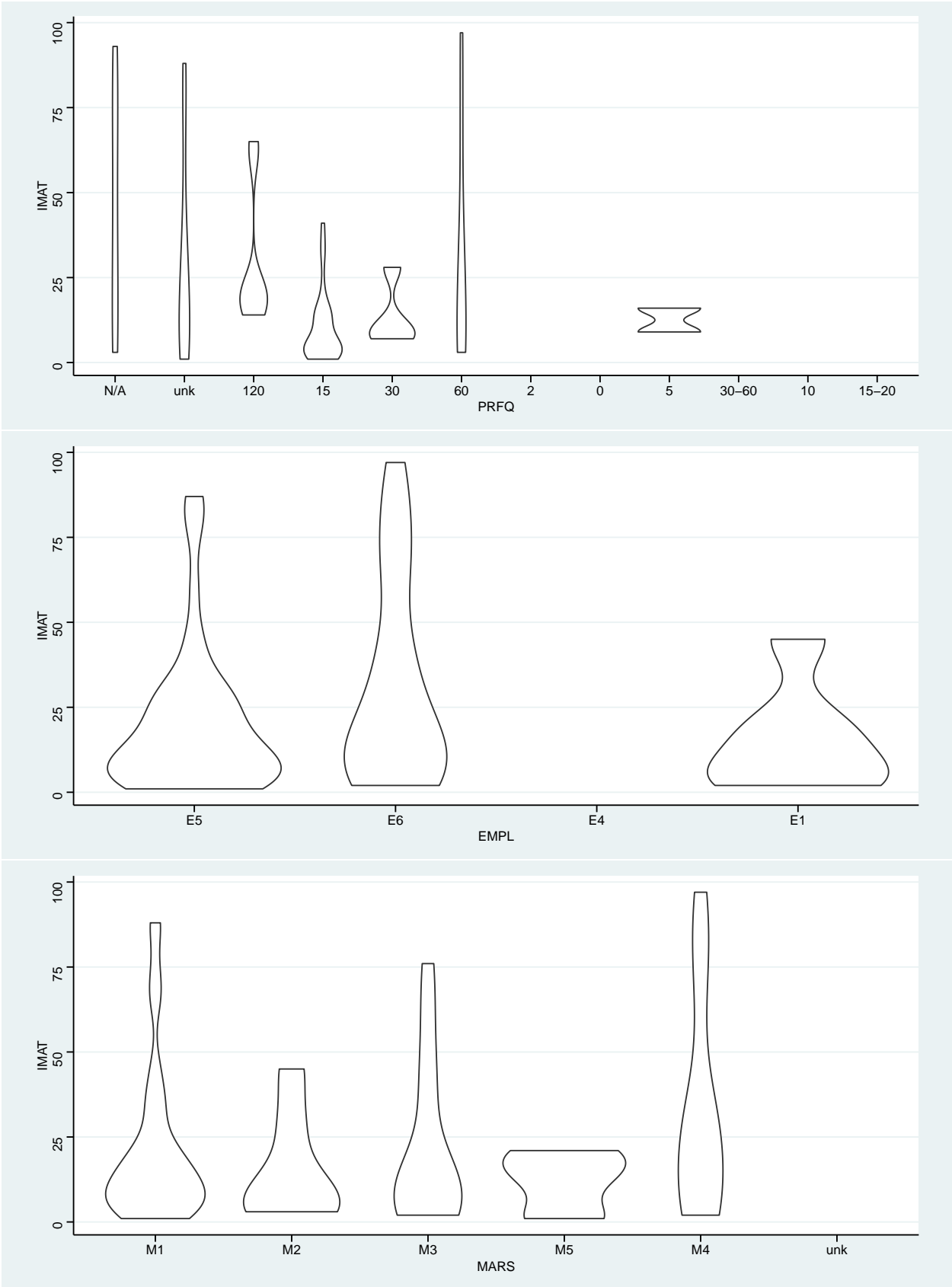


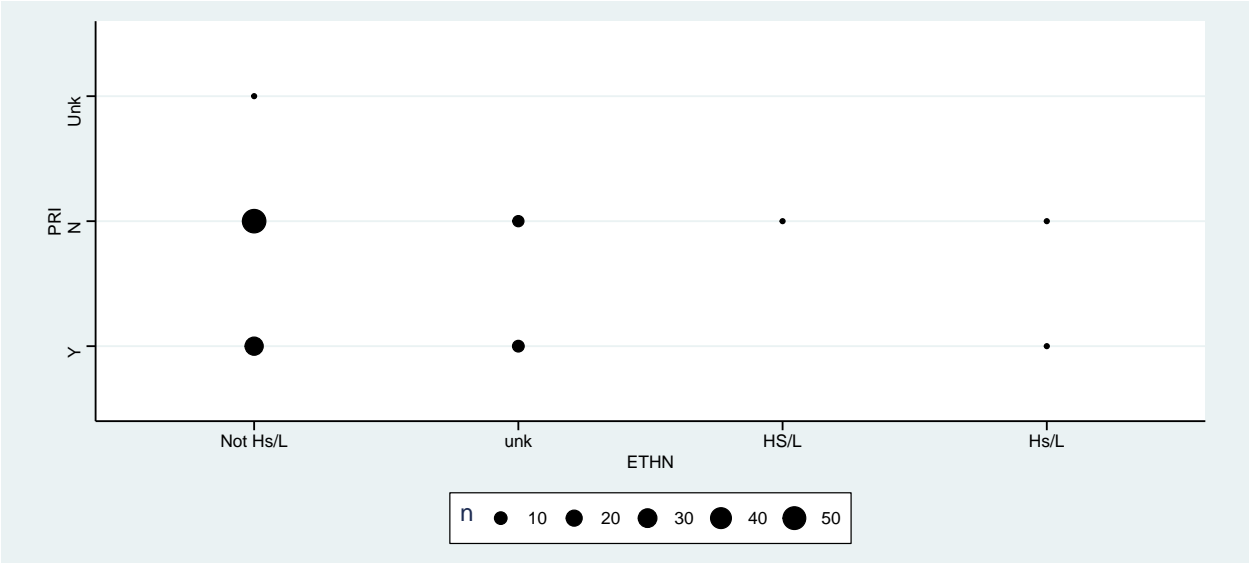
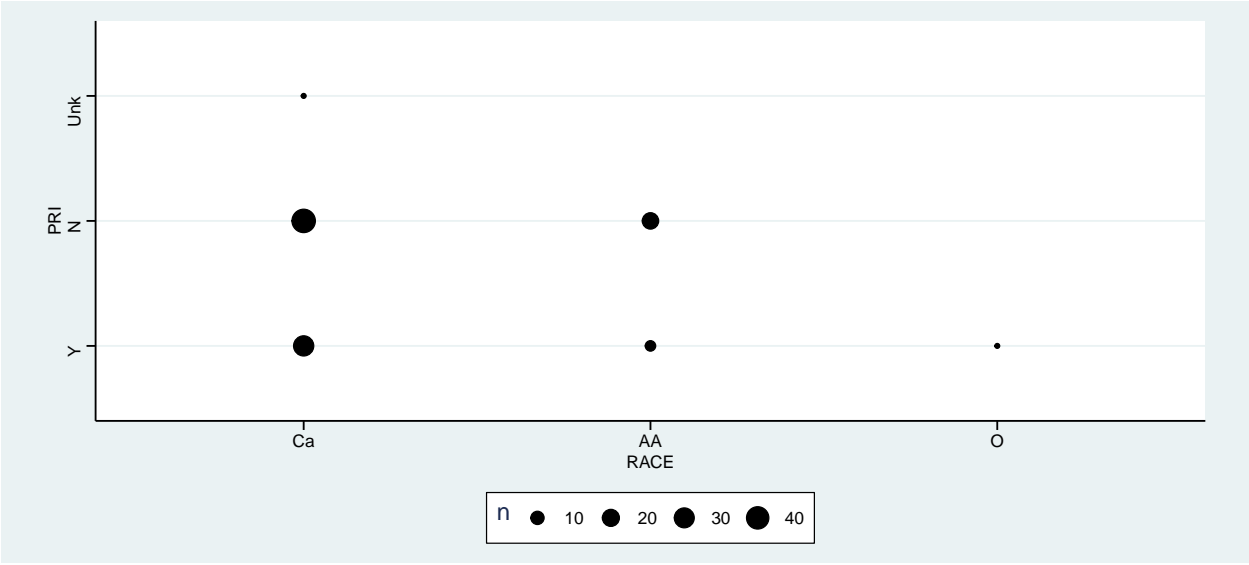
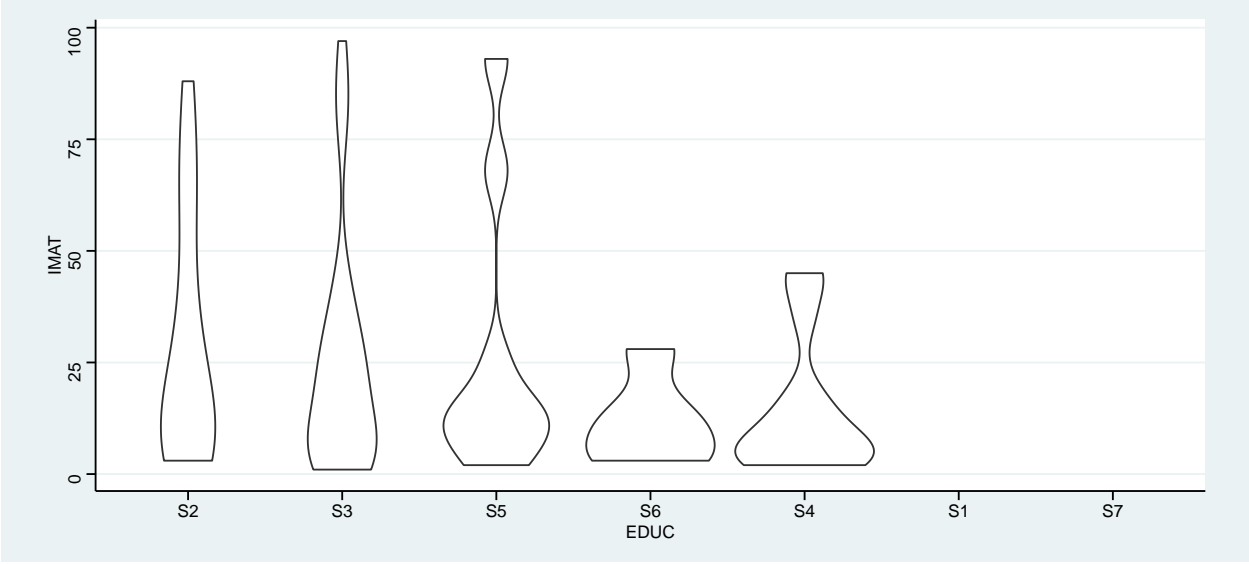


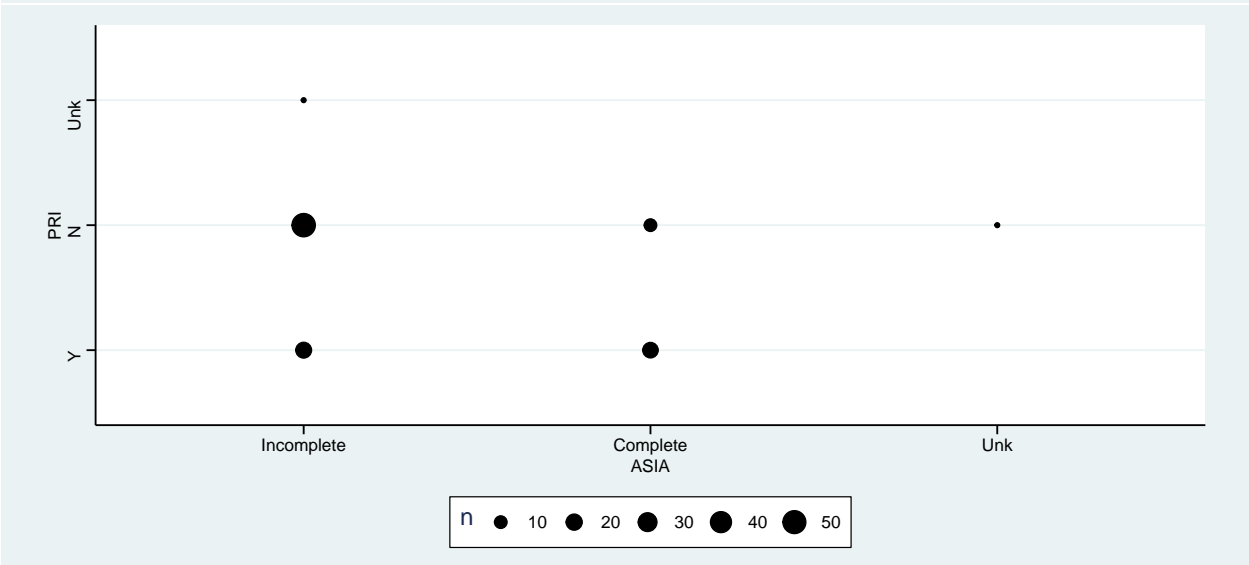
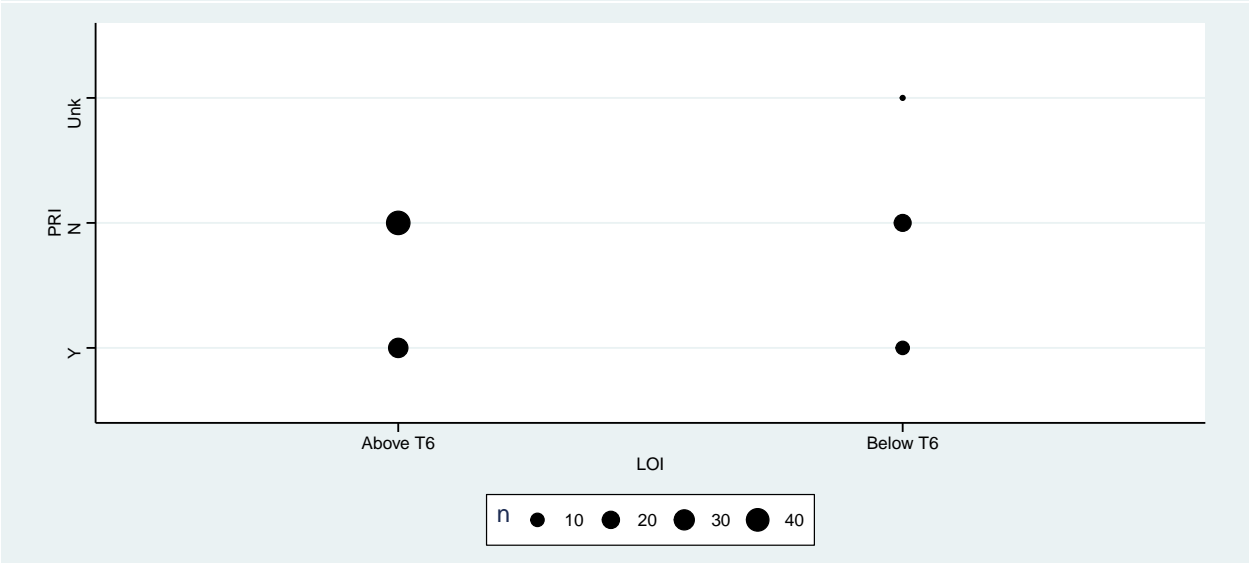
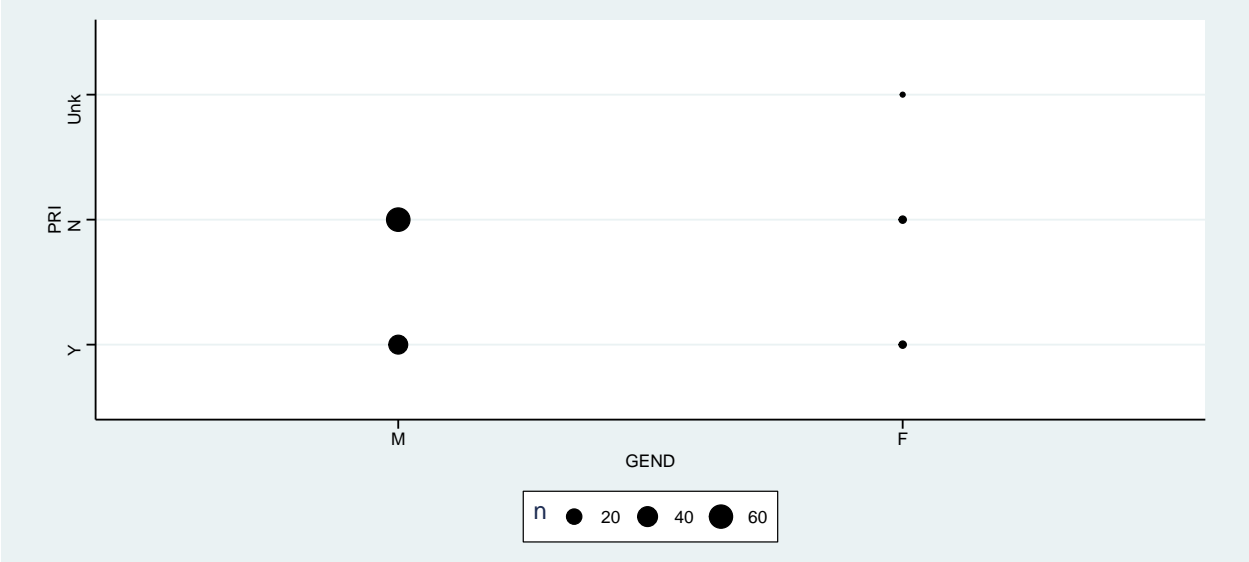


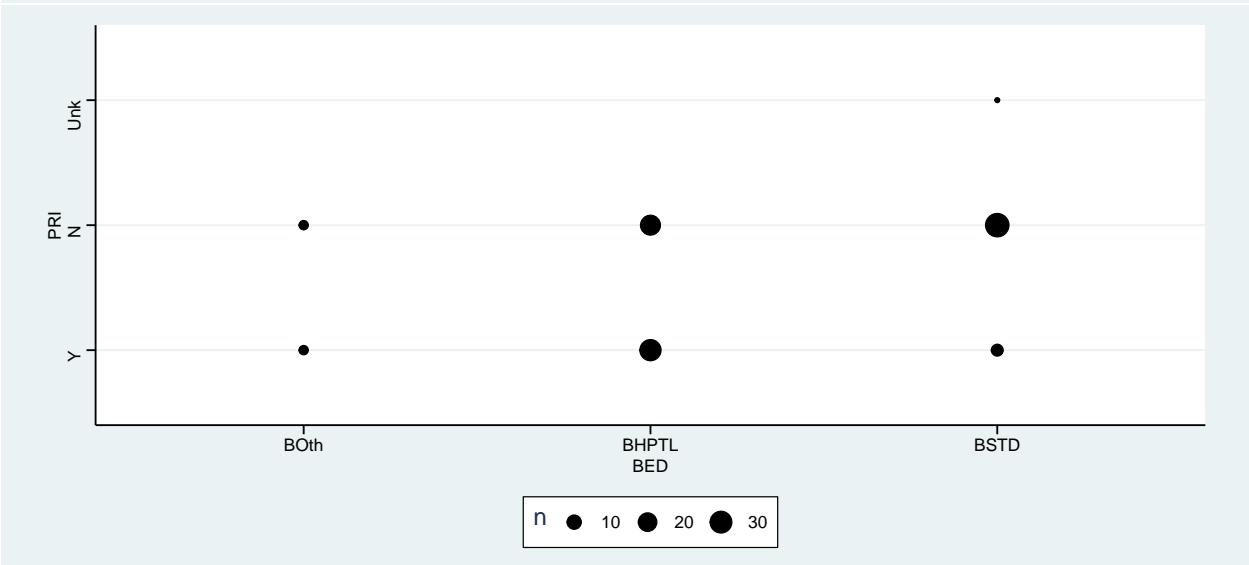
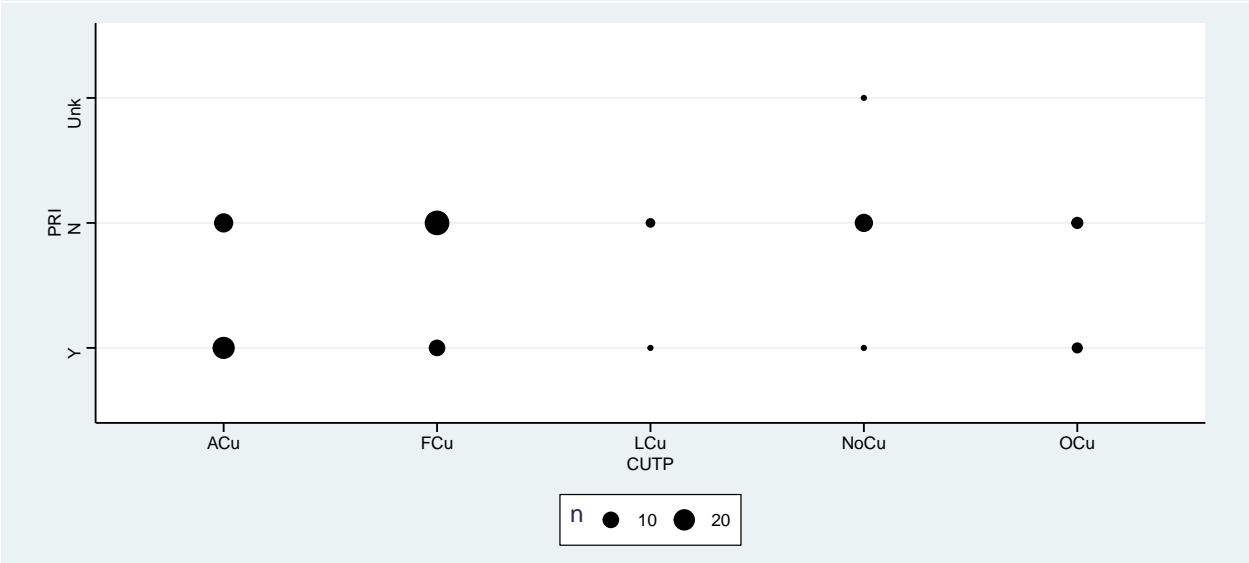
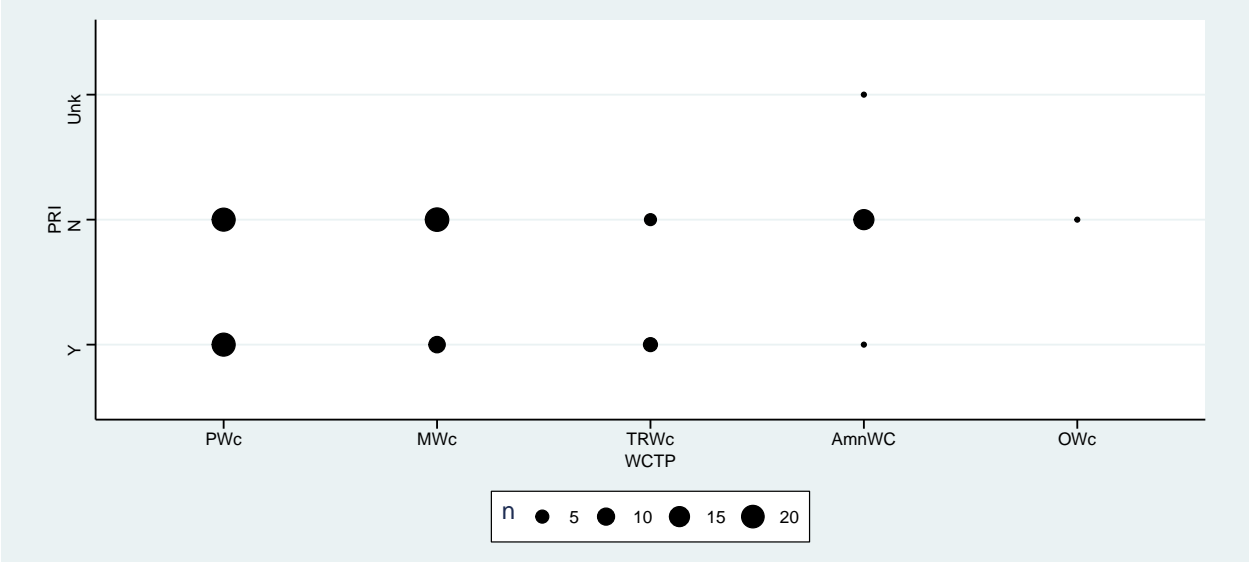


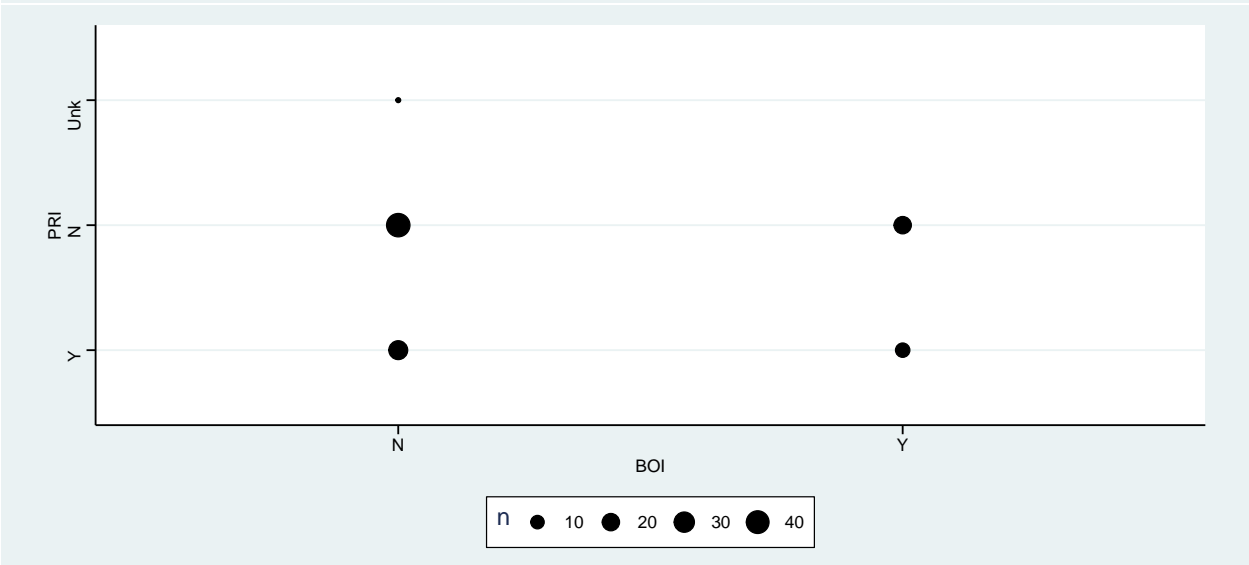
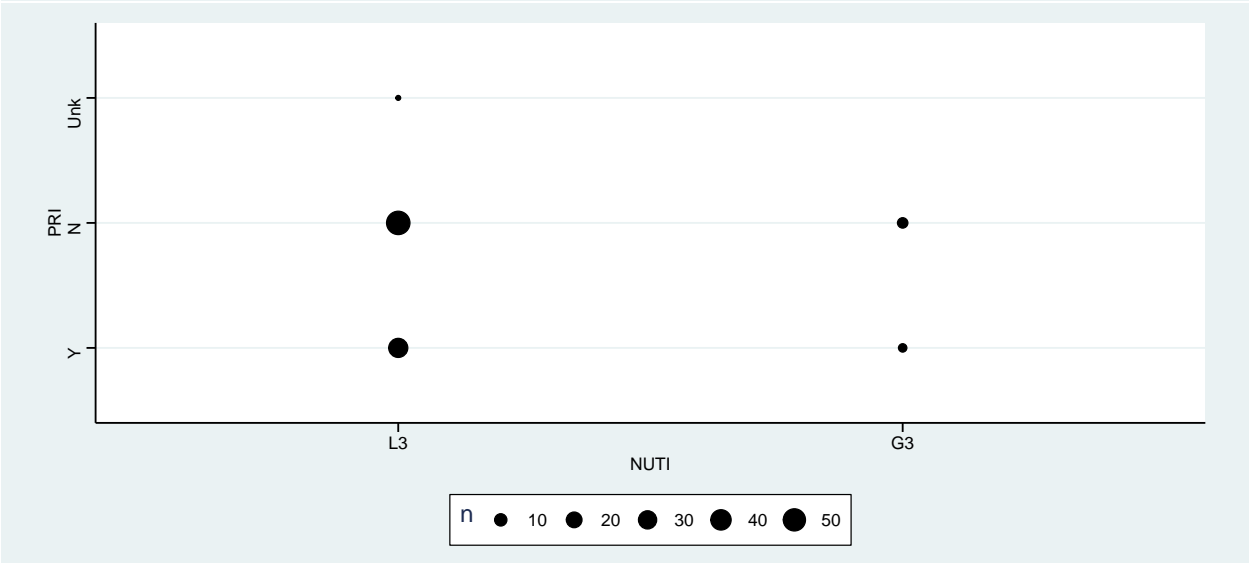
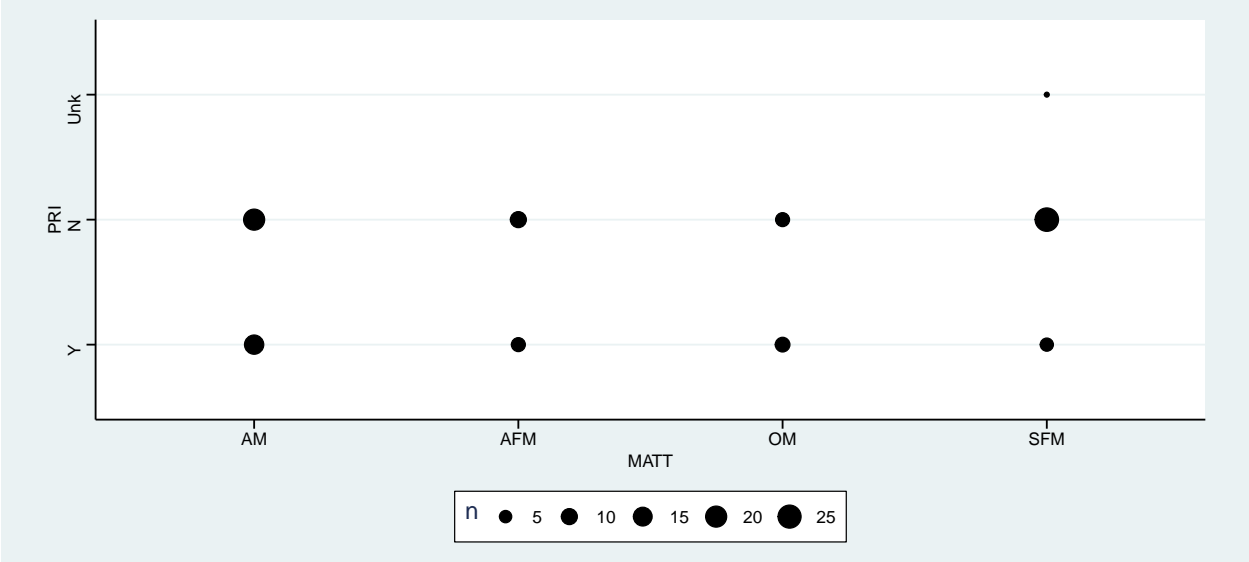


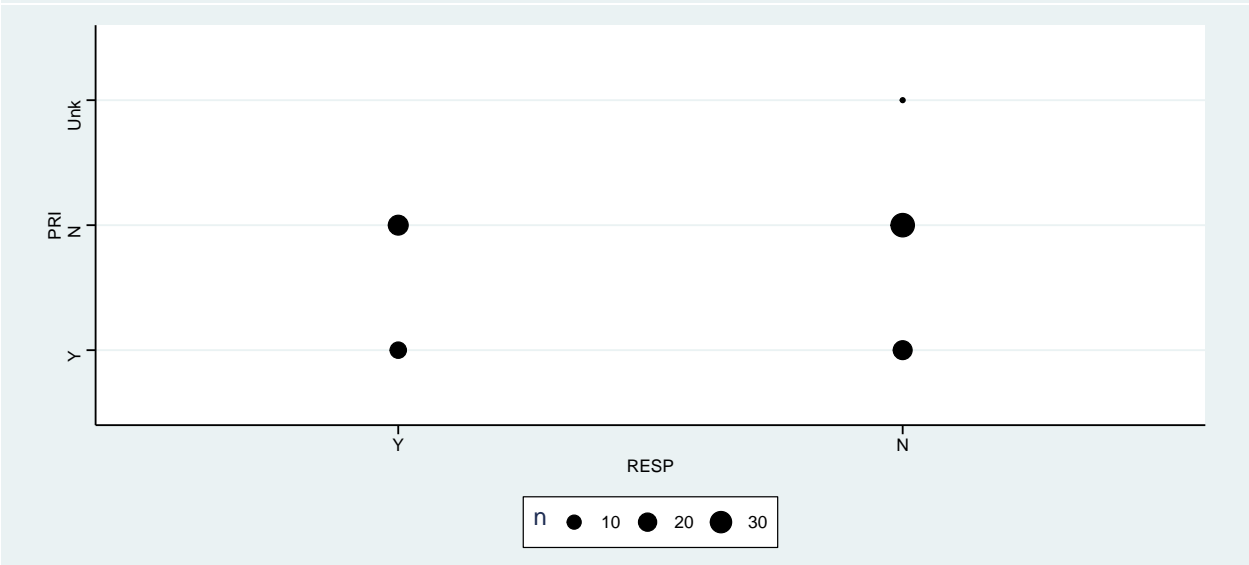
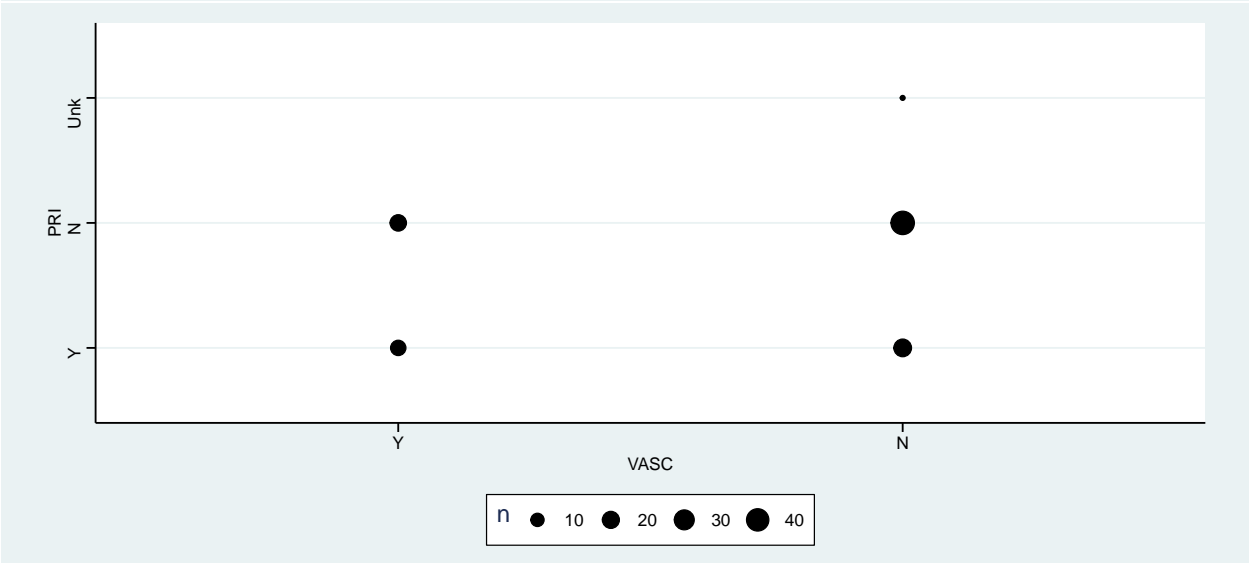
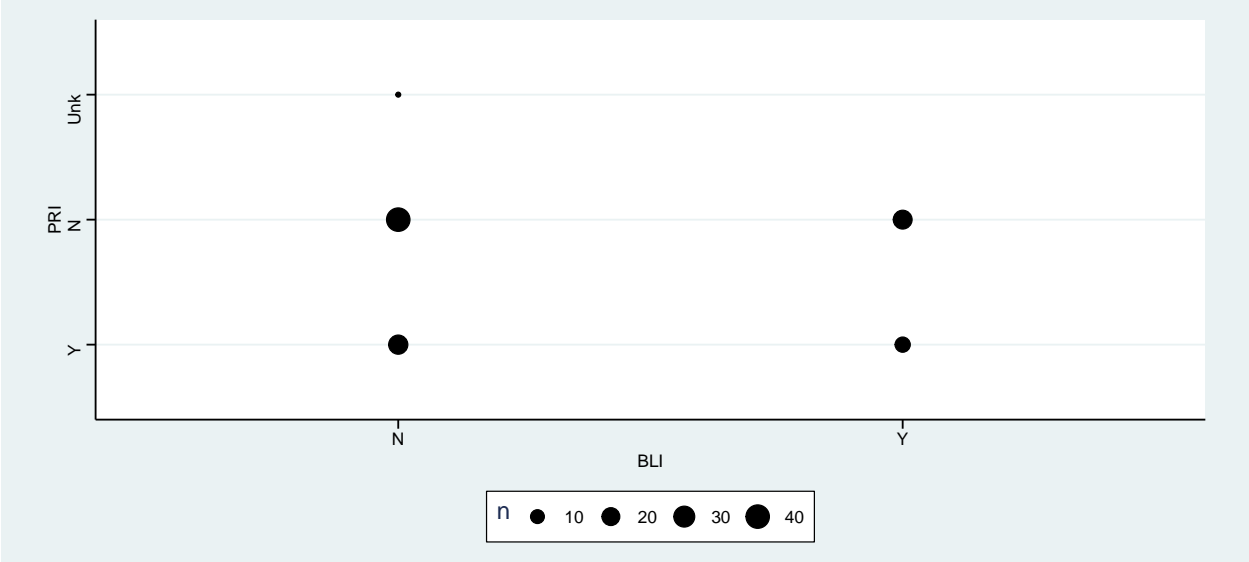




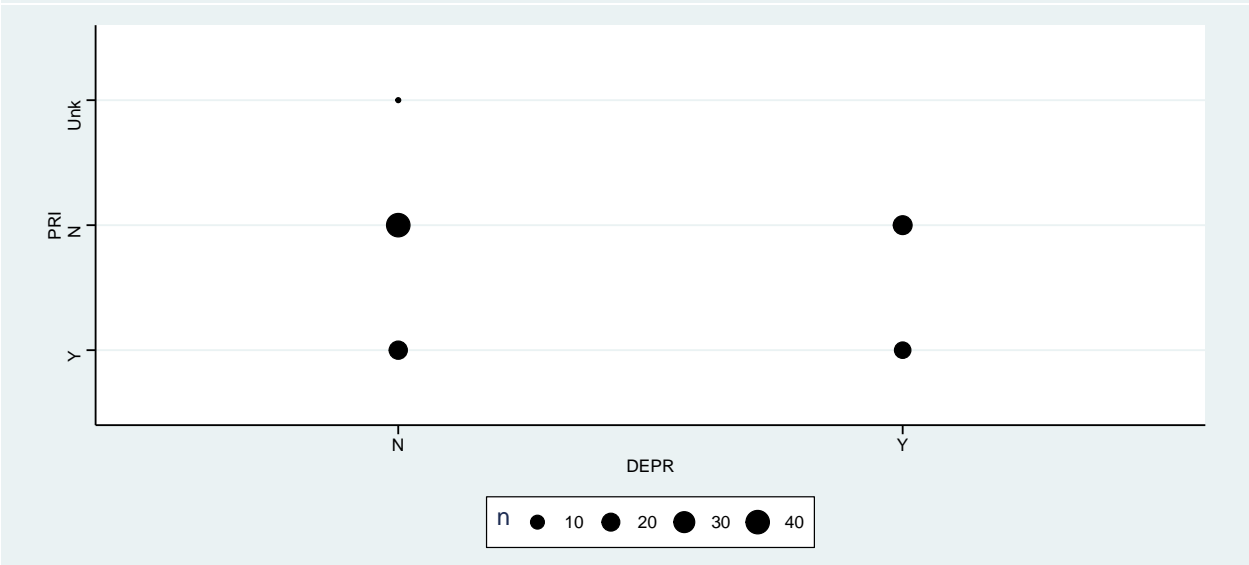
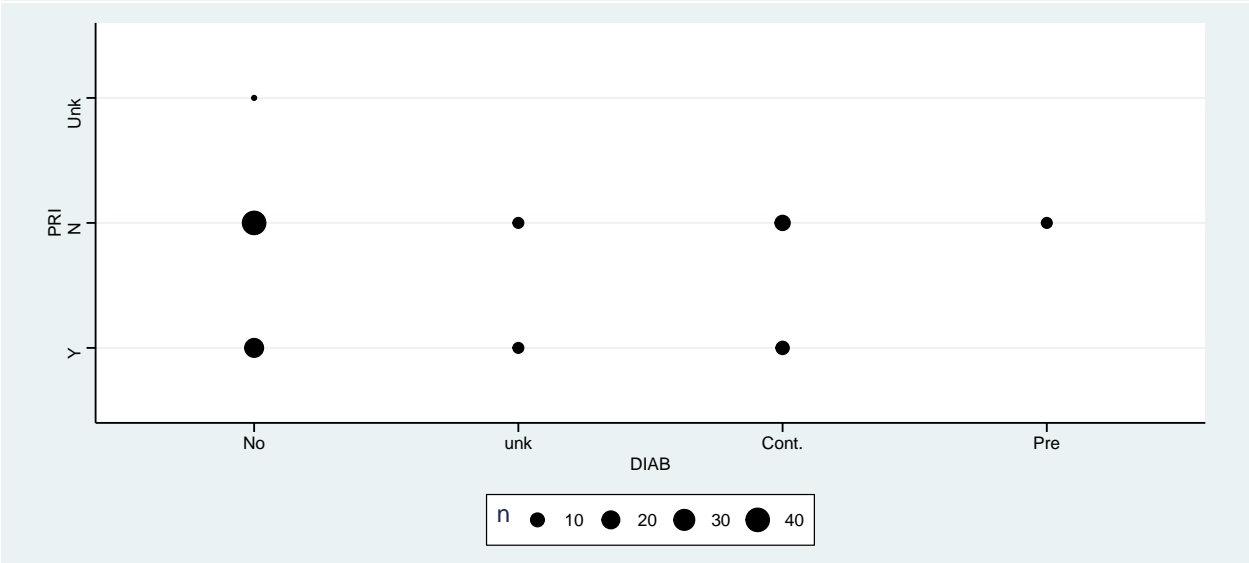
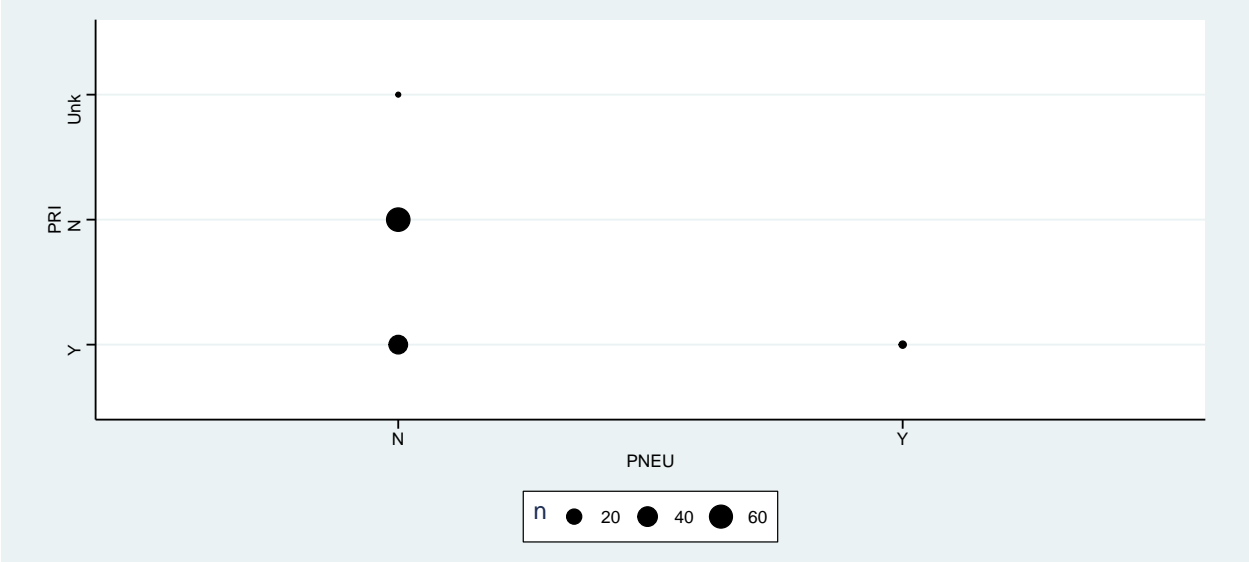


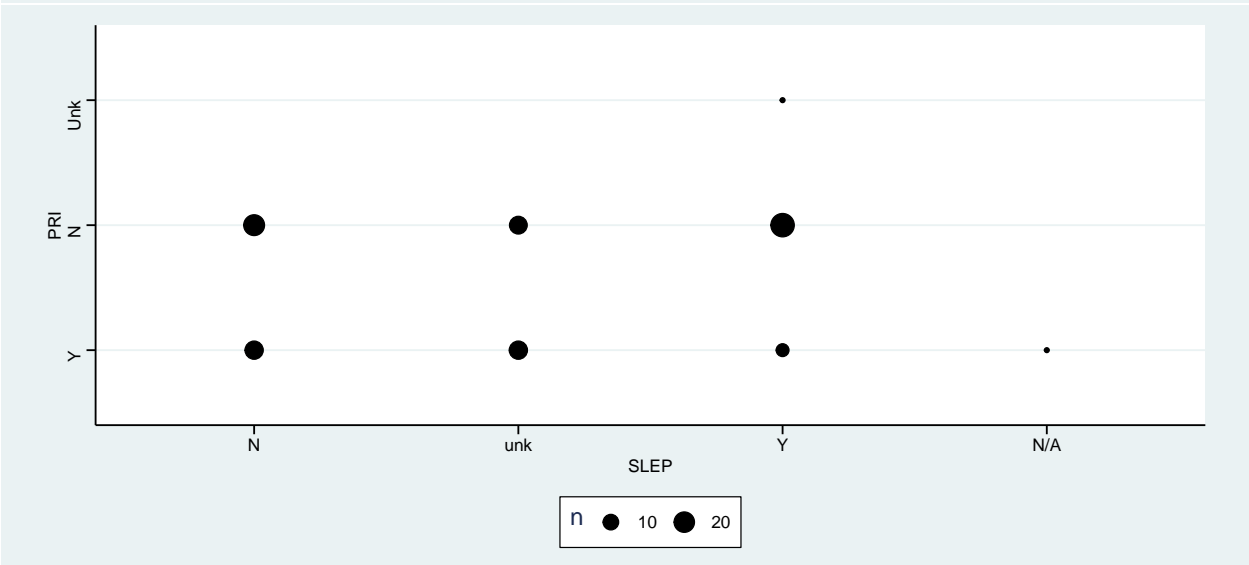
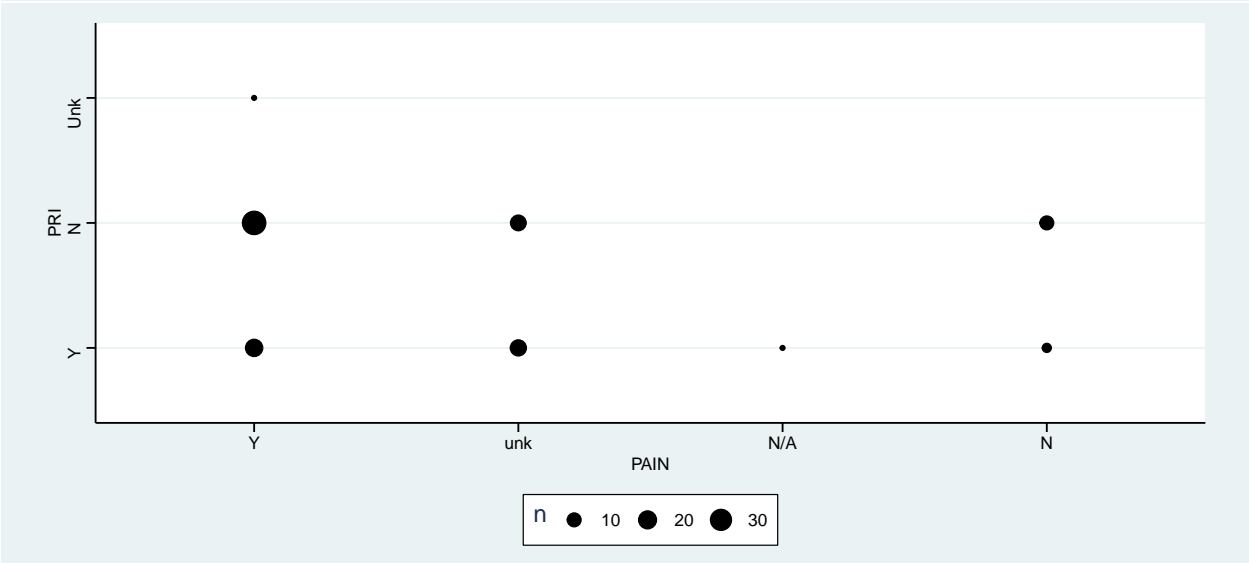
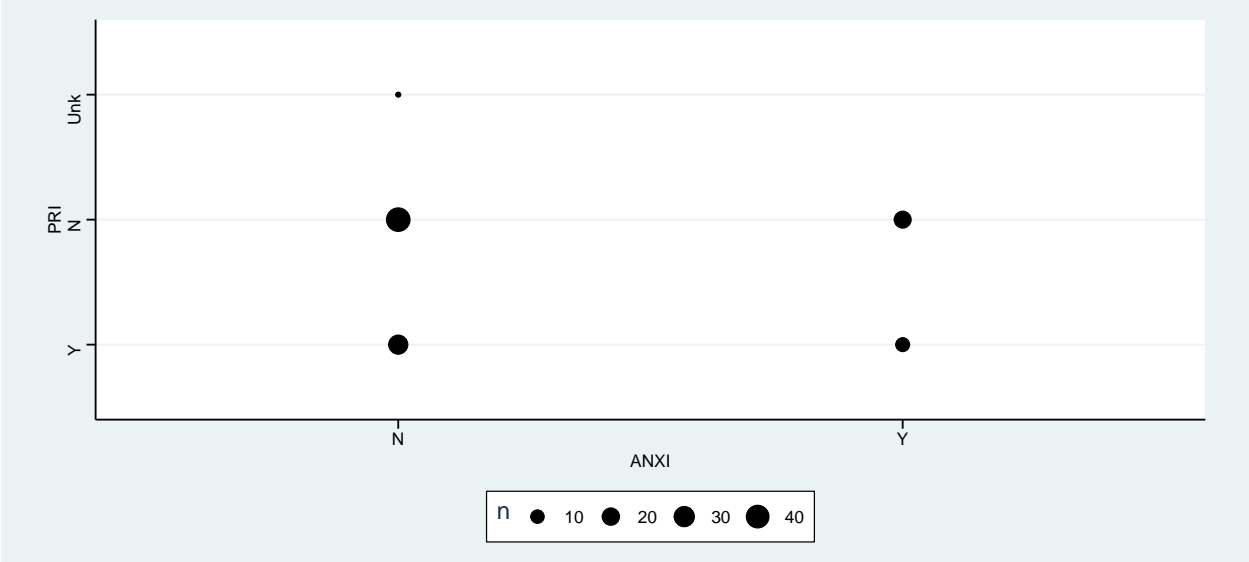


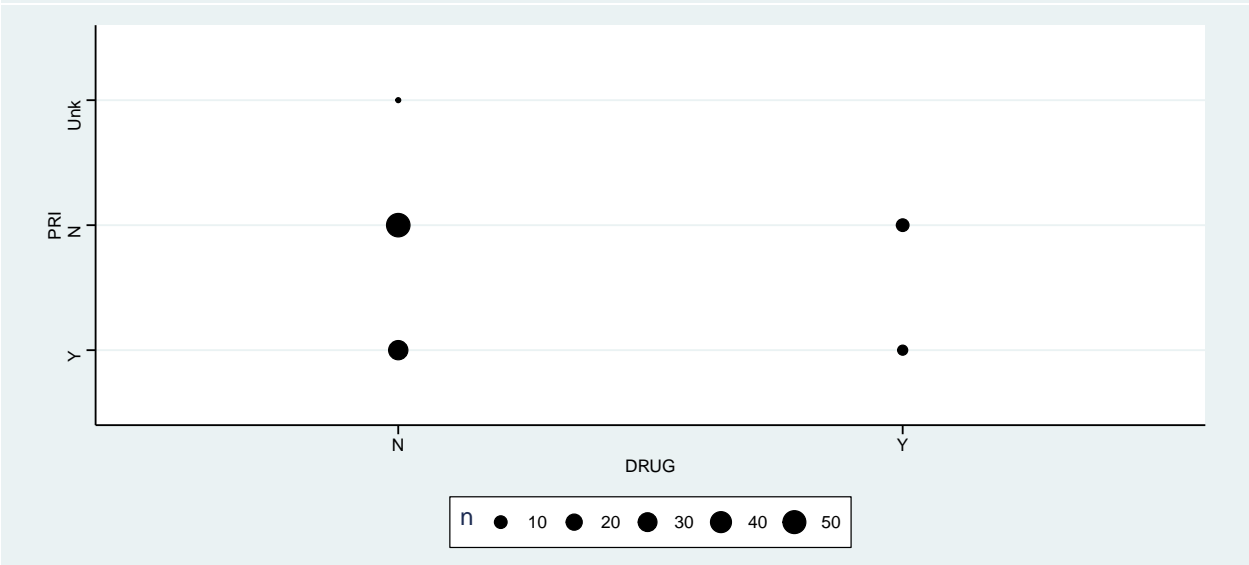
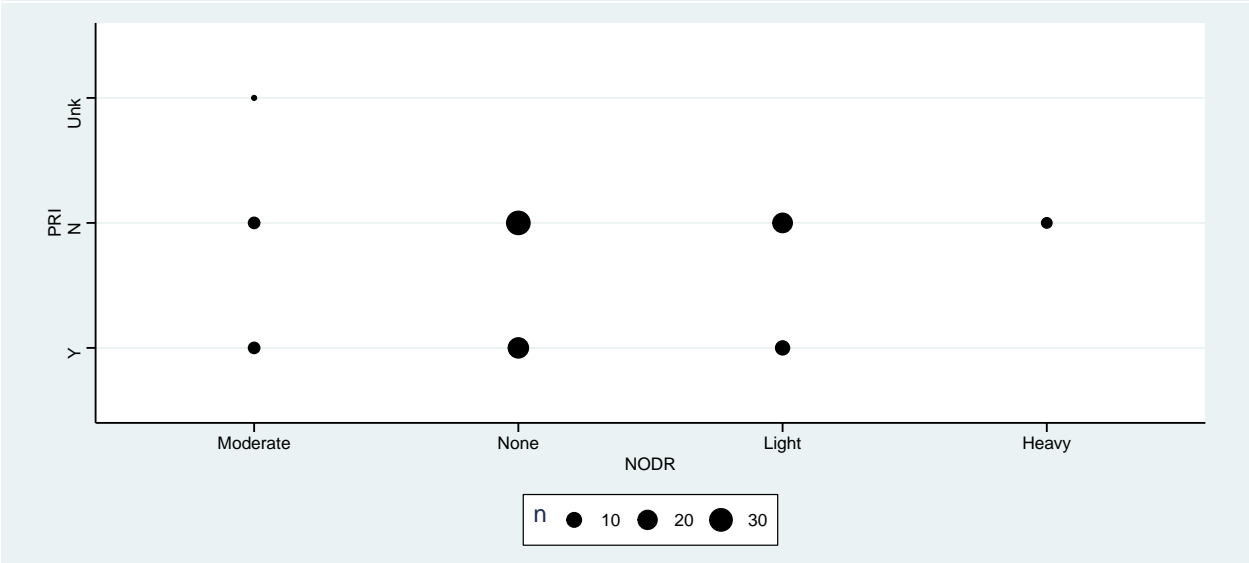
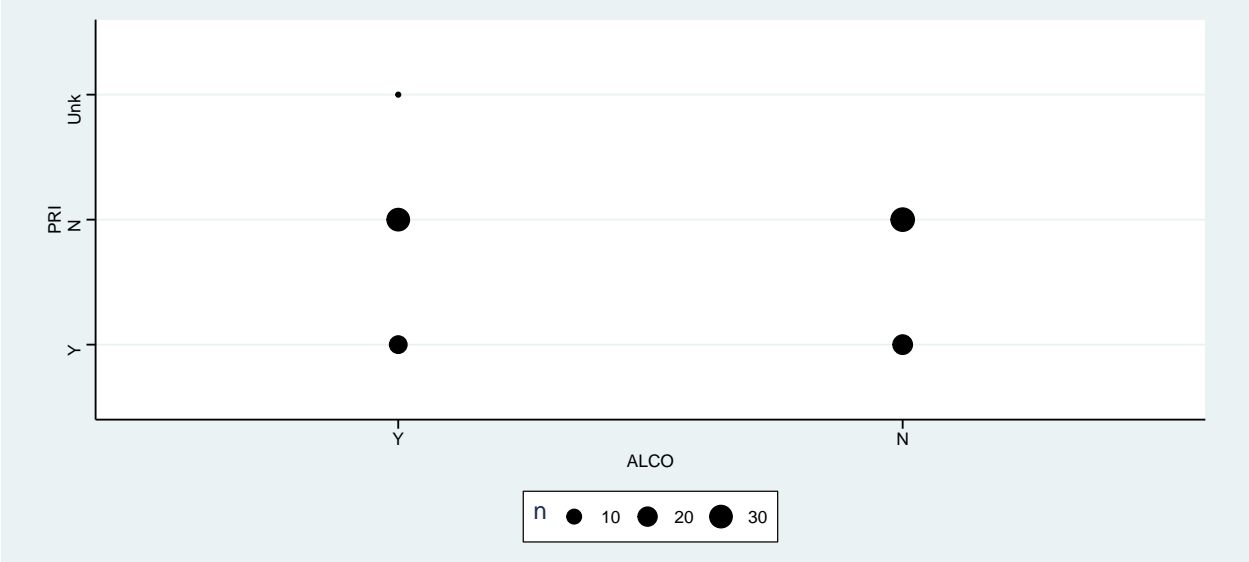


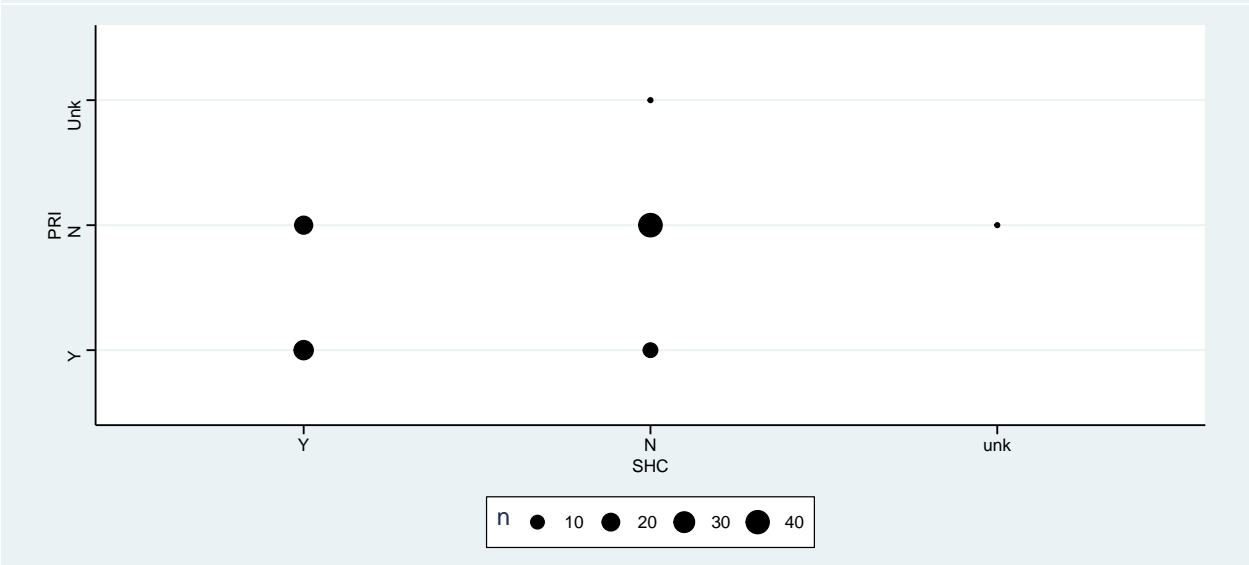
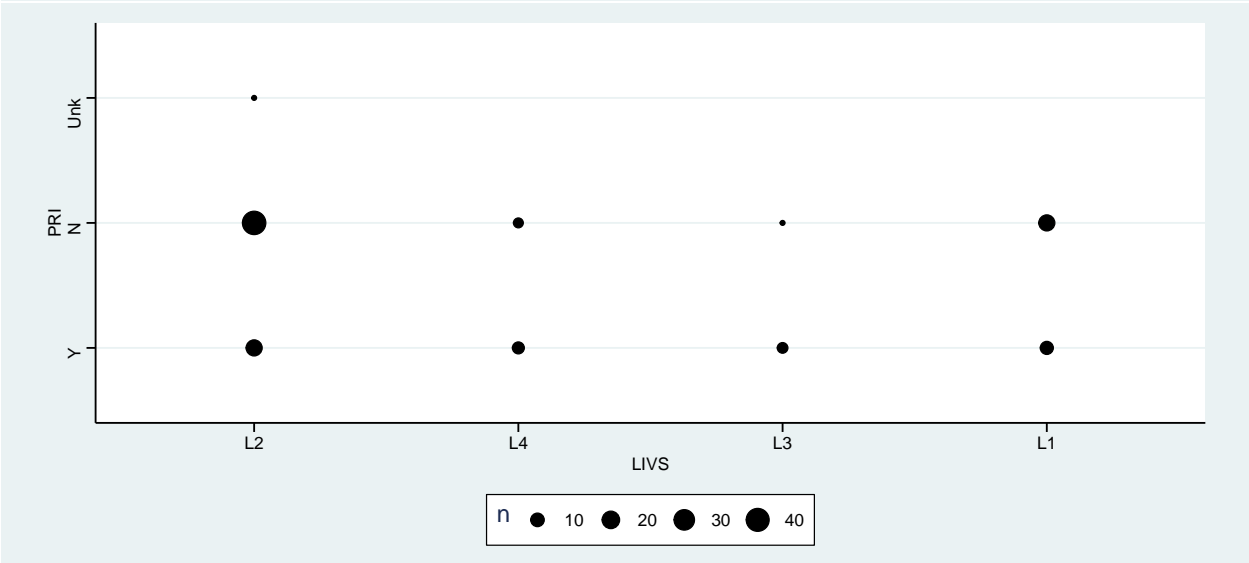
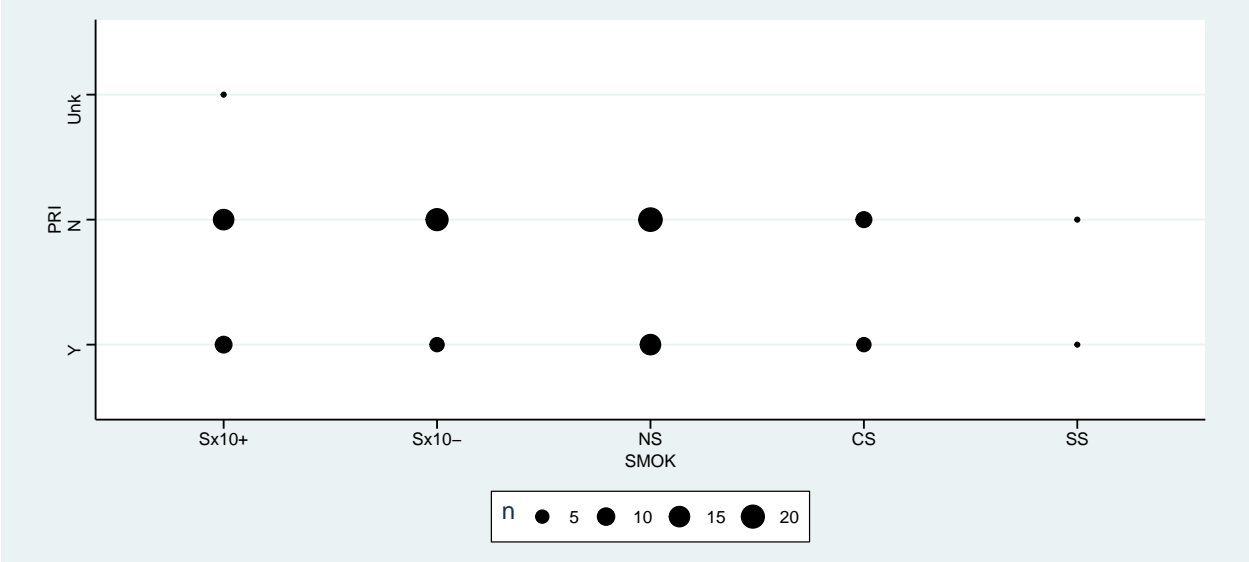


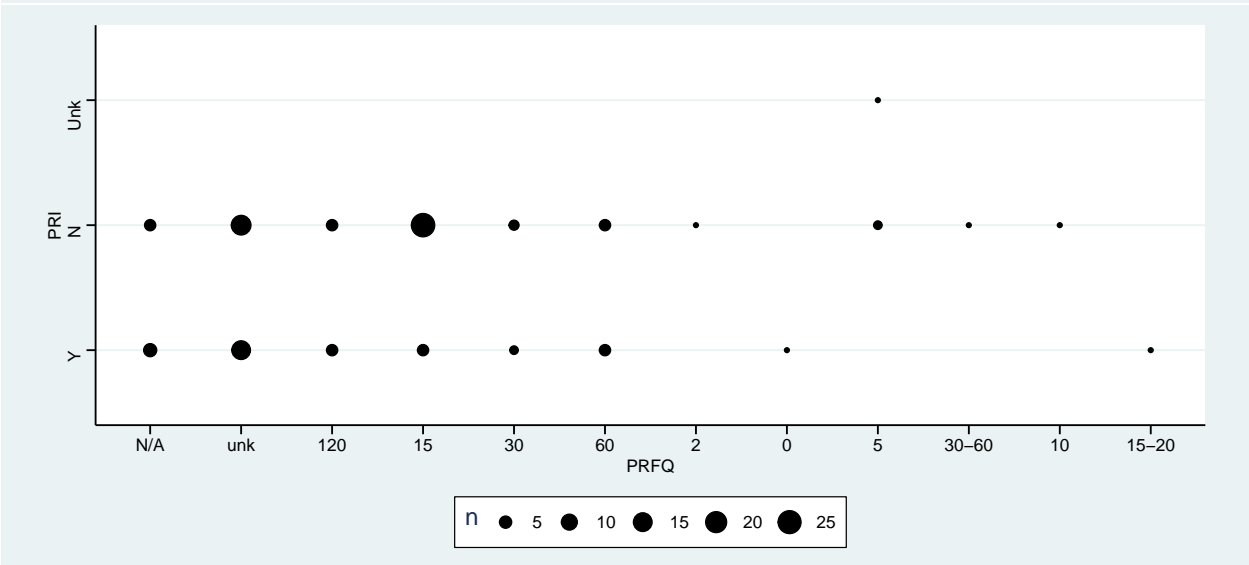
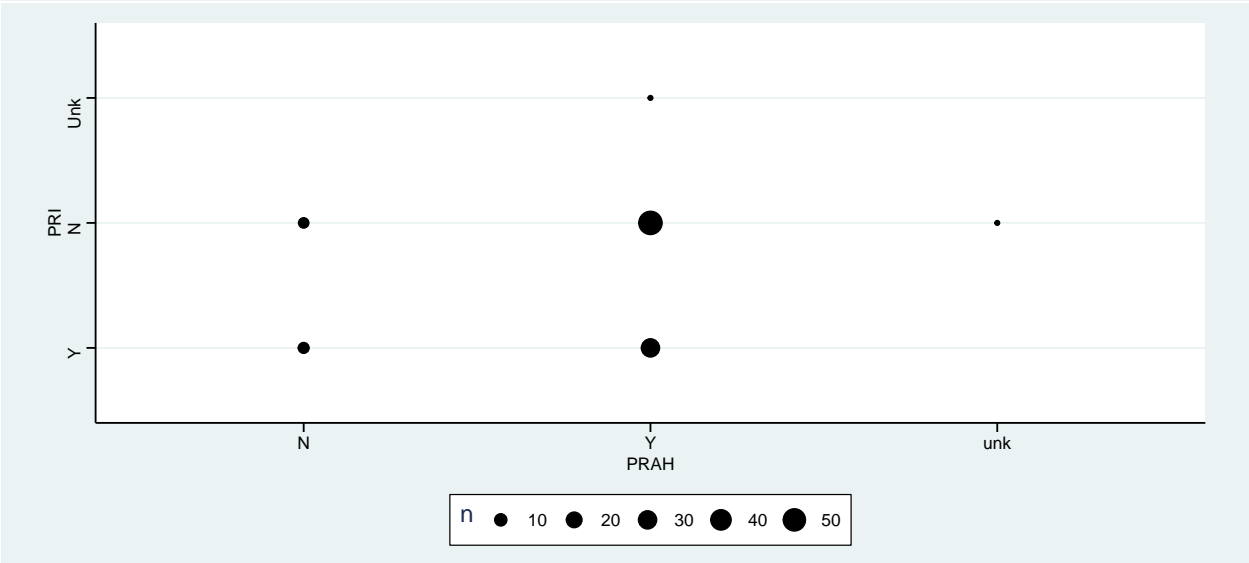
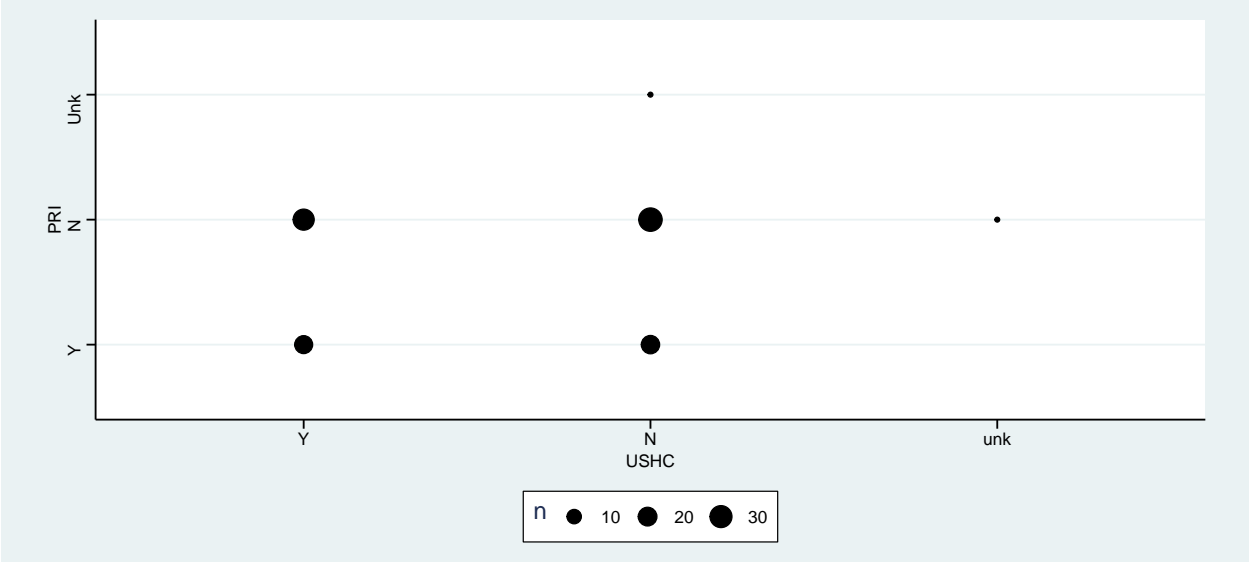


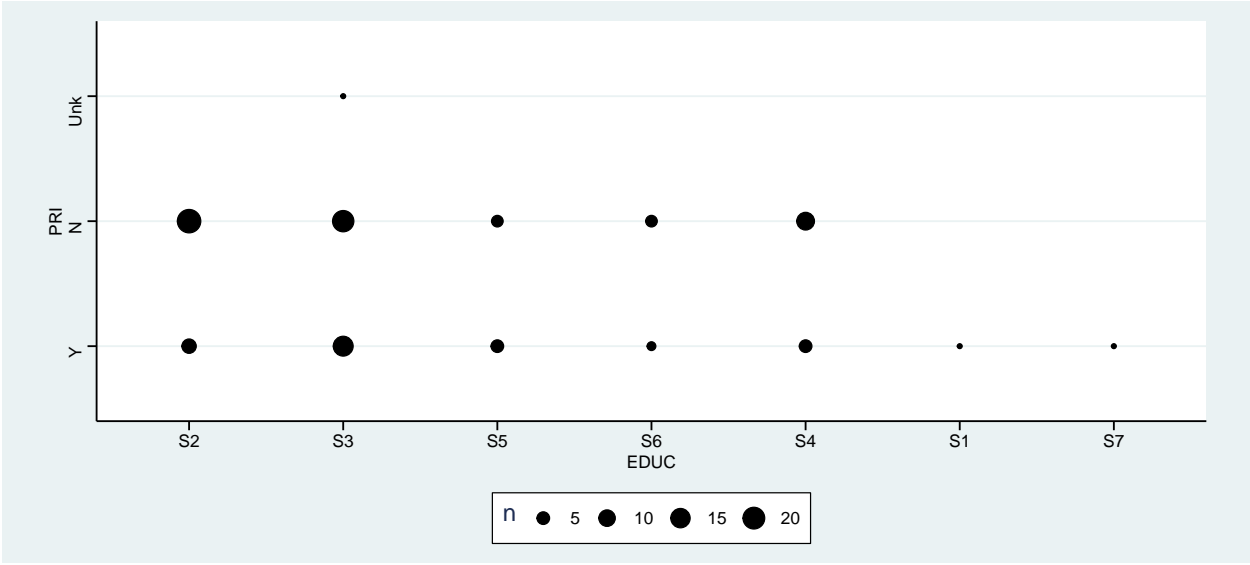
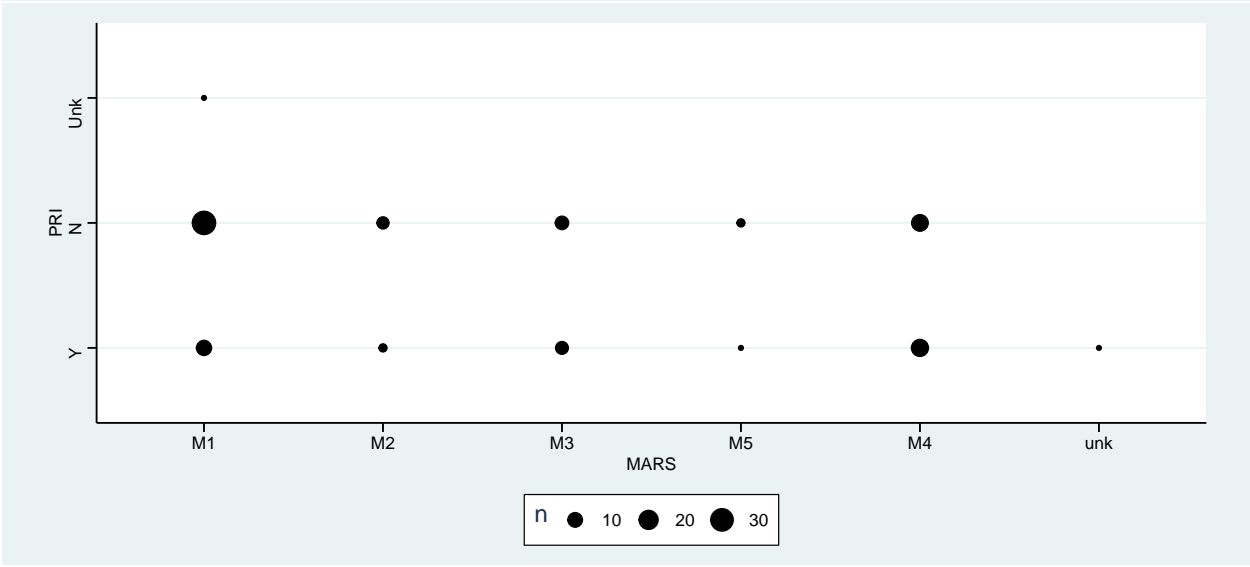
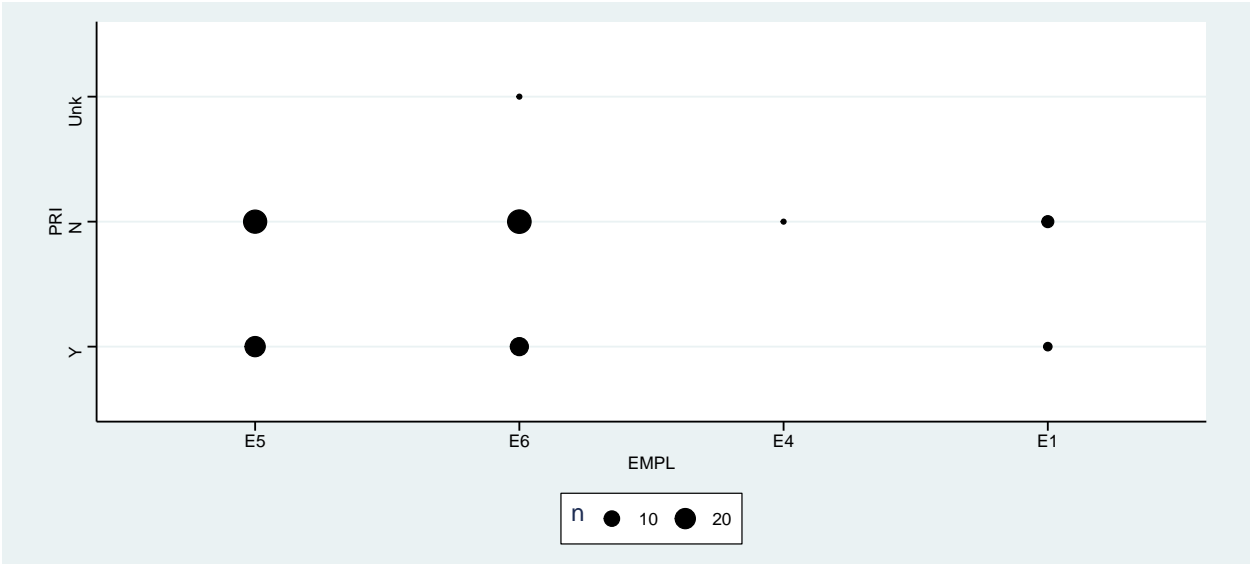


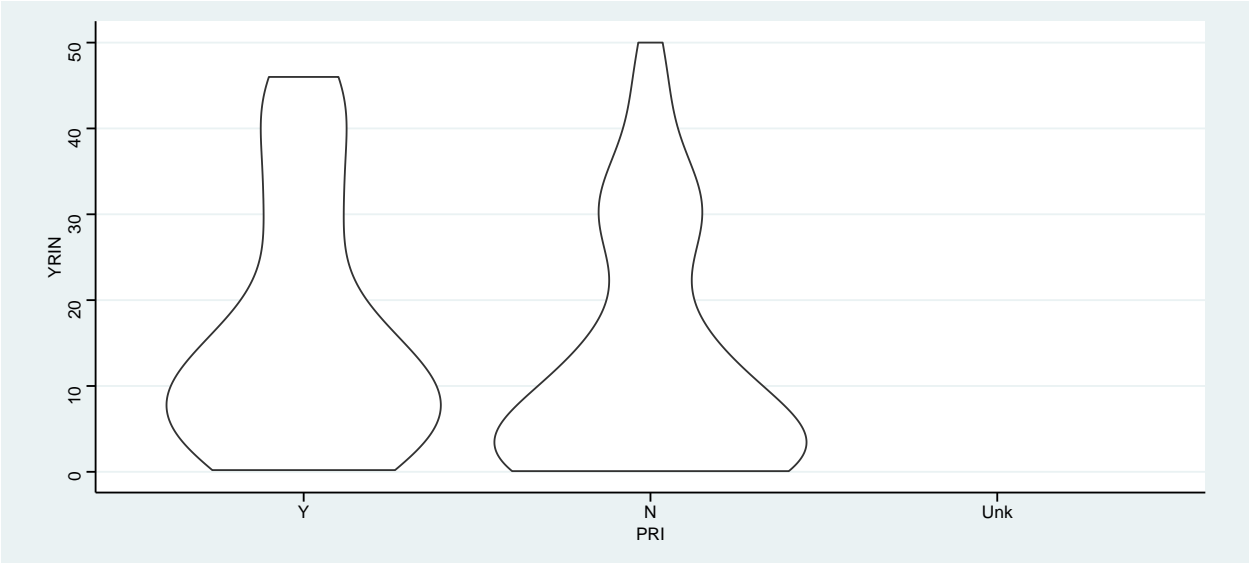
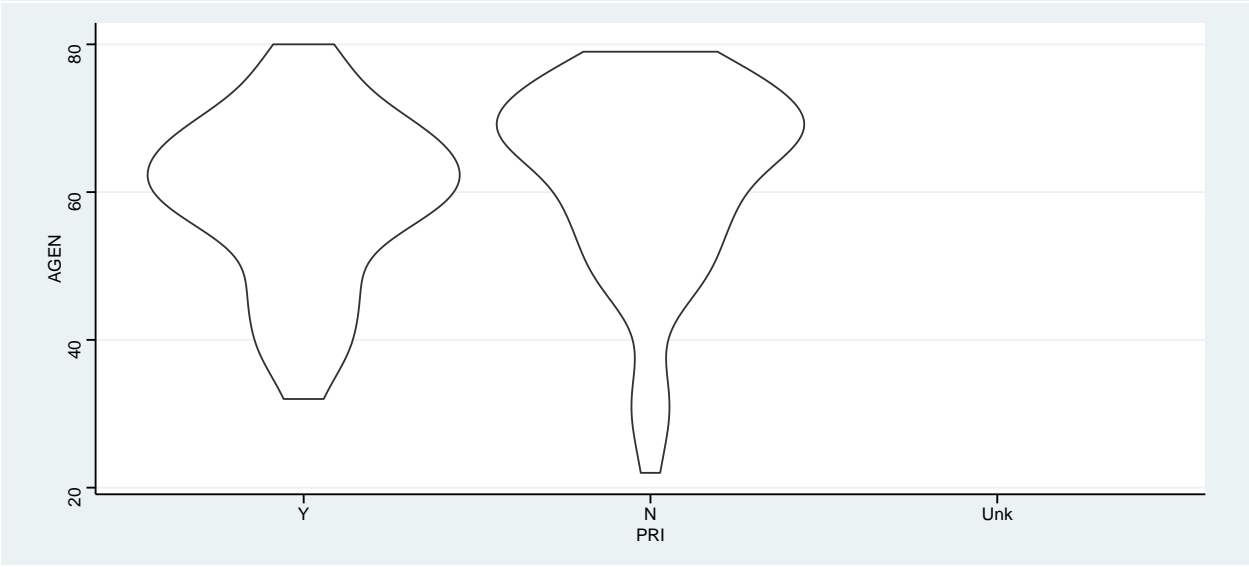
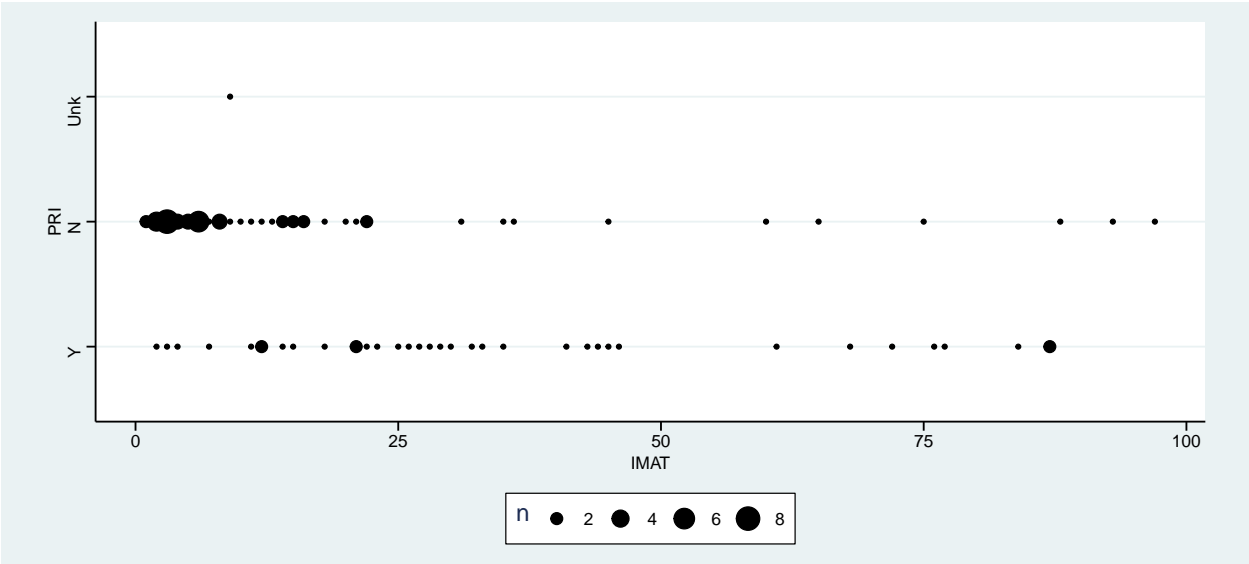


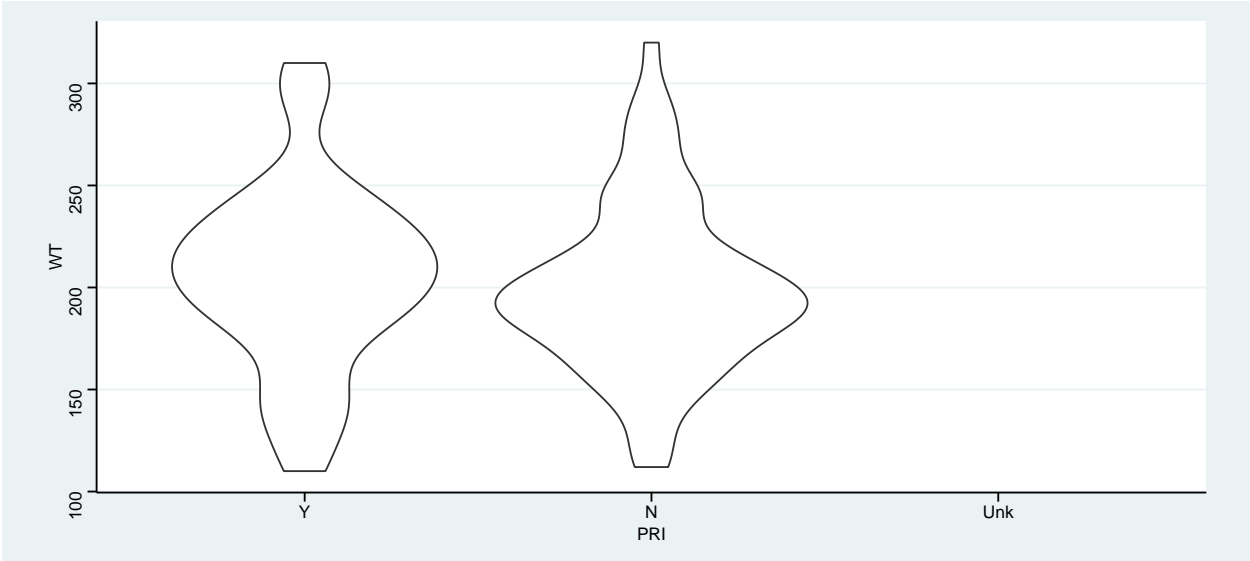
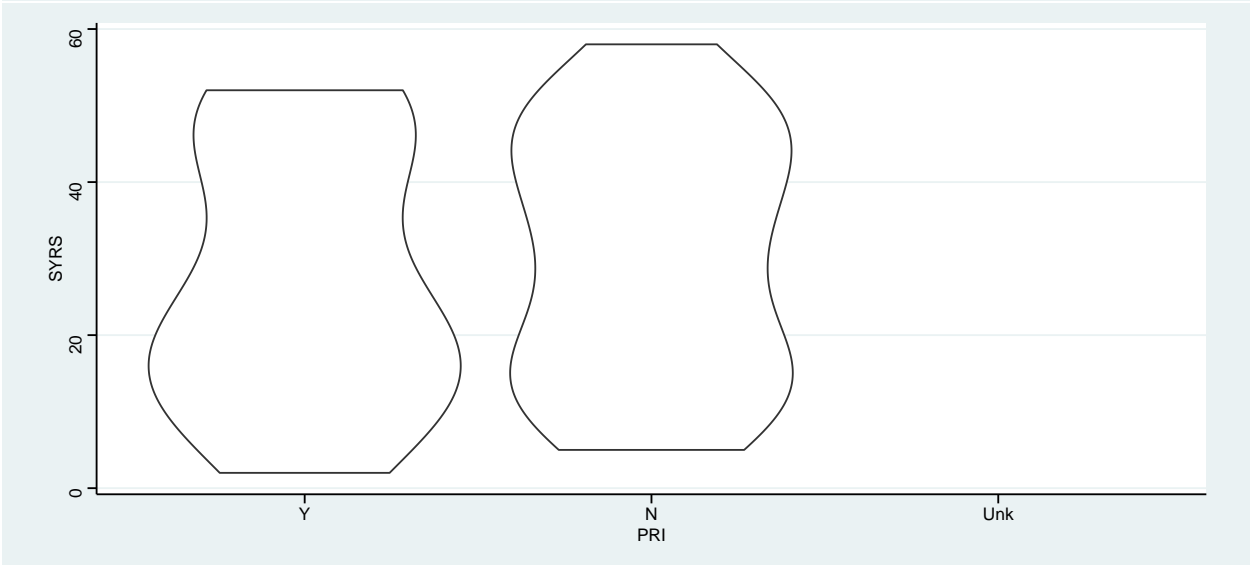
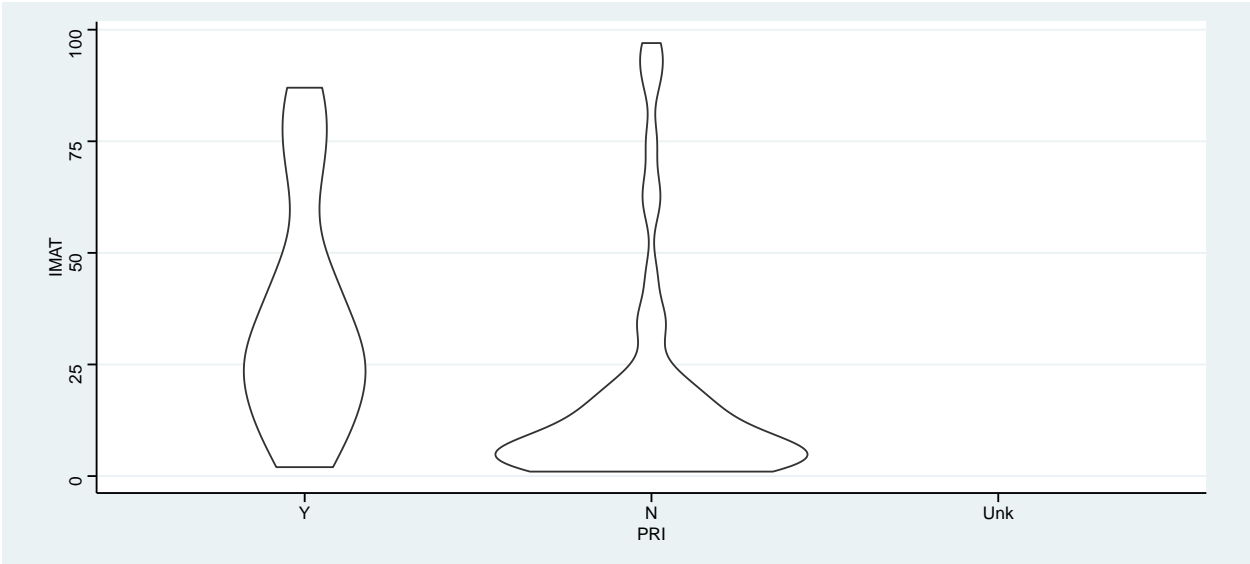




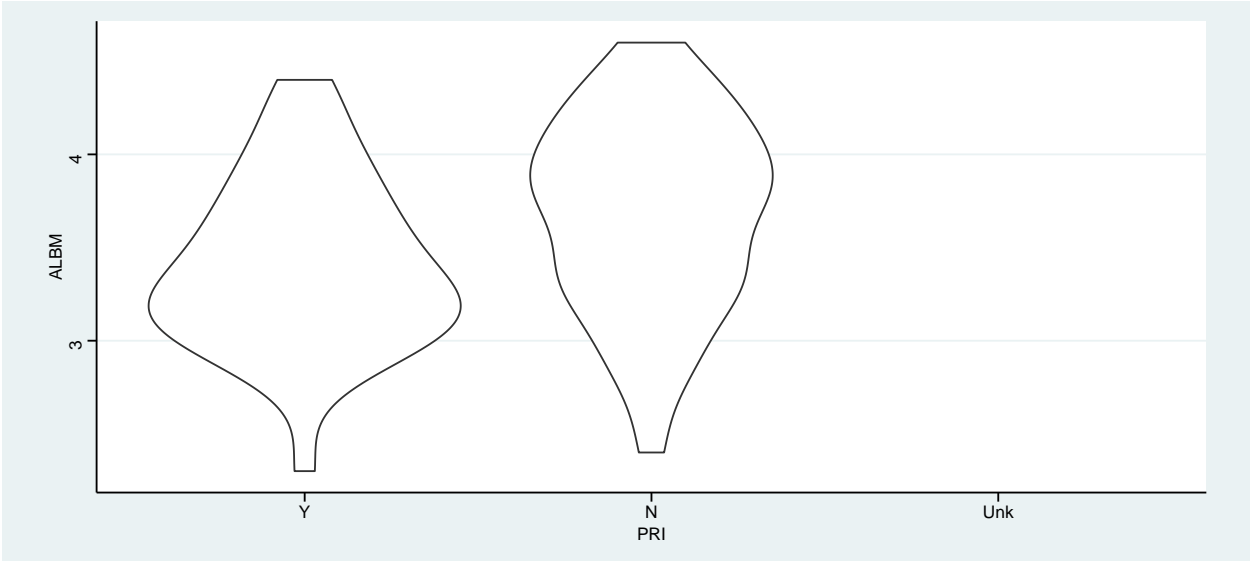
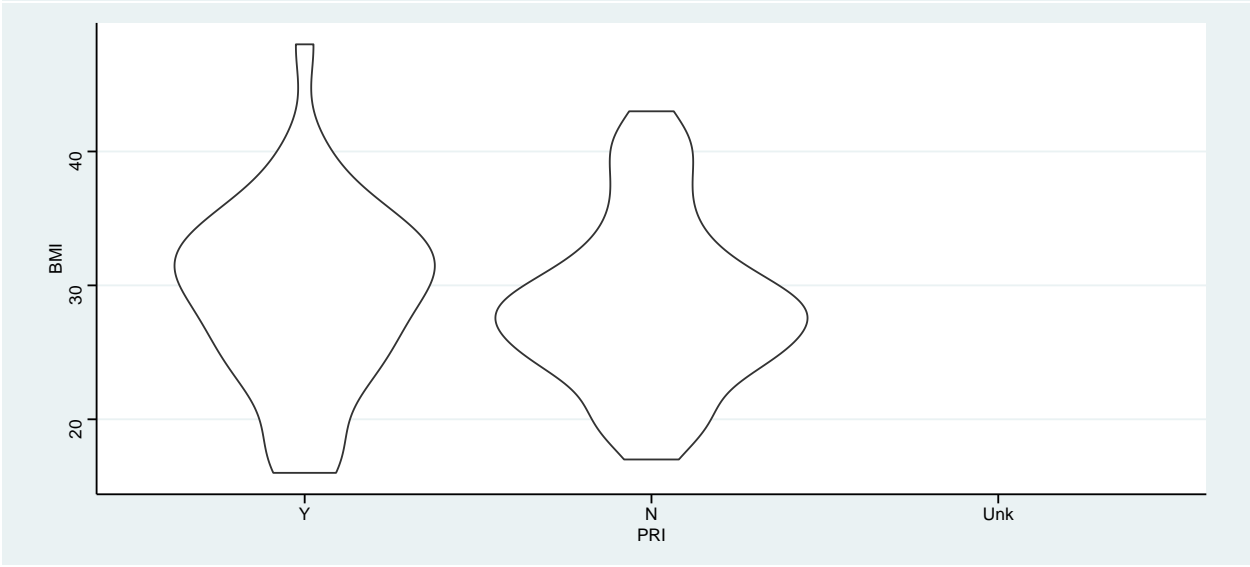
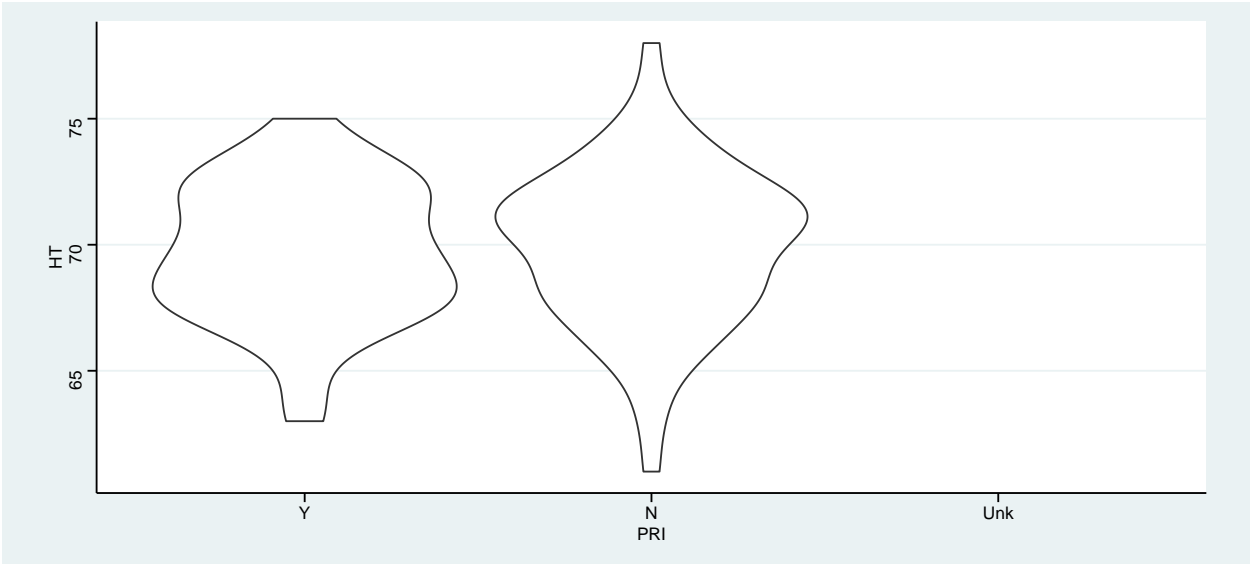


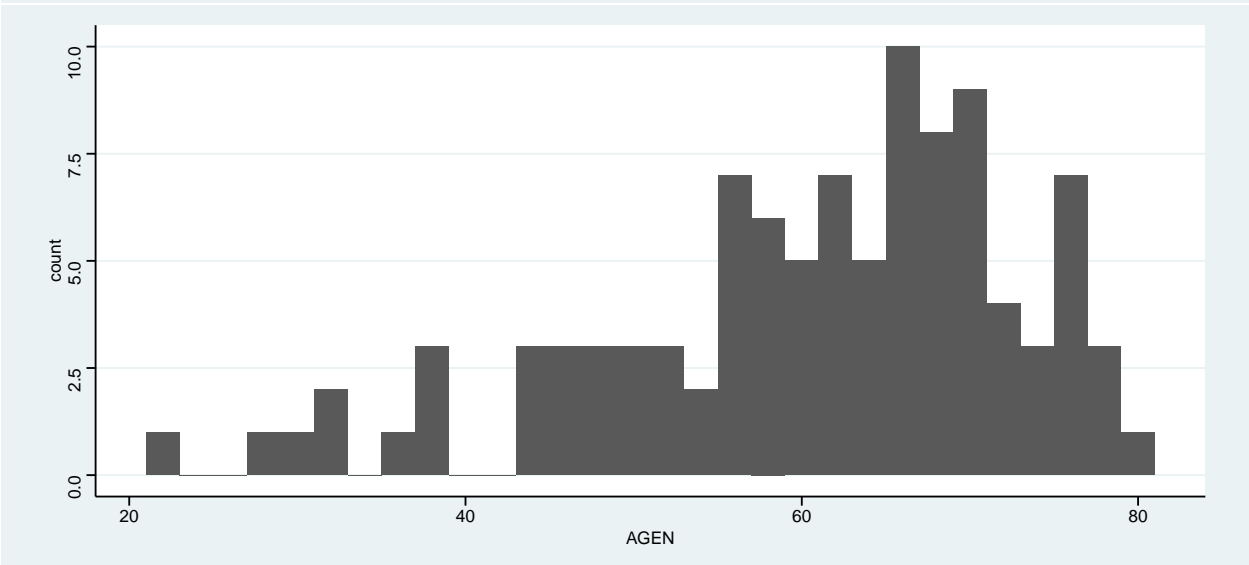
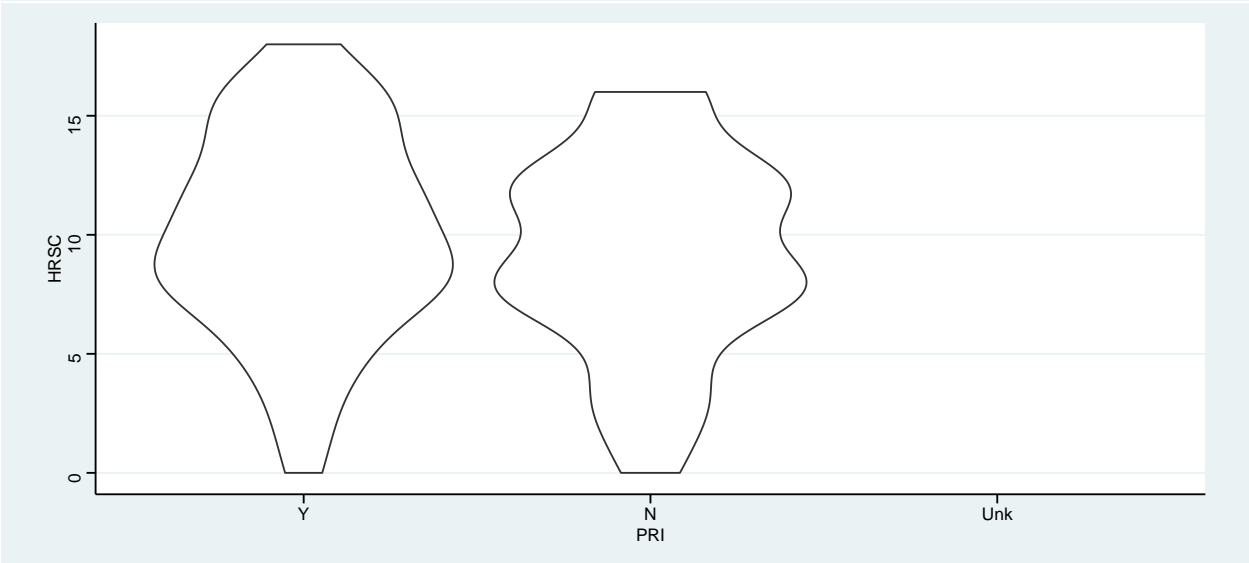
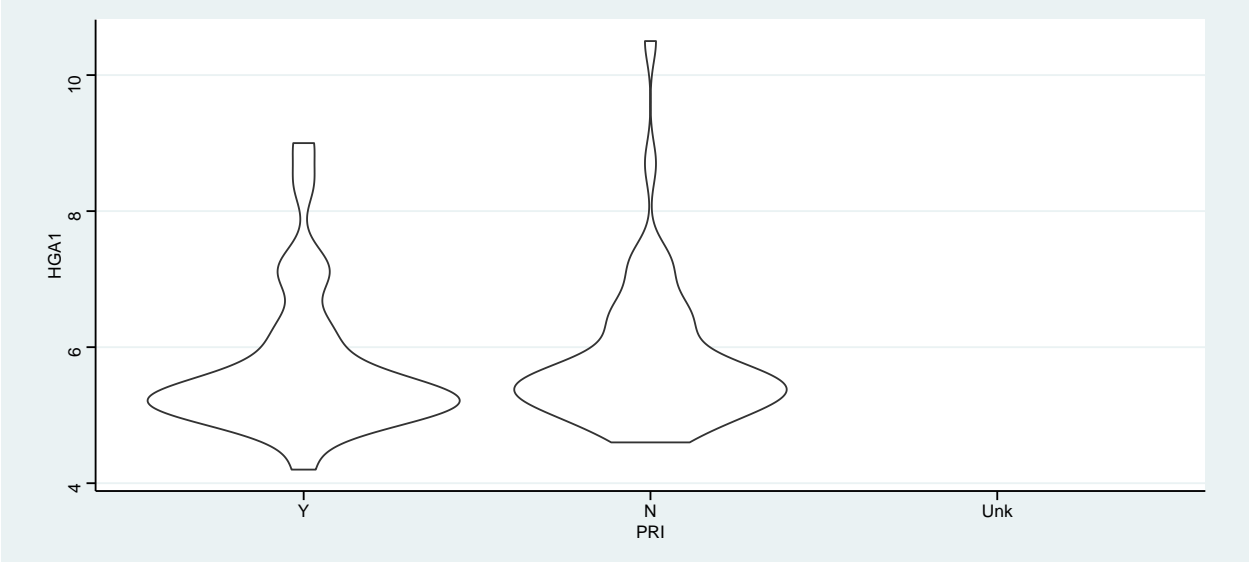


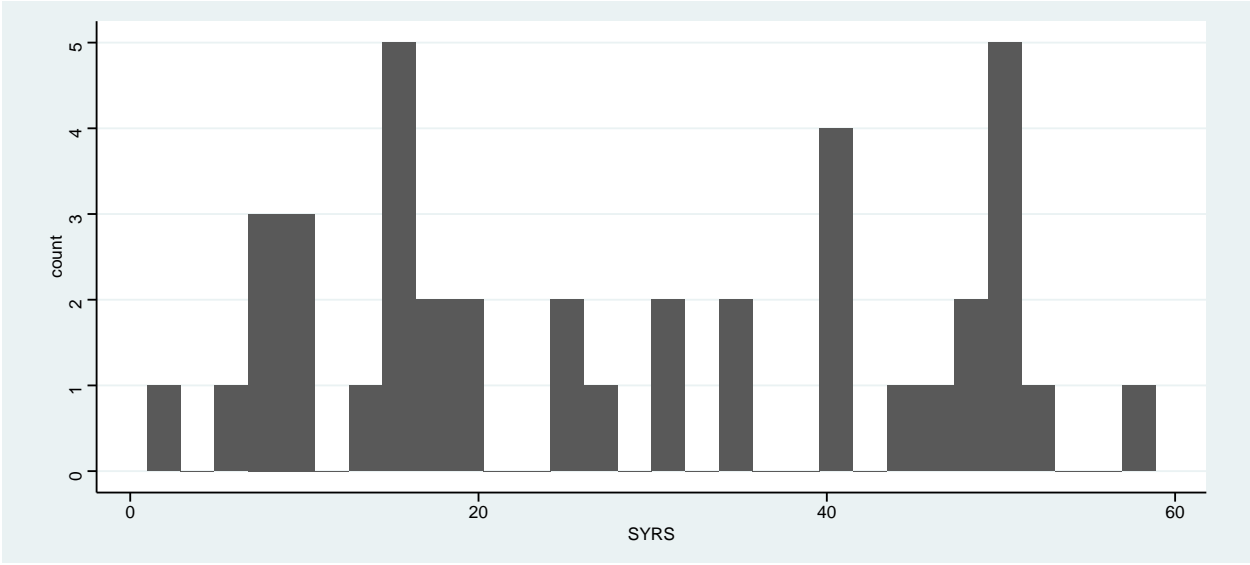
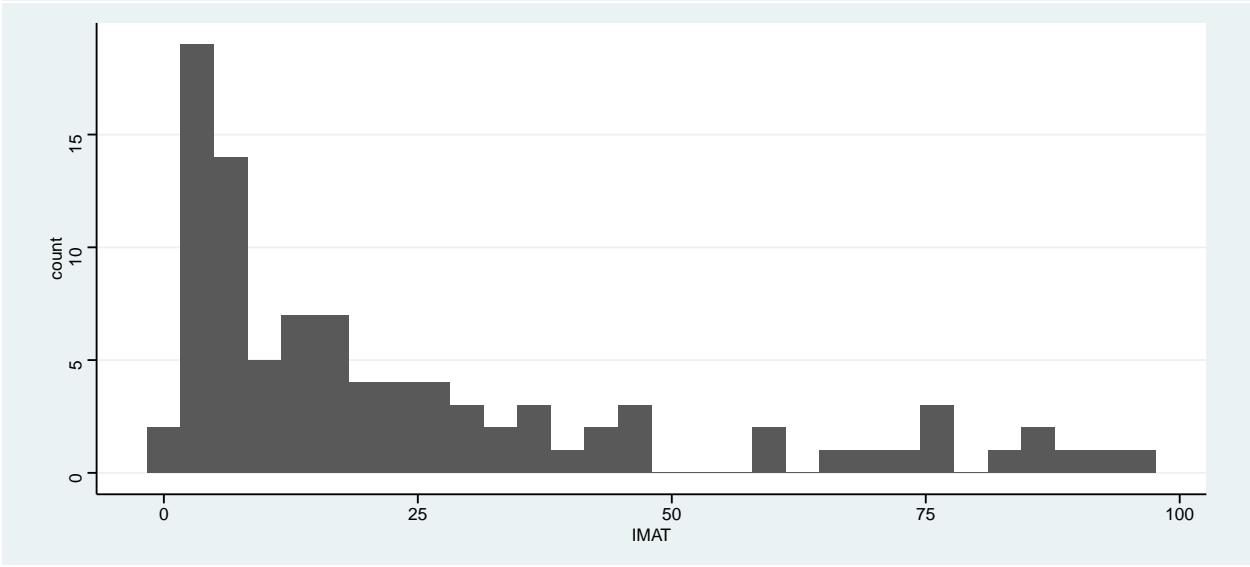
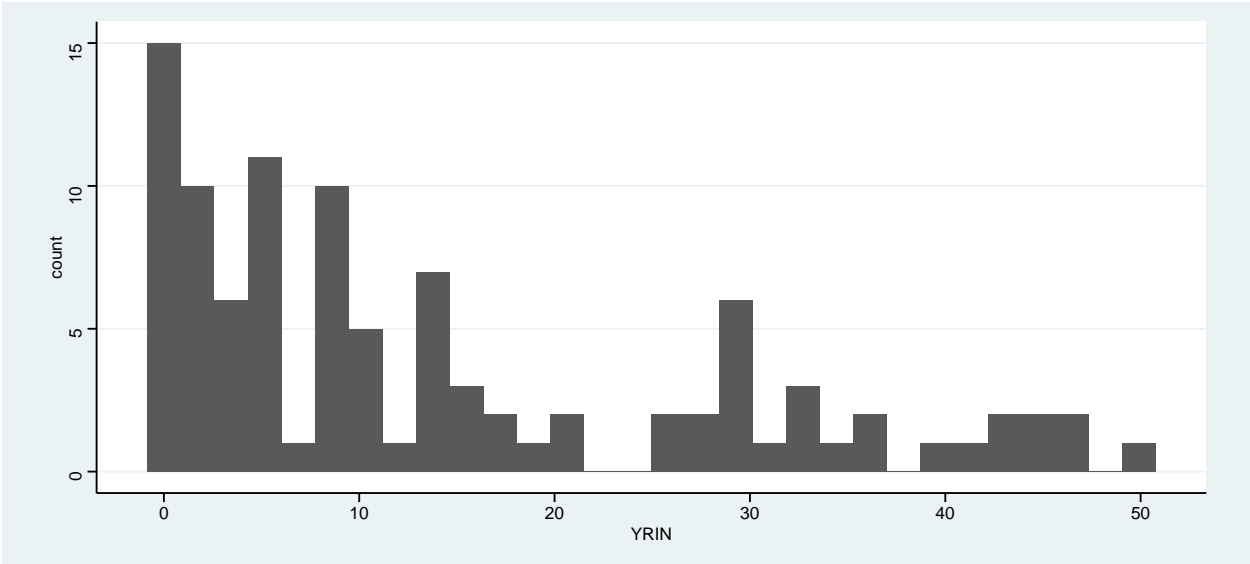


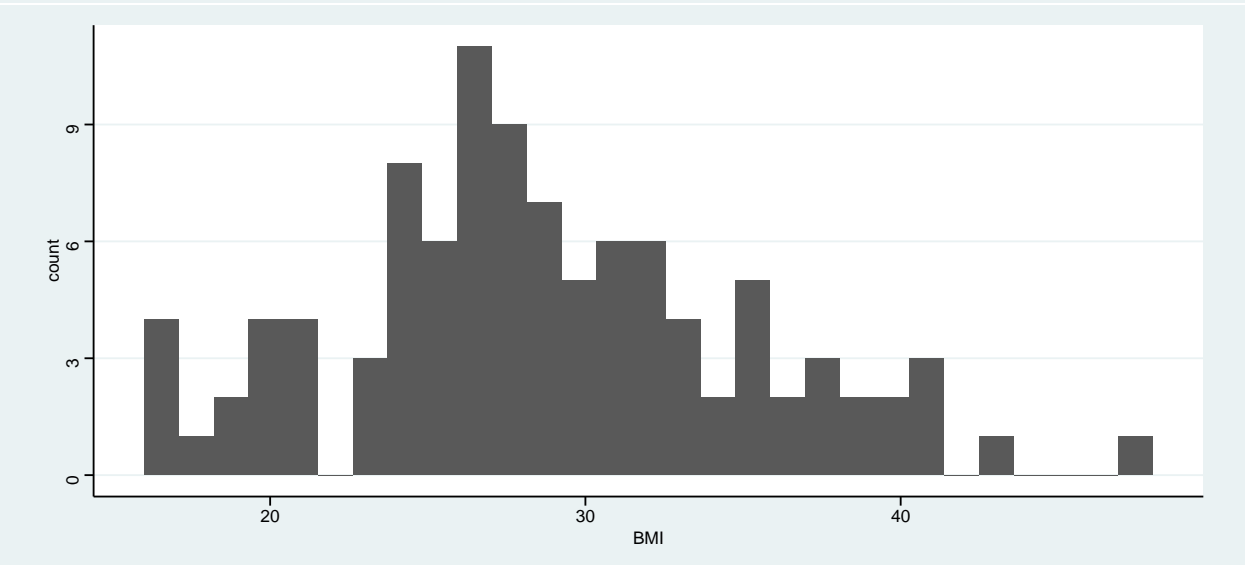
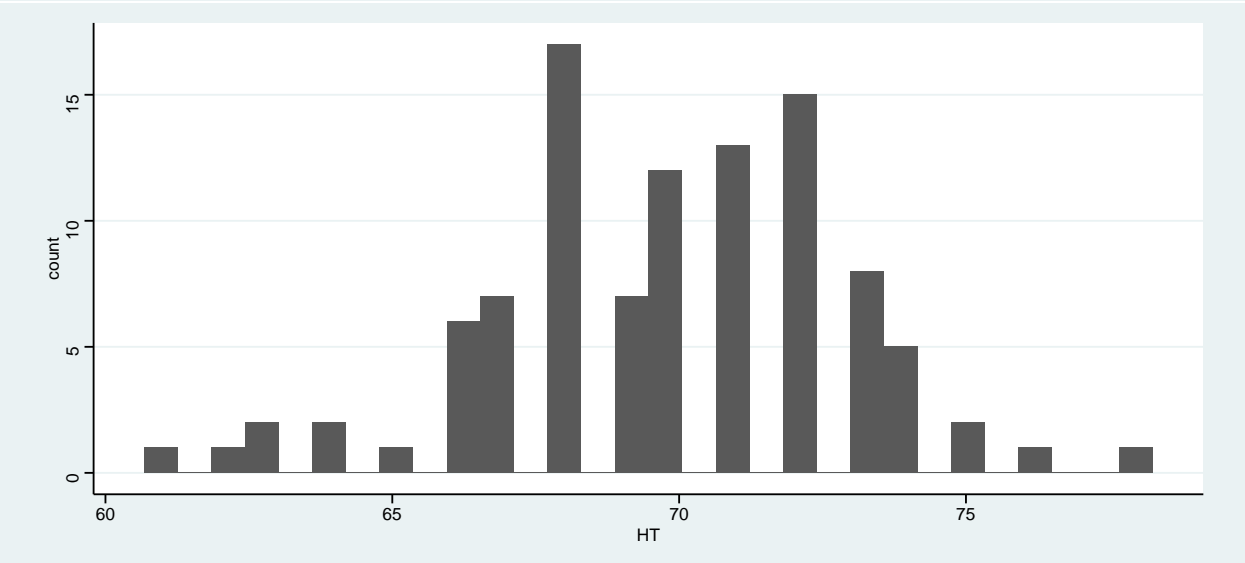
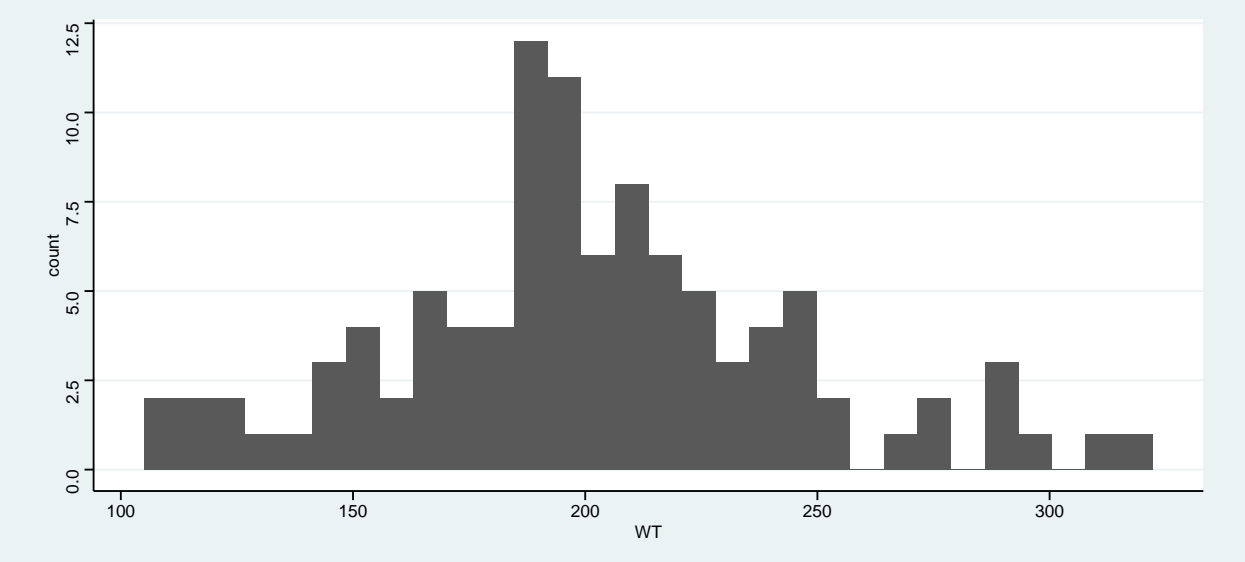


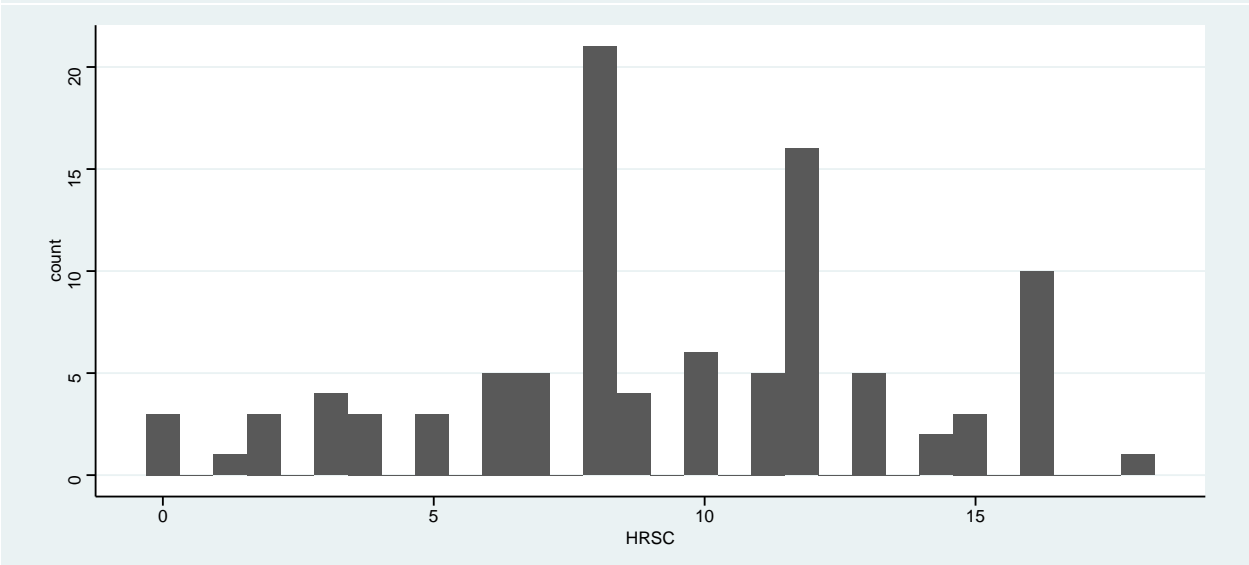
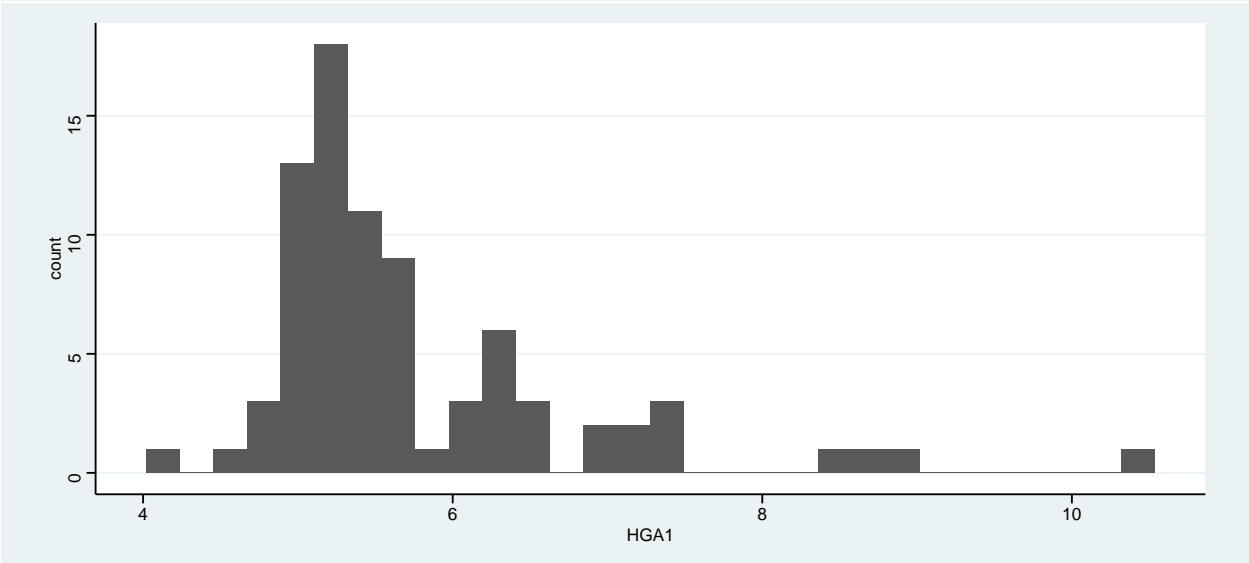
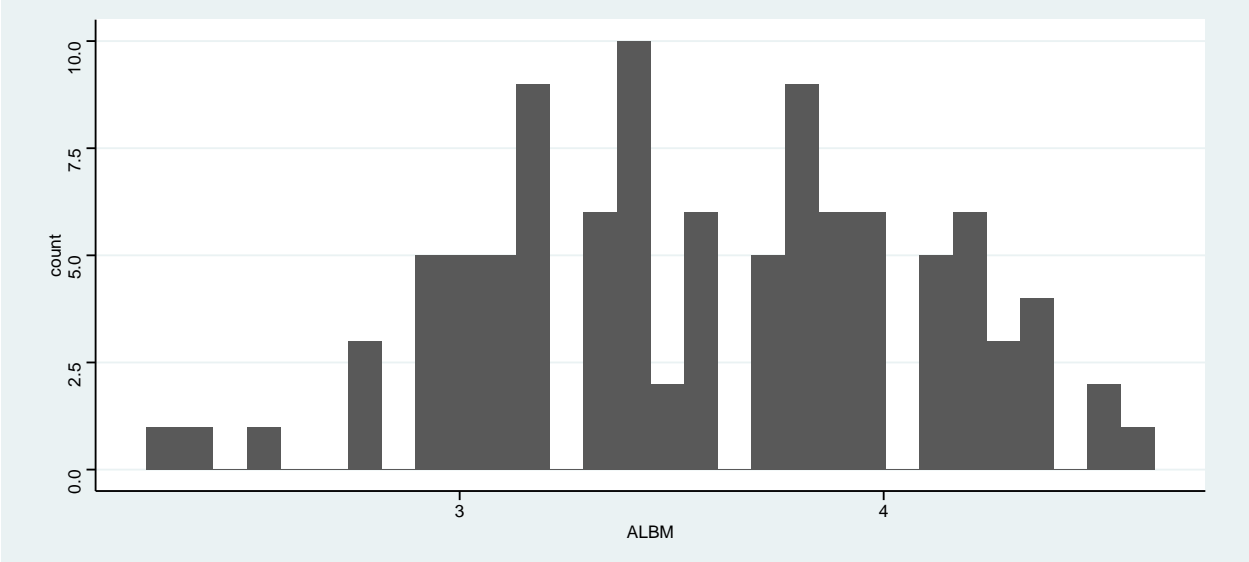


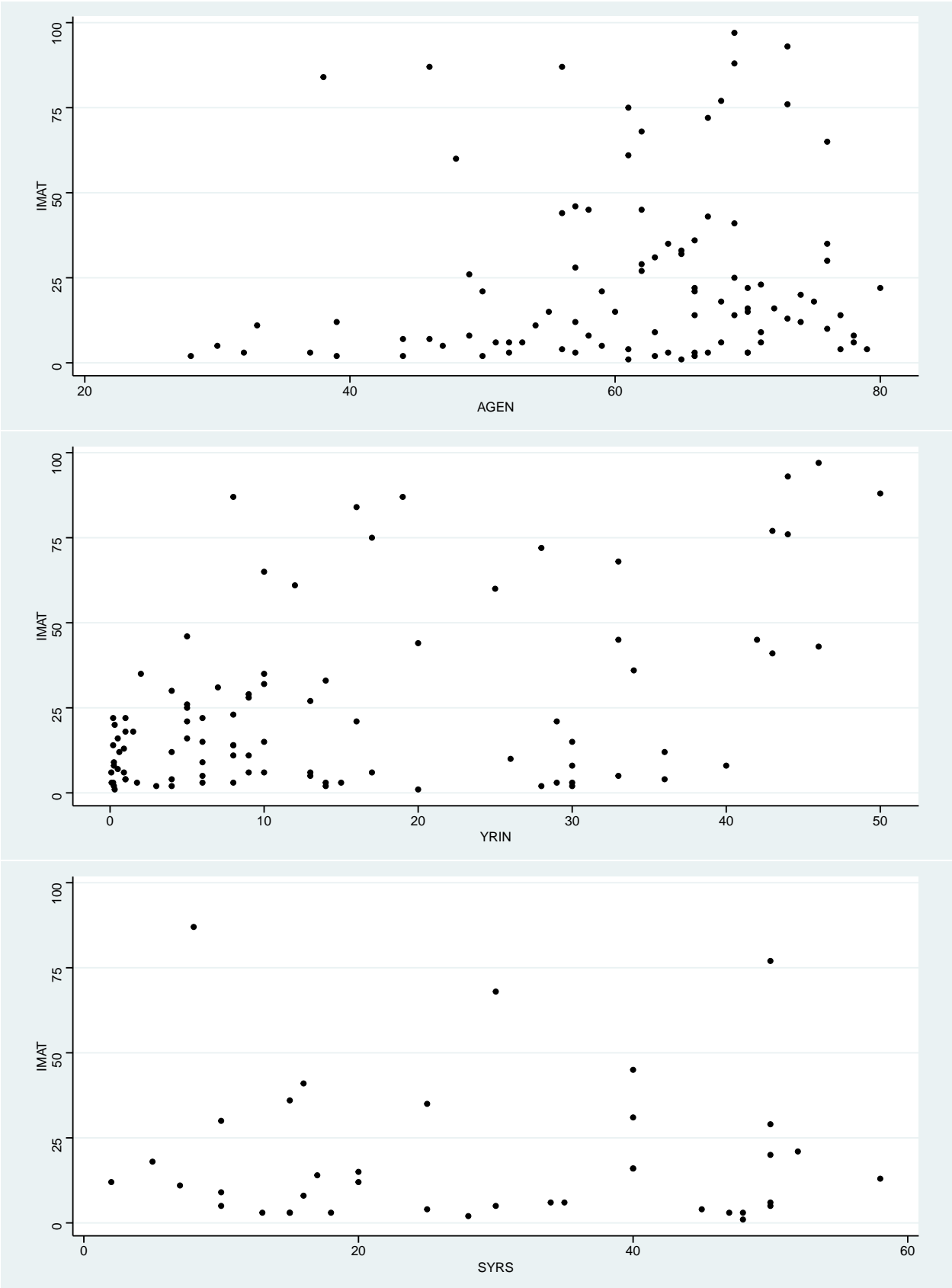


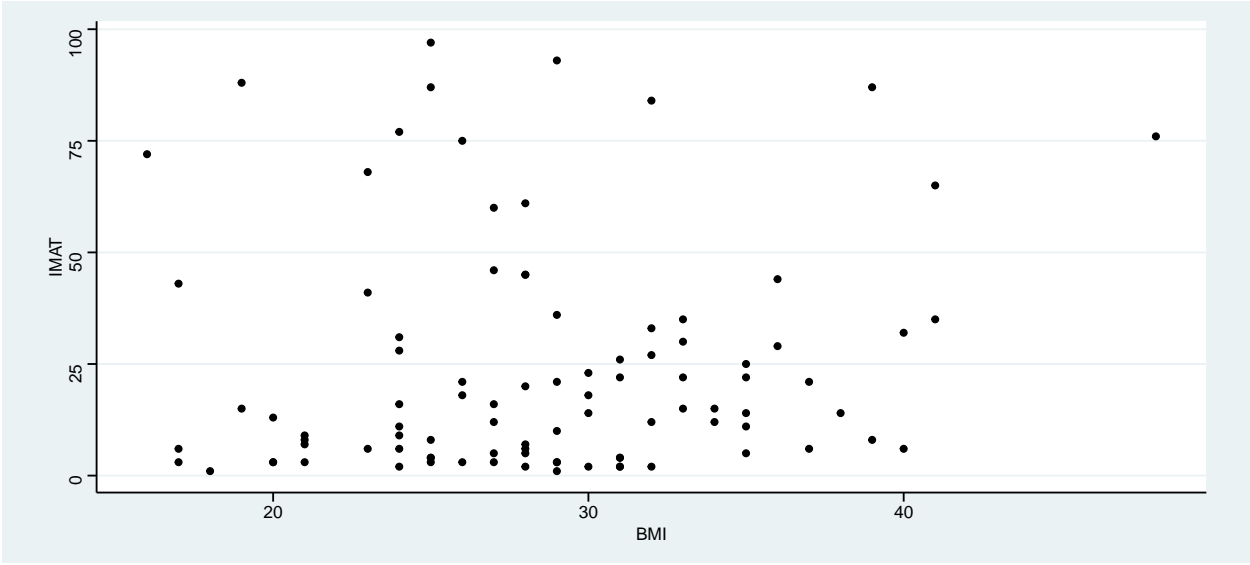
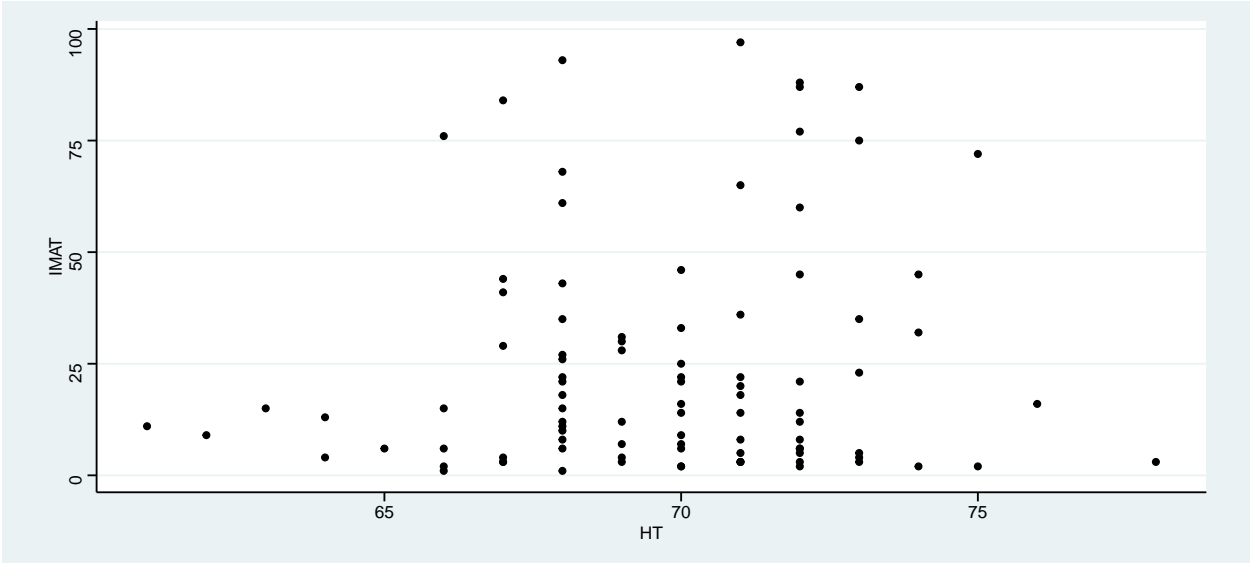
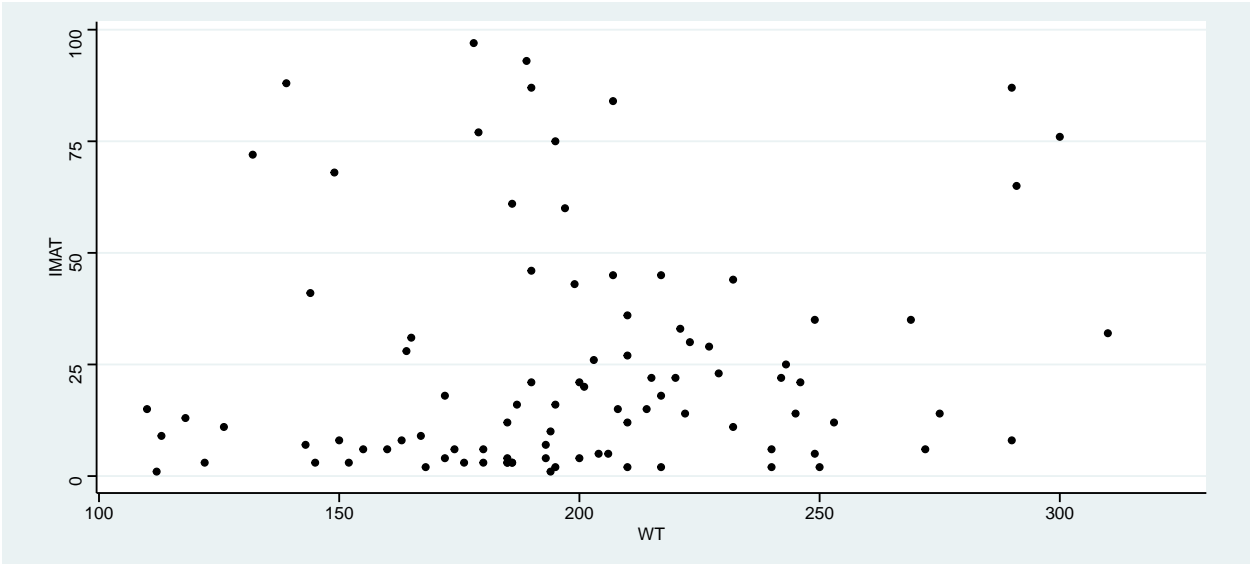


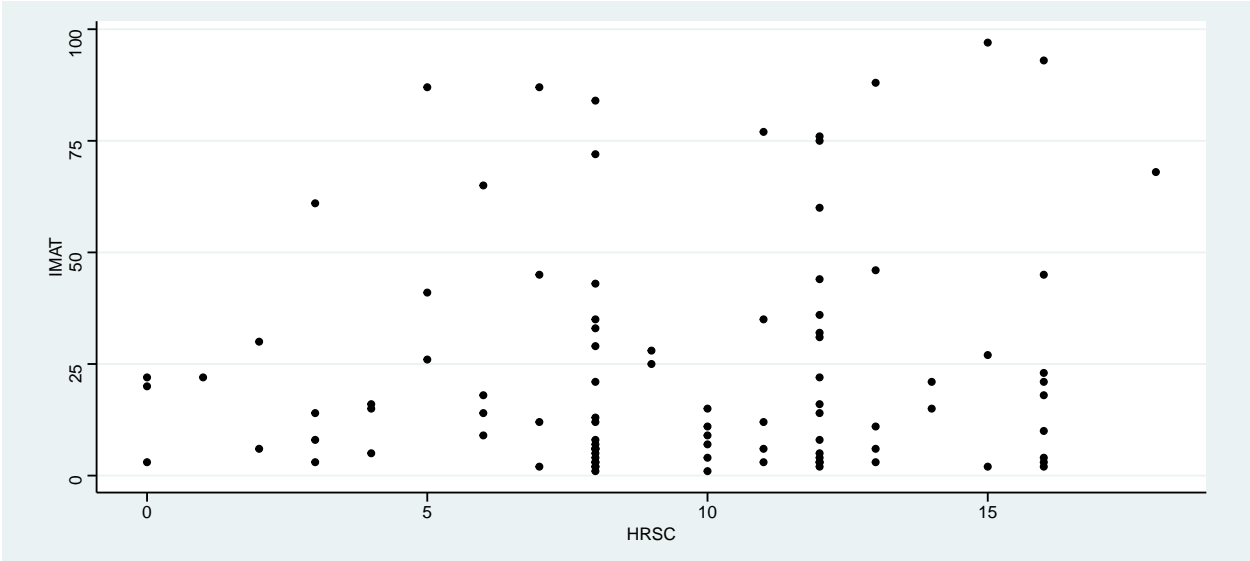
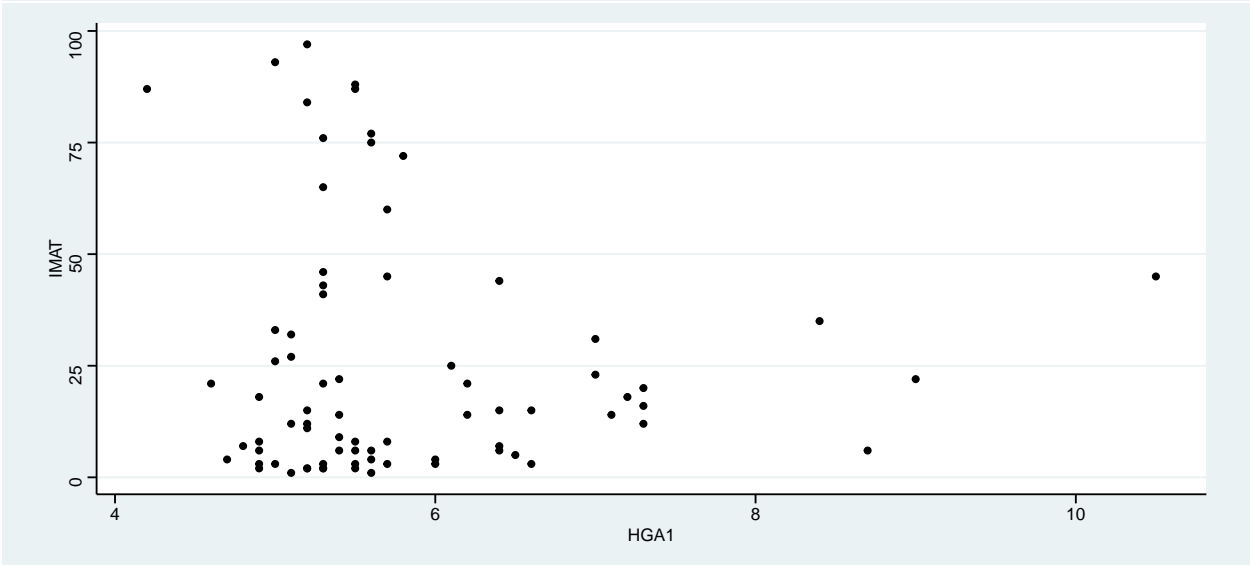
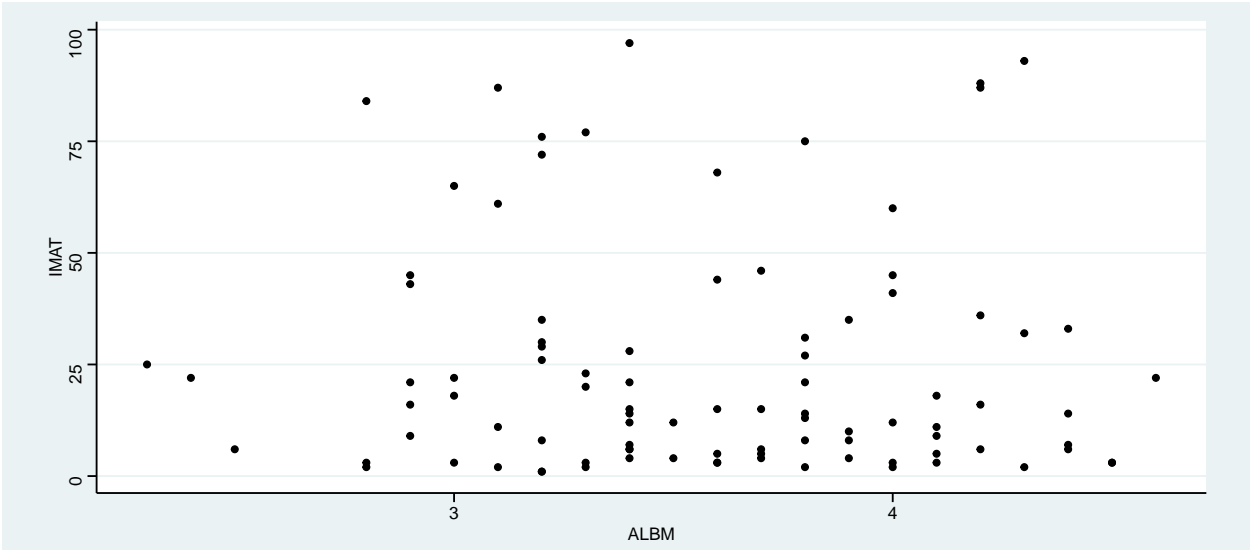




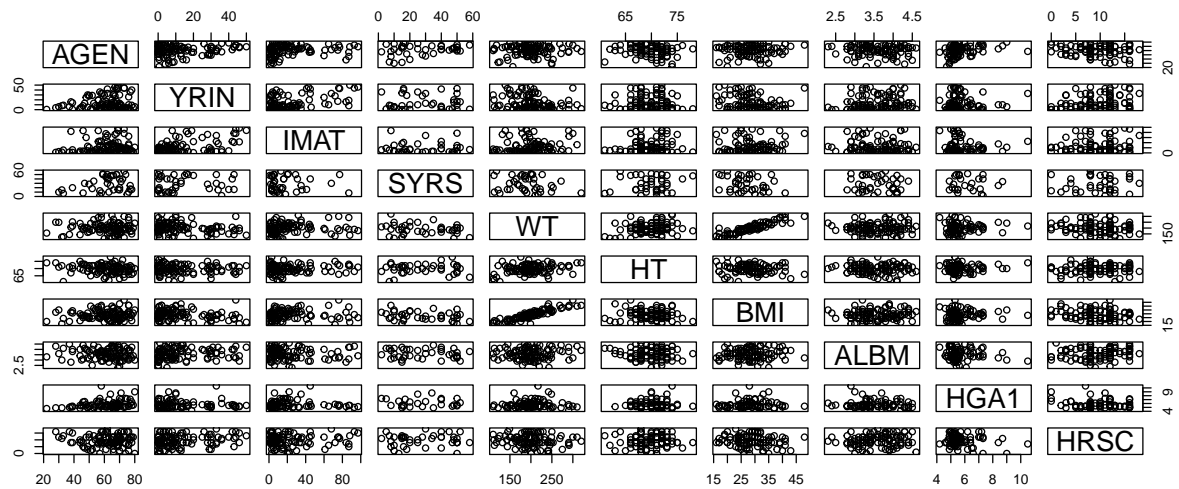












## Numerical EDA

Try looking at distances between points (if possible), correlations, partial correlations

```
## [1] "Summary"
```

```
##      AGEN      YRIN      RACE      ETHN      GEND      LOI
##  Min.   :22.0    Min.   : 0.08    Ca:77    Not Hs/L:83    M:96    Above T6:71
## 1st Qu.:55.0    1st Qu.: 2.75    AA:23    unk      :15    F: 5    Below T6:30
## Median :63.0    Median : 9.00    0 : 1    HS/L     : 1
## Mean   :60.9    Mean   :14.06           Hs/L     : 2
## 3rd Qu.:70.0    3rd Qu.:25.25
## Max.   :80.0    Max.   :50.00
##      NA's :1
##      ASIA      PRI      IMAT      WCTP      CUTP      BED
## Incomplete:72    Y :37    Min.   : 1.00    PWc :42    ACu :37    B0th : 6
## Complete :28    N :63    1st Qu.: 5.25    MWc :31    FCu :39    BHPTL:52
## Unk      : 1    Unk: 1    Median :14.50    TRWc :10    LCu : 3    BSTD :43
##      Mean   :24.39    AmnWC:17    NoCu:15
##      3rd Qu.:32.75    Mwc : 0    Acu : 0
##      Max.   :97.00    OWc : 1    Fcu : 0
##      NA's :7      OCu : 7
##      MATT      NUTI      BOI      BLI      VASC      RESP      PNEU      DIAB      DEPR      ANXI
## AM :36      L3:92      N:69      N:65      Y:33      Y:40      N:99      No :64      N:62      N:71
## AFM:17      G3: 9      Y:32      Y:36      N:68      N:61      Y: 2      unk :10      Y:39      Y:30
## OM :15
## SFM:33
##      Cont.:22
##      Pre : 5
##
##
##      PAIN      SLEP      ALCO      NODR      DRUG      SMOK      SYRS
## Y :58      N :36      Y:47      Moderate:11    N:86      Sx10+:25    Min. : 2.0
## unk:29      unk:29      N:54      None :56      Y:15      Sx10-:24    1st Qu.:15.0
```

```

## N/A: 1   Y :35           Light :30           NS :36   Median :26.5
## N :13   N/A: 1           Heavy : 4           CS :14   Mean :28.5
##                                     SS : 2   3rd Qu.:45.5
##                                     Max. :58.0
##                                     NA's :61
##
##           WT           HT           BMI           ALBM
## Min. :110.0   Min. :61.00   Min. :16.00   Min. :2.300
## 1st Qu.:176.0   1st Qu.:68.00   1st Qu.:24.00   1st Qu.:3.200
## Median :197.0   Median :70.00   Median :28.00   Median :3.600
## Mean :200.7   Mean :69.77   Mean :28.76   Mean :3.581
## 3rd Qu.:223.0   3rd Qu.:72.00   3rd Qu.:32.00   3rd Qu.:4.000
## Max. :320.0   Max. :78.00   Max. :48.00   Max. :4.600
##
##           HGA1           LIVS           SHC           USHC           PRAH           PRFQ
## Min. : 4.200   L2:59   Y :46   Y :45   N :13   unk :32
## 1st Qu.: 5.200   L4:11   N :54   N :55   Y :87   15 :30
## Median : 5.400   L3: 6   unk: 1   unk: 1   unk: 1   N/A :10
## Mean : 5.772   L1:25           120 : 8
## 3rd Qu.: 6.125           60 : 8
## Max. :10.500           30 : 5
## NA's :21           (Other): 8
##
##           HRSC           EMPL           MARS           EDUC
## Min. : 0.00   E5:48   M1 :45   S2:31
## 1st Qu.: 7.00   E6:45   M2 : 8   S3:36
## Median : 9.00   E4: 1   M3 :15   S5: 9
## Mean : 9.38   E2: 0   M5 : 3   S6: 6
## 3rd Qu.:12.00   E1: 7   M4 :29   S4:17
## Max. :18.00           unk: 1   S1: 1
## NA's :1           S7: 1

```

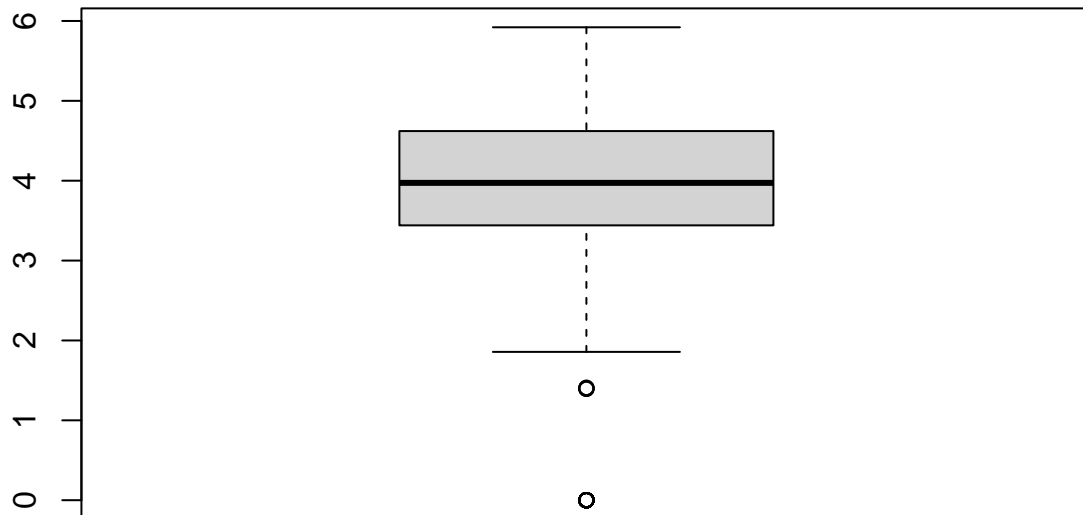
```
## [1] "Partial Correlations"
```

```

##           AGEN           YRIN           IMAT           SYRS           WT           HT
## AGEN 1.00000000 0.184616727 -0.03008723 0.157895047 0.06813894 -0.20592684
## YRIN 0.18461673 1.000000000 0.40773629 -0.006934976 -0.15801231 -0.09004768
## IMAT -0.03008723 0.407736293 1.00000000 0.031243320 0.03570838 0.16440463
## SYRS 0.15789505 -0.006934976 0.03124332 1.000000000 0.29293948 -0.12546153
## WT 0.06813894 -0.158012311 0.03570838 0.292939476 1.00000000 0.72026984
## HT -0.20592684 -0.090047680 0.16440463 -0.125461532 0.72026984 1.00000000
## BMI -0.08819931 0.087306196 0.01670089 -0.358702364 0.96040940 -0.69740189
## ALBM 0.02716884 0.244882250 -0.18784317 0.044420695 0.18333689 0.00084650
## HGA1 0.47437001 -0.314211410 0.08255767 -0.003602310 -0.15301354 0.09246715
## HRSC 0.12637946 0.192157549 -0.12508961 0.106878221 -0.09861580 0.05095924
##
##           BMI           ALBM           HGA1           HRSC
## AGEN -0.08819931 0.02716884 0.47437001 0.12637946
## YRIN 0.08730620 0.24488225 -0.31421141 0.19215755
## IMAT 0.01670089 -0.18784317 0.08255767 -0.12508961
## SYRS -0.35870236 0.04442069 -0.00360231 0.10687822
## WT 0.96040940 0.18333689 -0.15301354 -0.09861580
## HT -0.69740189 0.00084650 0.09246715 0.05095924
## BMI 1.00000000 -0.08099748 0.20623646 0.16022158
## ALBM -0.08099748 1.00000000 0.06365532 -0.01287487
## HGA1 0.20623646 0.06365532 1.00000000 -0.11560858
## HRSC 0.16022158 -0.01287487 -0.11560858 1.00000000

```

```
## [1] "Standardized Distances Check"
```



A slight tail indicates some potential signal in the noise, though it's not completely clear that there is very much signal here.

## Some First Models

### Just IMAT

```
## [1] "Guesses from EDA"
```

```
##
## Call:
## lm(formula = log(IMAT) ~ log(YRIN) + log(AGEN) + log(HGA1) +
##     ETHN + LOI + ASIA + PRI + BED + PRAH, data = visit_one)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.1999 -0.5472 -0.0483  0.4049  2.4873
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -6.02956    2.41029  -2.502  0.01497 *
## log(YRIN)      0.09967    0.07487   1.331  0.18789
## log(AGEN)     1.91410    0.59412   3.222  0.00202 **
```

```
## log(HGA1)      0.51749    0.77222    0.670    0.50522
## ETHNunk        0.78490    0.34670    2.264    0.02703 *
## ETHNHs/L       0.45950    1.07755    0.426    0.67125
## LOIBelow T6    0.42284    0.25958    1.629    0.10832
## ASIAComplete   0.52336    0.30240    1.731    0.08840 .
## PRIN          -0.74072    0.29382   -2.521    0.01424 *
## BEDBHPTL       0.05329    0.45699    0.117    0.90754
## BEDBSTD        -0.21822    0.46951   -0.465    0.64369
## PRAHY          -0.26337    0.33906   -0.777    0.44021
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9877 on 63 degrees of freedom
## (26 observations deleted due to missingness)
## Multiple R-squared:  0.4633, Adjusted R-squared:  0.3696
## F-statistic: 4.944 on 11 and 63 DF,  p-value: 1.743e-05
```

```
## [1] "Refining a bit"
```

```
##
## Call:
## lm(formula = log(IMAT) ~ log(YRIN) + log(AGEN) + ETHN + LOI +
##      ASIA + PRI, data = visit_one)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.1974 -0.4933  0.0000   0.4505   2.2674
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -5.4685     1.9478  -2.808 0.006221 **
## log(YRIN)       0.1202     0.0630   1.908 0.059850 .
## log(AGEN)       1.9373     0.4679   4.140 8.29e-05 ***
## ETHNunk         0.6691     0.2908   2.301 0.023900 *
## ETHNHs/L        0.6766     0.7047   0.960 0.339790
## LOIBelow T6     0.2530     0.2267   1.116 0.267650
## ASIAComplete    0.6720     0.2611   2.574 0.011825 *
## ASIAUnk         1.2242     0.9598   1.276 0.205669
## PRIN           -0.7812     0.2275  -3.434 0.000932 ***
## PRIUnk         -0.8290     0.9850  -0.842 0.402395
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9435 on 83 degrees of freedom
## (8 observations deleted due to missingness)
## Multiple R-squared:  0.4385, Adjusted R-squared:  0.3776
## F-statistic: 7.202 on 9 and 83 DF,  p-value: 1.172e-07
```

## Just PRI

```
##
## Call:
## glm(formula = PRI ~ log(IMAT) + log(YRIN) + log(AGEN) + log(HGA1) +
```

```

##      LOI + ASIA + BED + MATT + WCTP + CUTP + SHC, family = binomial,
##      data = logit_data)
##
## Deviance Residuals:
##      Min        1Q      Median        3Q        Max
## -2.1675  -0.4713   0.1149   0.5916   2.5201
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -6.93237    8.08116  -0.858   0.3910
## log(IMAT)    -1.32989    0.53366  -2.492   0.0127 *
## log(YRIN)    -0.02436    0.26265  -0.093   0.9261
## log(AGEN)     2.21872    2.13581   1.039   0.2989
## log(HGA1)     1.54514    2.22930   0.693   0.4882
## LOIBelow T6  -0.60262    1.10354  -0.546   0.5850
## ASIAComplete -1.50586    0.98610  -1.527   0.1267
## BEDBHPTL     -0.44940    1.96088  -0.229   0.8187
## BEDBSTD       1.74349    2.04879   0.851   0.3948
## MATTAFM      -1.71544    1.30022  -1.319   0.1871
## MATTOM       -0.78045    1.20644  -0.647   0.5177
## MATTSFM      -1.38371    1.36188  -1.016   0.3096
## WCTPMWc      -1.04672    1.12374  -0.931   0.3516
## WCTPTRWc     -2.71441    1.62180  -1.674   0.0942 .
## WCTPAmnWC    14.08839  2227.05191   0.006   0.9950
## WCTPOWc     12.73647  3956.18073   0.003   0.9974
## CUTPFCu       1.88348    1.06203   1.773   0.0762 .
## CUTPLCu       1.07530    1.80021   0.597   0.5503
## CUTPNoCu    -15.81301  2227.05176  -0.007   0.9943
## CUTPOCu      -1.55383    1.80975  -0.859   0.3906
## SHCN          1.35002    1.45045   0.931   0.3520
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 100.952  on 74  degrees of freedom
## Residual deviance:  53.793  on 54  degrees of freedom
##      (25 observations deleted due to missingness)
## AIC: 95.793
##
## Number of Fisher Scoring iterations: 16
##
## Call:
## glm(formula = PRI ~ log(IMAT) + log(YRIN) + log(AGEN) + LOI +
##      ASIA + WCTP + CUTP + SHC, family = binomial, data = logit_data)
##
## Deviance Residuals:
##      Min        1Q      Median        3Q        Max
## -2.2837  -0.6075   0.2253   0.6135   2.6357
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -2.04510    6.20705  -0.329   0.74179

```

```

## log(IMAT)      -0.94617    0.34488   -2.743   0.00608 **
## log(YRIN)      -0.13694    0.20919   -0.655   0.51271
## log(AGEN)       1.10055    1.55387    0.708   0.47878
## LOIBelow T6     0.06437    0.74058    0.087   0.93073
## ASIAComplete   -1.34262    0.77310   -1.737   0.08245 .
## ASIAUnk        15.85265  3956.18050    0.004   0.99680
## WCTPMWc         0.30018    0.78179    0.384   0.70101
## WCTPTRWc       -1.93201    1.26930   -1.522   0.12798
## WCTPAmnWC      16.19406  2384.18757    0.007   0.99458
## WCTPOWc        15.17582  3956.18045    0.004   0.99694
## CUTPFCu         1.75628    0.72437    2.425   0.01533 *
## CUTPLCu         1.68715    1.62081    1.041   0.29791
## CUTPNoCu       -14.90458  2384.18770   -0.006   0.99501
## CUTPOCu         0.54786    1.09113    0.502   0.61559
## SHCN            0.78276    0.81873    0.956   0.33904
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 123.156 on 91 degrees of freedom
## Residual deviance: 74.544 on 76 degrees of freedom
## (8 observations deleted due to missingness)
## AIC: 106.54
##
## Number of Fisher Scoring iterations: 16

```

## Multivariate Model

PRI & log(IMAT) vs. potential explainers, just seeing how this looks

```

## Response PRI :
##
## Call:
## lm(formula = PRI ~ log(YRIN) + log(AGEN) + log(HGA1) + LOI +
##     ASIA + BED + MATT + WCTP + CUTP + SHC + PRFQ, data = visit_one)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.0080 -0.2160  0.0000  0.2841  0.8683
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -0.260523   1.217758  -0.214   0.8315
## log(YRIN)     -0.030896   0.034902  -0.885   0.3804
## log(AGEN)      0.229741   0.287531   0.799   0.4281
## log(HGA1)      0.386886   0.401346   0.964   0.3398
## LOIBelow T6   -0.187365   0.138033  -1.357   0.1809
## ASIAComplete  -0.340382   0.152840  -2.227   0.0306 *
## BEDBHPTL      -0.022394   0.220138  -0.102   0.9194
## BEDBSTD        0.092174   0.226571   0.407   0.6859
## MATTAFM       -0.094046   0.162464  -0.579   0.5653
## MATTOM        -0.123420   0.209669  -0.589   0.5588

```

```

## MATTSFM      0.014253  0.163278  0.087  0.9308
## WCTPMWc     -0.149151  0.171015 -0.872  0.3874
## WCTPTRWc    -0.185563  0.210525 -0.881  0.3824
## WCTPAmnWC   -0.150317  0.380330 -0.395  0.6944
## WCTPOWc      0.066259  0.516122  0.128  0.8984
## CUTPFCu      0.248008  0.145115  1.709  0.0938 .
## CUTPLCu     -0.006155  0.342741 -0.018  0.9857
## CUTPNoCu    -0.013490  0.370212 -0.036  0.9711
## CUTPOCu      0.034058  0.255499  0.133  0.8945
## SHCN         0.331783  0.207973  1.595  0.1171
## PRFQunk      0.291746  0.190734  1.530  0.1325
## PRFQ120      0.030454  0.285737  0.107  0.9156
## PRFQ15       0.417057  0.216014  1.931  0.0593 .
## PRFQ30       0.480133  0.437134  1.098  0.2774
## PRFQ60       0.242654  0.309980  0.783  0.4375
## PRFQ5        NA        NA        NA        NA
## PRFQ15-20    0.266393  0.526358  0.506  0.6151
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.437 on 49 degrees of freedom
## (26 observations deleted due to missingness)
## Multiple R-squared:  0.4802, Adjusted R-squared:  0.215
## F-statistic:  1.81 on 25 and 49 DF,  p-value: 0.03777
##
##
## Response Y2 :
##
## Call:
## lm(formula = Y2 ~ log(YRIN) + log(AGEN) + log(HGA1) + LOI + ASIA +
##     BED + MATT + WCTP + CUTP + SHC + PRFQ, data = visit_one)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.9607 -0.4504  0.1024  0.4788  1.2990
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.87208    2.52088   0.346  0.73087
## log(YRIN)      0.15691    0.07225   2.172  0.03474 *
## log(AGEN)      0.77435    0.59522   1.301  0.19936
## log(HGA1)     -0.29076    0.83083  -0.350  0.72786
## LOIBelow T6   0.89693    0.28574   3.139  0.00287 **
## ASIAComplete  0.80731    0.31639   2.552  0.01389 *
## BEDBHPTL     -0.31493    0.45571  -0.691  0.49277
## BEDBSTD       0.20181    0.46902   0.430  0.66888
## MATTAFM      -0.83902    0.33632  -2.495  0.01602 *
## MATTOM       -0.13108    0.43403  -0.302  0.76392
## MATTSFM      -0.80023    0.33800  -2.368  0.02190 *
## WCTPMWc       0.09242    0.35402   0.261  0.79514
## WCTPTRWc     -0.76770    0.43581  -1.762  0.08438 .
## WCTPAmnWC     0.09811    0.78732   0.125  0.90134
## WCTPOWc      -0.31471    1.06842  -0.295  0.76958
## CUTPFCu       0.01118    0.30040   0.037  0.97048

```

```

## CUTPLCu      0.91384      0.70951      1.288      0.20380
## CUTPNoCu     0.33009      0.76638      0.431      0.66857
## CUTPOCu     -0.70606      0.52891     -1.335      0.18806
## SHCN        -1.05883      0.43052     -2.459      0.01749 *
## PRFQunk     -0.49542      0.39484     -1.255      0.21552
## PRFQ120     -0.12317      0.59150     -0.208      0.83591
## PRFQ15      -1.18468      0.44717     -2.649      0.01083 *
## PRFQ30      -1.63348      0.90491     -1.805      0.07720 .
## PRFQ60      -0.12504      0.64169     -0.195      0.84630
## PRFQ5        NA          NA          NA          NA
## PRFQ15-20   -0.92647      1.08961     -0.850      0.39931
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9046 on 49 degrees of freedom
## (26 observations deleted due to missingness)
## Multiple R-squared:  0.6498, Adjusted R-squared:  0.4712
## F-statistic: 3.637 on 25 and 49 DF,  p-value: 5.534e-05

##          PRI:(Intercept) PRI:log(YRIN) PRI:log(AGEN) PRI:log(HGA1)
## PRI:(Intercept)      1.482934793 -2.384386e-03 -0.2831608762 -0.1399683750
## PRI:log(YRIN)        -0.002384386  1.218138e-03 -0.0007798527  0.0011203906
## PRI:log(AGEN)        -0.283160876 -7.798527e-04  0.0826740385 -0.0327112859
## PRI:log(HGA1)        -0.139968375  1.120391e-03 -0.0327112859  0.1610788499
## PRI:LOIBelow T6      0.029153182 -3.731384e-04 -0.0081175146  0.0051605837
## PRI:ASIAComplete    -0.008165141 -9.667858e-04  0.0062521262 -0.0137192197
## PRI:BEDBHPTL        -0.017517319 -2.414400e-04 -0.0041156203 -0.0038312073
## PRI:BEDBSTD         -0.018799319  4.952398e-04 -0.0051295334  0.0082377829
## PRI:MATTAFM         -0.023946866 -2.860810e-04  0.0031535767 -0.0008907143
## PRI:MATTOM          -0.026281194  4.854042e-04  0.0005010233  0.0124873821
## PRI:MATTSEFM        -0.004960208  3.550016e-04 -0.0038148497  0.0056047624
## PRI:WCTPMWc         -0.011158068 -1.003845e-03  0.0057821111 -0.0078703169
## PRI:WCTPTRWc        -0.039384132  1.824870e-03  0.0055975699  0.0062514128
## PRI:WCTPAmWC         0.056972522 -2.793089e-03  0.0020290565 -0.0346401283
## PRI:WCTPOWc         0.028122195  2.955770e-04  0.0118902799 -0.0590955144
## PRI:CUTPFCu         0.014169344 -1.652388e-04 -0.0031480998 -0.0038971865
## PRI:CUTPLCu         0.044530068 -1.213621e-03 -0.0126628597  0.0062745031
## PRI:CUTPNoCu        -0.024245099  2.186251e-03 -0.0092915264  0.0303252294
## PRI:CUTPOCu        -0.009159362 -6.061586e-04  0.0099191383 -0.0173924537
## PRI:SHCN           -0.045535289  9.024322e-04  0.0065213849  0.0009239762
## PRI:PRFQunk         -0.061640659  1.858671e-03  0.0072220570  0.0030923803
## PRI:PRFQ120         0.025573839  2.791468e-03 -0.0016051877 -0.0324214450
## PRI:PRFQ15         -0.030454666  1.372411e-03  0.0052619943 -0.0100993069
## PRI:PRFQ30         -0.044585846  2.074574e-03 -0.0026175911  0.0086701199
## PRI:PRFQ60         -0.026659866  1.064638e-03  0.0118834047 -0.0302276937
## PRI:PRFQ5            NA          NA          NA          NA
## PRI:PRFQ15-20      -0.024929005  1.312014e-03 -0.0061168897  0.0158530519
## :(Intercept)       -0.737180884  1.185301e-03  0.1407619445  0.0695796005
## :log(YRIN)          0.001185301 -6.055479e-04  0.0003876721 -0.0005569568
## :log(AGEN)          0.140761944  3.876721e-04 -0.0410980450  0.0162610890
## :log(HGA1)          0.069579600 -5.569568e-04  0.0162610890 -0.0800738168
## :LOIBelow T6       -0.014492322  1.854906e-04  0.0040352931 -0.0025653749
## :ASIAComplete       0.004058969  4.805983e-04 -0.0031079910  0.0068199536
## :BEDBHPTL          0.008708025  1.200221e-04  0.0020459137  0.0019045293

```



## :BEDBSTD	0.009345319	-2.461884e-04	0.0025499395	-0.0040950796
## :MATTAfM	0.011904213	1.422136e-04	-0.0015676728	0.0004427825
## :MATToM	0.013064629	-2.412990e-04	-0.0002490634	-0.0062075955
## :MATTSfM	0.002465766	-1.764746e-04	0.0018963978	-0.0027861803
## :WCTPMWc	0.005546781	4.990207e-04	-0.0028743420	0.0039124088
## :WCTPTRWc	0.019578224	-9.071603e-04	-0.0027826048	-0.0031076363
## :WCTPAmnWC	-0.028321578	1.388471e-03	-0.0010086632	0.0172199348
## :WCTPOWc	-0.013979809	-1.469341e-04	-0.0059107704	0.0293769380
## :CUTPFcCu	-0.007043715	8.214178e-05	0.0015649501	0.0019373282
## :CUTPLcCu	-0.022136317	6.033023e-04	0.0062948271	-0.0031191147
## :CUTPNOCu	0.012052468	-1.086806e-03	0.0046189055	-0.0150749578
## :CUTPOcCu	0.004553205	3.013271e-04	-0.0049308973	0.0086459529
## :SHCN	0.022636022	-4.486076e-04	-0.0032418420	-0.0004593173
## :PRFQunk	0.030642154	-9.239629e-04	-0.0035901527	-0.0015372515
## :PRFQ120	-0.012712997	-1.387665e-03	0.0007979539	0.0161170064
## :PRFQ15	0.015139302	-6.822386e-04	-0.0026157870	0.0050204608
## :PRFQ30	0.022164045	-1.031290e-03	0.0013012293	-0.0043099985
## :PRFQ60	0.013252871	-5.292415e-04	-0.0059073527	0.0150264719
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	0.012392444	-6.522146e-04	0.0030407636	-0.0078807017
##	PRI:LOIBelow T6	PRI:ASIAComplete	PRI:BEDBHPTL	PRI:BEDBSTD
## PRI:(Intercept)	2.915318e-02	-0.0081651412	-1.751732e-02	-1.879932e-02
## PRI:log(YRIN)	-3.731384e-04	-0.0009667858	-2.414400e-04	4.952398e-04
## PRI:log(AGEN)	-8.117515e-03	0.0062521262	-4.115620e-03	-5.129533e-03
## PRI:log(HGA1)	5.160584e-03	-0.0137192197	-3.831207e-03	8.237783e-03
## PRI:LOIBelow T6	1.905317e-02	-0.0043961123	-2.965271e-03	4.292740e-04
## PRI:ASIAComplete	-4.396112e-03	0.0233601461	1.258170e-03	-9.529167e-04
## PRI:BEDBHPTL	-2.965271e-03	0.0012581704	4.846074e-02	3.433213e-02
## PRI:BEDBSTD	4.292740e-04	-0.0009529167	3.433213e-02	5.133435e-02
## PRI:MATTAfM	-1.100243e-04	0.0006583768	7.336838e-03	3.985683e-03
## PRI:MATToM	3.797202e-03	-0.0077910481	2.852711e-03	5.506519e-03
## PRI:MATTSfM	-2.158885e-03	-0.0004900812	4.185286e-03	-6.954057e-03
## PRI:WCTPMWc	4.784978e-04	0.0077444299	3.008317e-03	3.251253e-03
## PRI:WCTPTRWc	-8.717990e-04	-0.0044404374	-4.217605e-03	-1.885480e-04
## PRI:WCTPAmnWC	2.745814e-03	0.0144600062	3.271270e-03	-6.163892e-03
## PRI:WCTPOWc	-1.030775e-02	0.0191614537	5.822898e-04	-1.291175e-02
## PRI:CUTPFcCu	-4.012979e-04	0.0034164465	-2.368177e-03	-5.275165e-03
## PRI:CUTPLcCu	8.832584e-03	-0.0048594140	-2.341922e-03	-6.864896e-03
## PRI:CUTPNOCu	5.243440e-03	-0.0056261876	5.733831e-05	2.144032e-03
## PRI:CUTPOcCu	6.391285e-04	-0.0034826670	-2.525570e-03	-1.489930e-02
## PRI:SHCN	-1.093852e-02	-0.0063077107	9.240794e-03	-3.203266e-03
## PRI:PRFQunk	-2.159499e-03	0.0003211667	-6.290187e-03	-7.069801e-03
## PRI:PRFQ120	-4.142736e-03	0.0065798881	-5.298620e-03	-1.236803e-02
## PRI:PRFQ15	-4.142805e-03	0.0070252213	-5.638412e-03	-1.064193e-02
## PRI:PRFQ30	-4.649287e-03	0.0043179762	-2.713590e-03	-1.495926e-02
## PRI:PRFQ60	-6.732778e-03	0.0072662096	-3.189110e-03	-9.519763e-03
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	3.644623e-03	-0.0225096067	-1.065368e-02	-1.284950e-02
## : (Intercept)	-1.449232e-02	0.0040589688	8.708025e-03	9.345319e-03
## :log(YRIN)	1.854906e-04	0.0004805983	1.200221e-04	-2.461884e-04
## :log(AGEN)	4.035293e-03	-0.0031079910	2.045914e-03	2.549939e-03
## :log(HGA1)	-2.565375e-03	0.0068199536	1.904529e-03	-4.095080e-03
## :LOIBelow T6	-9.471512e-03	0.0021853489	1.474064e-03	-2.133961e-04
## :ASIAComplete	2.185349e-03	-0.0116125492	-6.254484e-04	4.737039e-04

## :BEDBHPTL	1.474064e-03	-0.0006254484	-2.409029e-02	-1.706683e-02
## :BEDBSTD	-2.133961e-04	0.0004737039	-1.706683e-02	-2.551879e-02
## :MATTAfM	5.469413e-05	-0.0003272853	-3.647211e-03	-1.981321e-03
## :MATToM	-1.887625e-03	0.0038730036	-1.418110e-03	-2.737343e-03
## :MATTSfM	1.073202e-03	0.0002436240	-2.080545e-03	3.456927e-03
## :WCTPMWc	-2.378658e-04	-0.0038498292	-1.495463e-03	-1.616229e-03
## :WCTPTRWc	4.333795e-04	0.0022073833	2.096611e-03	9.372899e-05
## :WCTPAmnWC	-1.364970e-03	-0.0071882056	-1.626179e-03	3.064129e-03
## :WCTPOWc	5.124082e-03	-0.0095253395	-2.894618e-04	6.418553e-03
## :CUTPFcCu	1.994890e-04	-0.0016983478	1.177243e-03	2.622334e-03
## :CUTPLcCu	-4.390761e-03	0.0024156606	1.164192e-03	3.412605e-03
## :CUTPNOCu	-2.606563e-03	0.0027968310	-2.850342e-05	-1.065818e-03
## :CUTPOcCu	-3.177168e-04	0.0017312666	1.255485e-03	7.406581e-03
## :SHCN	5.437641e-03	0.0031356226	-4.593686e-03	1.592374e-03
## :PRFQunk	1.073507e-03	-0.0001596550	3.126911e-03	3.514465e-03
## :PRFQ120	2.059393e-03	-0.0032709245	2.633994e-03	6.148262e-03
## :PRFQ15	2.059428e-03	-0.0034923038	2.802908e-03	5.290206e-03
## :PRFQ30	2.311204e-03	-0.0021465067	1.348951e-03	7.436390e-03
## :PRFQ60	3.346928e-03	-0.0036121014	1.585337e-03	4.732364e-03
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-1.811776e-03	0.0111897380	5.296044e-03	6.387609e-03
##	PRI:MATTAfM	PRI:MATToM	PRI:MATTSfM	PRI:WCTPMWc
## PRI:(Intercept)	-2.394687e-02	-0.0262811937	-0.0049602083	-0.0111580681
## PRI:log(YRIN)	-2.860810e-04	0.0004854042	0.0003550016	-0.0010038447
## PRI:log(AGEN)	3.153577e-03	0.0005010233	-0.0038148497	0.0057821111
## PRI:log(HGA1)	-8.907143e-04	0.0124873821	0.0056047624	-0.0078703169
## PRI:LOIBelow T6	-1.100243e-04	0.0037972024	-0.0021588848	0.0004784978
## PRI:ASIAComplete	6.583768e-04	-0.0077910481	-0.0004900812	0.0077444299
## PRI:BEDBHPTL	7.336838e-03	0.0028527111	0.0041852861	0.0030083169
## PRI:BEDBSTD	3.985683e-03	0.0055065191	-0.0069540571	0.0032512529
## PRI:MATTAfM	2.639441e-02	0.0129699387	0.0122027068	0.0030314635
## PRI:MATToM	1.296994e-02	0.0439610005	0.0123602720	-0.0030079820
## PRI:MATTSfM	1.220271e-02	0.0123602720	0.0266596396	-0.0024878029
## PRI:WCTPMWc	3.031463e-03	-0.0030079820	-0.0024878029	0.0292460997
## PRI:WCTPTRWc	-3.081225e-04	-0.0045986179	-0.0005380269	0.0066792113
## PRI:WCTPAmnWC	5.620426e-03	-0.0038716868	-0.0078668208	0.0249745413
## PRI:WCTPOWc	8.557433e-04	-0.0149825043	-0.0075339065	0.0211619975
## PRI:CUTPFcCu	1.440042e-03	-0.0029553218	-0.0008968470	-0.0022311686
## PRI:CUTPLcCu	3.658932e-03	0.0036047071	-0.0008520567	-0.0029528415
## PRI:CUTPNOCu	9.480001e-04	0.0052652499	0.0078326471	-0.0059605676
## PRI:CUTPOcCu	-2.649666e-03	-0.0021951616	0.0052697469	-0.0073149880
## PRI:SHCN	-5.594183e-03	-0.0051781431	0.0003387182	-0.0163191532
## PRI:PRFQunk	-1.319834e-03	-0.0039036192	0.0006804867	-0.0062044044
## PRI:PRFQ120	-3.229553e-03	-0.0094237897	-0.0002939400	-0.0054818295
## PRI:PRFQ15	-6.067123e-03	-0.0147420386	-0.0027281556	-0.0025021800
## PRI:PRFQ30	-4.638836e-03	-0.0400706508	-0.0025823179	0.0016705858
## PRI:PRFQ60	-6.175386e-03	-0.0170194120	-0.0050637241	0.0012158545
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	2.524487e-03	0.0086115758	0.0084154254	-0.0352542675
## : (Intercept)	1.190421e-02	0.0130646295	0.0024657664	0.0055467810
## :log(YRIN)	1.422136e-04	-0.0002412990	-0.0001764746	0.0004990207
## :log(AGEN)	-1.567673e-03	-0.0002490634	0.0018963978	-0.0028743420
## :log(HGA1)	4.427825e-04	-0.0062075955	-0.0027861803	0.0039124088
## :LOIBelow T6	5.469413e-05	-0.0018876251	0.0010732020	-0.0002378658

## :ASIAComplete	-3.272853e-04	0.0038730036	0.0002436240	-0.0038498292
## :BEDBHPTL	-3.647211e-03	-0.0014181096	-0.0020805452	-0.0014954627
## :BEDBSTD	-1.981321e-03	-0.0027373426	0.0034569274	-0.0016162285
## :MATTAfM	-1.312091e-02	-0.0064474789	-0.0060660808	-0.0015069691
## :MATToM	-6.447479e-03	-0.0218534283	-0.0061444079	0.0014952962
## :MATTSfM	-6.066081e-03	-0.0061444079	-0.0132527585	0.0012367103
## :WCTPMWc	-1.506969e-03	0.0014952962	0.0012367103	-0.0145385122
## :WCTPTRWc	1.531706e-04	0.0022860164	0.0002674583	-0.0033202990
## :WCTPAmnWC	-2.793967e-03	0.0019246520	0.0039106709	-0.0124150802
## :WCTPOWc	-4.253981e-04	0.0074479443	0.0037451760	-0.0105198287
## :CUTPFcCu	-7.158586e-04	0.0014691184	0.0004458311	0.0011091350
## :CUTPLcCu	-1.818890e-03	-0.0017919339	0.0004235654	0.0014678854
## :CUTPNOCu	-4.712598e-04	-0.0026174054	-0.0038936828	0.0029630544
## :CUTPOcCu	1.317174e-03	0.0010912355	-0.0026196409	0.0036363496
## :SHCN	2.780921e-03	0.0025741038	-0.0001683800	0.0081124051
## :PRFQunk	6.561020e-04	0.0019405259	-0.0003382764	0.0030842680
## :PRFQ120	1.605441e-03	0.0046846548	0.0001461203	0.0027250692
## :PRFQ15	3.016024e-03	0.0073284065	0.0013561919	0.0012438573
## :PRFQ30	2.306009e-03	0.0199194988	0.0012836946	-0.0008304640
## :PRFQ60	3.069843e-03	0.0084605104	0.0025172251	-0.0006044128
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-1.254947e-03	-0.0042808956	-0.0041833874	0.0175252292
##	PRI:WCTPTRWc	PRI:WCTPAmnWC	PRI:WCTPOWc	PRI:CUTPFcCu
## PRI:(Intercept)	-3.938413e-02	0.0569725217	0.0281221955	1.416934e-02
## PRI:log(YRIN)	1.824870e-03	-0.0027930893	0.0002955770	-1.652388e-04
## PRI:log(AGEN)	5.597570e-03	0.0020290565	0.0118902799	-3.148100e-03
## PRI:log(HGA1)	6.251413e-03	-0.0346401283	-0.0590955144	-3.897186e-03
## PRI:LOIBelow T6	-8.717990e-04	0.0027458144	-0.0103077548	-4.012979e-04
## PRI:ASIAComplete	-4.440437e-03	0.0144600062	0.0191614537	3.416447e-03
## PRI:BEDBHPTL	-4.217605e-03	0.0032712705	0.0005822898	-2.368177e-03
## PRI:BEDBSTD	-1.885480e-04	-0.0061638921	-0.0129117498	-5.275165e-03
## PRI:MATTAfM	-3.081225e-04	0.0056204263	0.0008557433	1.440042e-03
## PRI:MATToM	-4.598618e-03	-0.0038716868	-0.0149825043	-2.955322e-03
## PRI:MATTSfM	-5.380269e-04	-0.0078668208	-0.0075339065	-8.968470e-04
## PRI:WCTPMWc	6.679211e-03	0.0249745413	0.0211619975	-2.231169e-03
## PRI:WCTPTRWc	4.432064e-02	-0.0016579374	0.0056609968	-6.887363e-03
## PRI:WCTPAmnWC	-1.657937e-03	0.1446506443	0.0363272325	6.421310e-03
## PRI:WCTPOWc	5.660997e-03	0.0363272325	0.2663822870	6.657219e-04
## PRI:CUTPFcCu	-6.887363e-03	0.0064213104	0.0006657219	2.105838e-02
## PRI:CUTPLcCu	4.204507e-04	0.0105645735	-0.0059376319	9.715410e-03
## PRI:CUTPNOCu	-2.329876e-03	-0.1076523095	-0.0189870260	8.387962e-03
## PRI:CUTPOcCu	-8.272911e-03	0.0036757150	-0.0007983597	1.073567e-02
## PRI:SHCN	3.063584e-03	-0.0237010769	-0.0069771824	-7.932387e-03
## PRI:PRFQunk	1.873429e-04	-0.0130734748	0.0194673792	3.745537e-03
## PRI:PRFQ120	5.341005e-03	-0.0029164250	0.0376199503	6.188051e-03
## PRI:PRFQ15	5.428792e-03	-0.0074159252	0.0326375894	4.140379e-03
## PRI:PRFQ30	1.679289e-02	-0.0081030078	0.0317225411	4.971732e-03
## PRI:PRFQ60	1.433914e-03	-0.0015660813	0.0390569197	-2.170609e-03
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	5.599049e-04	-0.0373229121	-0.0163517451	7.406716e-03
## :(Intercept)	1.957822e-02	-0.0283215784	-0.0139798088	-7.043715e-03
## :log(YRIN)	-9.071603e-04	0.0013884711	-0.0001469341	8.214178e-05
## :log(AGEN)	-2.782605e-03	-0.0010086632	-0.0059107704	1.564950e-03
## :log(HGA1)	-3.107636e-03	0.0172199348	0.0293769380	1.937328e-03

## :LOIBelow T6	4.333795e-04	-0.0013649702	0.0051240822	1.994890e-04
## :ASIAComplete	2.207383e-03	-0.0071882056	-0.0095253395	-1.698348e-03
## :BEDBHPTL	2.096611e-03	-0.0016261794	-0.0002894618	1.177243e-03
## :BEDBSTD	9.372899e-05	0.0030641290	0.0064185527	2.622334e-03
## :MATTAfM	1.531706e-04	-0.0027939670	-0.0004253981	-7.158586e-04
## :MATToM	2.286016e-03	0.0019246520	0.0074479443	1.469118e-03
## :MATTSfM	2.674583e-04	0.0039106709	0.0037451760	4.458311e-04
## :WCTPMWc	-3.320299e-03	-0.0124150802	-0.0105198287	1.109135e-03
## :WCTPTRWc	-2.203221e-02	0.0008241763	-0.0028141349	3.423773e-03
## :WCTPAmnWC	8.241763e-04	-0.0719072007	-0.0180586102	-3.192094e-03
## :WCTPOWc	-2.814135e-03	-0.0180586102	-0.1324211494	-3.309366e-04
## :CUTPFcCu	3.423773e-03	-0.0031920940	-0.0003309366	-1.046832e-02
## :CUTPLcCu	-2.090100e-04	-0.0052517492	0.0029516529	-4.829622e-03
## :CUTPNOCu	1.158203e-03	0.0535149793	0.0094386299	-4.169735e-03
## :CUTPOcCu	4.112542e-03	-0.0018272326	0.0003968722	-5.336803e-03
## :SHCN	-1.522937e-03	0.0117820291	0.0034684233	3.943265e-03
## :PRFQunk	-9.312994e-05	0.0064989477	-0.0096774179	-1.861942e-03
## :PRFQ120	-2.655064e-03	0.0014497824	-0.0187012324	-3.076139e-03
## :PRFQ15	-2.698704e-03	0.0036865264	-0.0162244538	-2.058221e-03
## :PRFQ30	-8.347904e-03	0.0040280817	-0.0157695746	-2.471495e-03
## :PRFQ60	-7.128122e-04	0.0007785138	-0.0194155635	1.079030e-03
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-2.783340e-04	0.0185535719	0.0081286069	-3.681948e-03
##	PRI:CUTPLcCu	PRI:CUTPNOCu	PRI:CUTPOcCu	PRI:SHCN
## PRI:(Intercept)	0.0445300684	-2.424510e-02	-9.159362e-03	-0.0455352888
## PRI:log(YRIN)	-0.0012136207	2.186251e-03	-6.061586e-04	0.0009024322
## PRI:log(AGEN)	-0.0126628597	-9.291526e-03	9.919138e-03	0.0065213849
## PRI:log(HGA1)	0.0062745031	3.032523e-02	-1.739245e-02	0.0009239762
## PRI:LOIBelow T6	0.0088325843	5.243440e-03	6.391285e-04	-0.0109385180
## PRI:ASIAComplete	-0.0048594140	-5.626188e-03	-3.482667e-03	-0.0063077107
## PRI:BEDBHPTL	-0.0023419220	5.733831e-05	-2.525570e-03	0.0092407940
## PRI:BEDBSTD	-0.0068648962	2.144032e-03	-1.489930e-02	-0.0032032664
## PRI:MATTAfM	0.0036589318	9.480001e-04	-2.649666e-03	-0.0055941830
## PRI:MATToM	0.0036047071	5.265250e-03	-2.195162e-03	-0.0051781431
## PRI:MATTSfM	-0.0008520567	7.832647e-03	5.269747e-03	0.0003387182
## PRI:WCTPMWc	-0.0029528415	-5.960568e-03	-7.314988e-03	-0.0163191532
## PRI:WCTPTRWc	0.0004204507	-2.329876e-03	-8.272911e-03	0.0030635842
## PRI:WCTPAmnWC	0.0105645735	-1.076523e-01	3.675715e-03	-0.0237010769
## PRI:WCTPOWc	-0.0059376319	-1.898703e-02	-7.983597e-04	-0.0069771824
## PRI:CUTPFcCu	0.0097154095	8.387962e-03	1.073567e-02	-0.0079323872
## PRI:CUTPLcCu	0.1174714870	6.273113e-04	9.438001e-03	-0.0061450547
## PRI:CUTPNOCu	0.0006273113	1.370573e-01	3.602748e-03	-0.0047023304
## PRI:CUTPOcCu	0.0094380006	3.602748e-03	6.527958e-02	0.0016206471
## PRI:SHCN	-0.0061450547	-4.702330e-03	1.620647e-03	0.0432526949
## PRI:PRFQunk	-0.0091909142	8.729872e-03	-6.776203e-05	0.0071550015
## PRI:PRFQ120	-0.0013307563	-5.099170e-03	3.865042e-03	0.0141995582
## PRI:PRFQ15	-0.0026323272	-5.790037e-03	8.409860e-05	0.0067013781
## PRI:PRFQ30	-0.0027286571	3.804102e-03	-2.183299e-02	0.0206292562
## PRI:PRFQ60	-0.0087836405	-8.071022e-03	-1.059117e-02	0.0189786200
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	0.0115009856	1.317037e-02	1.408157e-02	0.0270255844
## : (Intercept)	-0.0221363174	1.205247e-02	4.553205e-03	0.0226360219
## :log(YRIN)	0.0006033023	-1.086806e-03	3.013271e-04	-0.0004486076
## :log(AGEN)	0.0062948271	4.618906e-03	-4.930897e-03	-0.0032418420

## :log(HGA1)	-0.0031191147	-1.507496e-02	8.645953e-03	-0.0004593173
## :LOIBelow T6	-0.0043907610	-2.606563e-03	-3.177168e-04	0.0054376405
## :ASIAComplete	0.0024156606	2.796831e-03	1.731267e-03	0.0031356226
## :BEDBHPTL	0.0011641916	-2.850342e-05	1.255485e-03	-0.0045936859
## :BEDBSTD	0.0034126047	-1.065818e-03	7.406581e-03	0.0015923740
## :MATTAfM	-0.0018188895	-4.712598e-04	1.317174e-03	0.0027809212
## :MATToM	-0.0017919339	-2.617405e-03	1.091236e-03	0.0025741038
## :MATTSfM	0.0004235654	-3.893683e-03	-2.619641e-03	-0.0001683800
## :WCTPMWc	0.0014678854	2.963054e-03	3.636350e-03	0.0081124051
## :WCTPTRWc	-0.0002090100	1.158203e-03	4.112542e-03	-0.0015229366
## :WCTPAmnWC	-0.0052517492	5.351498e-02	-1.827233e-03	0.0117820291
## :WCTPOWc	0.0029516529	9.438630e-03	3.968722e-04	0.0034684233
## :CUTPFcCu	-0.0048296218	-4.169735e-03	-5.336803e-03	0.0039432645
## :CUTPLcCu	-0.0583961850	-3.118424e-04	-4.691719e-03	0.0030547647
## :CUTPNOCu	-0.0003118424	-6.813246e-02	-1.790960e-03	0.0023375728
## :CUTPOcCu	-0.0046917192	-1.790960e-03	-3.245109e-02	-0.0008056390
## :SHCN	0.0030547647	2.337573e-03	-8.056390e-04	-0.0215013229
## :PRFQunk	0.0045688902	-4.339702e-03	3.368514e-05	-0.0035568188
## :PRFQ120	0.0006615315	2.534845e-03	-1.921349e-03	-0.0070587344
## :PRFQ15	0.0013085547	2.878282e-03	-4.180621e-05	-0.0033313183
## :PRFQ30	0.0013564412	-1.891055e-03	1.085338e-02	-0.0102549980
## :PRFQ60	0.0043664306	4.012181e-03	5.264971e-03	-0.0094344511
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-0.0057172485	-6.547117e-03	-7.000081e-03	-0.0134346731
##	PRI:PRFQunk	PRI:PRFQ120	PRI:PRFQ15	PRI:PRFQ30
## PRI:(Intercept)	-6.164066e-02	0.0255738386	-3.045467e-02	-0.044585846
## PRI:log(YRIN)	1.858671e-03	0.0027914682	1.372411e-03	0.002074574
## PRI:log(AGEN)	7.222057e-03	-0.0016051877	5.261994e-03	-0.002617591
## PRI:log(HGA1)	3.092380e-03	-0.0324214450	-1.009931e-02	0.008670120
## PRI:LOIBelow T6	-2.159499e-03	-0.0041427363	-4.142805e-03	-0.004649287
## PRI:ASIAComplete	3.211667e-04	0.0065798881	7.025221e-03	0.004317976
## PRI:BEDBHPTL	-6.290187e-03	-0.0052986199	-5.638412e-03	-0.002713590
## PRI:BEDBSTD	-7.069801e-03	-0.0123680258	-1.064193e-02	-0.014959262
## PRI:MATTAfM	-1.319834e-03	-0.0032295527	-6.067123e-03	-0.004638836
## PRI:MATToM	-3.903619e-03	-0.0094237897	-1.474204e-02	-0.040070651
## PRI:MATTSfM	6.804867e-04	-0.0002939400	-2.728156e-03	-0.002582318
## PRI:WCTPMWc	-6.204404e-03	-0.0054818295	-2.502180e-03	0.001670586
## PRI:WCTPTRWc	1.873429e-04	0.0053410053	5.428792e-03	0.016792890
## PRI:WCTPAmnWC	-1.307347e-02	-0.0029164250	-7.415925e-03	-0.008103008
## PRI:WCTPOWc	1.946738e-02	0.0376199503	3.263759e-02	0.031722541
## PRI:CUTPFcCu	3.745537e-03	0.0061880513	4.140379e-03	0.004971732
## PRI:CUTPLcCu	-9.190914e-03	-0.0013307563	-2.632327e-03	-0.002728657
## PRI:CUTPNOCu	8.729872e-03	-0.0050991697	-5.790037e-03	0.003804102
## PRI:CUTPOcCu	-6.776203e-05	0.0038650416	8.409860e-05	-0.021832986
## PRI:SHCN	7.155002e-03	0.0141995582	6.701378e-03	0.020629256
## PRI:PRFQunk	3.637933e-02	0.0301177094	2.825191e-02	0.034855270
## PRI:PRFQ120	3.011771e-02	0.0816453827	3.712015e-02	0.042876994
## PRI:PRFQ15	2.825191e-02	0.0371201454	4.666201e-02	0.042837203
## PRI:PRFQ30	3.485527e-02	0.0428769940	4.283720e-02	0.191085869
## PRI:PRFQ60	2.882034e-02	0.0410969527	3.398451e-02	0.051203836
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	3.167840e-02	0.0312463904	2.230096e-02	0.029269901
## :(Intercept)	3.064215e-02	-0.0127129966	1.513930e-02	0.022164045
## :log(YRIN)	-9.239629e-04	-0.0013876652	-6.822386e-04	-0.001031290

## :log(AGEN)	-3.590153e-03	0.0007979539	-2.615787e-03	0.001301229
## :log(HGA1)	-1.537251e-03	0.0161170064	5.020461e-03	-0.004309998
## :LOIBelow T6	1.073507e-03	0.0020593933	2.059428e-03	0.002311204
## :ASIAComplete	-1.596550e-04	-0.0032709245	-3.492304e-03	-0.002146507
## :BEDBHPTL	3.126911e-03	0.0026339940	2.802908e-03	0.001348951
## :BEDBSTD	3.514465e-03	0.0061482624	5.290206e-03	0.007436390
## :MATTAfM	6.561020e-04	0.0016054411	3.016024e-03	0.002306009
## :MATToM	1.940526e-03	0.0046846548	7.328407e-03	0.019919499
## :MATTSfM	-3.382764e-04	0.0001461203	1.356192e-03	0.001283695
## :WCTPMWc	3.084268e-03	0.0027250692	1.243857e-03	-0.000830464
## :WCTPTRWc	-9.312994e-05	-0.0026550642	-2.698704e-03	-0.008347904
## :WCTPAmnWC	6.498948e-03	0.0014497824	3.686526e-03	0.004028082
## :WCTPOWc	-9.677418e-03	-0.0187012324	-1.622445e-02	-0.015769575
## :CUTPFcu	-1.861942e-03	-0.0030761387	-2.058221e-03	-0.002471495
## :CUTPLcu	4.568890e-03	0.0006615315	1.308555e-03	0.001356441
## :CUTPNocu	-4.339702e-03	0.0025348454	2.878282e-03	-0.001891055
## :CUTPOcu	3.368514e-05	-0.0019213487	-4.180621e-05	0.010853384
## :SHCN	-3.556819e-03	-0.0070587344	-3.331318e-03	-0.010254998
## :PRFQunk	-1.808451e-02	-0.0149717977	-1.404429e-02	-0.017326884
## :PRFQ120	-1.497180e-02	-0.0405866904	-1.845277e-02	-0.021314558
## :PRFQ15	-1.404429e-02	-0.0184527747	-2.319613e-02	-0.021294778
## :PRFQ30	-1.732688e-02	-0.0213145585	-2.129478e-02	-0.094990589
## :PRFQ60	-1.432686e-02	-0.0204296831	-1.689402e-02	-0.025453910
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-1.574763e-02	-0.0155328756	-1.108602e-02	-0.014550344
##	PRI:PRFQ60	PRI:PRFQ5	PRI:PRFQ15-20	:(Intercept)
## PRI:(Intercept)	-0.0266598656	NA	-0.0249290054	-0.737180884
## PRI:log(YRIN)	0.0010646378	NA	0.0013120141	0.001185301
## PRI:log(AGEN)	0.0118834047	NA	-0.0061168897	0.140761944
## PRI:log(HGA1)	-0.0302276937	NA	0.0158530519	0.069579600
## PRI:LOIBelow T6	-0.0067327780	NA	0.0036446230	-0.014492322
## PRI:ASIAComplete	0.0072662096	NA	-0.0225096067	0.004058969
## PRI:BEDBHPTL	-0.0031891101	NA	-0.0106536776	0.008708025
## PRI:BEDBSTD	-0.0095197631	NA	-0.0128495016	0.009345319
## PRI:MATTAfM	-0.0061753862	NA	0.0025244874	0.011904213
## PRI:MATToM	-0.0170194120	NA	0.0086115758	0.013064629
## PRI:MATTSfM	-0.0050637241	NA	0.0084154254	0.002465766
## PRI:WCTPMWc	0.0012158545	NA	-0.0352542675	0.005546781
## PRI:WCTPTRWc	0.0014339140	NA	0.0005599049	0.019578224
## PRI:WCTPAmnWC	-0.0015660813	NA	-0.0373229121	-0.028321578
## PRI:WCTPOWc	0.0390569197	NA	-0.0163517451	-0.013979809
## PRI:CUTPFcu	-0.0021706089	NA	0.0074067160	-0.007043715
## PRI:CUTPLcu	-0.0087836405	NA	0.0115009856	-0.022136317
## PRI:CUTPNocu	-0.0080710223	NA	0.0131703745	0.012052468
## PRI:CUTPOcu	-0.0105911700	NA	0.0140815688	0.004553205
## PRI:SHCN	0.0189786200	NA	0.0270255844	0.022636022
## PRI:PRFQunk	0.0288203424	NA	0.0316784025	0.030642154
## PRI:PRFQ120	0.0410969527	NA	0.0312463904	-0.012712997
## PRI:PRFQ15	0.0339845076	NA	0.0223009615	0.015139302
## PRI:PRFQ30	0.0512038360	NA	0.0292699011	0.022164045
## PRI:PRFQ60	0.0960876949	NA	0.0209535171	0.013252871
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	0.0209535171	NA	0.2770528720	0.012392444
## : (Intercept)	0.0132528708	NA	0.0123924439	6.354814424

## :log(YRIN)	-0.0005292415	NA	-0.0006522146	-0.010217801
## :log(AGEN)	-0.0059073527	NA	0.0030407636	-1.213428148
## :log(HGA1)	0.0150264719	NA	-0.0078807017	-0.599805907
## :LOIBelow T6	0.0033469275	NA	-0.0018117765	0.124930014
## :ASIAComplete	-0.0036121014	NA	0.0111897380	-0.034990046
## :BEDBHPTL	0.0015853367	NA	0.0052960437	-0.075066896
## :BEDBSTD	0.0047323641	NA	0.0063876085	-0.080560643
## :MATTAfM	0.0030698428	NA	-0.0012549465	-0.102619408
## :MATToM	0.0084605104	NA	-0.0042808956	-0.112622692
## :MATTSfM	0.0025172251	NA	-0.0041833874	-0.021255960
## :WCTPMWc	-0.0006044128	NA	0.0175252292	-0.047815624
## :WCTPTRWc	-0.0007128122	NA	-0.0002783340	-0.168772661
## :WCTPAmnWC	0.0007785138	NA	0.0185535719	0.244144115
## :WCTPOWc	-0.0194155635	NA	0.0081286069	0.120511930
## :CUTPFcCu	0.0010790302	NA	-0.0036819484	0.060719832
## :CUTPLcCu	0.0043664306	NA	-0.0057172485	0.190824521
## :CUTPNOCu	0.0040121814	NA	-0.0065471175	-0.103897425
## :CUTPOcCu	0.0052649706	NA	-0.0070000808	-0.039250577
## :SHCN	-0.0094344511	NA	-0.0134346731	-0.195132188
## :PRFQunk	-0.0143268643	NA	-0.0157476329	-0.264148467
## :PRFQ120	-0.0204296831	NA	-0.0155328756	0.109591466
## :PRFQ15	-0.0168940195	NA	-0.0110860185	-0.130507256
## :PRFQ30	-0.0254539102	NA	-0.0145503441	-0.191063545
## :PRFQ60	-0.0477661002	NA	-0.0104161912	-0.114245413
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-0.0104161912	NA	-0.1377255979	-0.106828165
##	:log(YRIN)	:log(AGEN)	:log(HGA1)	:LOIBelow T6
## PRI:(Intercept)	1.185301e-03	0.1407619445	0.0695796005	-1.449232e-02
## PRI:log(YRIN)	-6.055479e-04	0.0003876721	-0.0005569568	1.854906e-04
## PRI:log(AGEN)	3.876721e-04	-0.0410980450	0.0162610890	4.035293e-03
## PRI:log(HGA1)	-5.569568e-04	0.0162610890	-0.0800738168	-2.565375e-03
## PRI:LOIBelow T6	1.854906e-04	0.0040352931	-0.0025653749	-9.471512e-03
## PRI:ASIAComplete	4.805983e-04	-0.0031079910	0.0068199536	2.185349e-03
## PRI:BEDBHPTL	1.200221e-04	0.0020459137	0.0019045293	1.474064e-03
## PRI:BEDBSTD	-2.461884e-04	0.0025499395	-0.0040950796	-2.133961e-04
## PRI:MATTAfM	1.422136e-04	-0.0015676728	0.0004427825	5.469413e-05
## PRI:MATToM	-2.412990e-04	-0.0002490634	-0.0062075955	-1.887625e-03
## PRI:MATTSfM	-1.764746e-04	0.0018963978	-0.0027861803	1.073202e-03
## PRI:WCTPMWc	4.990207e-04	-0.0028743420	0.0039124088	-2.378658e-04
## PRI:WCTPTRWc	-9.071603e-04	-0.0027826048	-0.0031076363	4.333795e-04
## PRI:WCTPAmnWC	1.388471e-03	-0.0010086632	0.0172199348	-1.364970e-03
## PRI:WCTPOWc	-1.469341e-04	-0.0059107704	0.0293769380	5.124082e-03
## PRI:CUTPFcCu	8.214178e-05	0.0015649501	0.0019373282	1.994890e-04
## PRI:CUTPLcCu	6.033023e-04	0.0062948271	-0.0031191147	-4.390761e-03
## PRI:CUTPNOCu	-1.086806e-03	0.0046189055	-0.0150749578	-2.606563e-03
## PRI:CUTPOcCu	3.013271e-04	-0.0049308973	0.0086459529	-3.177168e-04
## PRI:SHCN	-4.486076e-04	-0.0032418420	-0.0004593173	5.437641e-03
## PRI:PRFQunk	-9.239629e-04	-0.0035901527	-0.0015372515	1.073507e-03
## PRI:PRFQ120	-1.387665e-03	0.0007979539	0.0161170064	2.059393e-03
## PRI:PRFQ15	-6.822386e-04	-0.0026157870	0.0050204608	2.059428e-03
## PRI:PRFQ30	-1.031290e-03	0.0013012293	-0.0043099985	2.311204e-03
## PRI:PRFQ60	-5.292415e-04	-0.0059073527	0.0150264719	3.346928e-03
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	-6.522146e-04	0.0030407636	-0.0078807017	-1.811776e-03

## : (Intercept)	-1.021780e-02	-1.2134281484	-0.5998059070	1.249300e-01
## : log(YRIN)	5.220082e-03	-0.0033418995	0.0048012054	-1.599008e-03
## : log(AGEN)	-3.341900e-03	0.3542827203	-0.1401775399	-3.478595e-02
## : log(HGA1)	4.801205e-03	-0.1401775399	0.6902705390	2.211463e-02
## : LOIBelow T6	-1.599008e-03	-0.0347859521	0.0221146285	8.164848e-02
## : ASIAComplete	-4.142963e-03	0.0267922111	-0.0587909164	-1.883864e-02
## : BEDBHPTL	-1.034642e-03	-0.0176366511	-0.0164178572	-1.270706e-02
## : BEDBSTD	2.122249e-03	-0.0219815686	0.0353013375	1.839566e-03
## : MATTAfM	-1.225942e-03	0.0135140095	-0.0038169742	-4.714868e-04
## : MATTom	2.080100e-03	0.0021470329	0.0535121276	1.627214e-02
## : MATTSfM	1.521287e-03	-0.0163477597	0.0240180655	-9.251460e-03
## : WCTPMWc	-4.301772e-03	0.0247780570	-0.0337266370	2.050505e-03
## : WCTPTRWc	7.820109e-03	0.0239872435	0.0267891536	-3.735917e-03
## : WCTPAmnWC	-1.196921e-02	0.0086951077	-0.1484432005	1.176663e-02
## : WCTPOWc	1.266635e-03	0.0509533682	-0.2532417669	-4.417178e-02
## : CUTPFCu	-7.080973e-04	-0.0134905394	-0.0167005974	-1.719680e-03
## : CUTPLCu	-5.200724e-03	-0.0542641012	0.0268881025	3.785024e-02
## : CUTPNOCu	9.368733e-03	-0.0398169404	0.1299525819	2.246969e-02
## : CUTPOCu	-2.597569e-03	0.0425064428	-0.0745318111	2.738855e-03
## : SHCN	3.867189e-03	0.0279460640	0.0039595115	-4.687479e-02
## : PRFQunk	7.964956e-03	0.0309486515	0.0132517649	-9.254091e-03
## : PRFQ120	1.196227e-02	-0.0068787042	-0.1389354862	-1.775285e-02
## : PRFQ15	5.881188e-03	0.0225492027	-0.0432785185	-1.775315e-02
## : PRFQ30	8.890165e-03	-0.0112171527	0.0371540296	-1.992357e-02
## : PRFQ60	4.562288e-03	0.0509239058	-0.1295346126	-2.885195e-02
## : PRFQ5	NA	NA	NA	NA
## : PRFQ15-20	5.622369e-03	-0.0262126827	0.0679350185	1.561829e-02
## : ASIAComplete				
## PRI: (Intercept)	0.0040589688	8.708025e-03	9.345319e-03	1.190421e-02
## PRI: log(YRIN)	0.0004805983	1.200221e-04	-2.461884e-04	1.422136e-04
## PRI: log(AGEN)	-0.0031079910	2.045914e-03	2.549939e-03	-1.567673e-03
## PRI: log(HGA1)	0.0068199536	1.904529e-03	-4.095080e-03	4.427825e-04
## PRI: LOIBelow T6	0.0021853489	1.474064e-03	-2.133961e-04	5.469413e-05
## PRI: ASIAComplete	-0.0116125492	-6.254484e-04	4.737039e-04	-3.272853e-04
## PRI: BEDBHPTL	-0.0006254484	-2.409029e-02	-1.706683e-02	-3.647211e-03
## PRI: BEDBSTD	0.0004737039	-1.706683e-02	-2.551879e-02	-1.981321e-03
## PRI: MATTAfM	-0.0003272853	-3.647211e-03	-1.981321e-03	-1.312091e-02
## PRI: MATTom	0.0038730036	-1.418110e-03	-2.737343e-03	-6.447479e-03
## PRI: MATTSfM	0.0002436240	-2.080545e-03	3.456927e-03	-6.066081e-03
## PRI: WCTPMWc	-0.0038498292	-1.495463e-03	-1.616229e-03	-1.506969e-03
## PRI: WCTPTRWc	0.0022073833	2.096611e-03	9.372899e-05	1.531706e-04
## PRI: WCTPAmnWC	-0.0071882056	-1.626179e-03	3.064129e-03	-2.793967e-03
## PRI: WCTPOWc	-0.0095253395	-2.894618e-04	6.418553e-03	-4.253981e-04
## PRI: CUTPFCu	-0.0016983478	1.177243e-03	2.622334e-03	-7.158586e-04
## PRI: CUTPLCu	0.0024156606	1.164192e-03	3.412605e-03	-1.818890e-03
## PRI: CUTPNOCu	0.0027968310	-2.850342e-05	-1.065818e-03	-4.712598e-04
## PRI: CUTPOCu	0.0017312666	1.255485e-03	7.406581e-03	1.317174e-03
## PRI: SHCN	0.0031356226	-4.593686e-03	1.592374e-03	2.780921e-03
## PRI: PRFQunk	-0.0001596550	3.126911e-03	3.514465e-03	6.561020e-04
## PRI: PRFQ120	-0.0032709245	2.633994e-03	6.148262e-03	1.605441e-03
## PRI: PRFQ15	-0.0034923038	2.802908e-03	5.290206e-03	3.016024e-03
## PRI: PRFQ30	-0.0021465067	1.348951e-03	7.436390e-03	2.306009e-03
## PRI: PRFQ60	-0.0036121014	1.585337e-03	4.732364e-03	3.069843e-03
## PRI: PRFQ5	NA	NA	NA	NA



## PRI:PRFQ15-20	0.0111897380	5.296044e-03	6.387609e-03	-1.254947e-03
## : (Intercept)	-0.0349900464	-7.506690e-02	-8.056064e-02	-1.026194e-01
## :log(YRIN)	-0.0041429631	-1.034642e-03	2.122249e-03	-1.225942e-03
## :log(AGEN)	0.0267922111	-1.763665e-02	-2.198157e-02	1.351401e-02
## :log(HGA1)	-0.0587909164	-1.641786e-02	3.530134e-02	-3.816974e-03
## :LOIBelow T6	-0.0188386423	-1.270706e-02	1.839566e-03	-4.714868e-04
## :ASIAComplete	0.1001051391	5.391632e-03	-4.083530e-03	2.821340e-03
## :BEDBHPTL	0.0053916324	2.076686e-01	1.471233e-01	3.144052e-02
## :BEDBSTD	-0.0040835299	1.471233e-01	2.199829e-01	1.707983e-02
## :MATTAfM	0.0028213396	3.144052e-02	1.707983e-02	1.131078e-01
## :MATToM	-0.0333869467	1.222471e-02	2.359706e-02	5.558003e-02
## :MATTSfM	-0.0021001428	1.793519e-02	-2.980019e-02	5.229221e-02
## :WCTPMWc	0.0331871738	1.289153e-02	1.393258e-02	1.299072e-02
## :WCTPTRWc	-0.0190285881	-1.807368e-02	-8.079840e-04	-1.320396e-03
## :WCTPAmnWC	0.0619654056	1.401836e-02	-2.641410e-02	2.408519e-02
## :WCTPOWc	0.0821124993	2.495284e-03	-5.533067e-02	3.667113e-03
## :CUTPFcu	0.0146404844	-1.014834e-02	-2.260564e-02	6.171007e-03
## :CUTPLcu	-0.0208240269	-1.003583e-02	-2.941811e-02	1.567961e-02
## :CUTPNocu	-0.0241098789	2.457116e-04	9.187811e-03	4.062461e-03
## :CUTPOcu	-0.0149242585	-1.082282e-02	-6.384789e-02	-1.135460e-02
## :SHCN	-0.0270304071	3.959954e-02	-1.372694e-02	-2.397273e-02
## :PRFQunk	0.0013762942	-2.695531e-02	-3.029619e-02	-5.655880e-03
## :PRFQ120	0.0281967677	-2.270615e-02	-5.300065e-02	-1.383959e-02
## :PRFQ15	0.0301051520	-2.416226e-02	-4.560384e-02	-2.599942e-02
## :PRFQ30	0.0185038056	-1.162854e-02	-6.410487e-02	-1.987878e-02
## :PRFQ60	0.0311378585	-1.366628e-02	-4.079500e-02	-2.646336e-02
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-0.0964603257	-4.565416e-02	-5.506392e-02	1.081818e-02
## :MATToM		:MATTSfM	:WCTPMWc	:WCTPTRWc
## PRI: (Intercept)	0.0130646295	0.0024657664	0.0055467810	1.957822e-02
## PRI:log(YRIN)	-0.0002412990	-0.0001764746	0.0004990207	-9.071603e-04
## PRI:log(AGEN)	-0.0002490634	0.0018963978	-0.0028743420	-2.782605e-03
## PRI:log(HGA1)	-0.0062075955	-0.0027861803	0.0039124088	-3.107636e-03
## PRI:LOIBelow T6	-0.0018876251	0.0010732020	-0.0002378658	4.333795e-04
## PRI:ASIAComplete	0.0038730036	0.0002436240	-0.0038498292	2.207383e-03
## PRI:BEDBHPTL	-0.0014181096	-0.0020805452	-0.0014954627	2.096611e-03
## PRI:BEDBSTD	-0.0027373426	0.0034569274	-0.0016162285	9.372899e-05
## PRI:MATTAfM	-0.0064474789	-0.0060660808	-0.0015069691	1.531706e-04
## PRI:MATToM	-0.0218534283	-0.0061444079	0.0014952962	2.286016e-03
## PRI:MATTSfM	-0.0061444079	-0.0132527585	0.0012367103	2.674583e-04
## PRI:WCTPMWc	0.0014952962	0.0012367103	-0.0145385122	-3.320299e-03
## PRI:WCTPTRWc	0.0022860164	0.0002674583	-0.0033202990	-2.203221e-02
## PRI:WCTPAmnWC	0.0019246520	0.0039106709	-0.0124150802	8.241763e-04
## PRI:WCTPOWc	0.0074479443	0.0037451760	-0.0105198287	-2.814135e-03
## PRI:CUTPFcu	0.0014691184	0.0004458311	0.0011091350	3.423773e-03
## PRI:CUTPLcu	-0.0017919339	0.0004235654	0.0014678854	-2.090100e-04
## PRI:CUTPNocu	-0.0026174054	-0.0038936828	0.0029630544	1.158203e-03
## PRI:CUTPOcu	0.0010912355	-0.0026196409	0.0036363496	4.112542e-03
## PRI:SHCN	0.0025741038	-0.0001683800	0.0081124051	-1.522937e-03
## PRI:PRFQunk	0.0019405259	-0.0003382764	0.0030842680	-9.312994e-05
## PRI:PRFQ120	0.0046846548	0.0001461203	0.0027250692	-2.655064e-03
## PRI:PRFQ15	0.0073284065	0.0013561919	0.0012438573	-2.698704e-03
## PRI:PRFQ30	0.0199194988	0.0012836946	-0.0008304640	-8.347904e-03
## PRI:PRFQ60	0.0084605104	0.0025172251	-0.0006044128	-7.128122e-04

## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	-0.0042808956	-0.0041833874	0.0175252292	-2.783340e-04
## : (Intercept)	-0.1126226922	-0.0212559604	-0.0478156239	-1.687727e-01
## :log(YRIN)	0.0020801005	0.0015212869	-0.0043017717	7.820109e-03
## :log(AGEN)	0.0021470329	-0.0163477597	0.0247780570	2.398724e-02
## :log(HGA1)	0.0535121276	0.0240180655	-0.0337266370	2.678915e-02
## :LOIBelow T6	0.0162721358	-0.0092514601	0.0020505046	-3.735917e-03
## :ASIAComplete	-0.0333869467	-0.0021001428	0.0331871738	-1.902859e-02
## :BEDBHPTL	0.0122247113	0.0179351894	0.0128915283	-1.807368e-02
## :BEDBSTD	0.0235970639	-0.0298001926	0.0139325809	-8.079840e-04
## :MATTAfM	0.0555800253	0.0522922099	0.0129907180	-1.320396e-03
## :MATToM	0.1883858960	0.0529674233	-0.0128900930	-1.970644e-02
## :MATTSfM	0.0529674233	0.1142444450	-0.0106609716	-2.305605e-03
## :WCTPMWc	-0.0128900930	-0.0106609716	0.1253281916	2.862240e-02
## :WCTPTRWc	-0.0197064384	-0.0023056046	0.0286223970	1.899270e-01
## :WCTPAmnWC	-0.0165913236	-0.0337116549	0.1070232998	-7.104753e-03
## :WCTPOWc	-0.0642044644	-0.0322850186	0.0906854217	2.425905e-02
## :CUTPFcCu	-0.0126644284	-0.0038432548	-0.0095612176	-2.951439e-02
## :CUTPLcCu	0.0154472368	-0.0036513151	-0.0126537995	1.801756e-03
## :CUTPNOCu	0.0225631540	0.0335652109	-0.0255427962	-9.984208e-03
## :CUTPOcCu	-0.0094069168	0.0225824250	-0.0313468884	-3.545187e-02
## :SHCN	-0.0221898756	0.0014515077	-0.0699324005	1.312836e-02
## :PRFQunk	-0.0167281634	0.0029160871	-0.0265877088	8.028199e-04
## :PRFQ120	-0.0403837277	-0.0012596199	-0.0234912616	2.288779e-02
## :PRFQ15	-0.0631739978	-0.0116909539	-0.0107225817	2.326398e-02
## :PRFQ30	-0.1717145967	-0.0110659963	0.0071589545	7.196250e-02
## :PRFQ60	-0.0729332168	-0.0216995564	0.0052102965	6.144746e-03
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	0.0369031507	0.0360625882	-0.1510749688	2.399358e-03
## :WCTPAmnWC		:WCTPOWc	:CUTPFcCu	:CUTPLcCu
## PRI: (Intercept)	-0.0283215784	-0.0139798088	-7.043715e-03	-0.0221363174
## PRI:log(YRIN)	0.0013884711	-0.0001469341	8.214178e-05	0.0006033023
## PRI:log(AGEN)	-0.0010086632	-0.0059107704	1.564950e-03	0.0062948271
## PRI:log(HGA1)	0.0172199348	0.0293769380	1.937328e-03	-0.0031191147
## PRI:LOIBelow T6	-0.0013649702	0.0051240822	1.994890e-04	-0.0043907610
## PRI:ASIAComplete	-0.0071882056	-0.0095253395	-1.698348e-03	0.0024156606
## PRI:BEDBHPTL	-0.0016261794	-0.0002894618	1.177243e-03	0.0011641916
## PRI:BEDBSTD	0.0030641290	0.0064185527	2.622334e-03	0.0034126047
## PRI:MATTAfM	-0.0027939670	-0.0004253981	-7.158586e-04	-0.0018188895
## PRI:MATToM	0.0019246520	0.0074479443	1.469118e-03	-0.0017919339
## PRI:MATTSfM	0.0039106709	0.0037451760	4.458311e-04	0.0004235654
## PRI:WCTPMWc	-0.0124150802	-0.0105198287	1.109135e-03	0.0014678854
## PRI:WCTPTRWc	0.0008241763	-0.0028141349	3.423773e-03	-0.0002090100
## PRI:WCTPAmnWC	-0.0719072007	-0.0180586102	-3.192094e-03	-0.0052517492
## PRI:WCTPOWc	-0.0180586102	-0.1324211494	-3.309366e-04	0.0029516529
## PRI:CUTPFcCu	-0.0031920940	-0.0003309366	-1.046832e-02	-0.0048296218
## PRI:CUTPLcCu	-0.0052517492	0.0029516529	-4.829622e-03	-0.0583961850
## PRI:CUTPNOCu	0.0535149793	0.0094386299	-4.169735e-03	-0.0003118424
## PRI:CUTPOcCu	-0.0018272326	0.0003968722	-5.336803e-03	-0.0046917192
## PRI:SHCN	0.0117820291	0.0034684233	3.943265e-03	0.0030547647
## PRI:PRFQunk	0.0064989477	-0.0096774179	-1.861942e-03	0.0045688902
## PRI:PRFQ120	0.0014497824	-0.0187012324	-3.076139e-03	0.0006615315
## PRI:PRFQ15	0.0036865264	-0.0162244538	-2.058221e-03	0.0013085547
## PRI:PRFQ30	0.0040280817	-0.0157695746	-2.471495e-03	0.0013564412

## PRI:PRFQ60	0.0007785138	-0.0194155635	1.079030e-03	0.0043664306
## PRI:PRFQ5	NA	NA	NA	NA
## PRI:PRFQ15-20	0.0185535719	0.0081286069	-3.681948e-03	-0.0057172485
## : (Intercept)	0.2441441152	0.1205119295	6.071983e-02	0.1908245207
## :log(YRIN)	-0.0119692141	0.0012666351	-7.080973e-04	-0.0052007236
## :log(AGEN)	0.0086951077	0.0509533682	-1.349054e-02	-0.0542641012
## :log(HGA1)	-0.1484432005	-0.2532417669	-1.670060e-02	0.0268881025
## :LOIBelow T6	0.0117666272	-0.0441717794	-1.719680e-03	0.0378502374
## :ASIAComplete	0.0619654056	0.0821124993	1.464048e-02	-0.0208240269
## :BEDBHPTL	0.0140183621	0.0024952842	-1.014834e-02	-0.0100358290
## :BEDBSTD	-0.0264141018	-0.0553306688	-2.260564e-02	-0.0294181116
## :MATTAfM	0.0240851898	0.0036671132	6.171007e-03	0.0156796056
## :MATToM	-0.0165913236	-0.0642044644	-1.266443e-02	0.0154472368
## :MATTSfM	-0.0337116549	-0.0322850186	-3.843255e-03	-0.0036513151
## :WCTPMWc	0.1070232998	0.0906854217	-9.561218e-03	-0.0126537995
## :WCTPTRWc	-0.0071047525	0.0242590465	-2.951439e-02	0.0018017557
## :WCTPAmnWC	0.6198708165	0.1556729415	2.751722e-02	0.0452723238
## :WCTPOWc	0.1556729415	1.1415269287	2.852815e-03	-0.0254445099
## :CUTPFcu	0.0275172152	0.0028528153	9.024138e-02	0.0416334049
## :CUTPLcu	0.0452723238	-0.0254445099	4.163340e-02	0.5034000842
## :CUTPNocu	-0.4613220032	-0.0813650251	3.594490e-02	0.0026882146
## :CUTPOcu	0.0157515263	-0.0034212077	4.600553e-02	0.0404446255
## :SHCN	-0.1015661284	-0.0298992915	-3.399263e-02	-0.0263333780
## :PRFQunk	-0.0560237081	0.0834234806	1.605074e-02	-0.0393857870
## :PRFQ120	-0.0124977441	0.1612126196	2.651763e-02	-0.0057026843
## :PRFQ15	-0.0317794342	0.1398617290	1.774275e-02	-0.0112803012
## :PRFQ30	-0.0347237863	0.1359404761	2.130534e-02	-0.0116931032
## :PRFQ60	-0.0067111217	0.1673704587	-9.301701e-03	-0.0376404990
## :PRFQ5	NA	NA	NA	NA
## :PRFQ15-20	-0.1599397231	-0.0700720667	3.173997e-02	0.0492851266
## :CUTPNocu		:CUTPOcu	:SHCN	:PRFQunk
## PRI: (Intercept)	1.205247e-02	4.553205e-03	0.0226360219	3.064215e-02
## PRI:log(YRIN)	-1.086806e-03	3.013271e-04	-0.0004486076	-9.239629e-04
## PRI:log(AGEN)	4.618906e-03	-4.930897e-03	-0.0032418420	-3.590153e-03
## PRI:log(HGA1)	-1.507496e-02	8.645953e-03	-0.0004593173	-1.537251e-03
## PRI:LOIBelow T6	-2.606563e-03	-3.177168e-04	0.0054376405	1.073507e-03
## PRI:ASIAComplete	2.796831e-03	1.731267e-03	0.0031356226	-1.596550e-04
## PRI:BEDBHPTL	-2.850342e-05	1.255485e-03	-0.0045936859	3.126911e-03
## PRI:BEDBSTD	-1.065818e-03	7.406581e-03	0.0015923740	3.514465e-03
## PRI:MATTAfM	-4.712598e-04	1.317174e-03	0.0027809212	6.561020e-04
## PRI:MATToM	-2.617405e-03	1.091236e-03	0.0025741038	1.940526e-03
## PRI:MATTSfM	-3.893683e-03	-2.619641e-03	-0.0001683800	-3.382764e-04
## PRI:WCTPMWc	2.963054e-03	3.636350e-03	0.0081124051	3.084268e-03
## PRI:WCTPTRWc	1.158203e-03	4.112542e-03	-0.0015229366	-9.312994e-05
## PRI:WCTPAmnWC	5.351498e-02	-1.827233e-03	0.0117820291	6.498948e-03
## PRI:WCTPOWc	9.438630e-03	3.968722e-04	0.0034684233	-9.677418e-03
## PRI:CUTPFcu	-4.169735e-03	-5.336803e-03	0.0039432645	-1.861942e-03
## PRI:CUTPLcu	-3.118424e-04	-4.691719e-03	0.0030547647	4.568890e-03
## PRI:CUTPNocu	-6.813246e-02	-1.790960e-03	0.0023375728	-4.339702e-03
## PRI:CUTPOcu	-1.790960e-03	-3.245109e-02	-0.0008056390	3.368514e-05
## PRI:SHCN	2.337573e-03	-8.056390e-04	-0.0215013229	-3.556819e-03
## PRI:PRFQunk	-4.339702e-03	3.368514e-05	-0.0035568188	-1.808451e-02
## PRI:PRFQ120	2.534845e-03	-1.921349e-03	-0.0070587344	-1.497180e-02
## PRI:PRFQ15	2.878282e-03	-4.180621e-05	-0.0033313183	-1.404429e-02

## PRI:PRFQ30	-1.891055e-03	1.085338e-02	-0.0102549980	-1.732688e-02	
## PRI:PRFQ60	4.012181e-03	5.264971e-03	-0.0094344511	-1.432686e-02	
## PRI:PRFQ5	NA	NA	NA	NA	
## PRI:PRFQ15-20	-6.547117e-03	-7.000081e-03	-0.0134346731	-1.574763e-02	
## : (Intercept)	-1.038974e-01	-3.925058e-02	-0.1951321876	-2.641485e-01	
## :log(YRIN)	9.368733e-03	-2.597569e-03	0.0038671889	7.964956e-03	
## :log(AGEN)	-3.981694e-02	4.250644e-02	0.0279460640	3.094865e-02	
## :log(HGA1)	1.299526e-01	-7.453181e-02	0.0039595115	1.325176e-02	
## :LOIBelow T6	2.246969e-02	2.738855e-03	-0.0468747865	-9.254091e-03	
## :ASIAComplete	-2.410988e-02	-1.492426e-02	-0.0270304071	1.376294e-03	
## :BEDBHPTL	2.457116e-04	-1.082282e-02	0.0395995368	-2.695531e-02	
## :BEDBSTD	9.187811e-03	-6.384789e-02	-0.0137269444	-3.029619e-02	
## :MATTAfM	4.062461e-03	-1.135460e-02	-0.0239727295	-5.655880e-03	
## :MATToM	2.256315e-02	-9.406917e-03	-0.0221898756	-1.672816e-02	
## :MATTSfM	3.356521e-02	2.258243e-02	0.0014515077	2.916087e-03	
## :WCTPMWc	-2.554280e-02	-3.134689e-02	-0.0699324005	-2.658771e-02	
## :WCTPTRWc	-9.984208e-03	-3.545187e-02	0.0131283648	8.028199e-04	
## :WCTPAmnWC	-4.613220e-01	1.575153e-02	-0.1015661284	-5.602371e-02	
## :WCTPOWc	-8.136503e-02	-3.421208e-03	-0.0298992915	8.342348e-02	
## :CUTPFcu	3.594490e-02	4.600553e-02	-0.0339926264	1.605074e-02	
## :CUTPLcu	2.688215e-03	4.044463e-02	-0.0263333780	-3.938579e-02	
## :CUTPNocU	5.873309e-01	1.543884e-02	-0.0201508772	3.741008e-02	
## :CUTPOcu	1.543884e-02	2.797423e-01	0.0069449525	-2.903803e-04	
## :SHCN	-2.015088e-02	6.944953e-03	0.1853505971	3.066130e-02	
## :PRFQunk	3.741008e-02	-2.903803e-04	0.0306612988	1.558962e-01	
## :PRFQ120	-2.185145e-02	1.656285e-02	0.0608493091	1.290633e-01	
## :PRFQ15	-2.481202e-02	3.603874e-04	0.0287173883	1.210678e-01	
## :PRFQ30	1.630170e-02	-9.356081e-02	0.0884024673	1.493651e-01	
## :PRFQ60	-3.458672e-02	-4.538630e-02	0.0813290028	1.235037e-01	
## :PRFQ5	NA	NA	NA	NA	
## :PRFQ15-20	5.643895e-02	6.034369e-02	0.1158126266	1.357513e-01	
## :PRFQ120					
## PRI: (Intercept)	-0.0127129966	1.513930e-02	0.022164045	0.0132528708	NA
## PRI:log(YRIN)	-0.0013876652	-6.822386e-04	-0.001031290	-0.0005292415	NA
## PRI:log(AGEN)	0.0007979539	-2.615787e-03	0.001301229	-0.0059073527	NA
## PRI:log(HGA1)	0.0161170064	5.020461e-03	-0.004309998	0.0150264719	NA
## PRI:LOIBelow T6	0.0020593933	2.059428e-03	0.002311204	0.0033469275	NA
## PRI:ASIAComplete	-0.0032709245	-3.492304e-03	-0.002146507	-0.0036121014	NA
## PRI:BEDBHPTL	0.0026339940	2.802908e-03	0.001348951	0.0015853367	NA
## PRI:BEDBSTD	0.0061482624	5.290206e-03	0.007436390	0.0047323641	NA
## PRI:MATTAfM	0.0016054411	3.016024e-03	0.002306009	0.0030698428	NA
## PRI:MATToM	0.0046846548	7.328407e-03	0.019919499	0.0084605104	NA
## PRI:MATTSfM	0.0001461203	1.356192e-03	0.001283695	0.0025172251	NA
## PRI:WCTPMWc	0.0027250692	1.243857e-03	-0.000830464	-0.0006044128	NA
## PRI:WCTPTRWc	-0.0026550642	-2.698704e-03	-0.008347904	-0.0007128122	NA
## PRI:WCTPAmnWC	0.0014497824	3.686526e-03	0.004028082	0.0007785138	NA
## PRI:WCTPOWc	-0.0187012324	-1.622445e-02	-0.015769575	-0.0194155635	NA
## PRI:CUTPFcu	-0.0030761387	-2.058221e-03	-0.002471495	0.0010790302	NA
## PRI:CUTPLcu	0.0006615315	1.308555e-03	0.001356441	0.0043664306	NA
## PRI:CUTPNocU	0.0025348454	2.878282e-03	-0.001891055	0.0040121814	NA
## PRI:CUTPOcu	-0.0019213487	-4.180621e-05	0.010853384	0.0052649706	NA
## PRI:SHCN	-0.0070587344	-3.331318e-03	-0.010254998	-0.0094344511	NA
## PRI:PRFQunk	-0.0149717977	-1.404429e-02	-0.017326884	-0.0143268643	NA
## PRI:PRFQ120	-0.0405866904	-1.845277e-02	-0.021314558	-0.0204296831	NA

## PRI:PRFQ15	-0.0184527747	-2.319613e-02	-0.021294778	-0.0168940195	NA
## PRI:PRFQ30	-0.0213145585	-2.129478e-02	-0.094990589	-0.0254539102	NA
## PRI:PRFQ60	-0.0204296831	-1.689402e-02	-0.025453910	-0.0477661002	NA
## PRI:PRFQ5	NA	NA	NA	NA	NA
## PRI:PRFQ15-20	-0.0155328756	-1.108602e-02	-0.014550344	-0.0104161912	NA
## : (Intercept)	0.1095914664	-1.305073e-01	-0.191063545	-0.1142454132	NA
## :log(YRIN)	0.0119622674	5.881188e-03	0.008890165	0.0045622882	NA
## :log(AGEN)	-0.0068787042	2.254920e-02	-0.011217153	0.0509239058	NA
## :log(HGA1)	-0.1389354862	-4.327852e-02	0.037154030	-0.1295346126	NA
## :LOIBelow T6	-0.0177528512	-1.775315e-02	-0.019923569	-0.0288519462	NA
## :ASIAComplete	0.0281967677	3.010515e-02	0.018503806	0.0311378585	NA
## :BEDBHPTL	-0.0227061543	-2.416226e-02	-0.011628537	-0.0136662803	NA
## :BEDBSTD	-0.0530006505	-4.560384e-02	-0.064104865	-0.0407950019	NA
## :MATTAfM	-0.0138395890	-2.599942e-02	-0.019878783	-0.0264633572	NA
## :MATToM	-0.0403837277	-6.317400e-02	-0.171714597	-0.0729332168	NA
## :MATTSfM	-0.0012596199	-1.169095e-02	-0.011065996	-0.0216995564	NA
## :WCTPMWc	-0.0234912616	-1.072258e-02	0.007158954	0.0052102965	NA
## :WCTPTRWc	0.0228877882	2.326398e-02	0.071962504	0.0061447457	NA
## :WCTPAmnWC	-0.0124977441	-3.177943e-02	-0.034723786	-0.0067111217	NA
## :WCTPOWc	0.1612126196	1.398617e-01	0.135940476	0.1673704587	NA
## :CUTPFcCu	0.0265176311	1.774275e-02	0.021305341	-0.0093017014	NA
## :CUTPLcCu	-0.0057026843	-1.128030e-02	-0.011693103	-0.0376404990	NA
## :CUTPNOCu	-0.0218514512	-2.481202e-02	0.016301704	-0.0345867188	NA
## :CUTPOcCu	0.0165628471	3.603874e-04	-0.093560807	-0.0453862976	NA
## :SHCN	0.0608493091	2.871739e-02	0.088402467	0.0813290028	NA
## :PRFQunk	0.1290632975	1.210678e-01	0.149365147	0.1235036960	NA
## :PRFQ120	0.3498746256	1.590708e-01	0.183740608	0.1761126039	NA
## :PRFQ15	0.1590708078	1.999605e-01	0.183570092	0.1456336718	NA
## :PRFQ30	0.1837406075	1.835701e-01	0.818859494	0.2194235899	NA
## :PRFQ60	0.1761126039	1.456337e-01	0.219423590	0.4117642072	NA
## :PRFQ5	NA	NA	NA	NA	NA
## :PRFQ15-20	0.1339000294	9.556622e-02	0.125430188	0.0897920215	NA
## :PRFQ15-20					
## PRI: (Intercept)	0.0123924439				
## PRI:log(YRIN)	-0.0006522146				
## PRI:log(AGEN)	0.0030407636				
## PRI:log(HGA1)	-0.0078807017				
## PRI:LOIBelow T6	-0.0018117765				
## PRI:ASIAComplete	0.0111897380				
## PRI:BEDBHPTL	0.0052960437				
## PRI:BEDBSTD	0.0063876085				
## PRI:MATTAfM	-0.0012549465				
## PRI:MATToM	-0.0042808956				
## PRI:MATTSfM	-0.0041833874				
## PRI:WCTPMWc	0.0175252292				
## PRI:WCTPTRWc	-0.0002783340				
## PRI:WCTPAmnWC	0.0185535719				
## PRI:WCTPOWc	0.0081286069				
## PRI:CUTPFcCu	-0.0036819484				
## PRI:CUTPLcCu	-0.0057172485				
## PRI:CUTPNOCu	-0.0065471175				
## PRI:CUTPOcCu	-0.0070000808				
## PRI:SHCN	-0.0134346731				
## PRI:PRFQunk	-0.0157476329				

## PRI:PRFQ120	-0.0155328756
## PRI:PRFQ15	-0.0110860185
## PRI:PRFQ30	-0.0145503441
## PRI:PRFQ60	-0.0104161912
## PRI:PRFQ5	NA
## PRI:PRFQ15-20	-0.1377255979
## : (Intercept)	-0.1068281651
## :log(YRIN)	0.0056223685
## :log(AGEN)	-0.0262126827
## :log(HGA1)	0.0679350185
## :LOIBelow T6	0.0156182879
## :ASIAComplete	-0.0964603257
## :BEDBHPTL	-0.0456541611
## :BEDBSTD	-0.0550639169
## :MATTAfM	0.0108181756
## :MATToM	0.0369031507
## :MATTSfM	0.0360625882
## :WCTPMWc	-0.1510749688
## :WCTPTRWc	0.0023993581
## :WCTPAmnWC	-0.1599397231
## :WCTPOWc	-0.0700720667
## :CUTPFcu	0.0317399699
## :CUTPLcu	0.0492851266
## :CUTPNocu	0.0564389519
## :CUTPOcu	0.0603436892
## :SHCN	0.1158126266
## :PRFQunk	0.1357513292
## :PRFQ120	0.1339000294
## :PRFQ15	0.0955662195
## :PRFQ30	0.1254301880
## :PRFQ60	0.0897920215
## :PRFQ5	NA
## :PRFQ15-20	1.1872535428